

VII.



APPENDICES

A. KEY STATISTICS

FDIC ACTIONS ON FINANCIAL INSTITUTIONS APPLICATIONS			
	2019	2018	2017
Deposit Insurance	15	17	12
Approved ¹	15	17	12
Denied	0	0	0
New Branches	548	533	500
Approved	548	533	500
Denied	0	0	0
Mergers	243	224	218
Approved	243	224	218
Denied	0	0	0
Requests for Consent to Serve²	87	120	104
Approved	87	120	104
Section 19	5	7	1
Section 32	82	113	103
Denied	0	0	0
Section 19	0	0	0
Section 32	0	0	0
Notices of Change in Control	12	21	17
Letters of Intent Not to Disapprove	12	21	17
Disapproved	0	0	0
Brokered Deposit Waivers	3	5	12
Approved	3	5	11
Denied	0	0	1
Savings Association Activities³	2	0	1
Approved	2	0	1
Denied	0	0	0
State Bank Activities/Investments⁴	20	9	2
Approved	20	9	2
Denied	0	0	0
Conversion of Mutual Institutions	4	2	5
Non-Objection	4	2	5
Objection	0	0	0

¹ Includes deposit insurance application filed on behalf of (1) newly organized institutions, (2) existing uninsured financial services companies seeking establishment as an insured institution, and (3) interim institutions established to facilitate merger or conversion transactions, and applications to facilitate the establishment of thrift holding companies.

² Under Section 19 of the Federal Deposit Insurance (FDI) Act, an insured institution must receive FDIC approval before employing a person convicted of dishonesty or breach of trust. Under Section 32, the FDIC must approve any change of directors or senior executive officers at a state nonmember bank that is not in compliance with capital requirements or is otherwise in troubled condition.

³ Section 28 of the FDI Act, in general, prohibits a federally-insured state savings association from engaging in an activity not permissible for a federal savings association and requires notices or applications to be filed with the FDIC.

⁴ Section 24 of the FDI Act, in general, prohibits a federally-insured state bank from engaging in an activity not permissible for a national bank and requires notices or applications to be filed with the FDIC.

COMBINED RISK AND CONSUMER ENFORCEMENT ACTIONS

	2019	2018	2017
Total Number of Actions Initiated by the FDIC	182	177	231
Termination of Insurance	17	8	9
Involuntary Termination	0	0	0
Sec. 8a For Violations, Unsafe/Unsound Practices or Conditions	0	0	0
Voluntary Termination	17	8	9
Sec. 8a By Order Upon Request	0	0	0
Sec. 8p No Deposits	12	7	8
Sec. 8q Deposits Assumed	5	1	1
Sec. 8b Cease-and-Desist Actions	24	23	26
Notices of Charges Issued	1	1	0
Orders to Pay Restitution	0	5	4
Consent Orders	18	17	14
Personal Cease and Desist Orders	5	0	8
Sec. 8e Removal/Prohibition of Director or Officer	34	52	65
Notices of Intention to Remove/Prohibit	1	2	7
Consent Orders	33	50	58
Sec. 8g Suspension/Removal When Charged With Crime	0	0	0
Civil Money Penalties Issued	29	25	47
Sec. 7a Call Report Penalties	0	0	0
Sec. 8i Civil Money Penalties	27	23	42
Sec. 8i Civil Money Penalty Notices of Assessment	2	2	5
Sec. 10c Orders of Investigation	11	6	9
Sec. 19 Waiver Orders	64	59	71
Approved Section 19 Waiver Orders	64	59	71
Denied Section 19 Waiver Orders	0	0	0
Sec. 32 Notices Disapproving Officer/Director's Request for Review	0	0	0
Truth-in-Lending Act Reimbursement Actions	58	91	135
Denials of Requests for Relief	0	0	0
Grants of Relief	0	0	0
Banks Making Reimbursement ¹	58	91	135
Suspicious Activity Reports (Open and closed institutions)¹	225,270	193,585	182,647
Other Actions Not Listed²	3	4	4

¹ These actions do not constitute the initiation of a formal enforcement action and, therefore, are not included in the total number of actions initiated.

² The Other Actions Not Listed were, in 2019: 3 Supervisory Prompt Corrective Action Directives and 1 Other Formal Action; in 2018: 2 Supervisory Prompt Corrective Action Directives, 1 Temporary Cease and Desist Order and 1 Other Formal Action; and 2017: 1 Supervisory Prompt Corrective Action Directive and 3 Other Formal Actions.

**ESTIMATED INSURED DEPOSITS AND THE DEPOSIT INSURANCE FUND,
DECEMBER 31, 1934, THROUGH SEPTEMBER 30, 2019¹**

Dollars in Millions (except Insurance Coverage)

Deposits in Insured Institutions ²						Insurance Fund as a Percentage of	
Year	Insurance Coverage ²	Total Domestic Deposits	Est. Insured Deposits	Percentage of Domestic Deposits	Deposit Insurance Fund	Total Domestic Deposits	Est. Insured Deposits
2019	\$250,000	\$13,018,939	\$7,736,888	59.4	\$108,939.7	0.84	1.41
2018	250,000	12,659,395	7,525,393	59.4	102,608.9	0.81	1.36
2017	250,000	12,129,503	7,156,067	59.0	92,747.5	0.76	1.30
2016	250,000	11,693,371	6,917,200	59.2	83,161.5	0.71	1.20
2015	250,000	10,952,922	6,518,675	59.5	72,600.2	0.66	1.11
2014	250,000	10,410,687	6,195,554	59.5	62,780.2	0.60	1.01
2013	250,000	9,825,479	5,998,238	61.0	47,190.8	0.48	0.79
2012	250,000	9,474,720	7,402,053	78.1	32,957.8	0.35	0.45
2011	250,000	8,782,291	6,973,483	79.4	11,826.5	0.13	0.17
2010	250,000	7,887,858	6,301,542	79.9	(7,352.2)	(0.09)	(0.12)
2009	250,000	7,705,354	5,407,773	70.2	(20,861.8)	(0.27)	(0.39)
2008	100,000	7,505,408	4,750,783	63.3	17,276.3	0.23	0.36
2007	100,000	6,921,678	4,292,211	62.0	52,413.0	0.76	1.22
2006	100,000	6,640,097	4,153,808	62.6	50,165.3	0.76	1.21
2005	100,000	6,229,753	3,890,930	62.5	48,596.6	0.78	1.25
2004	100,000	5,724,621	3,622,059	63.3	47,506.8	0.83	1.31
2003	100,000	5,223,922	3,452,497	66.1	46,022.3	0.88	1.33
2002	100,000	4,916,078	3,383,598	68.8	43,797.0	0.89	1.29
2001	100,000	4,564,064	3,215,581	70.5	41,373.8	0.91	1.29
2000	100,000	4,211,895	3,055,108	72.5	41,733.8	0.99	1.37
1999	100,000	3,885,826	2,869,208	73.8	39,694.9	1.02	1.38
1998	100,000	3,817,150	2,850,452	74.7	39,452.1	1.03	1.38
1997	100,000	3,602,189	2,746,477	76.2	37,660.8	1.05	1.37
1996	100,000	3,454,556	2,690,439	77.9	35,742.8	1.03	1.33
1995	100,000	3,318,595	2,663,873	80.3	28,811.5	0.87	1.08
1994	100,000	3,184,410	2,588,619	81.3	23,784.5	0.75	0.92
1993	100,000	3,220,302	2,602,781	80.8	14,277.3	0.44	0.55
1992	100,000	3,275,530	2,677,709	81.7	178.4	0.01	0.01
1991	100,000	3,331,312	2,733,387	82.1	(6,934.0)	(0.21)	(0.25)
1990	100,000	3,415,464	2,784,838	81.5	4,062.7	0.12	0.15
1989	100,000	3,412,503	2,755,471	80.7	13,209.5	0.39	0.48
1988	100,000	2,337,080	1,756,771	75.2	14,061.1	0.60	0.80
1987	100,000	2,198,648	1,657,291	75.4	18,301.8	0.83	1.10
1986	100,000	2,162,687	1,636,915	75.7	18,253.3	0.84	1.12

ESTIMATED INSURED DEPOSITS AND THE DEPOSIT INSURANCE FUND, DECEMBER 31, 1934, THROUGH SEPTEMBER 30, 2019¹ (continued)

Dollars in Millions (except Insurance Coverage)

Year	Deposits in Insured Institutions ²					Insurance Fund as a Percentage of	
	Insurance Coverage ²	Total Domestic Deposits	Est. Insured Deposits	Percentage of Domestic Deposits	Deposit Insurance Fund	Total Domestic Deposits	Est. Insured Deposits
1985	100,000	1,975,030	1,510,496	76.5	17,956.9	0.91	1.19
1984	100,000	1,805,334	1,393,421	77.2	16,529.4	0.92	1.19
1983	100,000	1,690,576	1,268,332	75.0	15,429.1	0.91	1.22
1982	100,000	1,544,697	1,134,221	73.4	13,770.9	0.89	1.21
1981	100,000	1,409,322	988,898	70.2	12,246.1	0.87	1.24
1980	100,000	1,324,463	948,717	71.6	11,019.5	0.83	1.16
1979	40,000	1,226,943	808,555	65.9	9,792.7	0.80	1.21
1978	40,000	1,145,835	760,706	66.4	8,796.0	0.77	1.16
1977	40,000	1,050,435	692,533	65.9	7,992.8	0.76	1.15
1976	40,000	941,923	628,263	66.7	7,268.8	0.77	1.16
1975	40,000	875,985	569,101	65.0	6,716.0	0.77	1.18
1974	40,000	833,277	520,309	62.4	6,124.2	0.73	1.18
1973	20,000	766,509	465,600	60.7	5,615.3	0.73	1.21
1972	20,000	697,480	419,756	60.2	5,158.7	0.74	1.23
1971	20,000	610,685	374,568	61.3	4,739.9	0.78	1.27
1970	20,000	545,198	349,581	64.1	4,379.6	0.80	1.25
1969	20,000	495,858	313,085	63.1	4,051.1	0.82	1.29
1968	15,000	491,513	296,701	60.4	3,749.2	0.76	1.26
1967	15,000	448,709	261,149	58.2	3,485.5	0.78	1.33
1966	15,000	401,096	234,150	58.4	3,252.0	0.81	1.39
1965	10,000	377,400	209,690	55.6	3,036.3	0.80	1.45
1964	10,000	348,981	191,787	55.0	2,844.7	0.82	1.48
1963	10,000	313,304	177,381	56.6	2,667.9	0.85	1.50
1962	10,000	297,548	170,210	57.2	2,502.0	0.84	1.47
1961	10,000	281,304	160,309	57.0	2,353.8	0.84	1.47
1960	10,000	260,495	149,684	57.5	2,222.2	0.85	1.48
1959	10,000	247,589	142,131	57.4	2,089.8	0.84	1.47
1958	10,000	242,445	137,698	56.8	1,965.4	0.81	1.43
1957	10,000	225,507	127,055	56.3	1,850.5	0.82	1.46
1956	10,000	219,393	121,008	55.2	1,742.1	0.79	1.44
1955	10,000	212,226	116,380	54.8	1,639.6	0.77	1.41
1954	10,000	203,195	110,973	54.6	1,542.7	0.76	1.39
1953	10,000	193,466	105,610	54.6	1,450.7	0.75	1.37
1952	10,000	188,142	101,841	54.1	1,363.5	0.72	1.34

**ESTIMATED INSURED DEPOSITS AND THE DEPOSIT INSURANCE FUND,
DECEMBER 31, 1934, THROUGH SEPTEMBER 30, 2019¹ (continued)**
Dollars in Millions (except Insurance Coverage)

Year	Insurance Coverage ²	Deposits in Insured Institutions ²				Insurance Fund as a Percentage of	
		Total Domestic Deposits	Est. Insured Deposits	Percentage of Domestic Deposits	Deposit Insurance Fund	Total Domestic Deposits	Est. Insured Deposits
1951	10,000	178,540	96,713	54.2	1,282.2	0.72	1.33
1950	10,000	167,818	91,359	54.4	1,243.9	0.74	1.36
1949	5,000	156,786	76,589	48.8	1,203.9	0.77	1.57
1948	5,000	153,454	75,320	49.1	1,065.9	0.69	1.42
1947	5,000	154,096	76,254	49.5	1,006.1	0.65	1.32
1946	5,000	148,458	73,759	49.7	1,058.5	0.71	1.44
1945	5,000	157,174	67,021	42.6	929.2	0.59	1.39
1944	5,000	134,662	56,398	41.9	804.3	0.60	1.43
1943	5,000	111,650	48,440	43.4	703.1	0.63	1.45
1942	5,000	89,869	32,837	36.5	616.9	0.69	1.88
1941	5,000	71,209	28,249	39.7	553.5	0.78	1.96
1940	5,000	65,288	26,638	40.8	496.0	0.76	1.86
1939	5,000	57,485	24,650	42.9	452.7	0.79	1.84
1938	5,000	50,791	23,121	45.5	420.5	0.83	1.82
1937	5,000	48,228	22,557	46.8	383.1	0.79	1.70
1936	5,000	50,281	22,330	44.4	343.4	0.68	1.54
1935	5,000	45,125	20,158	44.7	306.0	0.68	1.52
1934	5,000	40,060	18,075	45.1	291.7	0.73	1.61

¹For 2019, figures are as of September 30; all other prior years are as of December 31. Prior to 1989, figures are for the Bank Insurance Fund (BIF) only and exclude insured branches of foreign banks. For 1989 to 2005, figures represent the sum of the BIF and Savings Association Insurance Fund (SAIF) amounts; for 2006 to 2019, figures are for DIF. Amounts for 1989-2019 include insured branches of foreign banks. Prior to year-end 1991, insured deposits were estimated using percentages determined from June Call and Thrift Financial Reports.

² The year-end 2008 coverage limit and estimated insured deposits do not reflect the temporary increase to \$250,000 then in effect under the Emergency Economic Stabilization Act of 2008. The Dodd-Frank Wall Street Reform and Consumer Protection (Dodd-Frank) Act made this coverage limit permanent. The year-end 2009 coverage limit and estimated insured deposits reflect the \$250,000 coverage limit. The Dodd-Frank Act also temporarily provided unlimited coverage for non-interest bearing transaction accounts for two years beginning December 31, 2010. Coverage for certain retirement accounts increased to \$250,000 in 2006. Initial coverage limit was \$2,500 from January 1 to June 30, 1934.

**INCOME AND EXPENSES, DEPOSIT INSURANCE FUND,
FROM BEGINNING OF OPERATIONS,
SEPTEMBER 11, 1933, THROUGH DECEMBER 31, 2019**
Dollars in Millions

Income						Expenses and Losses					
Year	Total	Assessment Income	Assessment Credits	Investment and Other	Effective Assessment Rate ¹	Total	Provision for Ins. Losses	Admin. and Operating Expenses ²	Interest & Other Ins. Expenses	Funding Transfer from the FSLIC Resolu- tion Fund	Net Income/ (Loss)
TOTAL	\$260,559.2	\$190,764.4	\$12,096.5	\$81,891.3		\$151,024.5	\$106,443.1	\$35,109.3	\$9,472.2	\$139.5	\$109,674.2
2019	7,095.3	5,642.7	703.6	2,156.2	0.0313%	513.2	(1,285.5)	1,795.6	3.1	0	6,582.1
2018	11,170.8	9,526.7	0.0	1,644.1	0.0626%	1,205.2	(562.6)	1,764.7	3.1	0	9,965.6
2017	11,663.7	10,594.8	0.0	1,068.9	0.0716%	1,558.2	(183.1)	1,739.4	2.0	0	10,105.5
2016	10,674.1	9,986.6	0.0	687.5	0.0699%	150.6	(1,567.9)	1,715.0	3.5	0	10,523.5
2015	9,303.5	8,846.8	0.0	456.7	0.0647%	(553.2)	(2,251.3)	1,687.2	10.9	0	9,856.7
2014	8,965.1	8,656.1	0.0	309.0	0.0663%	(6,634.7)	(8,305.5)	1,664.3	6.5	0	15,599.8
2013	10,458.9	9,734.2	0.0	724.7	0.0775%	(4,045.9)	(5,659.4)	1,608.7	4.8	0	14,504.8
2012	18,522.3	12,397.2	0.2	6,125.3	0.1012%	(2,599.0)	(4,222.6)	1,777.5	(153.9)	0	21,121.3
2011	16,342.0	13,499.5	0.9	2,843.4	0.1115%	(2,915.4)	(4,413.6)	1,625.4	(127.2)	0	19,257.4
2010	13,379.9	13,611.2	0.8	(230.5)	0.1772%	75.0	(847.8)	1,592.6	(669.8)	0	13,304.9
2009	24,706.4	17,865.4	148.0	6,989.0	0.2330%	60,709.0	57,711.8	1,271.1	1,726.1	0	(36,002.6)
2008	7,306.3	4,410.4	1,445.9	4,341.8	0.0418%	44,339.5	41,838.8	1,033.5	1,467.2	0	(37,033.2)
2007	3,196.2	3,730.9	3,088.0	2,553.3	0.0093%	1,090.9	95.0	992.6	3.3	0	2,105.3
2006	2,643.5	31.9	0.0	2,611.6	0.0005%	904.3	(52.1)	950.6	5.8	0	1,739.2
2005	2,420.5	60.9	0.0	2,359.6	0.0010%	809.3	(160.2)	965.7	3.8	0	1,611.2
2004	2,240.3	104.2	0.0	2,136.1	0.0019%	607.6	(353.4)	941.3	19.7	0	1,632.7
2003	2,173.6	94.8	0.0	2,078.8	0.0019%	(67.7)	(1,010.5)	935.5	7.3	0	2,241.3
2002	2,384.7	107.8	0.0	2,276.9	0.0023%	719.6	(243.0)	945.1	17.5	0	1,665.1
2001	2,730.1	83.2	0.0	2,646.9	0.0019%	3,123.4	2,199.3	887.9	36.2	0	(393.3)
2000	2,570.1	64.3	0.0	2,505.8	0.0016%	945.2	28.0	883.9	33.3	0	1,624.9
1999	2,416.7	48.4	0.0	2,368.3	0.0013%	2,047.0	1,199.7	823.4	23.9	0	369.7
1998	2,584.6	37.0	0.0	2,547.6	0.0010%	817.5	(5.7)	782.6	40.6	0	1,767.1
1997	2,165.5	38.6	0.0	2,126.9	0.0011%	247.3	(505.7)	677.2	75.8	0	1,918.2
1996	7,156.8	5,294.2	0.0	1,862.6	0.1622%	353.6	(417.2)	568.3	202.5	0	6,803.2
1995	5,229.2	3,877.0	0.0	1,352.2	0.1238%	202.2	(354.2)	510.6	45.8	0	5,027.0
1994	7,682.1	6,722.7	0.0	959.4	0.2192%	(1,825.1)	(2,459.4)	443.2	191.1	0	9,507.2
1993	7,354.5	6,682.0	0.0	672.5	0.2157%	(6,744.4)	(7,660.4)	418.5	497.5	0	14,098.9
1992	6,479.3	5,758.6	0.0	720.7	0.1815%	(596.8)	(2,274.7)	614.8 ³	1,063.1	35.4	7,111.5
1991	5,886.5	5,254.0	0.0	632.5	0.1613%	16,925.3	15,496.2	326.1	1,103.0	42.4	(10,996.4)
1990	3,855.3	2,872.3	0.0	983.0	0.0868%	13,059.3	12,133.1	275.6	650.6	56.1	(9,147.9)
1989	3,494.8	1,885.0	0.0	1,609.8	0.0816%	4,352.2	3,811.3	219.9	321.0	5.6	(851.8)
1988	3,347.7	1,773.0	0.0	1,574.7	0.0825%	7,588.4	6,298.3	223.9	1,066.2	0	(4,240.7)
1987	3,319.4	1,696.0	0.0	1,623.4	0.0833%	3,270.9	2,996.9	204.9	69.1	0	48.5
1986	3,260.1	1,516.9	0.0	1,743.2	0.0787%	2,963.7	2,827.7	180.3	(44.3)	0	296.4
1985	3,385.5	1,433.5	0.0	1,952.0	0.0815%	1,957.9	1,569.0	179.2	209.7	0	1,427.6
1984	3,099.5	1,321.5	0.0	1,778.0	0.0800%	1,999.2	1,633.4	151.2	214.6	0	1,100.3
1983	2,628.1	1,214.9	164.0	1,577.2	0.0714%	969.9	675.1	135.7	159.1	0	1,658.2

**INCOME AND EXPENSES, DEPOSIT INSURANCE FUND,
FROM BEGINNING OF OPERATIONS,
SEPTEMBER 11, 1933, THROUGH DECEMBER 31, 2019 (continued)**

