
Capital planning

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Prudential regulation has substantially improved safety and soundness

Post-crisis regulations have lowered the probability of default for large banks through higher shock absorbers...

Capital requirements	<ul style="list-style-type: none">■ Total capital requirement increased from 8% up to 17.5% (with buffers)■ Higher quality capital
Liquidity requirements	<ul style="list-style-type: none">■ LCR and NSFR require banks to maintain short- and medium-term liquidity funding (HQLA balances have increased to ~20% of total assets at the largest firms)¹
Stress testing	<ul style="list-style-type: none">■ CCAR to ensure capital adequacy under stress■ CLAR provides a horizontal liquidity review of U.S. G-SIBs

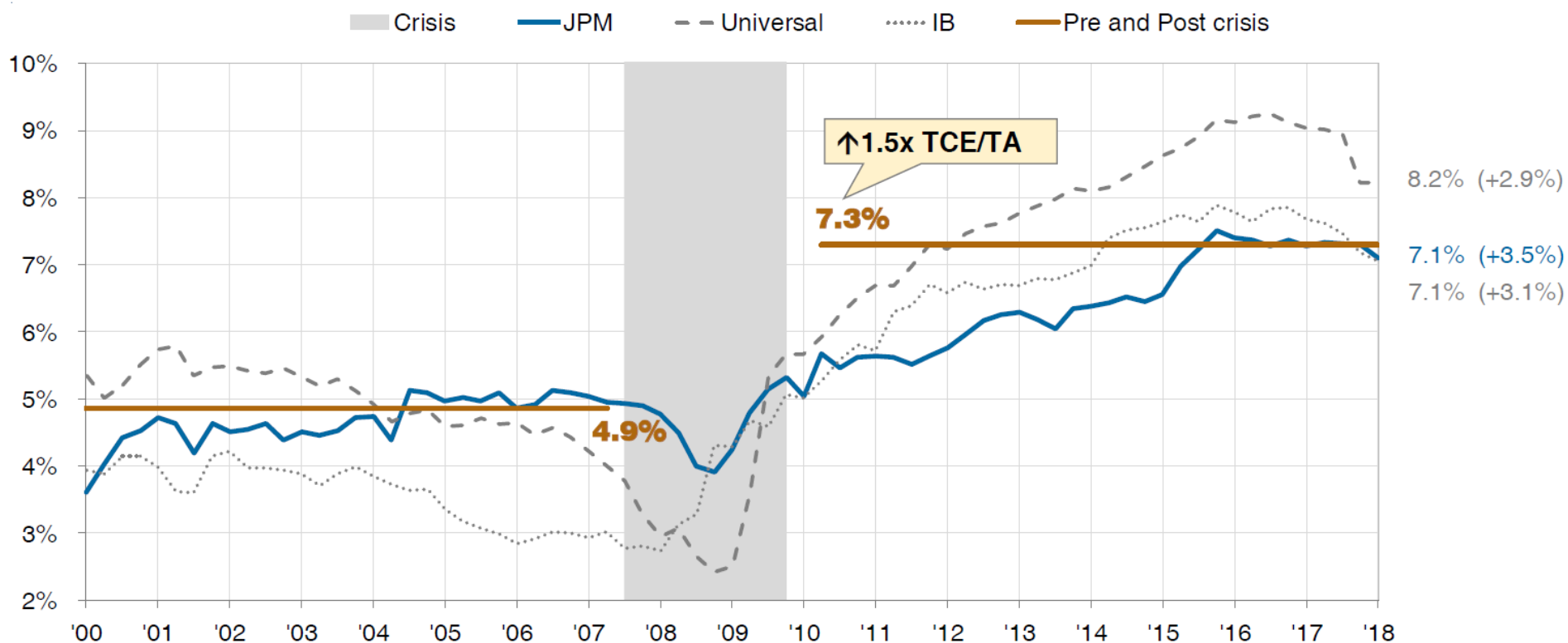
...and established frameworks to keep critical operations open

New resolution powers	<ul style="list-style-type: none">■ Granted to regulators through Dodd-Frank (Title II) in U.S. and BRRD in Europe
Resolution playbooks	<ul style="list-style-type: none">■ Provided through Title I plans. Further, recovery stress testing requires firms to demonstrate an ability to recover from extreme liquidity scenarios
Prevention of runs	<ul style="list-style-type: none">■ ISDA Protocol contractually prevents G-18 derivative counterparties from terminating early
Adequate resources for recapitalization	<ul style="list-style-type: none">■ TLAC ensures firms have adequate resources should they require resolution■ Global TLAC standard finalized; FRB has finalized an external TLAC standard for U.S. G-SIBs

¹ FSOC 2016 Annual Report

Stress testing exists to ensure robust capitalization of the financial industry