Dollars in Millions

Income						Expenses and Losses					
Year	Total	Assessment Income	Assessment Credits	Investment and Other	Effective Assessment Rate ¹	Total	Provision for Ins. Losses	Admin. and Operating Expenses ²	Interest & Other Ins. Expenses	Funding Transfer from the FSLIC Resolution Fund	Net Income/ (Loss)
1982	2,524.6	1,108.9	96.2	1,511.9	0.0769%	999.8	126.4	129.9	743.5	0	1,524.8
1981	2,074.7	1,039.0	117.1	1,152.8	0.0714%	848.1	320.4	127.2	400.5	0	1,226.6
1980	1,310.4	951.9	521.1	879.6	0.0370%	83.6	(38.1)	118.2	3.5	0	1,226.8
1979	1,090.4	881.0	524.6	734.0	0.0333%	93.7	(17.2)	106.8	4.1	0	996.7
1978	952.1	810.1	443.1	585.1	0.0385%	148.9	36.5	103.3	9.1	0	803.2
1977	837.8	731.3	411.9	518.4	0.0370%	113.6	20.8	89.3	3.5	0	724.2
1976	764.9	676.1	379.6	468.4	0.0370%	212.3	28.0	180.4 ⁴	3.9	0	552.6
1975	689.3	641.3	362.4	410.4	0.0357%	97.5	27.6	67.7	2.2	0	591.8
1974	668.1	587.4	285.4	366.1	0.0435%	159.2	97.9	59.2	2.1	0	508.9
1973	561.0	529.4	283.4	315.0	0.0385%	108.2	52.5	54.4	1.3	0	452.8
1972	467.0	468.8	280.3	278.5	0.0333%	65.7	10.1	49.6	6.0 ⁵	0	401.3
1971	415.3	417.2	241.4	239.5	0.0345%	60.3	13.4	46.9	0.0	0	355.0
1970	382.7	369.3	210.0	223.4	0.0357%	46.0	3.8	42.2	0.0	0	336.7
1969	335.8	364.2	220.2	191.8	0.0333%	34.5	1.0	33.5	0.0	0	301.3
1968	295.0	334.5	202.1	162.6	0.0333%	29.1	0.1	29.0	0.0	0	265.9
1967	263.0	303.1	182.4	142.3	0.0333%	27.3	2.9	24.4	0.0	0	235.7
1966	241.0	284.3	172.6	129.3	0.0323%	19.9	0.1	19.8	0.0	0	221.1
1965	214.6	260.5	158.3	112.4	0.0323%	22.9	5.2	17.7	0.0	0	191.7
1964	197.1	238.2	145.2	104.1	0.0323%	18.4	2.9	15.5	0.0	0	178.7
1963	181.9	220.6	136.4	97.7	0.0313%	15.1	0.7	14.4	0.0	0	166.8
1962	161.1	203.4	126.9	84.6	0.0313%	13.8	0.1	13.7	0.0	0	147.3
1961	147.3	188.9	115.5	73.9	0.0323%	14.8	1.6	13.2	0.0	0	132.5
1960	144.6	180.4	100.8	65.0	0.0370%	12.5	0.1	12.4	0.0	0	132.1
1959	136.5	178.2	99.6	57.9	0.0370%	12.1	0.2	11.9	0.0	0	124.4
1958	126.8	166.8	93.0	53.0	0.0370%	11.6	0.0	11.6	0.0	0	115.2
1957	117.3	159.3	90.2	48.2	0.0357%	9.7	0.1	9.6	0.0	0	107.6
1956	111.9	155.5	87.3	43.7	0.0370%	9.4	0.3	9.1	0.0	0	102.5
1955	105.8	151.5	85.4	39.7	0.0370%	9.0	0.3	8.7	0.0	0	96.8
1954	99.7	144.2	81.8	37.3	0.0357%	7.8	0.1	7.7	0.0	0	91.9
1953	94.2	138.7	78.5	34.0	0.0357%	7.3	0.1	7.2	0.0	0	86.9
1952	88.6	131.0	73.7	31.3	0.0370%	7.8	0.8	7.0	0.0	0	80.8
1951	83.5	124.3	70.0	29.2	0.0370%	6.6	0.0	6.6	0.0	0	76.9
1950	84.8	122.9	68.7	30.6	0.0370%	7.8	1.4	6.4	0.0	0	77.0
1949	151.1	122.7	0.0	28.4	0.0833%	6.4	0.3	6.1	0.0	0	144.7
1948	145.6	119.3	0.0	26.3	0.0833%	7.0	0.7	6.3 ⁶	0.0	0	138.6
1947	157.5	114.4	0.0	43.1	0.0833%	9.9	0.1	9.8	0.0	0	147.6
1946	130.7	107.0	0.0	23.7	0.0833%	10.0	0.1	9.9	0.0	0	120.7
1945	121.0	93.7	0.0	27.3	0.0833%	9.4	0.1	9.3	0.0	0	111.6

INCOME AND EXPENSES, DEPOSIT INSURANCE FUND, FROM BEGINNING OF OPERATIONS, SEPTEMBER 11, 1933, THROUGH DECEMBER 31, 2019 (continued)

Dollars in Millions

Income						Expenses and Losses					
Year	Total	Assessment Income	Assessment Credits	Investment and Other	Effective Assessment Rate ¹	Total	Provision for Ins. Losses	Admin. and Operating Expenses ²	Interest & Other Ins. Expenses	Funding Transfer from the FSLIC Resolution Fund	Net Income/ (Loss)
1944	99.3	80.9	0.0	18.4	0.0833%	9.3	0.1	9.2	0.0	0	90.0
1943	86.6	70.0	0.0	16.6	0.0833%	9.8	0.2	9.6	0.0	0	76.8
1942	69.1	56.5	0.0	12.6	0.0833%	10.1	0.5	9.6	0.0	0	59.0
1941	62.0	51.4	0.0	10.6	0.0833%	10.1	0.6	9.5	0.0	0	51.9
1940	55.9	46.2	0.0	9.7	0.0833%	12.9	3.5	9.4	0.0	0	43.0
1939	51.2	40.7	0.0	10.5	0.0833%	16.4	7.2	9.2	0.0	0	34.8
1938	47.7	38.3	0.0	9.4	0.0833%	11.3	2.5	8.8	0.0	0	36.4
1937	48.2	38.8	0.0	9.4	0.0833%	12.2	3.7	8.5	0.0	0	36.0
1936	43.8	35.6	0.0	8.2	0.0833%	10.9	2.6	8.3	0.0	0	32.9
1935	20.8	11.5	0.0	9.3	0.0833%	11.3	2.8	8.5	0.0	0	9.5
1933-34	7.0	0.0	0.0	7.0	N/A	10.0	0.2	9.8	0.0	0	(3.0)

¹ The effective assessment rate is calculated from annual assessment income (net of assessment credits), excluding transfers to the Financing Corporation (FICO), Resolution Funding Corporation (REFCORP) and FSLIC Resolution Fund, divided by the average assessment base. Figures represent only BIF-insured institutions prior to 1990, and BIF- and SAIF-insured institutions from 1990 through 2005. After 1995, all thrift closings became the responsibility of the FDIC and amounts are reflected in the SAIF. Beginning in 2006, figures are for the DIF.

The annualized assessment rate for 2019 is based on full year assessment income divided by a four quarter average of 2019 quarterly assessment base amounts. The assessment base for fourth quarter 2019 was estimated using the third quarter 2019 assessment base and an assumed quarterly growth rate of one percent.

Historical Assessment Rates:

1934 – 1949 The statutory assessment rate was 0.0833 percent.

1950 – 1984 The effective assessment rates varied from the statutory rate of 0.0833 percent due to assessment credits provided in those years.

1985 – 1989 The statutory assessment rate was 0.0833 percent (no credits were given).

1990 The statutory rate increased to 0.12 percent.

1991 – 1992 The statutory rate increased to a minimum of 0.15 percent. The effective rates in 1991 and 1992 varied because the FDIC exercised new authority to increase assessments above the statutory minimum rate when needed.

1993 – 2006 Beginning in 1993, the effective rate was based on a risk-related premium system under which institutions paid assessments in the range of 0.23 percent to 0.31 percent. In May 1995, the BIF reached the mandatory recapitalization level of 1.25 percent. As a result, BIF assessment rates were reduced to a range of 0.04 percent to 0.31 percent of assessable deposits, effective June 1995, and assessments totaling \$1.5 billion were refunded in September 1995. Assessment rates for the BIF were lowered again to a range of 0 to 0.27 percent of assessable deposits, effective the start

of 1996. In 1996, the SAIF collected a one-time special assessment of \$4.5 billion. Subsequently, assessment rates for the SAIF were lowered to the same range as the BIF, effective October 1996. This range of rates remained unchanged for both funds through 2006.

2007 – 2008 As part of the implementation of the Federal Deposit Insurance Reform Act of 2005, assessment rates were increased to a range of 0.05 percent to 0.43 percent of assessable deposits effective at the start of 2007, but many institutions received a one-time assessment credit (\$4.7 billion in total) to offset the new assessments.

2009 – 2011 For the first quarter of 2009, assessment rates were increased to a range of 0.12 percent to 0.50 percent of assessable deposits. On June 30, 2009, a special assessment was imposed on all insured banks and thrifts, which amounted in aggregate to approximately \$5.4 billion. For 8,106 institutions, with \$9.3 trillion in assets, the special assessment was 5 basis points of each insured institution's assets minus tier one capital; 89 other institutions, with assets of \$4.0 trillion, had their special assessment capped at 10 basis points of their second quarter assessment base. From the second quarter of 2009 through the first quarter of 2011, initial assessment rates ranged between 0.12 percent and 0.45 percent of assessable deposits. Initial rates were subject to further adjustments.

- 2011 – 2016 Beginning in the second quarter of 2011, the assessment base changed to average total consolidated assets less average tangible equity (with certain adjustments for banker's banks and custodial banks), as required by the Dodd-Frank Act. The FDIC implemented a new assessment rate schedule at the same time to conform to the larger assessment base. Initial assessment rates were lowered to a range of 0.05 percent to 0.35 percent of the new base. The annualized assessment rates averaged approximately 17.6 cents per \$100 of assessable deposits for the first quarter of 2011 and 11.1 cents per \$100 of the new base for the last three quarters of 2011 (which is shown in the table).
- 2016 Beginning July 1, 2016, initial assessment rates were lowered from a range of 5 basis points to 35 basis points to a range of 3 basis points to 30 basis points, and an additional surcharge was imposed on large banks (generally institutions with \$10 billion or more in assets) of 4.5 basis points of their assessment base (after making adjustments).
- 2018 The 4.5 basis point surcharge imposed on large banks ended effective October 1, 2018. The annualized assessment rates averaged approximately 7.2 cents per \$100 of the assessable base for the first three quarters of 2018 and 3.5 cents per \$100 of the assessment base for the last quarter of 2018. The full year annualized assessment rate averaged 6.3 cents per \$100 (which is shown in the table).
- 2019 Assessment income for 2019 included the application of small bank credits in the second, third, and fourth quarters, for a total of \$704 million.

² These expenses, which are presented as operating expenses in the Statement of Income and Fund Balance, pertain to the FDIC in its corporate capacity only and do not include costs that are charged to the failed bank receiverships that are managed by the FDIC. The receivership expenses are presented as part of the "Receivables from Resolutions, net" line on the Balance Sheet. The narrative and graph presented on page 87 of this report shows the aggregate (corporate and receivership) expenditures of the FDIC.

³ Includes \$210 million for the cumulative effect of an accounting change for certain postretirement benefits (1992).

⁴ Includes a \$106 million net loss on government securities (1976).

⁵ This amount represents interest and other insurance expenses from 1933 to 1972.

⁶ Includes the aggregate amount of \$81 million of interest paid on capital stock between 1933 and 1948.

FDIC INSURED INSTITUTIONS CLOSED DURING 2019

Dollars in Thousands

Codes for Bank Class

NM = State-chartered bank that is not a member of the Federal Reserve System
N = National Bank

SB = Savings bank
SI = Stock and Mutual Savings Bank

SM = State-chartered bank that is a member of the Federal Reserve System
SA = Savings Association

Name and Location	Bank Class	Number of Deposit Accounts	Total Assets ¹	Total Deposits ¹	Insured Deposit Funding and Other Disbursements	Estimated Loss to the DIF ²	Date of Closing or Acquisition	Receiver/Assuming Bank and Location
Purchase and Assumption - All Deposits								
Louisa Community Bank Louisa, KY	NM	1,584	\$28,163	\$25,174	\$24,673	\$4,547	10/25/19	Kentucky Farmers Bank Corporation Catlettsburg, KY
Resolute Bank Maumee, OH	SM	739	\$23,292	\$22,885	\$21,227	\$2,188	10/25/19	Buckeye State Bank Powell, OH
City National Bank of New Jersey Newark, NJ	N	10,312	\$120,574	\$111,234	\$110,647	\$2,491	11/01/19	Industrial Bank Washington, DC
Insured Deposit Transfer								
Enloe State Bank Cooper, TX	NM	1,363	\$36,738	\$31,254	\$31,094	\$21,577	05/31/19	Legend Bank, N.A. Bowie, TX

¹ Total Assets and Total Deposits data are based upon the last Call Report filed by the institution prior to failure.

² Estimated losses are as of December 31, 2019. Estimated losses are routinely adjusted with updated information from new appraisals and asset sales, which ultimately affect the asset values and projected recoveries. Represents the estimated loss to the DIF from deposit insurance obligations.

RECOVERIES AND LOSSES BY THE DEPOSIT INSURANCE FUND ON DISBURSEMENTS FOR THE PROTECTION OF DEPOSITORS, 1934 - 2019

Dollars in Thousands

Bank and Thrift Failures¹

Year²	Number of Banks/ Thrifts	Total Assets³	Total Deposits³	Funding⁴	Final and Estimated Losses⁵
	2,627	\$946,852,179	\$713,129,053	\$582,048,662	\$104,976,605
2019	4	208,767	\$190,547	187,641	30,803
2018	0	0	0	0	0
2017	8	5,081,737	4,683,360	4,596,003	1,163,650
2016	5	277,182	268,516	262,243	42,464
2015	8	6,706,038	4,574,170	4,565,684	851,681
2014	18	2,913,503	2,691,485	2,684,528	394,526
2013	24	6,044,051	5,132,246	5,022,368	1,217,721
2012	51	11,617,348	11,009,630	11,042,913	2,411,932
2011	92	34,922,997	31,071,862	30,717,287	6,433,638
2010 ⁷	157	92,084,988	78,290,185	82,305,089	15,874,775
2009 ⁷	140	169,709,160	137,835,121	136,081,390	25,988,291
2008 ⁷	25	371,945,480	234,321,715	205,833,992	17,862,077
2007	3	2,614,928	2,424,187	1,920,200	158,534
2006	0	0	0	0	0
2005	0	0	0	0	0
2004	4	170,099	156,733	139,244	3,917
2003	3	947,317	901,978	883,772	62,647
2002	11	2,872,720	2,512,834	1,567,805	413,989
2001	4	1,821,760	1,661,214	21,131	292,465
2000	7	410,160	342,584	297,313	32,138
1999	8	1,592,189	1,320,573	1,308,316	586,027
1998	3	290,238	260,675	293,117	221,606
1997	1	27,923	27,511	25,546	5,026
1996	6	232,634	230,390	201,533	60,615
1995	6	802,124	776,387	609,043	84,472
1994	13	1,463,874	1,397,018	1,224,769	179,051
1993	41	3,828,939	3,509,341	3,841,658	632,646
1992	120	45,357,237	39,921,310	14,541,476	3,674,149
1991	124	64,556,512	52,972,034	21,501,772	6,001,595
1990	168	16,923,462	15,124,454	10,812,484	2,771,489
1989	206	28,930,572	24,152,468	11,443,281	6,195,286
1988	200	38,402,475	26,524,014	10,432,655	5,377,497
1987	184	6,928,889	6,599,180	4,876,994	1,862,492
1986	138	7,356,544	6,638,903	4,632,121	1,682,538
1985	116	3,090,897	2,889,801	2,154,955	648,179
1984	78	2,962,179	2,665,797	2,165,036	523,879
1983	44	3,580,132	2,832,184	3,042,392	1,069,355
1982	32	1,213,316	1,056,483	545,612	125,787
1981	7	108,749	100,154	114,944	8,988
1980	10	239,316	219,890	152,355	30,680
1934 - 1979	558	8,615,743	5,842,119	5,133,173	380,878

RECOVERIES AND LOSSES BY THE DEPOSIT INSURANCE FUND ON DISBURSEMENTS FOR THE PROTECTION OF DEPOSITORS, 1934 - 2019 (continued)

Dollars in Thousands

Assistance Transactions¹

Year²	Number of Banks/ Thrifts	Total Assets³	Total Deposits³	Funding⁴	Recoveries⁵	Estimated Additional Recoveries	Final and Estimated Losses⁶
	154	\$3,317,099,253	\$1,442,173,417	\$11,630,356	\$6,199,875	\$0	\$5,430,481
2019	0	0	0	0	0	0	0
2018	0	0	0	0	0	0	0
2017	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0
2009 ⁸	8	1,917,482,183	1,090,318,282	0	0	0	0
2008 ⁸	5	1,306,041,994	280,806,966	0	0	0	0
2007	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0
1992	2	33,831	33,117	1,486	1,236	0	250
1991	3	78,524	75,720	6,117	3,093	0	3,024
1990	1	14,206	14,628	4,935	2,597	0	2,338
1989	1	4,438	6,396	2,548	252	0	2,296
1988	80	15,493,939	11,793,702	1,730,351	189,709	0	1,540,642
1987	19	2,478,124	2,275,642	160,877	713	0	160,164

**RECOVERIES AND LOSSES BY THE DEPOSIT INSURANCE FUND ON
DISBURSEMENTS FOR THE PROTECTION OF DEPOSITORS, 1934 - 2019 (continued)**
Dollars in Thousands

Assistance Transactions¹ (continued)

Year²	Number of Banks/ Thrifts	Total Assets³	Total Deposits³	Funding⁴	Recoveries⁵	Estimated Additional Recoveries	Final and Estimated Losses⁶
1986	7	712,558	585,248	158,848	65,669	0	93,179
1985	4	5,886,381	5,580,359	765,732	406,676	0	359,056
1984	2	40,470,332	29,088,247	5,531,179	4,414,904	0	1,116,275
1983	4	3,611,549	3,011,406	764,690	427,007	0	337,683
1982	10	10,509,286	9,118,382	1,729,538	686,754	0	1,042,784
1981	3	4,838,612	3,914,268	774,055	1,265	0	772,790
1980	1	7,953,042	5,001,755	0	0	0	0
1934-1979	4	1,490,254	549,299	0	0	0	0

¹ Institutions for which the FDIC is appointed receiver, including deposit payoff, insured deposit transfer, and deposit assumption cases.

² For 1990 through 2005, amounts represent the sum of BIF and SAIF failures (excluding those handled by the RTC); prior to 1990, figures are only for the BIF. After 1995, all thrift closings became the responsibility of the FDIC and amounts are reflected in the SAIF. For 2006 to 2019, figures are for the DIF.

³ Assets and deposit data are based on the last Call Report or TFR filed before failure.

⁴ Funding represents the amounts provided by the DIF to receiverships for subrogated claims, advances for working capital, and administrative expenses paid on their behalf. Between 2008 and 2013, the DIF resolved failures using whole-bank purchase and assumption transactions, most with an accompanying shared-loss agreement (SLA). The DIF satisfies any resulting liabilities by offsetting receivables from resolutions when receiverships declare a dividend and/or sending cash directly to receiverships to fund an SLA and other expenses.

⁵ Recoveries represent cash received and dividends (cash and non-cash) declared by receiverships.

⁶ Final losses represent actual losses for unreimbursed subrogated claims of inactivated receiverships. Estimated losses generally represent the difference between the amount paid by the DIF to cover obligations to insured depositors and the estimated recoveries from the liquidation of receivership assets.

⁷ Includes amounts related to transaction account coverage under the Transaction Account Guarantee Program (TAG). The estimated losses as of December 31, 2019, for TAG accounts in 2010, 2009, and 2008 are \$363 million, \$1.1 billion, and \$12 million, respectively.

⁸ Includes institutions where assistance was provided under a systemic risk determination.

**NUMBER, ASSETS, DEPOSITS, LOSSES, AND LOSS TO FUNDS OF INSURED
THRIFTS TAKEN OVER OR CLOSED BECAUSE OF FINANCIAL DIFFICULTIES,
1989 THROUGH 1995¹**

Dollars in Thousands

Year	Number of Institutions	Assets	Deposits	Final Receivership Loss ²	Loss to Fund ³
Total	748	\$393,986,574	\$318,328,770	\$75,977,846	\$81,579,496
1995	2	423,819	414,692	28,192	27,750
1994	2	136,815	127,508	11,472	14,599
1993	10	6,147,962	5,708,253	267,595	65,212
1992	59	44,196,946	34,773,224	3,286,908	3,832,145
1991	144	78,898,904	65,173,122	9,235,967	9,734,263
1990	213	129,662,498	98,963,962	16,062,685	19,257,578
1989 ⁴	318	134,519,630	113,168,009	47,085,027	48,647,949

¹ Beginning in 1989 through July 1, 1995, all thrift closings were the responsibility of the Resolution Trust Corporation (RTC). Since the RTC was terminated on December 31, 1995, and all assets and liabilities transferred to the FSLIC Resolution Fund (FRF), all the results of the thrift closing activity from 1989 through 1995 are now reflected on the FRF's books. Year is the year of failure, not the year of resolution.

² The Final Receivership Loss represents the loss at the fund level from receiverships for unreimbursed subrogated claims of the FRF-RTC and unpaid advances to receiverships from the FRF-RTC.

³ The Loss to Fund represents the total resolution cost of the failed thrifts in the FRF-RTC fund. In addition to the receivership losses, this includes corporate revenue and expense items such as interest expense on Federal Financing Bank debt, interest expense on escrowed funds, administrative expenses, and interest revenue on advances to receiverships.

⁴ Total for 1989 excludes nine failures of the former FSLIC.

B. MORE ABOUT THE FDIC

FDIC Board of Directors



***Seated:** Jelena McWilliams*

***Standing** (left to right) Joseph M. Otting, Martin J. Gruenberg, and Kathleen L. Kraninger*

Jelena McWilliams

Jelena McWilliams was sworn in as the 21st Chairman of the FDIC on June 5, 2018. She serves a six-year term on the FDIC Board of Directors, and is designated as Chairman for a term of five years.

Ms. McWilliams was Executive Vice President, Chief Legal Officer, and Corporate Secretary for Fifth Third Bank in Cincinnati, Ohio. At Fifth Third Bank she served as a member of the executive management team and numerous bank committees including: Management

Compliance, Enterprise Risk, Risk and Compliance, Operational Risk, Enterprise Marketing, and Regulatory Change.

Prior to joining Fifth Third Bank, Ms. McWilliams worked in the U.S. Senate for six years, most recently as Chief Counsel and Deputy Staff Director with the Senate Committee on Banking, Housing and Urban Affairs, and previously as Assistant Chief Counsel with the Senate Small Business and Entrepreneurship Committee.

From 2007 to 2010, Ms. McWilliams served as an attorney at the Federal Reserve Board of Governors, where she drafted consumer protection regulations, reviewed and analyzed comment letters on regulatory proposals, and responded to consumer complaints.

Before entering public service, she practiced corporate and securities law at Morrison & Foerster LLP in Palo Alto, California, and Hogan & Hartson LLP (now Hogan Lovells LLP) in Washington, D.C. In legal practice, Ms. McWilliams advised management and boards of directors on corporate governance, compliance, and reporting requirements under the Securities Act of 1933 and the Securities Exchange Act of 1934. She also represented publicly- and privately-held companies in mergers and acquisitions, securities offerings, strategic business ventures, venture capital investments, and general corporate matters.

Ms. McWilliams graduated with highest honors from the University of California at Berkeley with a B.S. in political science, and earned her law degree from U.C. Berkeley School of Law.

Martin J. Gruenberg

Martin J. Gruenberg is the 20th Chairman of the FDIC, receiving Senate confirmation on November 15, 2012, for a five-year term. Mr. Gruenberg served as Vice Chairman and Member of the FDIC Board of Directors from August 22, 2005, until his confirmation as Chairman. He served as Acting Chairman from July 9, 2011, to November 15, 2012, and also from November 16, 2005, to June 26, 2006.

Mr. Gruenberg joined the FDIC Board after broad congressional experience in the financial services and regulatory areas. He served as Senior Counsel to Senator Paul S. Sarbanes (D-MD) on the staff of the Senate Committee on Banking, Housing, and Urban Affairs from 1993 to 2005. Mr. Gruenberg advised the Senator on issues of domestic and international financial regulation, monetary policy, and trade. He also served as Staff Director of the Banking Committee's Subcommittee on International Finance and Monetary Policy from 1987 to 1992. Major legislation in which Mr. Gruenberg played an active role during his service on the Committee includes the Financial Institutions Reform, Recovery,

and Enforcement Act of 1989 (FIRREA); the Federal Deposit Insurance Corporation Improvement Act of 1991 (FDICIA); the Gramm-Leach-Bliley Act; and the Sarbanes-Oxley Act of 2002.

Mr. Gruenberg served as Chairman of the Executive Council and President of the International Association of Deposit Insurers (IADI) from November 2007 to November 2012. In addition, Mr. Gruenberg has served as Chairman of the Board of Directors of the Neighborhood Reinvestment Corporation (NeighborWorks America) since June 2019, and a member of the Board since April 2018.

Mr. Gruenberg holds a J.D. from Case Western Reserve Law School and an A.B. from Princeton University, Woodrow Wilson School of Public and International Affairs.

Kathleen L. Kraninger

Kathy Kraninger became Director of the Consumer Financial Protection Bureau (CFPB) in December, 2018. From her early days as a Peace Corps volunteer, to her role establishing the Department of Homeland Security (DHS), to her policy work at the Office of Management and Budget (OMB) to the CFPB, Director Kraninger has dedicated her career to public service.

Director Kraninger came to the CFPB from OMB, where as a Policy Associate Director she oversaw the budgets for executive branch agencies including the Departments of Commerce, Justice, DHS, Housing and Urban Development, Department of Transportation (DOT), and the Department of Treasury, in addition to 30 other government agencies.

Previously she worked in the U.S. Senate, where she was the Clerk for the Senate Appropriations Subcommittee on Homeland Security, which provides DHS with its \$40 billion discretionary budget. On Capitol Hill, she also worked for the House Appropriations Subcommittee on Homeland Security as well as the Senate Homeland Security and Governmental Affairs Committee.

Ms. Kraninger also served in executive branch posts with DOT. There, after the terrorist attacks on September 11, 2001, she volunteered to join the leadership team that set up the newly created DHS.

Her work at DHS led to awards including the Secretary of Homeland Security's Award of Exceptional Service, the International Police and Public Safety 9/11 Medal, and the Meritorious Public Service Award from the United States Coast Guard.

Ms. Kraninger graduated magna cum laude from Marquette University and earned a law degree from Georgetown University Law Center. She served as a U.S. Peace Corps Volunteer in Ukraine.

Joseph M. Otting

Joseph M. Otting was sworn in as the 31st Comptroller of the Currency on November 27, 2017.

The Comptroller of the Currency is the administrator of the federal banking system and chief officer of the Office of the Comptroller of the Currency (OCC). The OCC supervises nearly 1,400 national banks, federal savings associations, and federal branches and agencies of foreign banks operating in the United States. The mission of the OCC is to ensure that national banks and federal savings associations operate in a safe and sound manner, provide fair access to financial services, treat customers fairly, and comply with applicable laws and regulations.

The Comptroller also serves as a director of the Federal Deposit Insurance Corporation and member of the Financial Stability Oversight Council and the Federal Financial Institutions Examination Council.

Prior to becoming Comptroller of the Currency, Mr. Otting was an executive in the banking industry. He served as President of CIT Bank and Co-President of CIT Group.

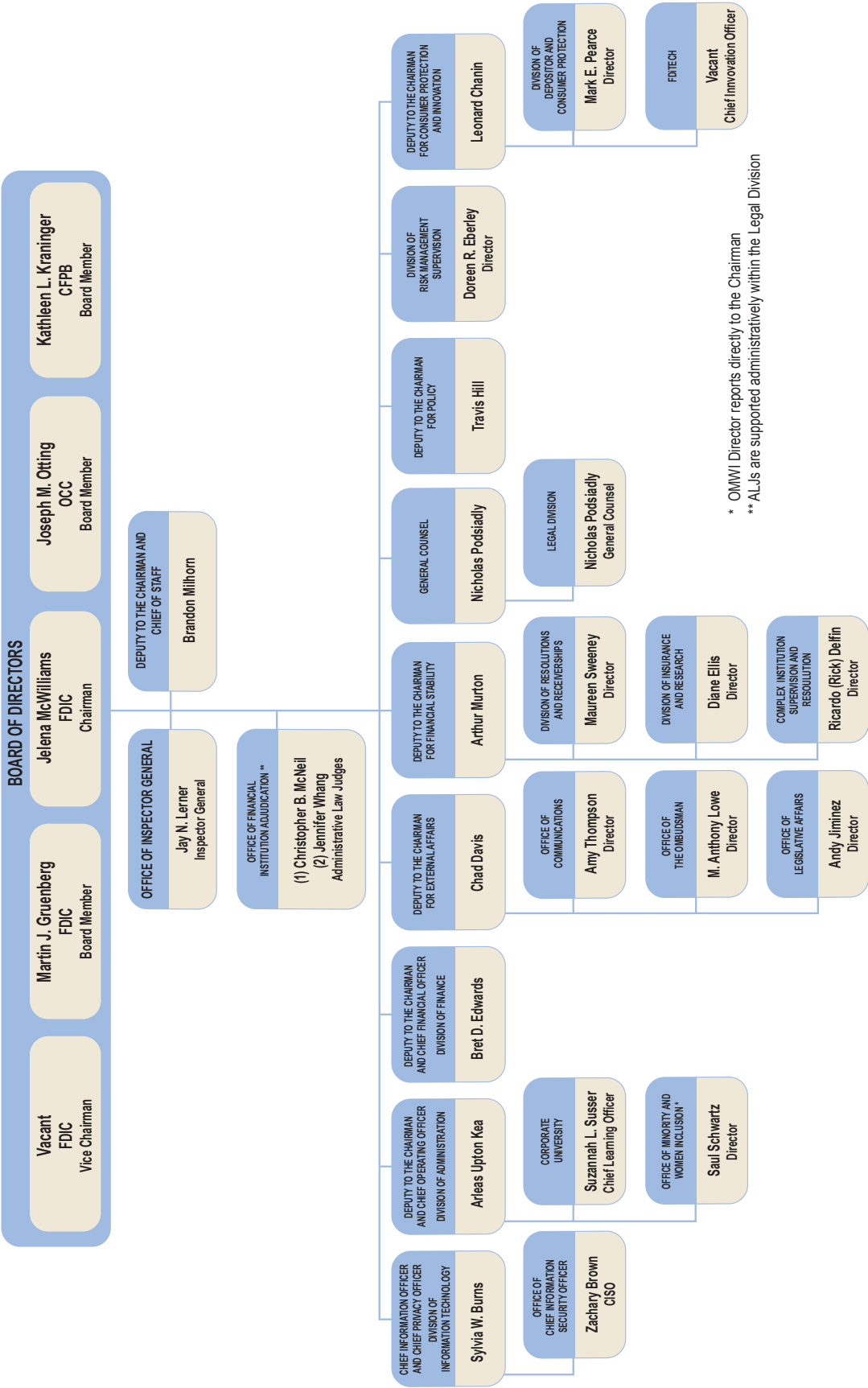
Mr. Otting previously was President, Chief Executive Officer, and a member of the Board of Directors of OneWest Bank, N.A. Prior to joining OneWest Bank, he served as Vice Chairman of U.S. Bancorp, where he managed the Commercial Banking Group and served on the Bancorp's executive management committee. He also served as a member of U.S. Bank's main subsidiary banks' Board of Directors.

From 1986 to 2001, Mr. Otting was with Union Bank of California, where he was Executive Vice President and Group Head of Commercial Banking. Before joining Union Bank, he was with Bank of America and held positions in branch management, preferred banking, and commercial lending.

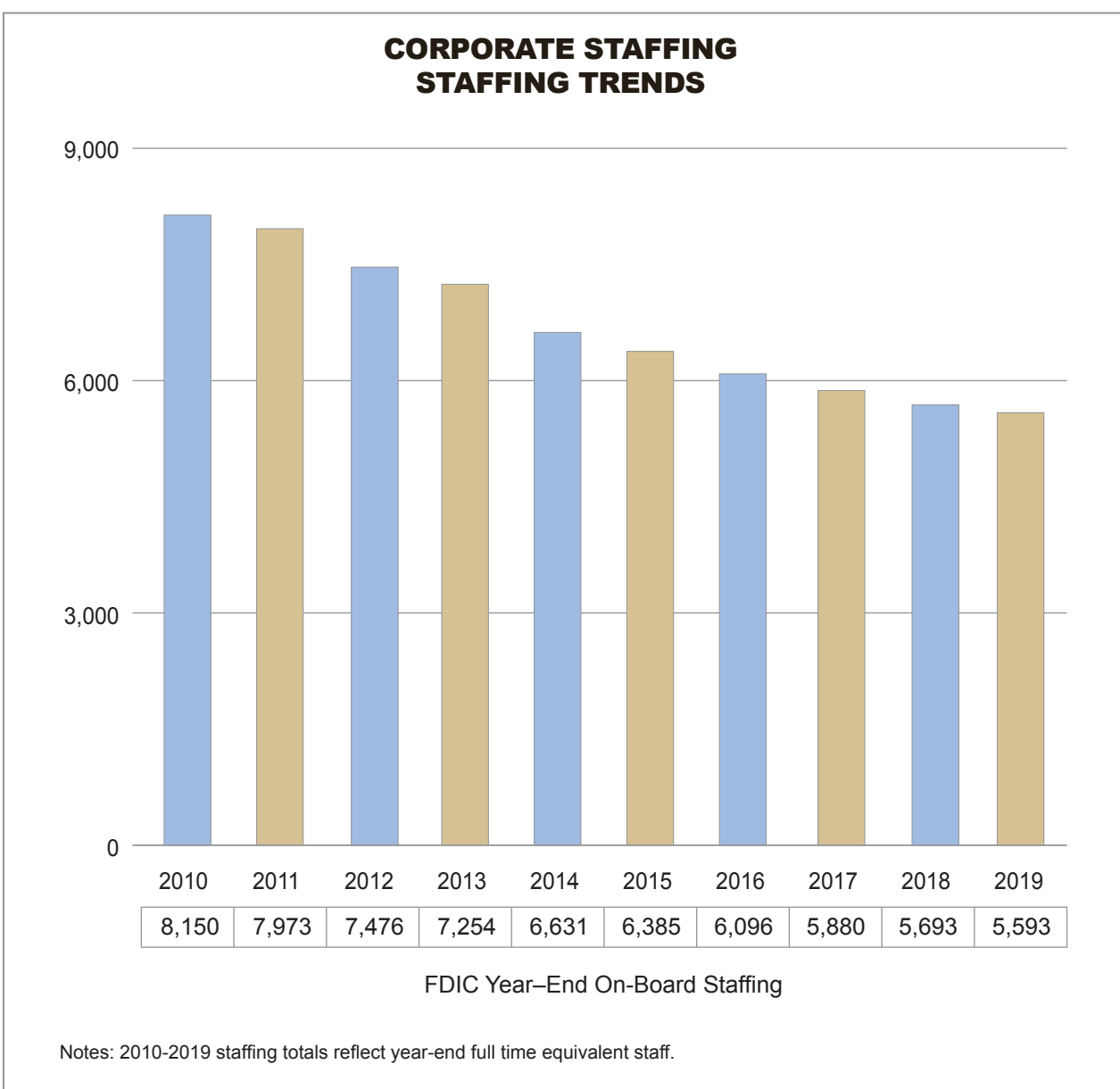
Mr. Otting has played significant roles in charitable and community development organizations. He has served as a board member for the California Chamber of Commerce, the Killebrew-Thompson Memorial foundation, the Associated Oregon Industries, the Oregon Business Council, the Portland Business Alliance, the Minnesota Chamber of Commerce, and Blue Cross Blue Shield of Oregon. He was also a member of the Financial Services Roundtable, the Los Angeles Chamber of Commerce, and the Board and Executive Committee of the Los Angeles Economic Development Corporation.

Mr. Otting holds a bachelor of arts in management from the University of Northern Iowa and is a graduate of the School of Credit and Financial Management, which was held at Dartmouth College in Hanover, New Hampshire.

FDIC ORGANIZATION CHART/OFFICIALS



* OMWI Director reports directly to the Chairman
 ** ALJs are supported administratively within the Legal Division



NUMBER OF EMPLOYEES BY DIVISION/OFFICE (YEAR-END)¹

Division or Office:	Total		Washington		Regional	
	2019	2018	2019	2018	2019	2018
Division of Risk Management Supervision	2,318	2,499	174	207	2,145	2,293
Division of Depositor and Consumer Protection	794	816	123	122	671	694
Legal Division	440	474	298	314	142	160
Division of Administration	353	353	247	246	106	108
Division of Resolutions and Receiverships	323	387	89	119	234	268
Division of Complex Institution Supervision and Resolution ²	243	62	113	49	130	13
Division of Information Technology	237	280	173	216	64	64
Corporate University	217	204	210	197	7	7
Division of Insurance and Research	204	204	166	168	38	36
Division of Finance	156	164	152	160	4	4
Executive Support Offices ³	110	67	103	60	7	7
Office of the Chief Information Security Officer	41	37	41	37	0	0
Executive Offices ⁴	30	20	30	20	0	0
Office of Inspector General	128	126	78	80	50	46
TOTAL	5,593	5,693	1,995	1,994	3,598	3,699

¹ The FDIC reports staffing totals using a full-time equivalent methodology, which is based on an employee's scheduled work hours. Division/Office staffing has been rounded to the nearest whole FTE. Totals may not foot due to rounding.

² In 2019, the Office of Complex Financial Institution merged with parts of Risk Management Supervision and Division of Resolutions and Receivership to create this new Division.

³ Includes the Offices of the Legislative Affairs, Communications, Ombudsman, CIO Management Services, FDI Tech, Financial Adjudication and Minority and Women Inclusion.

⁴ Includes the Offices of the Chairman, Vice Chairman, Director (Appointive), Chief Operating Officer, Chief Financial Officer, Chief Information Officer, Consumer Protection and Innovation, External Affairs, Policy and Financial Stability.

SOURCES OF INFORMATION

FDIC Website

www.fdic.gov

A wide range of banking, consumer, and financial information is available on the FDIC's website. This includes the FDIC's Electronic Deposit Insurance Estimator (EDIE), which estimates an individual's deposit insurance coverage; the Institution Directory, which contains financial profiles of FDIC-insured institutions; Community Reinvestment Act evaluations and ratings for institutions supervised by the FDIC; Call Reports, which are bank reports of condition and income; and *Money Smart*, a training program to help individuals outside the financial mainstream enhance their money management skills and create positive banking relationships. Readers also can access a variety of consumer pamphlets, FDIC press releases, speeches, and other updates on the agency's activities, as well as corporate databases and customized reports of FDIC and banking industry information.

FDIC Call Center

Phone: 877-275-3342 (877-ASK-FDIC)
703-562-2222

Hearing Impaired: 800-925-4618
703-562-2289

The FDIC Call Center in Washington, DC, is the primary telephone point of contact for general questions from the banking community, the public, and FDIC employees. The Call Center directly, or with other FDIC subject-matter experts, responds to questions about deposit insurance and other consumer issues and concerns, as well as questions about FDIC programs and activities. The Call Center also refers callers to other federal and state agencies as needed. Hours of operation are 8:00 a.m. to 8:00 p.m., Eastern Time, Monday – Friday, and 9:00 a.m. to 5:00 p.m., Saturday – Sunday. Recorded information about deposit insurance and other topics is available 24 hours a day at the same telephone number.

As a customer service, the FDIC Call Center has many bilingual Spanish agents on staff and has access to a translation service, which is able to assist with over 40 different languages.

Public Information Center

3501 Fairfax Drive
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Arlington, VA 22226

Phone: 877-275-3342 (877-ASK-FDIC),
703-562-2200

Fax: 703-562-2296

FDIC Online Catalog: <https://catalog.fdic.gov>

E-mail: publicinfo@fdic.gov

Publications such as *FDIC Quarterly* and *Consumer News* and a variety of deposit insurance and consumer pamphlets are available at www.fdic.gov or may be ordered in hard copy through the FDIC online catalog. Other information, press releases, speeches and congressional testimony, directives to financial institutions, policy manuals, and FDIC documents are available on request through the Public Information Center. Hours of operation are 9:00 a.m. to 4:00 p.m., Eastern Time, Monday – Friday.

Office of the Ombudsman

3501 Fairfax Drive
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Arlington, VA 22226

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Fax: 703-562-6057

E-mail: ombudsman@fdic.gov

The Office of the Ombudsman (OO) is an independent, neutral, and confidential resource and liaison for the banking industry and the general public. The OO responds to inquiries about the FDIC in a fair, impartial, and timely manner. It researches questions and fields complaints from bankers and bank customers. OO representatives are present at all bank closings to provide accurate information to bank customers, the media, bank employees, and the general public. The OO also recommends ways to improve FDIC operations, regulations, and customer service.

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Arizona
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Guam
Hawaii
Idaho
Montana
Nevada
Oregon
Utah
Washington
Wyoming

C. OFFICE OF INSPECTOR GENERAL'S ASSESSMENT OF THE MANAGEMENT AND PERFORMANCE CHALLENGES FACING THE FDIC



Top Management and Performance Challenges Facing the Federal Deposit Insurance Corporation

February 2020

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Federal Deposit Insurance Corporation
Office of Inspector General

OFFICE OF INSPECTOR GENERAL'S ASSESSMENT (continued)

INTRODUCTION

Each year, Federal Inspectors General are required to identify and report on the top challenges facing their respective agencies, pursuant to the Reports Consolidation Act of 2000. The Office of Inspector General (OIG) is therefore issuing this report, which identifies the Top Management and Performance Challenges (TMPC) facing the Federal Deposit Insurance Corporation (FDIC).

This TMPC report is based upon the OIG's experience and observations from our oversight work, reports by other oversight bodies, review of academic and other relevant literature, perspectives from Government agencies and officials, and information from private-sector entities. We considered this body of information in light of the current operating environment and circumstances and our independent judgment.

The FDIC faces Challenges in the following critical areas, a number of which remain from previous years:

- Keeping Pace with Emerging Financial Technologies;
- Enhancing the FDIC's Information Technology Security Program;
- Ensuring the FDIC's Readiness for Crises;
- Sharing Threat Information with Banks and Examiners;
- Strengthening the Governance of the FDIC;
- Overseeing Human Resources;
- Keeping FDIC Facilities, Information, and Personnel Safe and Secure;
- Administering the Acquisition Process; and
- Measuring Costs and Benefits of FDIC Regulations.

We believe that the FDIC should focus its attention on these Challenges, and we hope that this document informs policy makers, including the FDIC and Congressional oversight bodies, and the American public about the programs and operations at the FDIC and the Challenges it faces.

OFFICE OF INSPECTOR GENERAL'S ASSESSMENT (continued)

1 | KEEPING PACE WITH EMERGING FINANCIAL TECHNOLOGIES

Technology is re-shaping consumers' interactions with banks, changing the way banks do business, and disrupting the banking industry. Emerging technologies promise potential benefits but also introduce risk. Increased digital interconnections with multiple avenues to access banking systems elevate cybersecurity risk because an incident at one digital juncture has the potential to infect the entire banking system. The FDIC's challenge is keeping pace with new technology and the associated risks to banks, third-party service providers, and the banking system. The key is for the FDIC to align supervisory guidance, examination procedures, and supervisory strategies with rapidly evolving risks.

Use of financial technology is having a significant impact on banks and the banking industry. Global investment in financial technologies was \$37.9 billion in the first half of 2019.¹ More than half of all consumers are interacting with banks through digital means.² Person-to-person cashless transactions totaled more than \$570 billion in 2018.³ Consumers also prefer connectivity among financial management applications and their bank accounts.⁴

The FDIC Chairman has recognized that technology is “not simply transforming how customers access financial services; it is transforming the business of banking both in the way consumers interact with their financial institutions, and the way banks do business.”⁵ Banks are incorporating new technologies into bank processes and establishing partnerships with third-party financial technology companies.⁶ Community banks, in particular, are working closely with technology companies to develop solutions, such as reducing the time for loan underwriting and digital credit applications.⁷

Financial technologies offer banks potential benefits but also introduce a range of risks. According to the Financial Stability Oversight Council (FSOC),⁸ “[c]yber vulnerabilities in the financial system include vulnerabilities to malware attacks, ransomware attacks, denial of service attacks, data breaches, and other events. Such incidents have the potential to impact tens or even hundreds of millions of Americans and result in financial losses of billions of dollars due to disruption of operations, theft, and recovery costs.”⁹

The FDIC Chairman stated that “[c]ybersecurity is the biggest threat facing America’s banks.”¹⁰ The Office of the Comptroller of the Currency (OCC) similarly observed that “[o]perational risk is elevated as banks adapt to a changing and increasingly complex operating environment,” and key drivers are “the need to adapt and evolve current technology systems for ongoing

¹ KPMG, *The Pulse of Fintech 2019 – Biannual Global Analysis of Investment in Fintech*, (July 31, 2019).

² American Banker, *10 ways technology will change banking in 2019*, (January 6, 2019).

³ Forbes, *Venmo Versus Zelle: Who’s Winning the P2P Payments War?*, (February 11, 2019).

⁴ American Banker, *10 ways technology will change banking in 2019*, (January 6, 2019).

⁵ Jelena McWilliams, FDIC Chairman, Remarks at the CATO Summit on Financial Regulation, *“If You Build It, They Will Come,”* (June 12, 2019).

⁶ American Banker, *10 ways technology will change banking in 2019*, (January 6, 2019).

⁷ Bankrate, *Community Banks Step Up Tech to Compete with Big Banks, Benefitting Customers*, (May 31, 2019).

⁸ The Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010 established FSOC, which has responsibility for identifying risks and responding to emerging threats to financial stability. FSOC brings together the expertise of Federal financial regulators (including the FDIC), an independent insurance expert, and state regulators.

⁹ FSOC, 2019 Annual Report.

¹⁰ CNN Business, *Banks could get fined for cyber breaches, top regulator says*, (August 1, 2019).

OFFICE OF INSPECTOR GENERAL'S ASSESSMENT (continued)

cybersecurity threats.”¹¹ According to reports from the Department of the Treasury’s Financial Crimes Enforcement Network (FinCEN), financial institutions reported 3,494 cyberattacks during the first half of 2019.¹² Small banks (less than \$1 billion in assets) were the victims of nearly half (47 percent) of bank-related cybercrimes between 2012 and 2017.¹³

In the Fall of 2019, the OCC recognized elevated cybersecurity risks as “malicious actors target not only bank staff and processes but also bank customers and third parties.”¹⁴ According to *Banking Technology Vision 2019* by the consulting firm Accenture, as interconnectivity among banks, consumers, and third parties grows, “the potential points of weakness and vulnerability also multiply.”¹⁵ Hackers need only a single weakness to exploit and penetrate systems.¹⁶

Banks’ use of advanced technology may also increase the risks of harm to consumers. For example, the OCC noted that banks’ deployment of new technology may result in fair lending issues.¹⁷ When banks use artificial intelligence, they often use algorithm models and rules that rely upon historical data.¹⁸ If model rules are outdated or the data used in the algorithm models are not representative of the current customer population, selection bias may occur.¹⁹

Banks also face competitive risks from technology innovations of non-bank entities. The OCC further noted that “[b]anks face strategic risks from non-depository financial institutions, use of innovative and evolving technology, and progressive data analysis capabilities.”²⁰ According to the *Global Payments Pulse Survey 2019* conducted by Accenture, approximately \$280 billion of banks’ global payment revenue is likely to be displaced by non-bank competitors in the next 6 years.²¹

Further, according to the Basel Committee on Banking Supervision, “[t]he estimated market capitalization of crypto-assets reached a historical peak exceeding \$800 billion in January 2018.”²² Non-bank entities such as Facebook²³ and Walmart²⁴ have announced plans to introduce cryptocurrencies. These privately controlled cryptocurrencies fall outside traditional

¹¹ OCC, *Semiannual Risk Perspective*, (Fall 2019).

¹² New York Times, *Capital One Breach Shows a Bank Hacker Needs Just One Gap to Wreak Havoc*, (July 30, 2019).

¹³ Forbes, *5 Cybersecurity Myths Banks Should Stop Believing*, (April 8, 2019).

¹⁴ OCC, *Semiannual Risk Perspective*, (Fall 2019).

¹⁵ Accenture, *The Dawn of Banking in the Post-Digital Era – Banking Technology Vision 2019*, (May 7, 2019).

¹⁶ New York Times, *Capital One Breach Shows How a Bank Hacker Needs Just One Gap to Wreak Havoc*, (July 30, 2019).

¹⁷ OCC, *Semiannual Risk Perspective*, (Fall 2019).

¹⁸ American Banker, *Don’t let AI trigger a fair-lending violation*, (August 6, 2019).

¹⁹ American Banker, *Don’t let AI trigger a fair-lending violation*, (August 6, 2019).

²⁰ OCC, *Semiannual Risk Perspective*, (Fall 2019).

²¹ Accenture, *Global Payment Pulse Survey 2019*.

²² Basel Committee on Banking Supervision, *Discussion Paper: Designing a Prudential Treatment for Crypto-assets*, (December 2019).

²³ Washington Post, *Why governments around the world are afraid of Libra, Facebook’s cryptocurrency*, (July 12, 2019).

²⁴ American Banker, *Walmart crypto coin patent could be a back door to banking*, (August 2, 2019). One bank, JP Morgan Chase, plans to issue its own cryptocurrency called JPM Coin that will be used for international payments for large institutional clients. See CNBC, *JP Morgan is tolling out the first US bank-backed cryptocurrency to transform payments business*, (February 14, 2019).

OFFICE OF INSPECTOR GENERAL'S ASSESSMENT (continued)

banking systems and may be beyond the reach of the current regulatory structures.²⁵ In addition, certain banks are also testing the use of blockchain and distributed ledger technologies, as well as digital currencies for cross-border transfers.²⁶

Modernizing FDIC Guidance and Understanding Risks of Financial Technology

FDIC policy makers should understand technology and its impact on the safety and soundness of institutions in order to provide guidance to both bankers and examiners. Keeping policies and guidance in step with technology is a challenge. According to the Department of the Treasury, current financial statutes and regulations may not address new technology and evolving business models.²⁷ Regulators should create an agile framework that encourages innovation and sound risk management practices.²⁸ The FDIC Chairman has stated that:

In many cases, the cost to innovation is prohibitively high for community banks, which often lack the expertise, information technology, and research and development budgets to independent[ly] develop and deploy their own technology . . . [I]f our regulatory framework does not evolve with technological advances in a manner that enables partnerships between banks and fintechs, such innovation may not occur at community banks.²⁹

Further, bank examiners need up-to-date examination procedures to effectively assess the risks associated with new financial technologies.

The FDIC also faces challenges in issuing timely guidance that is consistent with other Federal banking regulators.³⁰ The Board of Governors of the Federal Reserve System, the OCC, the Consumer Financial Protection Bureau, and the FDIC share responsibility for Federal banking regulation and supervision.³¹ These regulatory agencies work through the Federal Financial

²⁵ Washington Post, *Facebook's Zuckerberg takes broad lashing on Libra, 2020 election and civil rights at congressional hearing*, (October 23, 2019). See Commodity Futures Trading Corporation, *Backgrounder on Oversight of and Approach to Virtual Currency Futures Markets*, (January 4, 2018), "US Law does not provide for direct, comprehensive Federal oversight of underlying Bitcoin or virtual currency spot markets." US regulation includes (1) the Internal Revenue Service treating virtual currencies as property subject to capital gains tax, (2) the Department of the Treasury Financial Crimes Enforcement Network monitoring virtual currency exchanges as money transmitters for anti-money laundering purposes, and (3) the Securities and Exchange Commission treating virtual currency issuances as securities issuances.

²⁶ CNBC, *JP Morgan Is Rolling Out the First US Bank-backed Cryptocurrency to Transform Payments Business*, (February 14, 2019). Reuters, *Wells Fargo Tests Cryptocurrency for Internal Transactions*, (September 17, 2019).

²⁷ Department of the Treasury, *A Financial System That Creates Economic Opportunities: Nonbank Financials, Fintech, and Innovation*, (July 2018).

²⁸ Jelena McWilliams, FDIC Chairman, Remarks at the Institute of International Bankers' Annual Washington Conference; Washington, D.C., (March 11, 2019).

²⁹ Statement of Jelena McWilliams, FDIC Chairman, on *Oversight of Financial Regulators* before the United States Senate Committee on Banking, Housing, and Urban Affairs, (December 5, 2019).

³⁰ American Banker, *Regulators Must Issue AI Guidance or FDIC Will: McWilliams*, (August 2, 2019); and American Banker, *Blockchain crypto tech need clear rules of the road*, (August 7, 2019).

³¹ Jelena McWilliams, FDIC Chairman, *"Principles of Supervision and Your Value to our Nation's Banking System,"* delivered at the Banking Institute sponsored by the University of North Carolina School of Law; Charlotte, North Carolina, (March 21, 2019).

OFFICE OF INSPECTOR GENERAL'S ASSESSMENT (continued)

Institutions Examination Council (FFIEC)³² to promote uniformity in the supervision of financial institutions. FDIC Chairman McWilliams recently noted her concern about the time required for regulators to reach consensus on artificial intelligence guidance and indicated that the FDIC may choose to issue its own guidance if regulators cannot agree on joint guidance.³³

In October 2018, the FDIC announced the development of a new FDIC Tech Lab to centralize the FDIC's knowledge of technology in order to focus on technologies in the financial services sector, help the FDIC understand how innovation can contribute to the expansion of banking services, and promote the adoption of technology. As of January 2020, the FDIC continued to implement the operational foundation for the Tech Lab, including developing governing policies and procedures and searching for a Chief Innovation Officer to lead this effort.³⁴ In addition, the FDIC is seeking a range of other technologists—including data scientists, process engineers, software developers, and network security experts—to join the agency.³⁵ We are monitoring the FDIC's progress in standing up the Tech Lab.

Ensuring Examinations Identify and Mitigate Technology Risks

According to the *Interagency Guidelines Establishing Information Security Standards*,³⁶ a financial institution is responsible for the cybersecurity of its own information technology (IT) systems. Similarly, responsibility for compliance with consumer protection laws and regulations lies with the financial institution, regardless of whether the institution or a third-party service provider controls the information.³⁷ The FDIC assesses whether bank management has appropriate controls in place to mitigate cybersecurity risks and enhance consumer protections.

According to the OCC, bank examiners note that “the most common specific control deficiencies” at banks relate to: Patch Management, Network Configuration, and Access Management.³⁸ In addition, banks and service providers report that some of the common attacks against institutions include: Phishing incidents; Compromised credentials; and Automated Teller Machine exploits.

Since 2016, the FDIC has used the Information Technology Risk Examination (InTREX) work program to conduct bank IT examinations and assess financial institutions' management of third-party service providers. The FDIC developed InTREX to enhance IT supervision by providing examiners with risk-focused examination procedures.³⁹ Examiners use work programs to observe and document processes, and test controls. The FDIC may undertake

³² The FFIEC was established on March 10, 1979, pursuant to title X of the Financial Institutions Regulatory and Interest Rate Control Act of 1978, Public Law 95-630. The Council is an interagency body empowered to prescribe uniform principles, standards, and report forms for the federal examination of financial institutions by the Board of Governors of the Federal Reserve System, the FDIC, the National Credit Union Administration, the OCC, and the Bureau of Consumer Financial Protection and to make recommendations to promote uniformity in the supervision of financial institutions.

³³ *Regulators Must Issue AI Guidance or FDIC Will: McWilliams*, American Banker, (August 2, 2019). There is also a need for regulatory clarity for blockchain and cryptocurrency. See *Blockchain crypto tech need clear rules of the road*, American Banker, (August 7, 2019).

³⁴ American Banker, *FDIC Chairman, Regulators Need New Approach to Innovation*, (October 4, 2019).

³⁵ American Banker, *FDIC Chairman, Regulators Need New Approach to Innovation*, (October 4, 2019).

³⁶ These Interagency Guidelines can be found in the FDIC Rules and Regulations, Part 364, Appendix B.

³⁷ 12 C.F.R. Part 364, Appendix B. The FDIC, OCC, and Board of Governors of the Federal Reserve issued the *Interagency Guidelines Establishing Information Security Standards*. Financial Institution Letter 44-2008, Guidance for Managing Third-Party Risk (June 6, 2008).

³⁸ OCC, *Semiannual Risk Perspective*, (Fall 2019).

³⁹ Financial Institution Letter 43-2016, *Information Technology Risk Examination (InTREX) Program*, (June 30, 2016).

OFFICE OF INSPECTOR GENERAL'S ASSESSMENT (continued)

enforcement actions when examiners identify IT risks and weak management practices at the institutions.

From 2016 to 2018, the FDIC conducted more than 3,000 IT examinations. Examiners establish the scope of an IT examination consistent with a bank's IT complexity and risk. For example, the IT examination scope could be larger if new technology has been introduced, a new material third-party technology service provider is added, or bank information security testing identified material deficiencies.

Banks have expanded their use of advanced technologies such as person-to-person payments, cloud computing, and blockchain. These developments increased the overall IT risk profile of the banking industry and the complexity of FDIC IT examination work. As a result, the FDIC has devoted an increasing number of examination hours to IT supervision. For example, according to FDIC data for IT examinations completed by the FDIC between January 2017 and August 2018, the average number of hours per examination increased 11 percent. For that same period, the average IT examination hours for FDIC-identified banks with the highest IT risk increased 46 percent.

The increase in IT examination hours has led to geographic examiner resource gaps requiring examiners from one region to supplement examiners in another region. For example, the New York Regional Office noted that it has shortages of examiners qualified to complete IT examinations and required the assistance from other Regional Offices. The FDIC has a nationwide IT On-The-Job training program to increase the pool of qualified examiners for intermediate and advanced examinations. We have ongoing work to evaluate the FDIC's process for allocating examination staff, including examiner IT subject-matter experts, to safety and soundness examinations. Also, we plan to conduct a review of the FDIC's InTRES examination program.

Mitigating Risks Associated With Third-Party Service Providers

According to the OCC, "[b]anks increasingly rely on third-party service providers for technology and other solutions to compete in a rapidly evolving financial marketplace."⁴⁰ In addition, "cyber crime and espionage increasingly target third-party service providers because of the potential to access multiple networks from a single point."⁴¹ For example, in July 2019, an employee of a third-party provider of Capital One exploited a firewall and gained access to sensitive information for approximately 106 million U.S. and Canadian customers.⁴²

The OCC also noted that banks are relying on the same pool of third-party service providers for critical services such as payments, transaction processing, and maintenance of sensitive information. "[C]onsolidation in the bank technology service provider industry has resulted in fewer entities providing certain critical services."⁴³ Thus, if one third-party provider experiences a service disruption, operations at many banks may be affected.

The FDIC—through its supervisory examination processes—evaluates banks' monitoring of the security programs of their third-party providers. Bank management must exercise due diligence before entering into third party relationships. Due diligence includes, for example,

⁴⁰ OCC, *Semiannual Risk Perspective*, (Fall 2019).

⁴¹ OCC, *Semiannual Risk Perspective*, (Spring 2019).

⁴² CyberScoop, *Capital One is a cautionary tale for companies rushing to embrace new tech*, (July 31, 2019).

⁴³ OCC, *Semiannual Risk Perspective*, (Fall 2019).

OFFICE OF INSPECTOR GENERAL'S ASSESSMENT (continued)

understanding the third-party's risk and security controls, and ensuring clear lines of responsibility between the third-party and the bank on actions to be taken in the case of an incident. According to *Banking Technology Vision 2019* by Accenture, 69 percent of 784 banking and IT executives surveyed did not know about the security at their third-party service providers.⁴⁴ We plan to conduct a review to assess whether FDIC examination processes evaluate institutions' monitoring and management of risks associated with third-party relationships.

The FDIC should understand risks associated with emerging technology to provide banks with implementation guidance that balances banking sector safeguards with innovation. The FDIC should also ensure that examinations effectively address technology risks.

2| ENHANCING THE FDIC'S INFORMATION TECHNOLOGY SECURITY PROGRAM

The FDIC continues to increase its reliance on IT systems to fulfill its mission. As of June 2018, the FDIC had 338 IT systems that collect, store, or process Personally Identifiable Information (PII) and sensitive information. A total of 174 of the FDIC's 338 IT systems contained what the Agency has determined to be "sensitive PII." Further, the FDIC has legacy systems that are becoming difficult and expensive to maintain. The FDIC is in the process of modernizing its technology and must maintain the security of information within its systems as the IT environment evolves.

According to the Office of Management and Budget (OMB), the Federal Government is a significant target of cyberattacks, and in Fiscal Year 2018, Federal agencies experienced 31,107 cybersecurity incidents.⁴⁵ A recent report issued by the data protection firm, Veritas, stated that "ransomware damage costs will reach \$20 billion by 2021."⁴⁶ Nearly 30 percent of Federal agency respondents to the Veritas survey had been directly affected by ransomware attacks in the past 3 years, and 80 percent of Federal respondents believed that ransomware and malware will be as great a concern—if not a greater concern—within the next 12 months. The report further noted that ransomware attacks at Federal agencies present risks to national security, employee productivity loss, prolonged loss of services, and loss of institutional trust. The Director of the Cybersecurity and Infrastructure Security Agency (CISA)⁴⁷ at the Department of Homeland Security (DHS) noted that ransomware attacks are "only getting worse."⁴⁸ The actors are shifting their business models and going to more coordinated attacks.

Also, in June 2019, a Senate Committee on Homeland Security and Governmental Affairs report⁴⁹ found that Federal agencies failed to comply with basic cybersecurity standards,

⁴⁴ Accenture, *Banking Technology Vision 2019*, (May 7, 2019).

⁴⁵ *Federal Information Security Modernization Act of 2014 Annual Report to Congress*, (August 2019).

⁴⁶ Veritas, [Ransomware Threats Is Your Agency Ready?](#), (December 2019).

⁴⁷ On November 16, 2018, the President signed into law the Cybersecurity and Infrastructure Security Agency Act of 2018 (Act). The Act established the Cybersecurity and Infrastructure Security Agency (CISA) within the DHS to, among other things, make the United States cyber and physical infrastructure more secure by sharing information at all levels of Government and the private and non-profit sectors. Cybersecurity and Infrastructure Security Act of 2017, House Report 115-454, 115th Congress, (December 11, 2017).

⁴⁸ FedScoop, *Survey Indicates Federal Agencies Lack Adequate Planning to Recover from Ransomware Attacks*, (December 6, 2019).

⁴⁹ [Federal Cybersecurity: America's Data At Risk, United States Senate Committee on Homeland Security and Governmental Affairs Permanent Subcommittee on Investigations](#), (June 2019). The Subcommittee reviewed the

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including deficiencies related to:

- Protecting PII;⁵⁰
- Maintaining comprehensive and accurate lists of IT assets;
- Installing required security patches; and
- Ensuring systems had valid operating authorities.

This Senate Report also noted that agencies were at increased risk when they rely on aging systems also called “legacy systems.”⁵¹ These legacy IT systems are difficult to secure and costly to maintain.

FDIC IT systems reflect a combination of legacy systems and new technologies. According to the Government Accountability Office (GAO), use of legacy systems increases the cybersecurity risk of those systems.⁵² Further, the FDIC’s Chief Information Officer Organization recognized that the “burden of maintaining the legacy environment limits the ability of staff to develop and practice new skills and pursue innovation.”⁵³

The FDIC relies heavily on IT systems to carry out its responsibilities of insuring deposits, supervising banks, and performing its resolution and receivership activities. The FDIC maintains 338 IT systems that collect, store, or process PII and sensitive information. A total of 174 of the FDIC’s 338 IT systems contain what the agency has determined to be “sensitive PII.”⁵⁴ For example, in its capacity as receiver for failed banks, the FDIC collects and maintains a significant volume of PII such as names, home addresses, SSNs, dates and places of birth, bank account numbers, and credit card information. The FDIC also maintains business proprietary information that is sensitive, including banks’ information relating to internal operations regarding counterparties, vendors, suppliers, and contractors.

In December 2019, the FDIC Chairman announced the departure of the Chief Information Officer (CIO) who led the FDIC’s IT strategic planning and modernization efforts. On January 16, 2020 the Chairman named the Deputy CIO as the new CIO to continue leadership of the implementation of the FDIC’s IT Modernization Plan. The appointment of the new CIO marks the FDIC’s eighth CIO or Acting CIO in the last decade. These senior management changes impact the direction of an organization because turnover affects management strategy, planning, budgets, and staffing. As noted by the GAO, a high turnover rate in CIOs negatively

Department of Homeland Security, the Department of State, the Department of Transportation, the Department of Housing and Urban Development, the Department of Agriculture, the Department of Health and Human Services, the Department of Education, and the Social Security Administration.

⁵⁰ PII is any information about an individual maintained by an agency, including (1) any information that can be used to distinguish or trace an individual’s identity, such as name, Social Security Number (SSN), date and place of birth, mother’s maiden name, or biometric records; and (2) any other information that is linked or linkable to an individual, such as medical, educational, financial, and employment information.

⁵¹ U.S. Government Accountability Office, *Information Technology: Agencies Need to Develop Modernization Plans for Critical Legacy Systems*, GAO-19-471, (June 2019).

⁵² U.S. Government Accountability Office, *Information Technology: Agencies Need to Develop Modernization Plans for Critical Legacy Systems*, GAO-19-471, (June 2019).

⁵³ FDIC Chief Information Officer Organization, *FDIC IT Modernization Plan 2020-2024*.

⁵⁴ According to FDIC Circular 1360.9, *Protecting Sensitive Information*, (October 2015), sensitive PII is a subset of PII that presents the highest risk of being misused for identity theft or fraud. Sensitive PII may be comprised of a single item of information, such as an SSN, or a combination of two or more items, such as full name along with financial, medical, criminal, or employment information.

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impacts their effectiveness because there is limited time to put their agenda in place or form close working relationships with agency leadership.⁵⁵

Maturing the FDIC's IT Security Program and Practices

In our annual audit report, [The FDIC's Information Security Program—2019](#) (October 2019) (FISMA Report) and other OIG reports, we identified weaknesses that limited the effectiveness of the FDIC's information security program and practices and placed the confidentiality, integrity, and availability of the FDIC's information systems and data at risk. In particular, we identified the following weaknesses and deficiencies that pose the highest risks to FDIC IT systems:

- **Network Firewalls.** According to the National Institute of Standards and Technology (NIST) guidance, firewalls are essential devices or programs that help organizations protect their networks and information systems from hostile attacks, break-ins, and malicious software.⁵⁶ The FDIC deploys firewalls at both the perimeter and interior of its network. These firewalls control the flow of inbound traffic from the internet through the use of “ingress” rules that inspect traffic and permit or deny requests for access to FDIC systems. The firewalls also control the type of traffic allowed to flow out of the network using “egress” rules. Therefore, the FDIC's firewalls are only as effective as the rules that the FDIC defines for them.

In our audit report, [Preventing and Detecting Cyber Threats](#) (May 2019), we identified weaknesses in the effectiveness of both FDIC firewalls and the Security Information and Event Management tool that works in concert with firewalls to analyze network activity and detect cyber threats. The FDIC had inadequate firewall policies and procedures that led to firewall rules lacking documented justification, unnecessary firewall rules, and an ineffective process to periodically review firewall rules. Unnecessary firewall rules pose a security risk. The FDIC undertook significant steps to address these network firewall weaknesses. However, the FDIC had not yet completed actions to document all existing network firewall rules with an approval and mission/business need, including the duration of that need, or implemented a firewall policy consistent with NIST guidance.

- **Privileged Account Management.** The FDIC assigns certain network users “administrative accounts” that have privileged access to systems and network IT resources to perform maintenance and IT troubleshooting activities. The FDIC must carefully control and monitor administrative accounts because hackers and other adversaries often target them to perform malicious activity, such as exfiltrating sensitive information.

In our audit report, [Preventing and Detecting Cyber Threats](#), we found that the FDIC did not always require administrators to uniquely identify and authenticate when they accessed network firewalls. These vulnerabilities exposed the network firewalls to increased risk of unauthorized access or malicious activity. The FDIC corrected these vulnerabilities.

- **Security Control Assessments.** Agencies are required to test and evaluate information security controls periodically in order to ensure that they are effective. The

⁵⁵ U.S. Government Accountability Office, *Federal Chief Information Officers: Responsibilities, Reporting Relationships, Tenure, and Challenges*, GAO-04-823, (July 2004).

⁵⁶ NIST SP 800-41, *Guidelines on Firewalls and Firewall Policy*, (September 2009).

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FDIC assessed its security controls following a risk-based schedule. However, in our audit, [Security Configuration Management of the Windows Server Operating System](#) (January 2019), we found instances in which security control assessors did not test the implementation of security controls, when warranted. Instead, assessors relied on narrative descriptions of controls in FDIC policies, procedures, and system security plans and/or interviews of FDIC or contractor personnel. Without testing, assessors did not have a basis for concluding on the effectiveness of security controls. We made eight recommendations, one of which remains unimplemented at the time of this report.

- **Security and Privacy Awareness Training.** FDIC policy requires employees and contractor personnel with network access to complete security and privacy awareness training within one week of employment, and annually thereafter. FDIC policy states that users who fail to comply with this requirement must have their network access revoked. We identified 29 network users who did not satisfy the FDIC's awareness training requirement but still had access to the network. We found that the FDIC was not aware of the 29 users, among approximately 7,000 network users, because the system used to monitor training compliance did not track all users required to take the annual security and privacy awareness training.

The FDIC must continue to modernize its IT systems and mature security controls to minimize risks of cyber incidents. Information security should remain a critical element of the FDIC's plan to modernize its IT systems.

3| ENSURING THE FDIC'S READINESS FOR CRISES

Banks face numerous significant risks that could affect the stability of the financial system, as well as the safety and soundness of institutions. Central to the FDIC's mission is readiness to address crises impacting the banking system and mitigation of risk through supervision. The FDIC identified two important lessons learned following the recent financial crisis: (i) the importance of crisis readiness planning; and (ii) quickly addressing emerging supervisory risks. Crisis readiness best practices identify the principles and elements of effective preparedness that collectively provide a framework for crisis planning efforts. Adopting such a framework strengthens the FDIC's ability to respond to a crisis in a timely and effective manner.

The World Economic Forum identified five categories of risk to the world economy that also impact the banking sector: (1) Technological risks, such as widespread economic disruption, failure of the internet or satellites, or large-scale data fraud or theft; (2) Economic risks, such as unsustainable prices for housing or commodities that result in sudden price drops; (3) Environmental risks, such as extreme weather events, natural disasters, or man-made disasters; (4) Geopolitical events, such as terrorist attacks or weapons of mass destruction; and (5) Societal risks, such as infectious disease pandemics.⁵⁷

The FDIC plays an important role in supervising and regulating banks that may be affected by these risks. The FDIC helps to stabilize financial markets through its examination of banks, provision of deposit insurance, and resolution of failed banks. When the FDIC acts as the receiver of a failed institution, the FDIC assumes responsibility for recovering funds through the disposition of a bank's assets.⁵⁸ The FDIC Chairman noted that during its 85-year history, the

⁵⁷ The World Economic Forum, *The Global Risks Report 2018*, 13th Edition.

⁵⁸ [FDIC 2018-2023 Strategic Plan, Receivership Management Program](#).

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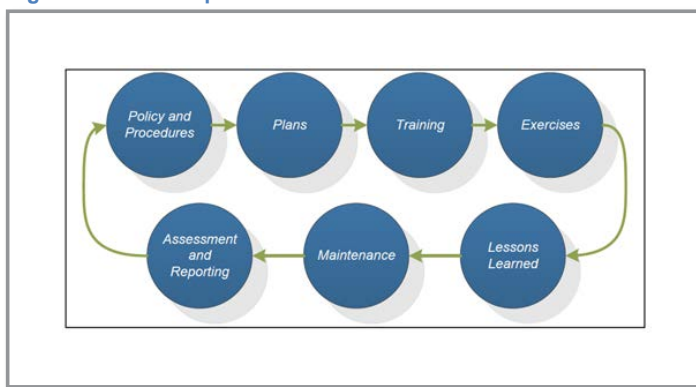
FDIC “has resolved more than 2,700 institutions with assets of more than \$1 trillion and almost \$800 billion in deposits.”⁵⁹

Planning for Crises and Resolution of Failed Banks

When early mitigation fails or events overtake mitigation efforts, the FDIC should be prepared to address bank failures. In 2017, the FDIC published a study of the Agency’s response to the financial crisis in 2008-2013. The FDIC study, *Crisis and Response: An FDIC History, 2008-2013* (Crisis and Response Report), concluded that the financial crisis presented the FDIC with unprecedented challenges and demanded creative and innovative responses from the FDIC and other financial regulatory agencies. In addition, the crisis stretched the limits of the FDIC’s capacity to supervise problem institutions, manage the Deposit Insurance Fund, and implement orderly resolutions for failed financial institutions. The Crisis and Response Report concluded that “[i]n hindsight, it might have been more effective if the FDIC, as part of its readiness planning, had built a larger and more agile infrastructure—including staff, contracts, and [information technology] systems—during the lull between the end of the previous crisis and the start of this new one.” The Crisis and Response Report indicated that, as a result, one of the most important lessons learned from the prior financial crisis was that “readiness planning is essential.”⁶⁰

Crisis readiness best practices⁶¹ identify seven elements of a readiness planning framework, as depicted in Figure 1. A crisis readiness framework identifies the principles and elements of effective preparedness and promotes a shared understanding and a common, integrated perspective of readiness across all mission areas.⁶²

Figure 1: OIG Compilation of Crisis Readiness Framework



Source: FDIC OIG.

Specifically, the seven elements of a readiness framework that agencies such as the FDIC should have include:

- **Policy and Procedures** – Agencies should have a policy with defined readiness authorities, roles, and responsibilities, including a committee responsible for overseeing

⁵⁹ Jelena McWilliams, FDIC Chairman, Keynote Remarks delivered at the 2018 Annual Conference of The Clearing House and Bank Policy Institute, (November 28, 2018).

⁶⁰ The Crisis and Response Report indicated that, as part of maintaining readiness in a stable environment, the FDIC could explore how other agencies with highly variable resource demands address their resource challenges. The report cited FEMA as an example, noting the agency has developed readiness capabilities despite the unpredictable need for disaster relief.

⁶¹ OIG-identified best practices included the Department of Homeland Security, *National Preparedness Guidelines* (September 2007); Federal Emergency Management Agency (FEMA), *FEMA Operational Planning Manual* (FEMA-P-1017) (June 2014); and the Organization for Economic Co-operation and Development, *Strategic Crisis Management* (December 2012).

⁶² FEMA, *National Disaster Recovery Framework* website summary page <https://www.fema.gov/national-disaster-recovery-framework> (October 2018).

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readiness activities. This policy helps ensure that personnel understand and implement management directives for readiness. Agencies should also have procedures for a consistent crisis readiness planning process.

- **Plans** – Agencies should have an agency-wide all-hazards readiness plan as well as plans for specific hazards as needed based on risk. These plans improve the efficiency of the readiness planning process and provide management and personnel with a comprehensive understanding of readiness planning activities across an organization.
- **Training** – Agencies' plans should incorporate training requirements to ensure that personnel understand the content of crisis readiness plans, including the task-related responsibilities for executing the plans.
- **Exercises** – Agencies should regularly test readiness plans, document the results of all readiness plan exercises, and consistently incorporate such exercise requirements within its plans.
- **Lessons Learned** – Agencies should have a process to monitor the implementation of lessons learned and related recommendations from readiness plan training, exercises and execution during a crisis.
- **Maintenance** – Agencies should regularly review and update their readiness plans and incorporate such maintenance requirements within their plans.
- **Assessment and Reporting** – Agencies should regularly assess and report on Agency-wide progress on crisis readiness plans and activities to key decision makers within an organization.

We have work ongoing to assess the FDIC's crisis readiness planning efforts in the context of this framework.

Promptly Identifying and Mitigating Banking Risks

An important step in avoiding crises is early risk identification and mitigation. In its review of the financial crisis, the Financial Crisis Inquiry Commission stated that "[i]n case after case after case, regulators continued to rate the institutions they oversaw as safe and sound even in the face of mounting troubles, often downgrading them just before their collapse."⁶³

The FDIC adopted a Forward-Looking Supervision initiative to identify and mitigate risk before it impacts the financial condition of an institution. In our evaluation report, [*Forward-Looking Supervision*](#)⁶⁴ (August 2018) we found that for 41 examination reports sampled, examiners identified overall safety and soundness risk; however, only 27 percent of reports sampled (11 of 41) elevated concerns to the financial institution's board of directors. Based on the financial institutions' risk, we believe that a greater number of these concerns warranted board attention. Elevating concerns and recommendations provides greater visibility and awareness to the financial institution's board of directors and senior management.

⁶³ Financial Crisis Inquiry Commission, *Final Report of the National Commission on the Causes of the Financial and Economic Crisis in the United States* (January 21, 2011). Congress established the Financial Crisis Inquiry Commission as part of the Fraud Enforcement and Recovery Act (Public Law 111-21) to examine the causes of the financial crisis.

⁶⁴ *Forward-Looking Supervision*, EVAL-18-004, (August 2018).

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An institution's financial condition may also change between examination intervals, making the most recent examination rating outdated or inaccurate. The FDIC's Offsite Review Program (ORP) is designed for the early identification of emerging supervisory concerns and potential problems so that supervisory strategies can be adjusted quickly. The ORP includes models and other methodologies that review quarterly bank information⁶⁵ and produce the Offsite Review List (ORL) of institutions with potential emerging supervisory concerns. FDIC Regional Offices may add institutions that are not initially identified on the ORL based on Region-specific concerns. The ORP also includes a Supplemental Review List for new or emerging risks to be included in the quarterly offsite process.

In our evaluation report, [*Offsite Reviews of 1- and 2-Rated Institutions*](#) (December 2019), we found that the ORP identified emerging issues concerning financial institutions' rapid growth, use of noncore funding, and deteriorating financial trends, but the FDIC should evaluate additional methods and new technologies to identify financial institutions with other types of emerging supervisory concerns. For example, the FDIC should assess whether innovative technologies would provide predictive information on other types of emerging supervisory concerns, such as those related to banks' internal controls, credit administration, and management practices. We recommended that the FDIC evaluate the feasibility of using new technologies to identify institutions with emerging supervisory concerns.

The health of banks and the banking system depends upon the FDIC's and other regulators' early identification and mitigation of safety and soundness risk and the FDIC's ability to respond to banking crises. Establishing a robust readiness framework ensures the FDIC has the organizational processes, individuals, resources, and integration necessary to respond to a crisis.

4 | SHARING THREAT INFORMATION WITH BANKS AND EXAMINERS

Federal Government agencies gather a substantial volume of information related to the safety and soundness of financial institutions in the United States, and thus, relevant to FDIC supervisory activities. For example, Government agencies collect information about cyber threats, money laundering, and illicit financing activity. Bankers need to receive actionable information in order to respond to threats in a timely manner. FDIC examiners responsible for supervised institutions should be aware of threats directed toward those institutions to understand their impact and make necessary supervisory adjustments. Further, examiners should understand the nature of threats to evaluate potential gaps and determine the depth and scope of an examination. FDIC policy makers should be aware of emerging threats to ensure that relevant threat information is disseminated to banks and examiners; in addition, policy makers can adjust examination policy and procedures and assess the need for supplementing or modifying the regulatory scheme.

On April 30, 2019, the CISA identified consumer and commercial banking, and funding and liquidity services as National Critical Functions which are "so vital to the United States that their disruption, corruption, or dysfunction would have a debilitating effect on security, national economic security, national public health or safety, or any combination thereof."⁶⁶ The CISA

⁶⁵ Banks reviewed through the ORP include FDIC-supervised institutions and institutions supervised by the Federal Reserve Board or the Office of the Comptroller of the Currency.

⁶⁶ DHS Cybersecurity and Infrastructure Security Agency, *National Critical Functions – An Evolved Lens for Critical Infrastructure and Security Resilience*, (April 30, 2019).

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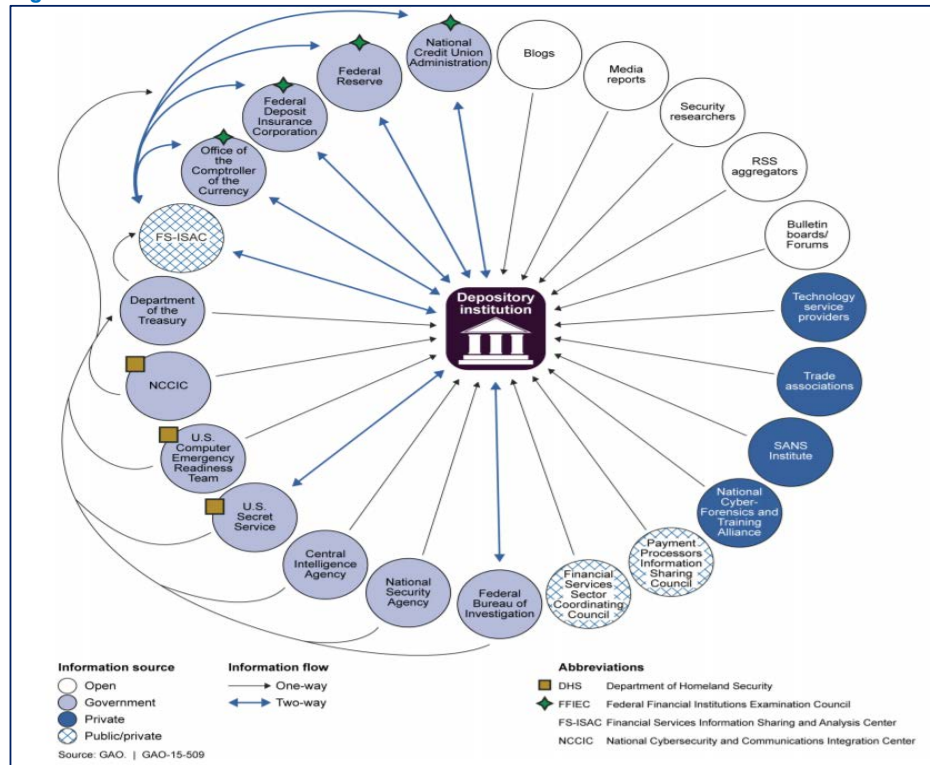
further stated that a key focus to support these National Critical Functions is collecting and sharing threat information about natural occurrences or man-made actions that represent “the potential to harm life, information, operations, the environment, and/or property.”⁶⁷

Similarly, the FSOC noted, in its 2019 Annual Report, the critical importance to the financial sector of sharing timely and actionable threat information with Federal Government agencies and the private sector. The FSOC stated that Federal agencies should “carefully consider how to appropriately share information and, where possible, continue efforts to declassify (or downgrade classification) to the extent practicable, consistent with national security imperatives.”⁶⁸

FinCEN also stressed the importance of providing the financial sector with information about illicit activity to help sector participants identify and report such activities to law enforcement.⁶⁹ This information is especially important to identify illicit actors who use virtual currency to facilitate criminal activity, such as human or drug trafficking, child exploitation, fraud, terrorist financing, or to support rogue regimes and facilitate sanctions evasion.

As shown in Figure 2, the GAO identified multiple sources of threat information.

Figure 2: Sources of Threat Information for Financial Institutions.



⁶⁷ Department of Homeland Security, *DHS Risk Lexicon*, (September 2008).

⁶⁸ FSOC 2019 Annual Report.

⁶⁹ Financial Crimes Enforcement Network, *Advisory on Illicit Activity Involving Convertible Virtual Currency*, (May 9, 2019).

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Disseminating Threat Information to Banks

The OCC noted that “[t]he potential for operational disruptions underscores the need for effective controls and operational resilience to help ensure the ongoing delivery of financial products and services in a safe and sound manner.”⁷⁰ The FFIEC provides instructions to examiners on how to examine financial institutions’ business continuity plans. These instructions note that threats should be analyzed “based upon the impact to the institution, its customers, and the financial market it serves.”⁷¹ The FFIEC notes that financial institutions should have “a means to collect data on potential threats that can assist management in its identification of information security risks.” The FDIC is responsible for evaluating bank management’s processes to receive and assess threat information, and to act on such information in order to mitigate risks.

The Cybersecurity Information Sharing Act (2015) required the Director of National Intelligence (DNI) and other agency heads to develop and issue procedures to facilitate and promote the sharing of cyber threat indicators and defensive measures. In February 2016, the DNI issued a report entitled *Sharing of Cyber Threat Indicators and Defensive Measures by the Federal Government under the Cybersecurity Information Sharing Act of 2015* (Threat Sharing Procedures), which outlined the procedures for Federal agencies to share cybersecurity information with non-Federal entities such as financial institutions.⁷² The Threat Sharing Procedures promote sharing unclassified and classified information, and best practices related to cyber security.

According to the Threat Sharing Procedures, Federal Government agencies are to make every reasonable effort to share unclassified reports of cyber threats on a timely basis. The sharing of classified threat information is dependent on the recipient’s security clearance level and must protect sources, methods, operations, and investigations. The Threat Sharing Procedures encourage Federal agencies to “downgrade, declassify, sanitize or make use of tearlines to ensure dissemination of threat information to the maximum extent possible.”⁷³

Federal agencies may use Information Sharing and Analysis Centers (ISAC) to provide threat information to other government agencies or non-Federal entities.⁷⁴ The goal of ISACs is to provide members with accurate, actionable, and relevant information, and they are organized to share sector-specific threat and vulnerability information with members.

The Financial Services Information Sharing and Analysis Center (FS-ISAC) was established to serve financial institutions. FS-ISAC has 7,000 members and its purpose is to share timely, relevant, and actionable security threat information. Federal financial-sector regulators encourage financial institutions to gain access to threat information through FS-ISAC membership.⁷⁵ Regulators also suggest that banks use other available resources from the Federal Bureau of Investigation, Department of Homeland Security, and U.S. Secret Service in

⁷⁰ OCC, *Semiannual Risk Perspective*, (Fall 2019).

⁷¹ FFIEC, Business Continuity Planning Booklet, *Risk Assessment*, (Available on the [FFIEC website](#)).

⁷² The Office of the Director of National Intelligence, The Department of Homeland Security, The Department of Defense, and The Department of Justice, *Sharing of Cyber Threat Indicators and Defensive Measures by the Federal Government under the Cybersecurity Information Sharing Act of 2015*, (February 16, 2016).

⁷³ The Office of the Director of National Intelligence, The Department of Homeland Security, The Department of Defense, and The Department of Justice, *Sharing of Cyber Threat Indicators and Defensive Measures by the Federal Government under the Cybersecurity Information Sharing Act of 2015*, (February 16, 2016).

⁷⁴ Presidential Policy Directive 63, *Critical Infrastructure Protection*, (May 22, 1998).

⁷⁵ FFIEC, *Cybersecurity and Threat and Vulnerability Monitoring and Sharing Statement*, (November 3, 2014).

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order to identify and respond to cyber attacks. Bank “management is expected to monitor and maintain sufficient awareness of cybersecurity threats and vulnerability information so they may evaluate risk and respond accordingly.”⁷⁶

As part of the FDIC’s supervisory process, examiners evaluate banks’ processes for obtaining and assessing threat information. Examiners may face challenges in assessing the effectiveness of banks’ threat identification and mitigation processes when banks are not receiving threat information through FS-ISAC membership.

Disseminating Threat Information to FDIC Policy Makers and Examiners

FDIC policy makers should be aware of threats to ensure relevant threat information is provided to banks and examiners. Further, policy makers may need to adjust examination policy and procedures to address emerging threat issues and assess the need for additional regulation. FDIC examiners should be aware of threats directed toward those institutions to understand their impact and make necessary supervisory adjustments. Understanding the nature of threats to all banks provides context for examiners to evaluate potential gaps in an institution’s processes for threat information gathering and continuity planning. Further, threat information can assist examiners in prioritizing and focusing their work on emerging issues, and modifying the depth or scope of an examination.

According to best practices,⁷⁷ recipients of threat information should have the following processes in place to assess the significance of the information and ensure that actionable information is disseminated to relevant parties:

- **Acquiring Threat information.** Threat information may be obtained from a variety of sources and methods, including information from open sources, confidential sources, law enforcement, intelligence, public and private entities, as well as investigations, assessments, and intelligence collection.
- **Analyzing Threat Information.** The significance of the threat must be assessed in the context of other threats and relevant information.
- **Disseminating and Using Actionable Threat Information.** This step includes distribution with a focus on timely delivery of relevant actionable threat information to the appropriate people. Further, information must be “marked” to ensure proper safeguarding and access restrictions.
- **Providing Feedback on Threat information.** Establishing processes for lessons learned improves the relevance, usefulness, and format of threat information.

The FDIC has access to threat information held by various Government agencies, and should have formal processes to address the four steps, referenced above, for threat information assessment and sharing. Without formal processes, the FDIC leaves the collection of information, analysis, dissemination, and feedback to staff discretion, which may lead to inconsistencies, uncertainty, and a lack of uniformity in sharing threat information.

⁷⁶ FFIEC, *Cybersecurity and Threat and Vulnerability Monitoring and Sharing Statement*, (November 3, 2014).

⁷⁷ OIG compilation based on a combination of DHS, *Critical Infrastructure Threat Information Sharing Framework, A Reference Guide for the Critical Infrastructure Community*, (October 2016); and SANS Institute, *Cyber Threat Intelligence Support to Incident Handling*, (November 2017).

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The FDIC is also challenged to set up the infrastructure needed to execute threat assessment and sharing processes. FDIC Headquarters staff has access to significant amounts of threat information held by the U.S. Government, and much of the information is confidential and highly sensitive. Given the volume of information, the FDIC faces challenges in having the appropriate number of personnel with the requisite security clearance levels to analyze, distill, and convey relevant and actionable threat information. The FDIC is also challenged to convey classified information to policy makers and examiners. In order to access, store, and handle classified information, FDIC policy makers and examiners must have relevant security clearances and secure facilities—or alternatively, the FDIC must have processes in place to declassify information in a timely manner. We have ongoing work to evaluate the effectiveness of the FDIC's procedures for the collection and dissemination of threat information.

Timely and actionable threat information allows bank management to thwart threats and the FDIC to quickly adjust supervisory strategies. Understanding the emerging threat landscape across all banks provides examiners with context to review a bank's processes to defend against threats and provides perspective to adjust examination policies and procedures. Absent information sharing, bank management, policy makers, and examiners may be unaware of threats that could affect the safety and soundness of financial institutions.

5 | STRENGTHENING THE GOVERNANCE OF THE FDIC

Effective governance is critical to ensure proper oversight of the FDIC. The Federal Deposit Insurance Act vests the management of the FDIC to its Board of Directors (FDIC Board). The FDIC Board has operated without a full membership since 2015. The FDIC Board delegates authority to FDIC senior leaders to fulfill the Agency's mission, including implementation of its Enterprise Risk Management (ERM) program. The FDIC should ensure that it is identifying and managing risks, and making data-driven acquisition decisions.

According to *Principles of Corporate Governance* issued by the Organization for Economic Co-operation and Development (OECD Governance Principles), "[t]he purpose of corporate governance is to help build an environment of trust, transparency and accountability necessary for fostering long-term investment, financial stability, and business integrity, thereby supporting stronger growth, and more inclusive societies."⁷⁸ As explained in the OECD Governance Principles, a governance framework should ensure strategic guidance, effective monitoring of management by the board, and the board's accountability to stakeholders.

One area of importance for boards is oversight of the organization's ERM. Such oversight includes accountability and responsibilities for managing risks, specifying the types and degree of risk that an organization is willing to tolerate, and the management of risks through operations and relationships. ERM is a governance issue that falls within the oversight responsibility of boards of directors.⁷⁹

⁷⁸ OECD, *G20/OECD Principles of Corporate Governance*, (2015). *The Principles* are presented in six different chapters. This document references two chapters: (1) Ensuring the basis for an effective corporate governance framework and (2) The responsibilities of the Board.

⁷⁹ Harvard Law School Forum on Corporate Governance and Financial Regulation, *Risk Management and the Board of Directors*, (March 20, 2018).

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The Federal Deposit Insurance Act⁸⁰ vests management of the FDIC in the FDIC Board. The FDIC Board consists of five members, all of whom are appointed by the President and confirmed by the Senate: the Comptroller of the Currency; the Director of the Consumer Financial Protection Bureau; and three “Appointive Directors,” including a Chairman and Vice Chairman.⁸¹ No more than three members of the Board may be from the same political party, and one member “shall have State bank supervisory experience.”⁸²

Although the FDIC Board may delegate certain powers to officers of the FDIC, the FDIC Board members should exercise oversight, remain informed about FDIC activities, and review financial statements.⁸³

Maturing Enterprise Risk Management

According to OMB Circular Number A-123, *Management's Responsibility for Enterprise Risk Management and Internal Control*,⁸⁴ Federal agencies face internal and external risks to achieving their missions, including “economic, operational, and organizational change factors.”⁸⁵ The OMB requires that Federal agencies implement ERM to assist agencies in identifying, assessing, and mitigating internal and external risks.

The OMB defines ERM as “an effective Agency-wide approach to addressing the full spectrum of the organization’s external and internal risks by understanding the combined impact of risks as an interrelated portfolio, rather than addressing risks only within silos.”⁸⁶ The components of ERM include a risk governance structure; a methodology for developing an agency’s risk profile; and a process, guided by an organizations senior leadership, to consider risk appetite and risk tolerance levels that serve as a guide for the agency to establish strategy and select objectives.

In June 2010, the FDIC hired a consulting firm to address five key issues regarding its ERM program. In response to the firm’s recommendations, the then-FDIC Chairman appointed a Risk Steering Committee to evaluate alternatives and recommend an organizational structure for risk management. The Risk Steering Committee recommended to the FDIC Board the establishment of an Office of Corporate Risk Management (OCRM), headed by a Chief Risk Officer (CRO), with total staffing of 16. The Board approved the recommended changes, which were intended to provide an office to review internal and external risks with a system-wide perspective; facilitate sharing of information regarding existing, emerging, and potential risks; and instill risk governance as part of the FDIC’s culture.

From 2011 to 2016, the ERM program was headed by a CRO who reported directly to the then-Chairman. In May 2016, the CRO retired, and only five ERM program staff remained at the

⁸⁰ 12 U.S.C. § 1812(a)(1) (2019).

⁸¹ 12 U.S.C. § 1812(a)(1) (2019); FDIC, *Bylaws of the FDIC*, (2018). Technically designated the Chairperson and Vice Chairperson in the statute and bylaws, it is longstanding FDIC practice to refer to the positions as Chairman and Vice Chairman.

⁸² 12 U.S.C. § 1812(a)(1) (2019).

⁸³ Bylaws of the Federal Deposit Insurance Corporation, Adopted by the Board of Directors, (September 17, 2019); Wyoming Law Review, *Director Oversight and Monitoring: The Standard of Care and the Standard of Liability Post-Enron*, (2006).

⁸⁴ OMB Circular No. A-123, *Management's Responsibility for Enterprise Risk Management and Internal Control*, (July 15, 2016).

⁸⁵ OMB Circular No. A-123, *Management's Responsibility for Enterprise Risk Management and Internal Control*, (July 15, 2016).

⁸⁶ OMB Circular No. A-123, *Management's Responsibility for Enterprise Risk Management and Internal Control*, (July 15, 2016).

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time. In June 2017, the FDIC reorganized the ERM program by placing the position of CRO under the Division of Finance as a Deputy Director, eliminating OCRM and moving the ERM function to a newly constituted Risk Management and Internal Controls Branch.

In October 2018, the FDIC revised its *Enterprise Risk Management and Internal Control Policy* (FDIC ERM Directive), which includes the ERM principles of OMB Circular Number A-123.⁸⁷ The FDIC ERM Directive vests the FDIC's Operating Committee with oversight of the ERM program, including "establishment of the agency's risk profile, regular assessment of risk, and development of appropriate risk response."⁸⁸ The Operating Committee includes senior-level officials, but it is not a decision-making body.

The FDIC ERM Directive instructs the CRO to work in partnership with FDIC Division and Office leaders to ensure enterprise-wide coordination, training, policy, and maintenance of ERM components (risk inventory, risk profile, and risk appetite statements). The FDIC ERM Directive states that implementation of ERM should facilitate efforts of the FDIC Board to identify, assess, and address risks. However, the FDIC ERM Directive does not envision an oversight role for the FDIC Board, nor does it describe regular reporting requirements or communications for the FDIC Board.

In our recent audit, [*The FDIC's Information Security Program—2019*](#) (October 2019), we found that the ERM program developed a risk appetite statement establishing the amount of risk the FDIC is willing to accept in pursuit of its mission. However, as of the time of our report, the FDIC had not yet completed an inventory of risks facing the FDIC, or a risk profile to help manage and prioritize risk mitigation activities.

Subsequent to our report, the FDIC completed a risk inventory and risk profile. FDIC management is in the process of integrating its ERM program into the FDIC's budget, strategic planning, performance reporting, and internal control processes. We have ongoing work evaluating the FDIC's ERM program to assess the extent to which the FDIC has implemented an effective ERM program consistent with guidance and best practices.

Operating Without a Full FDIC Board

The FDIC Board has been operating with four members since 2015. The Vice Chairman position on the FDIC Board of Directors has been vacant since April 30, 2018.⁸⁹ In addition, the FDIC has not had an independent Board member with "State bank supervisory experience" since 2012.⁹⁰ Nearly 80 percent of banks in the United States (approximately 4,400 institutions) are chartered by states, and the FDIC has authority to examine and supervise state-chartered banks that are not part of the Federal Reserve System.

On January 30, 2019, a bipartisan group of fifteen Members of the House of Representatives submitted a letter to the White House expressing concern that no current sitting FDIC Board

⁸⁷ FDIC Directive 4010.3, *Enterprise Risk Management and Internal Control Program* (2018). The FDIC is not required to follow OMB Circular No. A-123.

⁸⁸ FDIC Directive 4010.3, *Enterprise Risk Management and Internal Control Program* (2018).

⁸⁹ American Banker, *Pressure Grows on Administration to Fill Fed, FDIC Seats*, (November 3, 2019).

⁹⁰ Former Comptroller of the Currency Thomas Curry, who served on the FDIC Board until May 2017, was formerly the Massachusetts Banking Commissioner, but did not meet the statutory requirement for an independent Board member with supervisory experience. See American Banker, *FDIC Needs a State Regulator on Its Board*, (August 17, 2018).

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member satisfies the state banking supervisory experience requirement.⁹¹ The Congressional Members noted in the letter that state bank supervisory experience is important because both state and FDIC regulators share concurrent responsibility for the safety and soundness of certain state-chartered banks. Most state banking agencies participate in an examination program under which certain examinations are performed on an alternating basis by the state agency and the FDIC. The Members of Congress stated they believe that “having an FDIC Board member with state bank experience is an important part of that coordination.”

Overseeing Investment Decisions

In order to properly oversee investment decisions at the FDIC, the FDIC Board and senior managers should have quality data and processes. The FDIC awarded 2,400 contracts valued at more than \$1.5 billion over a 3-year period from 2016 to 2018. In our evaluation report, [Contract Oversight Management](#) (October 2019), we found that the FDIC was overseeing acquisitions on a contract-by-contract basis rather than on a portfolio basis and did not have an effective contracting management information system to readily gather, analyze, and report portfolio-wide contract information across the Agency. In addition, we found that the FDIC’s contracting system did not maintain certain key data in a manner necessary to conduct historical trend analyses, plan for future acquisition decisions, and assess risk in the FDIC’s awarded contract portfolio. As a result, FDIC Board members or other senior management officials were not provided with a portfolio-wide view or the ability to analyze historical contracting trends across the portfolio, identify anomalies, and perform ad hoc analyses to identify risk or plan for future acquisitions.

In our audit report, [The FDIC’s Governance of Information Technology Initiatives](#), (July 2018), we found that the FDIC faced a number of challenges and risks related to the governance of its IT initiatives. For example, the FDIC did not fully develop a strategy to move IT services and applications to the cloud or obtain the acceptance of key FDIC stakeholders before taking steps to initiate cloud migration projects. The FDIC also had not implemented an effective Enterprise Architecture to guide the three IT initiatives we reviewed or the FDIC’s broader transition of IT services to the cloud. The FDIC has taken action to address six of our eight recommendations and continues to work towards implementing the remaining two recommendations relating to: (1) revising IT Governance Processes into FDIC policies and procedures; and (2) identifying and documenting IT resources and expertise needed to execute the FDIC’s IT Strategic Plan.

The FDIC Board’s oversight of FDIC senior management is a critical component to promptly identifying, assessing, and responding to risks to the FDIC, and overseeing contracting activities and IT investment decisions.

⁹¹ The letter is available [here](#). Congressman Barry Loudermilk, Congressman Denny Heck, Congressman Peter King, Congressman Jim Hines, Congressman Frank Lucas, Congressman Scott Tipton, Congressman Tom Emmer, Congressman Steve Stivers, Congressman Lee Zeldin, Congressman Alex Mooney, Congressman Ted Budd, Congressman David Kustoff, Congressman Trey Hollingsworth, Congressman John Rose, and Congressman Denver Lee Riggleman III.

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6 | OVERSEEING HUMAN RESOURCES

The FDIC relies on the talents and skills of its employees to accomplish its mission. Within the next few years, the FDIC will need to navigate a potential wave of retirements, reverse attrition trends among its core examination workforce, and hire staff with skills to match technology innovation. Effective management of these challenges limits the impact of leadership and skill gaps, and the loss of institutional experience and knowledge due to retirements. The FDIC should position itself to recruit, retain, and develop future talent.

In March 2019, the GAO recognized strategic human capital management as a continuing Government-wide area of high risk.⁹² The GAO noted that 31.6 percent of the permanent Federal workforce on board as of September 30, 2017 would be eligible to retire within the next 5 years.⁹³ The GAO identified the need for Federal agencies to measure and address existing mission-critical skill gaps, and to use workforce analytics to predict and mitigate future gaps.⁹⁴ The GAO also identified five trends affecting the future Government workforce:

- (1) Technological advances that will change the way work is performed;
- (2) Increased reliance on contractors to achieve policy goals that will require new skills and competencies;
- (3) Fiscal constraints that will require agencies to review how they conduct business;
- (4) Evolving mission requirements that will require agencies to adapt their work and workforce; and
- (5) Changing demographics and shifting attitudes towards work.⁹⁵

Without careful attention to strategic and workforce planning and other approaches to managing and engaging personnel, reduced investments in human capital may have lasting effects on the capacity of an agency's workforce to meet its mission.⁹⁶

Forty-two percent of current FDIC employees (on board as of July 31, 2019) are eligible to retire within the next 5 years. These retirement figures include retirement eligibility of 60 percent for FDIC Executives and 58 percent for its Managers. Although historical FDIC projections show that employees may not retire on their eligibility date, this wave of potential retirements could deplete the FDIC's institutional experience and knowledge, especially during a crisis. Without proper succession planning strategies, these retirements can also result in leadership gaps.

Further, the FDIC's budget for 2019 marked the ninth consecutive year of lower annual staffing levels and operating budgets, reflecting the FDIC's reduced bank failure workload. The FDIC's authorized staffing level at the beginning of 2019 of 5,901 positions represented a net reduction of 182 positions from 2018 (approximately 3.1 percent) and the operating budget was reduced by 2.3 percent for the same period.

⁹² GAO, High-Risk Series: *Substantial Efforts Needed to Achieve Greater Progress on High-Risk Areas*, GAO-19-157SP, (March 2019).

⁹³ GAO, *Federal Workforce: Talent Management Strategies to Help Agencies Better Compete in a Tight Labor Market*, GAO-19-723T, (September 2019).

⁹⁴ GAO, High-Risk Series: *Substantial Efforts Needed to Achieve Greater Progress on High-Risk Areas*, GAO-19-157SP, (March 2019).

⁹⁵ GAO, *Federal Workforce: Key Talent Management Strategies for Agencies to Better Meet Their Missions*, GAO-19-181, (March 2019).

⁹⁶ GAO, *Federal Workforce: Key Talent Management Strategies for Agencies to Better Meet Their Missions*, GAO-19-181, (March 2019).

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Retirements and attrition can create opportunities for employees and allow organizations to restructure to meet program goals and fiscal realities. However, if turnover is not strategically monitored and managed, gaps can develop in an organization's institutional knowledge and leadership.⁹⁷

Navigating the Upcoming Retirement Waves in the FDIC's Primary Divisions

Approximately 91 percent of all FDIC employees work in one of the FDIC's nine primary and support Divisions. We analyzed the data regarding eligibility for retirement of the employees within these Divisions as illustrated in Table A. Based on our review, we found that 30 to 67 percent of the FDIC staff in these Divisions is eligible to retire in the next 5 years. Notably, all but one of the primary FDIC Divisions have retirement eligibility rates that are higher than the Federal Government average of 31.6 percent.

FDIC Executives and Managers in the nine Divisions have retirement eligibility rates ranging from 29 to 76 percent. For example, more than three-quarters of FDIC Executives and Managers within the Division of Finance (76 percent) are eligible to retire in the next 5 years. Similarly, 70 percent of Executives and Managers in the Division of Resolutions and Receiverships can retire in the same timeframe.

The 5-year retirement rates of Executive Managers and Corporate Managers could result in knowledge and leadership gaps at the FDIC. As recognized by the GAO, retirement waves may result in leadership gaps.⁹⁸ These mission-critical skills gaps could impede the capabilities of any agency to achieve its mission, unnecessarily delay decision-making, and reduce program management and oversight.⁹⁹

Table A: Retirement Eligibility Statistics for Key FDIC Divisions

Division	Staff Eligible to Retire in 2024	Executives and Managers Eligible to Retire in 2024
Division of Resolutions and Receiverships (DRR)	67 percent	70 percent
Division of Finance (DOF)	61 percent	76 percent
Legal Division	56 percent	44 percent
Division of Administration (DOA)	53 percent	57 percent
Division of Information Technology (DIT)	46 percent	52 percent
Division of Risk Management Supervision (RMS)	39 percent	63 percent
Division of Complex Institution Supervision & Resolutions (CISR)	35 percent	29 percent
Division of Depositor and Consumer Protection (DCP)	33 percent	51 percent
Division of Insurance and Research (DIR)	30 percent	39 percent

Source: OIG analysis of FDIC-provided data as of July 31, 2019.

⁹⁷ GAO, *Federal Workforce: Sustained Attention to Human Capital Leading Practices Can Help Improve Agency Performance*, GAO-17-627T, (May 2017).

⁹⁸ GAO, *High-Risk Series: Progress on Many High-Risk Areas, While Substantial Efforts Needed on Others*, GAO-17-317, (February 2017).

⁹⁹ Southern California Law Review, *Vacant Offices: Delays In Staffing Top Agency Positions*, (2008).

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The FDIC faces significant risks regarding retirement eligibility in key Divisions involved in crises readiness efforts. For example, two-thirds of FDIC employees within DRR are eligible to retire by 2024. DRR staff is responsible for managing resolutions and receiverships when banks fail, including ensuring the prompt payment of deposit insurance funds to eligible bank customers. During the financial crisis, the FDIC had the benefit of experienced DRR employees. Absent seasoned employees with knowledge from past crises, the FDIC may not be sufficiently agile and could delay decisions and resolution determinations.

DOF, the Legal Division, DOA, and DIT also play important roles to support DRR in a crisis situation when banks fail. These Divisions also face 5-year staff retirement eligibility rates ranging from 46 to 61 percent. DOF staff manages the liquidity of the Deposit Insurance Fund to ensure that money is available to DRR to pay depositors quickly in the event of a bank failure, and attorneys in the Legal Division assist DRR in structuring resolution agreements. DOA staff provides contracting support for DRR, including, for example, the rapid hiring of temporary personnel to address crisis staffing requirements, and DIT provides IT support for necessary computers and servers during bank failures and crises.

A significant number of employees responsible for ensuring the safety and soundness of institutions and protecting consumers are also eligible to retire. Specifically, 39 percent of RMS staff is eligible to retire within 5 years, and more than 62 percent of its Executives and Managers may retire over the same period. CISR similarly addresses supervisory and resolution risks for banks with over \$100 billion in assets. Staff in CISR has a 5-year retirement eligibility rate of 35 percent. In addition, DCP conducts examinations to ensure that banks meet certain requirements for consumer protection, anti-discrimination, and community reinvestment. Thirty-three percent of its staff is eligible to retire within 5 years, and 51 percent of its Executives and Managers may retire during this same timeframe. All supervision-related Divisions are supported by the banking-sector research and analysis performed by DIR, which has a retirement eligibility rate of 30 percent within the next 5 years.

The FDIC should continue to ensure that the institutional knowledge of retirement-eligible employees is captured and passed on to new employees. The FDIC has programs underway to review succession planning and we will monitor those efforts.

Navigating the Upcoming Retirement Wave in FDIC Regional Offices

The FDIC has six Regional Offices located throughout the country. Regional Offices include members from all FDIC Divisions, but the largest representation of employees is RMS examination staff. The FDIC faces risk due to staff retirement eligibility rates within each of its Regional Offices.

Similar to the above analysis regarding each of the FDIC Divisions, we also assessed the data regarding the eligibility for retirement of employees in the Regional Offices. Based on our analysis, as shown in Table B, we found that FDIC employees in these Regional Offices are eligible to retire in the next 5 years at rates ranging from 33 to 53 percent, and retirement rates for Executives and Managers range from 44 to 77 percent. For example, in the Dallas Regional Office alone, more than half of its staff is eligible to retire in the next 5 years, and more than three-quarters of its Executives and Managers can do the same.

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Table B: Retirement Eligibility Statistics for FDIC Regional Offices

Region	Staff Eligible to Retire in 2024	Executives and Managers Eligible to Retire in 2024
Dallas	53 percent	77 percent
New York	40 percent	44 percent
Atlanta	39 percent	47 percent
San Francisco	37 percent	58 percent
Chicago	36 percent	60 percent
Kansas City	33 percent	74 percent

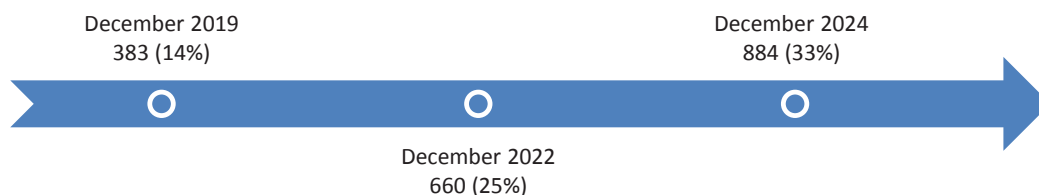
Source: OIG analysis of FDIC-provided data as of July 31, 2019.

Regional Office personnel are the critical interface between the FDIC and bank management. Regional Office examiners evaluate bank management's controls to maintain safety and soundness, mitigate cybersecurity risks, and minimize harm to consumers. Regional Office personnel also play a significant role during financial crises. The FDIC's Dallas Regional Office houses operational capabilities for large-scale bank failures, and it has among the highest rates of retirement eligibility at the FDIC.

Addressing Attrition Among FDIC Examiners

As of July 31, 2019, 47 percent of FDIC employees were classified as examiners. These examiners are deployed to four FDIC Divisions: RMS, DCP, DIR, and CISR, and to the FDIC's Corporate University.¹⁰⁰ As shown in Figure 3, at the end of 2019, 14 percent of examiners were eligible to retire. However, that number of retirement-eligible examiners jumps to 25 percent within 3 years (2022) and increases further to 33 percent (one-third of the examiner workforce) in 5 years (2024).

Figure 3: FDIC Examiner Retirement Eligibility



Source: OIG analysis of FDIC retirement data.

In addition, approximately 72 percent of all FDIC examiners are assigned to safety and soundness and IT examination positions within RMS. In 2018, 11 percent of RMS examiners resigned from their position, retired, or were promoted to non-examiners positions within the FDIC; this figure represents a 9-percent increase from the prior year. According to RMS surveys of managers of departing examiners, a significant portion of the attrition rate attributable to resigning examiners was dissatisfaction with the amount of travel required to conduct examinations. The FDIC has noted that safety and soundness examiners spent an average of 89 nights per year away from home, more than 24 percent of the year.¹⁰¹

¹⁰⁰ As of July 31, 2019, the FDIC's Corporate University had 142 employees training for examiner commissions. Examiners are assigned to Corporate University during their first year of training.

¹⁰¹ Statement of Jelena McWilliams, FDIC Chairman, on *Oversight of Financial Regulators* before the United States Senate Committee on Banking, Housing, and Urban Affairs, (December 5, 2019).

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Examiner attrition is costly. The FDIC invests an average of \$620,000 per person to train new hires to become commissioned examiners over the period of 4 years (an average of approximately \$155,000 annually per examiner).¹⁰² Historically, entry-level employees hired for examination positions must progress through the FDIC's Corporate Employee Program (CEP) rotational year, be assigned to a Division, and then meet benchmarks, complete training, and meet technical requirements to become commissioned examiners.¹⁰³

During the 4-year examiner pre-commissioning, the FDIC loses between 7 and 8 percent of participants each year at an average cost of about \$1.3 million per year. For example, according to RMS statistics, for the five CEP cohorts from 5 years ago (the class of 2014), 35 percent of participants departed before completion of the 4-year commissioning process.

In August 2019, the FDIC announced changes to its approach for recruiting, hiring, and training examiners. The planned changes are aimed at improving the process for hiring new examiners and reducing the time for an examiner to attain commission by 6 to 8 months. We have ongoing work to evaluate the FDIC's allocation and retention of human capital for the examination function.

The FDIC should also align its human capital strategy to meet the challenges of rapidly changing bank technology. Community banking is increasingly dependent on a model that relies on technology provided by third-party partners, such as credit bureaus and payment networks, but it also includes new customer-facing and back-office collaborators.¹⁰⁴ The FDIC should have examination staff that understands new technology in order to examine risks.

The FDIC should take a strategic approach to align its human capital management with current and future mission requirements, including technology changes. Addressing human capital holistically from planning through retirement allows the FDIC to maximize performance and manage the waves of retirements and attrition.

7 | KEEPING FDIC FACILITIES, INFORMATION, AND PERSONNEL SAFE AND SECURE

The FDIC is responsible for protecting approximately 6,000 employees and 3,000 contract personnel who work at 94 FDIC-owned or leased facilities throughout the country. The FDIC is also custodian of 338 systems containing sensitive information about banks and PII of employees, contractors, bank management, and bank deposit holders. A total of 174 of the FDIC's 338 IT systems contain what the agency deems to be "sensitive PII." The FDIC is challenged to have appropriate processes in place to safeguard facilities, information, and personnel.

According to the Worldwide Threat Assessment of the US Intelligence Community¹⁰⁵ (2018) (Threat Assessment), foreign intelligence agencies, terrorist groups, and criminal organizations strive to gain access to proprietary information from the finance industry and attempt to recruit sources such as trusted insiders.¹⁰⁶ According to Verizon's 2018 Data Breach Investigations

¹⁰² Average costs per examiner are based on RMS calculations for the five cohorts of new hires for 2014.

¹⁰³ The FDIC is eliminating the CEP program in 2020.

¹⁰⁴ Accenture, *Banking Technology Vision 2019*. Governor Michelle W. Bowman, *Community Banking in the Age of Innovation*, at the "Fed Family" Luncheon at the Federal Reserve Bank of San Francisco, San Francisco, California, (April 11, 2019).

¹⁰⁵ Statement for the Record: Worldwide Threat Assessment of the US Intelligence Community (February 13, 2018).

¹⁰⁶ Statement for the Record: Worldwide Threat Assessment of the US Intelligence Community (February 13, 2018).

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Report, one-third of all cyber breaches of government information is the result of privilege misuse and errors by insiders.¹⁰⁷ A Carnegie Mellon University paper entitled *Analytic Approaches to Detect Insider Threats* estimated the cost of an insider attack to be \$445,000.¹⁰⁸ With an average of 3.8 insider attacks per organization per year across all industries, annual costs to an organization can reach \$1.7 million.¹⁰⁹

According to the GAO, a background investigation program should ensure the identification and assessment of individuals with criminal histories and questionable behavior.¹¹⁰ Background investigations “minimize the risks of unauthorized disclosures of classified information and ... help ensure that information about individuals with criminal histories or other questionable behavior is identified and assessed.”¹¹¹

Also, Federal managers and supervisors are responsible for assessing facility risk, assigning facility security levels, and determining whether implemented countermeasures effectively mitigate risk.¹¹² Further, Federal agencies must protect the PII and sensitive information they possess. PII includes any information about an individual maintained by an agency, including (1) any information that can be used to distinguish or trace an individual’s identity, such as name, Social Security Number (SSN), date and place of birth, mother’s maiden name, or biometric records; and (2) any other information that is linked or linkable to an individual, such as medical, educational, financial, and employment information. PII protection includes information contained in IT systems as well as other forms. In March 2019, the GAO identified the protection of privacy and sensitive data as a major challenge for the Federal Government.¹¹³ As of June 2018, the FDIC reported that it maintained 338 information systems containing PII, including 174 systems that contain what the agency deems to be “sensitive PII.”

Implementing Risk-Based Physical Security Management

The FDIC maintains 94 leased or owned facilities across the country that house approximately 9,000 FDIC employees and contractors. In our evaluation report, [The FDIC’s Physical Security Risk Management Process](#) (April 2019), we assessed whether physical security risk management processes met Federal standards and guidelines. We concluded that the FDIC had not established an effective physical security risk management process to ensure that it met ISC standards and guidelines.

We found that the FDIC frequently did not document its decisions regarding facility security risks and countermeasures, and such decisions were not guided by defined policies or procedures. Instead, FDIC officials relied on a few experienced employees to make important decisions regarding physical security risks and countermeasures at facilities. Without documentation of

¹⁰⁷ Verizon, 2018 Data Breach Investigations Report, (11th Edition).

¹⁰⁸ Carnegie Mellon University Software Engineering Institute, *Analytic Approaches to Detect Insider Threats*, (December 9, 2015).

¹⁰⁹ Carnegie Mellon University Software Engineering Institute, *Analytic Approaches to Detect Insider Threats*, (December 9, 2015).

¹¹⁰ GAO, *High-Risk List: Substantial Efforts Need to Achieve Greater Progress on High-Risk Areas*, GAO-19-157SP, (March 6, 2019).

¹¹¹ GAO, *GAO Adds Government-wide Personnel Security Clearance Process to “High Risk List,”* GAO Press Release, (January 25, 2018).

¹¹² In 1995, President Clinton, by Executive Order 12977 (October 19, 1995), created the Interagency Security Committee (ISC) in order to issue standards, policies, and best practices to enhance the quality and effectiveness of security in non-military Federal facilities in the United States.

¹¹³ GAO, *High-Risk Series: Substantial Efforts Needed to Achieve Greater Progress on High-Risk Areas*, GAO-19-157SP, (March 6, 2019).

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these decisions, FDIC executives and oversight bodies were unable to fully consider and review the decisions.

We also found that the FDIC did not conduct key activities in a timely or thorough manner for determining facility risk level, assessing security protections in the form of countermeasures, mitigating and accepting risk, and measuring program effectiveness. For example, for one of its medium-risk facilities, the FDIC began, but did not complete, an assessment more than 2½ years after the FDIC occupied the leased space. Collectively, these weaknesses limited the FDIC's assurance that it met Federal standards for physical security over its facilities. We made nine recommendations to address the weaknesses in the FDIC's physical security risk management process, and five remained unimplemented at the time of this report.

Securing Sensitive and Personally Identifiable Information

During 2016, the FDIC reported a series of breaches to Congress as departing employees improperly downloaded sensitive PII, including SSNs, to removable media devices shortly before leaving the FDIC. Collectively, these breaches potentially affected over 121,000 individuals. We reported on the FDIC's handling of these breaches and its associated controls in four prior reports.¹¹⁴ In our audit report, [*The FDIC's Processes for Responding to Breaches of Personally Identifiable Information*](#) (September 2017), we found that the FDIC had processes to evaluate the harm to individuals affected by a breach, but the FDIC did not adequately implement those processes. For example, it took the FDIC more than 9 months to notify individuals affected by a breach. Further, in our [*OIG Special Inquiry*](#)¹¹⁵ (April 2018) report we noted systemic weaknesses that hindered the FDIC's ability to respond to multiple information security incidents and breaches efficiently and effectively. The FDIC addressed the 20 recommendations we made in these two reports.

In our audit report, [*The FDIC's Privacy Program*](#) (December 2019), we assessed the effectiveness of the FDIC's Privacy Program and practices by determining whether the FDIC complied with selected provisions in privacy-related statutes and OMB policy and guidance.¹¹⁶ The FDIC's Privacy Program was effective in certain areas. Specifically, the FDIC had implemented a privacy awareness and training program; identified its privacy staffing and budgetary needs; established privacy competency requirements for key staff; and took steps to ensure contractor compliance with privacy programs. However, we found that the FDIC's controls and practices for its Privacy Program in four areas assessed were either partially effective or not effective, because they did not comply with all relevant privacy laws and/or OMB policy and guidance. Specifically, the FDIC did not:

¹¹⁴ See OIG Reports, [*The FDIC's Process for Identifying and Reporting Major Information Security Incidents*](#) (FDIC OIG AUD-16-004) (July 2016, revised February 2017); [*The FDIC's Processes for Responding to Breaches of Personally Identifiable Information*](#) (FDIC OIG AUD-17-006) (September 2017); [*Controls over Separating Personnel's Access to Sensitive Information*](#) (FDIC OIG EVAL-17-007) (September 2017); and [*The FDIC's Response, Reporting, and Interactions with Congress Concerning Information Security Incidents and Breaches*](#) (FDIC OIG-18-001) (April 2018).

¹¹⁵ *OIG Special Inquiry Report, The FDIC's Response, Reporting, and Interactions with Congress Concerning Information Security Incidents and Breaches* (April 2018).

¹¹⁶ Privacy Act of 1974, 5 U.S.C. § 552a; Section 208 of the E-Government Act of 2002, Pub. L. No. 107-347, 116 Stat. 2899 (codified at 44 U.S.C. § 3501 note); Section 522 of the Consolidated Appropriations Act of 2005, Pub. L. No. 108-447, 118 Stat. 2809, amended by Consolidated Appropriations Act of 2008, Pub. L. No. 110-161, 121 Stat. 1844 (codified as amended at 42 U.S.C. § 2000ee-2); *Designation of Senior Agency Officials for Privacy* (OMB Memorandum M-05-08) (February 11, 2005); OMB Circular A-130, *Managing Information as a Strategic Resource* (July 28, 2016).

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- Fully integrate privacy considerations into its risk management framework designed to categorize information systems, establish system privacy plans, and select and continuously monitor system privacy controls;
- Adequately define the responsibilities of the Deputy Chief Privacy Officer or implement Records and Information Management Unit responsibilities for supporting the Privacy Program;
- Effectively manage or secure PII stored in network shared drives and in hard copy, or dispose of PII within established timeframes; and
- Ensure that Privacy Impact Assessments¹¹⁷ were always completed, monitored, published, and retired in a timely manner.

Weaknesses in the FDIC's Privacy Program increased the risk of PII loss, theft, and unauthorized access or disclosure, which could lead to identity theft or other forms of consumer fraud against individuals. In addition, weaknesses related to the management of Privacy Impact Assessments reduced transparency regarding the FDIC's practices for handling and protecting PII. Our report contained 14 recommendations intended to strengthen the effectiveness of the FDIC's Privacy Program and practices.

In addition, in our audit report, [*The FDIC's Information Security Program – 2019 \(October 2019\)*](#), we noted that the FDIC did not adequately control access to sensitive information and PII stored on its internal network and in hard copy. For example, we identified instances in which sensitive information stored on internal network shared drives was not restricted to authorized users. We also conducted unannounced walkthroughs of selected FDIC facilities and identified significant quantities of sensitive hard copy information stored in unlocked filing cabinets and boxes in building hallways.

The majority of unsecured sensitive information we found was stored in unlocked filing cabinets and boxes in building hallways. Examples included:

- Confidential bank examination information, such as Reports of Examination;
- Suspicious Activity Reports;
- Sensitive PII, such as reports containing names, SSNs, and dates of birth;
- Legal documents, analyses, and correspondence pertaining to investigations, litigation, claims, and settlements;
- Portable storage media, including a computer hard drive and CDs/DVDs (one of which was marked confidential); and
- Contracting and procurement sensitive information.

We recommended that employees and contractor personnel properly safeguard sensitive electronic and hardcopy information. The FDIC took immediate action to secure information identified by the OIG.

¹¹⁷ The E-Government Act of 2002 requires, among other things, that Federal agencies conduct Privacy Impact Assessments that analyze how personal information is collected, stored, shared, and managed in a Federal system. See Government Accountability Office, *Privacy: Federal Law Should Be Updated to Address Changing Technology Landscape*, GAO-12-961T, (July 31, 2012).

OFFICE OF INSPECTOR GENERAL'S ASSESSMENT (continued)

Securing the FDIC's Supply Chain

According to the GAO, the supply chain is “the set of organizations, people, activities, and resources that create and move a product from suppliers to end users.”¹¹⁸ As shown in Figure 4, an organization may have reduced visibility, understanding, and control of relationships with vendors who rely on second- and third-tier suppliers and service providers. Risks are realized when the supply chain exploits existing vulnerabilities though it may take years for such exploitation to occur or for an agency to discover the exploitation.¹¹⁹

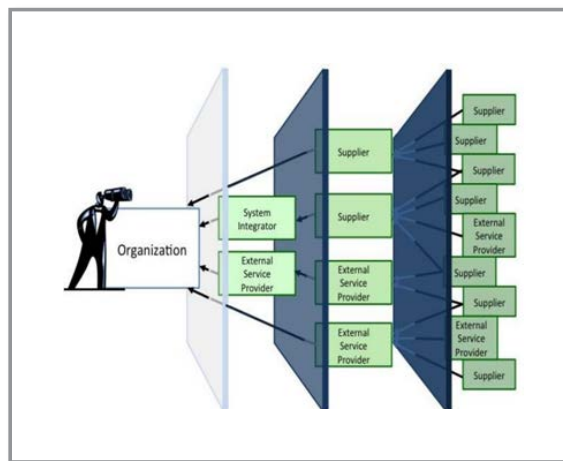
The GAO noted that key supply chain threats include:

- **Installation of hardware or software containing malicious logic** causing significant damage by allowing attackers to take control of entire systems and read, modify, or delete sensitive information, disrupt operations, launch attacks against other organizations' systems, or destroy systems.
- **Installation of counterfeit hardware or software** threatening the integrity, trustworthiness, and reliability of information systems because they fail more often and more quickly, and provide an opportunity to insert a back door to give an intruder remote access.
- **Failure or disruption in the production or distribution of critical products**, including manmade and natural disruptions of the supply of IT products critical to federal agencies.
- **Reliance on a malicious or unqualified service provider** who can use its access to systems and data to gain access to information, commit fraud, disrupt operations, or launch attacks against other computers or networks.
- **Installation of hardware or software that contains unintentional vulnerabilities** such that defects in code or misconfigurations can be exploited to gain access to information systems and data and disrupt service.¹²⁰

An example of supply chain risk is the Federal Government's limitation on the purchase of telecommunications equipment from Huawei because of concern that the Chinese government can access phone calls and information.¹²¹

The FDIC does not have a comprehensive, FDIC-wide supply chain risk policy. The FDIC's Chief Information Officer Organization (CIOO) established a *Policy on Supply Chain Risk Management* in July 2019 that applies to CIOO employees who “participate, support, and are involved with the procurement and acquisition process of IT products.” Other FDIC Divisions and Offices are not bound by and may not be aware of the CIOO Policy. The FDIC established a Supply Chain Risk Management Steering Committee in 2019 to address this area of risk. We have work planned to assess the FDIC's supply chain risk mitigation.

Figure 4: Supply Chain Risk View



Source: NIST Publication 800-161, *Supply Chain Risk Management Practices for Federal Information Systems and Organizations*.

¹¹⁸ GAO, *Information Security: Supply Chain Risks Affecting Federal Agencies*, GAO-18-667T, (July 12, 2018).

¹¹⁹ National Institute of Standards and Technology (NIST) Publication 800-161, *Supply Chain Risk Management Practices for Federal Information Systems and Organizations*.

¹²⁰ GAO, *Information Security: Supply Chain Risks Affecting Federal Agencies*, GAO-18-667T, (July 12, 2018).

¹²¹ The New York Times, *U.S. Moves to Ban Huawei From Government Contracts*, (August 7, 2019).

OFFICE OF INSPECTOR GENERAL'S ASSESSMENT (continued)

Sustaining a Work Environment Free from Discrimination, Harassment, and Retaliation

Federal facilities should also have working environments that are free from intimidating, hostile, or offensive behaviors. Employee behaviors such as sexual harassment can undermine an agency's mission by creating a hostile work environment that lowers productivity and morale, affects the agency's authority and credibility, and exposes the agency to litigation risk and costs.

The FDIC reported receiving a total of just 9 allegations of sexual harassment over a 3½-year period (January 2015 to June 2018). However, when the Merit Systems Protection Board (MSPB) conducted a survey in 2016 (based on data from 2014 to 2016), the MSPB found that approximately 9 percent of the 427 FDIC employees who responded to the survey (40 employees) indicated they had experienced sexual harassment. We have ongoing work to review the FDIC's program for addressing sexual harassment allegations.

Conducting Background Investigations

During late 2015 and early 2016, the FDIC experienced eight incidents as departing employees improperly took sensitive information shortly before leaving the FDIC. Seven incidents involved PII, including Social Security Numbers, and thus constituted data breaches. In the eighth incident, the departing employee took highly sensitive components of resolution plans submitted by certain large systemically important financial institutions without authorization.

FDIC employees and contractors are subject to background investigations commensurate with the sensitivity of their positions, scope of responsibility, and access to classified National Security Information.¹²² The FDIC's Personnel Security and Suitability Program (PSSP) aims to ensure that FDIC employees and contractors have suitable character, reputation, honesty, integrity, and trustworthiness. A strong PSSP reduces the risk of employee or contractor information breaches and identifies potential issues for the FDIC's Insider Threat Program.¹²³

The FDIC does not have a policy to ensure proper coordination and collaboration among its PSSP and its Insider Threat Program. As a result, program interconnections are made at the discretion of program personnel. Absent standard criteria for the referral of potential insider threat issues from the PSSP to the Insider Threat Program Manager, threat information may not be shared. We have an evaluation underway to assess the current state of the FDIC's Personnel Security and Suitability Program.

The protection of employees, contractors, facilities, and information is paramount for the execution of the FDIC's mission and the protection of the privacy of FDIC personnel and contractors as well as financial institution customers and employees. The FDIC should ensure that it implements appropriate controls to assess the suitability of its employees and contractors and provide them with safe facilities in which to conduct their work. FDIC employees and contractors must also be responsible in protecting sensitive information and individual privacy.

¹²² FDIC Circular 1610.2, *Personnel Security Policy and Procedures for FDIC Contractors*; Circular 1600.3, *National Security Program*; and Circular 2120.1, *Personnel Suitability Program*.

¹²³ Security Executive Agent Directive 3, *Reporting Requirements for Personnel with Access to Classified Information or Who Hold a Sensitive Position*, (June 12, 2017).

OFFICE OF INSPECTOR GENERAL'S ASSESSMENT (continued)

8 | ADMINISTERING THE ACQUISITION PROCESS

The FDIC relies on contractors for day-to-day support of its mission. In 2018, the FDIC spent nearly \$500 million on contracts, with the largest expenditures for IT and administrative support services. The FDIC currently oversees acquisitions on a contract-by-contract basis—rather than on a portfolio-wide basis—and it does not have an effective contracting management information system to readily gather, analyze, and report portfolio-wide contract information across the Agency and does not maintain certain key data elements. Therefore, FDIC officials cannot readily analyze historical contracting trends across the portfolio and identify anomalies. In addition, contracting demands are expected to increase as the FDIC modernizes its IT program and systems and moves to cloud computing. Further, FDIC contracting staff may experience significant spikes in contracting work during periods of crises. FDIC contract oversight should also include consideration of supply chain risks for acquired products and services.

According to the GAO, about 40 percent of the Government's discretionary spending is for goods and services contracts.¹²⁴ In Fiscal Year 2018, the Federal Government spent more than \$550 billion on these contracts, an increase of more than \$100 billion from 2015. The Administration found that major government acquisitions often failed to achieve their goals because of project management skill shortcomings among Federal procurement staff.¹²⁵ Similarly, the GAO found that Federal agencies continue to award management support service contracts but raised questions about agencies' capacity to manage those contracts.¹²⁶ Specifically, the GAO identified three challenges aligned with the contracting life cycle: (1) requirements definition, (2) competition and pricing, and (3) contractor oversight. The GAO noted that heavy workloads of contract officials at one agency made it difficult for them to oversee contracts and ensure contractors' adherence to contract terms.¹²⁷

The FDIC procures goods and services to augment its internal resources and help the Agency achieve its mission. FDIC contracting requirements increase significantly during times of crises to address the FDIC's receivership responsibilities. The FDIC DOA Acquisition Services Branch (ASB) works with Oversight Managers (OMs) from FDIC Divisions and Offices to provide oversight of FDIC procurements. As shown in Figure 5, ASB awarded more than 2,400 contracts valued at over \$1.5 billion over a 3-year period from 2016 to 2018. The average annual awarded amount per contract for these 3 years was more than \$675,000.

¹²⁴ GAO WatchBlog, Federal Government Contracting for Fiscal Year 2018 (infographic) posted May 28, 2019. GAO launched its WatchBlog in January 2014, as part of its continuing effort to reach its audiences—Congress and the American people—where they are currently looking for information.

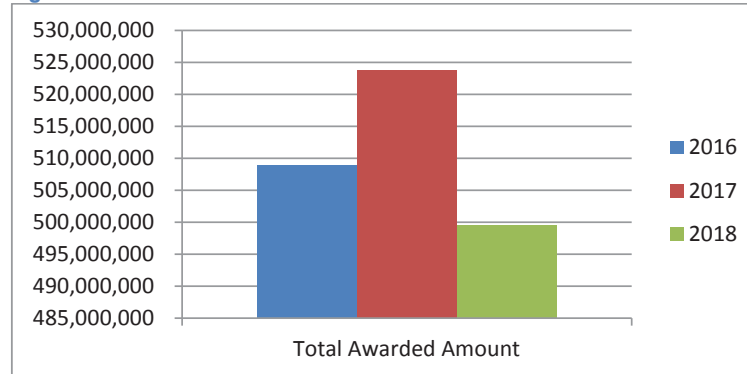
¹²⁵ President's Management Agenda, (March 20, 2018).

¹²⁶ GAO, *Federal Acquisitions: Congress and the Executive Branch Have Taken Steps to Address Key Issues, but Challenges Endure*, GAO-18-627, (September 2018).

¹²⁷ GAO, *Federal Acquisitions: Congress and the Executive Branch Have Taken Steps to Address Key Issues, but Challenges Endure*, GAO-18-627, (September 2018) (Heavy workloads were noted for the Department of Veterans Affairs.)

OFFICE OF INSPECTOR GENERAL'S ASSESSMENT (continued)

Figure 5: FDIC Total Dollar Value of Contract Awards 2016-2018



Source: FDIC Analysis of FDIC Contract Awards.

In 2018, the FDIC's DIT, DOA, and DRR accounted for over 96 percent of contracts and contracting dollar awards. The Chief Information Officer Organization identified specific acquisition strategies to sustain legacy systems, modernize information technology, and adapt to change. DIT expects to increase contracting activity as it implements the FDIC's *IT Modernization Plan*.

Strengthening FDIC Contract Oversight

Our evaluation report, [Contract Oversight Management](#) (October 2019), concluded that the FDIC must strengthen its contract oversight management. We found that the FDIC needed to improve its contracting management information system, contract documentation, the training and certification of certain OMs, and workload capacity of OMs for one Division.

Specifically, we found that the FDIC was overseeing acquisitions on a contract-by-contract basis rather than on a portfolio basis and did not have an effective contracting management information system to readily gather, analyze, and report portfolio-wide contract information across the Agency. For example, the FDIC's contracting system did not maintain certain key data in a manner necessary to conduct historical trend analyses, plan for future acquisition decisions, and assess risk in the FDIC's awarded contract portfolio. As a result, FDIC Board Members and other senior management officials were not provided with a portfolio-wide view or the ability to analyze historical contracting trends across the portfolio, identify anomalies, and perform ad hoc analyses to identify risk or plan for future acquisitions.

Additionally, 20 percent of the contracts executed between 2013 and 2017 (1,518 of 7,786) did not have contract pricing arrangement information entered into the FDIC's Automated Procurement System. Without complete data, the FDIC cannot readily analyze the contract pricing arrangements across the FDIC's contract portfolio.

We also found that contract files maintained by OMs were often incomplete, and that OMs were unable to produce the missing contract documentation, such as critical records relating to inspection and acceptance. Without this documentation, the FDIC could incur additional costs to recover or replace lost documentation and could have difficulty enforcing the contract in the event of contractor noncompliance.

Further, OMs improperly uploaded contractor deliverable documentation containing PII to the FDIC's contracting system known as CEFile for one of our four sampled contracts covering

OFFICE OF INSPECTOR GENERAL'S ASSESSMENT (continued)

property management services for failed bank properties. Because CEFile was not identified as a system to retain PII, the FDIC was not monitoring CEFile for PII. Therefore, there was a risk that the PII in CEFile could be improperly accessed, printed, and removed. The FDIC subsequently took action to remove the PII from CEFile.

We also found that the workload for OMs in DIT was 67-percent higher than another FDIC Division with a similar-sized contract portfolio. DIT acknowledged that insufficient OM capacity put it at risk for ineffective oversight. We made 12 recommendations in the *Contract Oversight Management* report.

In two previous OIG evaluation reports, we identified similar issues involving DIT oversight.

- In [Payments to Pragmatics, Inc.](#) (December 2018), we determined that about 10 percent of the labor charges we reviewed were not adequately supported or allowable under the contract and related task orders. The unsupported labor charges were for hours billed by two subcontractor employees who did not access the FDIC's network or facilities on the days they charged the hours. In addition, we identified unallowable labor charges for work performed offsite, away from FDIC facilities.
- In the [FDIC's Failed Bank Data Services Project](#) (March 2017), we reviewed transition costs (\$24.4 million) of a 10-year project to replace the FDIC's information systems for processing bank data for failed financial institutions. We found that the FDIC faced challenges related to defining contract requirements, coordinating contracting and program office personnel, and establishing implementation milestones. We reported that FDIC personnel did not fully understand the requirements for transitioning failed financial institution data and services to a new contractor, or communicate these requirements to bidders in a comprehensive transition plan as part of the solicitation. Further, the FDIC did not establish clear expectations in the contract documents and did not implement a project management framework and plans.

Reviewing for Supply Chain Risk

When an agency contracts for goods and services that will be introduced into its environment, the agency might encounter risks related to product and service supply chains. Management of supply chain risk requires “ensuring the integrity, security, quality, and resilience of the supply chain and its products and services.”¹²⁸

Supply chain risk is not limited to equipment. Contractor personnel also pose security risks to organizations, especially contractors involved in systems development. Contractors with malicious intent may be able to insert harmful hardware or malicious code into FDIC systems.

NIST advises organizations to take a holistic, enterprise-wide approach to managing supply chain risks.¹²⁹ Organizational best practices include executive-level involvement in supply chain risk management decision-making and cross-functional leadership structures to break down silos. In addition, as required by statute, OMB has initiated a Federal Acquisition Security

¹²⁸ NIST, [Cyber Supply Chain Risk Management](#), (May 24, 2016).

¹²⁹ NIST Special Publication 800-161, [Supply Chain Risk Management for Federal Information Systems and Organizations](#), (April 2015).

OFFICE OF INSPECTOR GENERAL'S ASSESSMENT (continued)

Council to assist Federal agencies in determining supply chain risk, sharing supply chain risk information, and deciding on actions to mitigate risk.¹³⁰

As mentioned previously, the FDIC does not have a comprehensive, FDIC-wide supply chain risk policy. The FDIC's CIOO has a supply chain risk policy applicable to CIOO IT procurements. Thus, FDIC personnel outside the CIOO are not currently required to consider or mitigate supply chain risks as part of procurement activities.

Further, the responsibility of managing FDIC supply chain risk is not within the FDIC's contracting staff but is a collateral duty for the FDIC's Insider Threat Program Manager. As a result, supply chain risk management is not the focus of those involved in the contracting process. The FDIC established a Supply Chain Risk Management Steering Committee in 2019 to address this area of risk. We will be monitoring and assessing the FDIC's efforts in this regard.

Contracting is an important function at the FDIC because of the Agency's reliance on outsourced services, especially during times of crises. In order to establish an effective contracting oversight program, the FDIC should maintain a contracting system that can readily provide an adequate portfolio-wide view of the Agency's acquisitions. In addition, the FDIC should establish an effective program to manage and mitigate supply chain risks.

9 | MEASURING COSTS AND BENEFITS OF FDIC REGULATIONS

Financial regulations significantly affect banks and their customers. The FDIC does not currently have a consistent process in place to determine when and how to conduct cost benefit analysis in order to ensure that the benefits of a regulation justify its costs. Further, the FDIC does not have criteria in place to distinguish among rules which are sufficiently "significant" to require cost benefit analysis. Absent clear processes and criteria, demonstrating that FDIC regulations justify their costs remains a fundamental challenge. We also note that the FDIC does not conduct retrospective cost benefit analyses on existing rules. Performing such analyses would help the FDIC ensure that its rules are effective and achieve their intended objectives/outcomes.

According to a study by the Federal Reserve Bank of St. Louis, regulatory compliance costs as a percentage of overall non-interest expense for small banks are nearly twice those of larger banks.¹³¹ As shown in Figure 6, for the years of 2015 through 2017, small banks (less than \$100 million in assets) incurred total compliance costs at 9.8 percent of their noninterest expenses. By comparison, banks with \$1 to \$10 billion in assets had compliance costs at 5.3 percent of their noninterest expenses for the same period.

¹³⁰ Director of National Intelligence, *Supply Chain Risk Management*, National Supply Chain Integrity Month, (April 24, 2019). See also The Strengthening and Enhancing Cyber-capabilities by Utilizing Risk Exposure Technology Act of 2018, Public Law No. 115-390 (December 21, 2018) ("SECURE Technology Act"). Title II of the Act established the Federal Acquisition Security Council (FASC).

¹³¹ Federal Reserve Bank of St. Louis, *Compliance Costs, Economies of Scale and Compliance Performance, Evidence from a Survey of Community Banks*, (April 2018).

OFFICE OF INSPECTOR GENERAL'S ASSESSMENT (continued)

In August 2018, the FDIC Chairman stated that a top priority for the Agency was to review the regulatory burden on small banks.¹³² She further emphasized the need to balance regulatory safety and soundness requirements without impeding banks' ability to compete. The challenge, she indicated, is to ensure that FDIC regulations are appropriate to the size and complexity of the banks that the FDIC supervises.¹³³

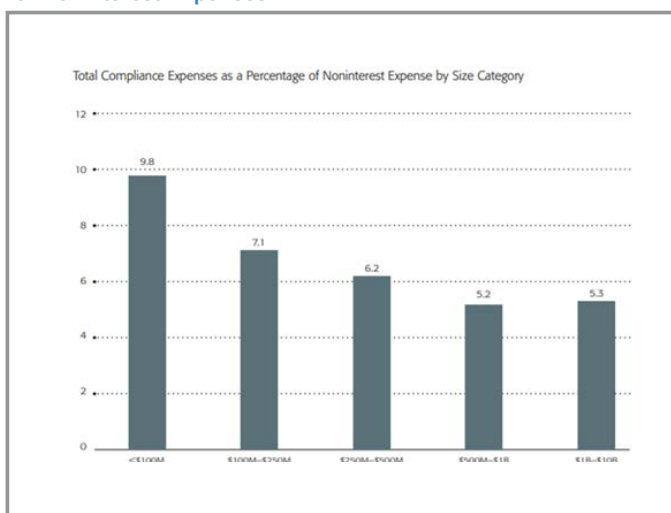
Quantifying Costs and Benefits

According to the *FDIC's Statement of Policy on the Development and Review of Regulations and Policies*, the FDIC uses available information to evaluate the costs and benefits of reasonable and potential regulations or statements of policy. Quantifying both the costs and benefits of significant financial regulations is challenging, and it often may be imprecise and unreliable.¹³⁴ Performing such analysis can be difficult, because it involves theory, modeling, statistical analysis, and other tools to predict future outcomes based on certain assumptions.¹³⁵ For example, it may be difficult to estimate the cost of a financial crisis and the benefits of regulations aimed to eliminate the crisis.¹³⁶ Congress acknowledged the difficulty in measuring costs and benefits when introducing the Independent Agency Regulatory Analysis Act (March 25, 2019). This Act requires agencies to "assess the costs and benefits of the intended rule and, recognizing that some costs and benefits are difficult to quantify, propose or adopt a rule only upon a reasoned determination that the benefits of the rule justify the costs."¹³⁷

In our evaluation report, [Cost Benefit Analysis Process for Rulemaking](#) (February 2020), we evaluated whether the FDIC's cost benefit analysis process for rules was consistent with best practices. We found that the FDIC's cost benefit analysis was not consistent with best practices, because the FDIC did not:

- Establish and document a process to determine when and how to perform a cost benefit analysis;
- Leverage the expertise of its economists when rules were initially developed;
- Require the FDIC Chief Economist to concur on the cost benefit analyses performed;
- Disclose its cost benefit analyses to the public; and
- Perform cost benefit analyses after final rule issuance.

Figure 6: Total Compliance Expenses as a Percentage of Noninterest Expenses



Source: Federal Reserve Bank of St. Louis, April 2018.

¹³² Wall Street Journal, *New FDIC Leader Joins Push to Re-Evaluate Banking Rulebook*, (August 6, 2018).

¹³³ Jelena McWilliams, FDIC Chairman, "Principles of Supervision," delivered at the American Bar Association Banking Law Committee Annual Meeting (January 11, 2019).

¹³⁴ Yale Law Review, *Cost-Benefit Analysis of Financial Regulation: A Reply*, (January 22, 2015).

¹³⁵ Congressional Research Service, *Cost-Benefit Analysis and Financial Regulator Rulemaking*, (April 12, 2017).

¹³⁶ The University of Chicago Journal of Legal Studies, *Challenges for Cost-Benefit Analysis of Financial Regulation*, (June 2014).

¹³⁷ *Independent Agency Regulatory Analysis Act*, S. 869, United States Senate, (March 26, 2019).

OFFICE OF INSPECTOR GENERAL'S ASSESSMENT (continued)

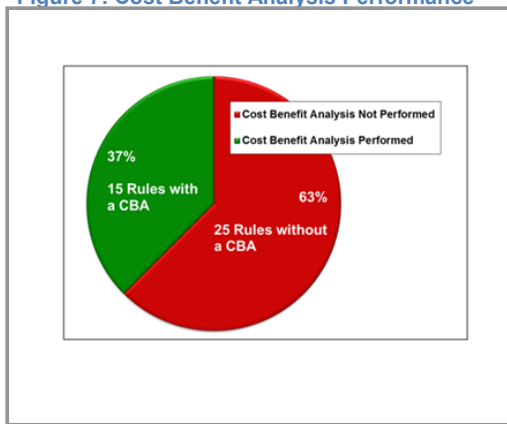
The FDIC's rulemaking process resulted in inconsistent practices for conducting cost benefit analyses. As shown in Figure 7, based on our review of rules promulgated by the FDIC from January 2016 to December 2018, we found that the FDIC performed cost benefit analyses on 37 percent of the final rules published in the Federal Register. The FDIC did not explain in the accompanying Federal Register notices why 15 rules needed a cost benefit analysis and the other 25 rules did not. These rules lacking a cost benefit analysis included both substantive rules and technical modifications.

The FDIC also did not have an established process for determining how to perform cost benefit analyses. Based on our review, we found that the FDIC performed an in-depth cost benefit analysis¹³⁸ on only 10 percent of the final rules published in the Federal Register.

In addition, the depth of analysis that the FDIC performed did not always align with the rule's degree of significance.¹³⁹ We found substantive rules without corresponding cost benefit analyses, and less substantive rules with cost benefit analyses. The process used by the FDIC did not ensure that the Agency identified and defined a proposed rule's degree of significance, and that the Agency appropriately and consistently analyzed costs and benefits.

We also noted that the FDIC did not conduct retrospective cost benefit analyses on existing rules.¹⁴⁰ Without performing cost benefit analyses of existing rules, the FDIC may not identify duplicative, outdated, or overly burdensome rules in a timely manner. In addition, the FDIC may not ensure that its rules are effective and achieve their intended objectives/outcomes. We made five recommendations to the FDIC to improve the cost benefit analysis in its rulemaking process.

Figure 7: Cost Benefit Analysis Performance



Source: OIG analysis of FDIC rules published in the Federal register.

¹³⁸ The OIG defines an "in-depth" cost benefit analysis as a cost benefit analysis that contains supporting quantitative and qualitative data and analysis of the proposed action and main alternatives identified.

¹³⁹ Executive Order 12866 advises Federal agencies, not including the FDIC, to conduct in-depth cost benefit analyses for certain significant regulatory actions. The order defines significant regulatory action as any regulatory action that is likely to result in a rule that may: (1) have an annual effect on the economy of \$100 million or more, or adversely affect in a material way the economy, or a sector of the economy, productivity, competition, jobs, the environment, public health or safety, or State, local, or tribal governments or communities; (2) Create a serious inconsistency or otherwise interfere with an action taken or planned by another agency; (3) Materially alter the budgetary impact of entitlements, grants, user fees, or loan programs or the rights and obligations of recipients thereof; or (4) Raise novel legal or policy issues arising out of legal mandates, the President's priorities, or the principles set forth in this order.

¹⁴⁰ Under the Economic Growth and Regulatory Paperwork Reduction Act of 1996 (EGRPRA) (12 U.S.C. § 3311 (1996)), the FFIEC and certain member agencies (Federal bank regulators – FDIC, OCC, and FRB), and the NCUA (as a participating member), are directed to conduct a joint review of their regulations every 10 years and to consider whether any of those regulations are outdated, unnecessary, or unduly burdensome. Since Congress enacted EGRPRA in 1996, the FDIC (jointly with other agencies under the FFIEC) has completed two reviews and submitted two reports to Congress – the first report was submitted in 2007 and the second report was submitted in 2017. The FDIC performed these reviews over a period of several years, and commenced the second EGRPRA review in 2014. The FDIC's EGRPRA review process was a reactive review process that relied solely on public comments to identify and initiate Agency action on rules that may be outdated, unnecessary, or unduly burdensome.

OFFICE OF INSPECTOR GENERAL'S ASSESSMENT (continued)

On December 3, 2019, the FDIC issued a Request for Information seeking comment on approaches to analyzing the effects of its regulatory actions and alternatives. In addition, on November 4, 2019, the FDIC announced a reorganization that moved the regulatory analysis function from the Office of the Chief Economist to the Research and Regulatory Analysis Branch, which also houses the FDIC's Center for Financial Research. We will continue to monitor this realignment.

The FDIC should accurately measure costs and benefits to ensure that regulations strike the proper balance between the safety and soundness at institutions and regulatory burden. Also, the FDIC should have transparent processes in place to obtain and assess reliable information to measure the impact of regulatory action. Absent such processes, FDIC rules may impose burdensome costs on banks and consumers.

D. ACRONYMS AND INITIALISMS

ACLs	Allowances for Credit Losses	CIO	Chief Information Officer
AEI	Alliance for Economic Inclusion	CIOO	Chief Information Officer Organization
AFS	Available-For-Sale	CISR	Division of Complex Institution Supervision and Resolution
AHDP	Affordable Housing Disposition Program	CMG	Crisis Management Group
ALLL	Allowance for Loan and Lease Losses	CMP	Civil Money Penalty
AML	Anti-Money Laundering	ComE-IN	Advisory Committee on Economic Inclusion
ANPR	Advanced Notice of Proposed Rulemaking	CRA	Community Reinvestment Act
ASBA	Association of Supervisors of Banks of the Americas	CSBS	Conference of State Bank Supervisors
ASC	Accounting Standards Codification	CSRS	Civil Service Retirement System
BCBS	Basel Committee on Banking Supervision	D&I	Diversity and Inclusion
BDC	Backup Data Center	DCP	Division of Depositor and Consumer Protection
BoA	Bank of America	DFA	Dodd-Frank Act
BSA	Bank Secrecy Act	DHS	Department of Homeland Security
BSA/AML	Bank Secrecy Act/ Anti-Money Laundering	DIF	Deposit Insurance Fund
Call Report	Consolidated Reports of Condition and Income	DIR	Division of Insurance and Research
CAMELS	adequacy of Capital, quality of Assets, capability of Management, quality and level of Earnings, adequacy of Liquidity, and Sensitivity to market risk	DIT	Division of Information Technology
CBAC	Advisory Committee on Community Banking	DOA	Division of Administration
CBLR	Community Bank Leverage Ratio	DOJ	Department of Justice
CCP	Central Counterparties	DRR	Designated Reserve Ratio
CDFI	Community Development Financial Institution	DRR (FDIC)	Division of Resolutions and Receiverships
CECL	Current Expected Credit Losses	EAC	Executive Advisory Council
CEO	Chief Executive Officer	EDIE	Electronic Deposit Insurance Estimator
CEP	Corporate Employee Program	EGRPRA	Economic Growth and Regulatory Paperwork Reduction Act of 1996
CFI	Complex Financial Institution	EGRRCPA	Economic Growth, Regulatory Relief, and Consumer Protection Act
CFO Act	Chief Financial Officers' Act	EU	European Union
CFPB	Consumer Financial Protection Bureau	ERM	Enterprise Risk Management
CFR	Center for Financial Research	FAQ	Frequently Asked Questions
CFTC	Commodity Futures Trading Commission	FASB	Financial Accounting Standards Board
		FBIIC	Financial and Banking Information Infrastructure Committee
		FBO	Foreign Bank Organization
		FCA	Farm Credit Administration

FDI Act	Federal Deposit Insurance Act	G-SIBs	Global Systemically Important Banks
FDIC	Federal Deposit Insurance Corporation	HVCRE	High Volatility Commercial Real Estate
FDiTech	FDIC Tech Lab	HMDA	Home Mortgage Disclosure Act
FEHB	Federal Employees Health Benefits	IADI	International Association of Deposit Insurers
FEMA	Federal Emergency Management Agency	IDI	Insured Depository Institution
FERS	Federal Employees Retirement System	IHCs	Intermediate Holding Companies
FFB	Federal Financing Bank	IMF	International Monetary Fund
FFIEC	Federal Financial Institutions Examination Council	IMM	Internal Models Method
FFMIA	Federal Financial Management Improvement Act	InTREx	Information Technology Risk Examination Program
FHFA	Federal Housing Finance Agency	ISM	Information Security Manager
FICO	Financing Corporation	IT	Information Technology
FIL	Financial Institution Letter	LBSB	Large Bank Supervision Branch
FinCEN	Financial Crimes Enforcement Network	LCFIs	Large and Complex Financial Institutions
FINRA	Financial Industry Regulatory Authority	LIBOR	London Inter-bank Offered Rate
FinTech	Financial Technology	LIDI	Large Insured Depository Institution
FIRREA	Financial Institutions Reform, Recovery and Enforcement Act	LURA	Land Use Restriction Agreement
FIS	Financial Institution Specialists	MDI	Minority Depository Institutions
FISMA	Federal Information Security Modernization Act of 2014	MOL	Maximum Obligation Limitation
FMFIA	Federal Managers' Financial Integrity Act	MOU	Memoranda of Understanding
FRB	Board of Governors of the Federal Reserve System	MRBA	Matters Requiring Board Attention
FRF	FSLIC Resolution Fund	MWOB	Minority- and Women-Owned Business
FSB	Financial Stability Board	MWOLF	Minority- and Women-Owned Law Firms
FS-ISAC	Financial Services Information Sharing and Analysis Center	NCUA	National Credit Union Administration
FSLIC	Federal Savings and Loan Insurance Corporation	NIST	National Institute of Standards and Technology
FSOC	Financial Stability Oversight Council	NPR	Notice of Proposed Rulemaking
FTE	Full-Time Equivalent	NSFR	Net Stable Funding Ratio
GAAP	Generally Accepted Accounting Principles	OCC	Office of the Comptroller of the Currency
GAO	U.S. Government Accountability Office	OCFI	Office of Complex Financial Institutions
GPRA	Government Performance and Results Act	OIG	Office of the Inspector General
		OJT	On-the-Job Training
		OLF	Orderly Liquidation Fund
		OMB	U.S. Office of Management and Budget

OMWI	Office of Minority and Women Inclusion	SBA	Small Business Administration
OO	Office of the Ombudsman	SEC	Securities and Exchange Commission
OPM	U.S. Office of Personnel Management	SIFI	Systemically Important Financial Institution
OTACs	One-Time Assessment Credits	SLA	Shared-Loss Agreement
OTS	Office of Thrift Supervision	SMS	Systemic Monitoring System
P&A	Purchase and Assumption	SNC	Shared National Credit Program
PCM	Privacy Continuous Monitoring	SOC	Security Operations Center
PII	Personally Identifiable Information	SORNs	System of Record Notices
PTFA	Protecting Tenants at Foreclosure Act	SRAC	Systemic Resolution Advisory Committee
Q&A	Questions and Answers		
QBP	Quarterly Banking Profile	SRR	SIFI Risk Report
REFCORP	Resolution Funding Corporation	SSGN	Structured Sale of Guaranteed Note
REMA	Reasonably Expected Market Area	TILA	Truth in Lending Act
ReSG	FSB's Resolution Steering Group	TRID	TILA RESPA Integrated Disclosure Rule
RESPA	Real Estate Settlement Procedures Act		
RMIC	Risk Management and Internal Controls	TSP	Federal Thrift Savings Plan
		TSP (IT-related)	Technology Service Providers
RMS	Division of Risk Management Supervision	URSIT	Uniform Rating System for Information Technology
RTC	Resolution Trust Corporation	VIEs	Variable Interest Entities
SA-CCR	Standardized Approach for Counterparty Credit Risk	WARM	Weighted Average Remaining Maturity
		YSP	Youth Savings Program

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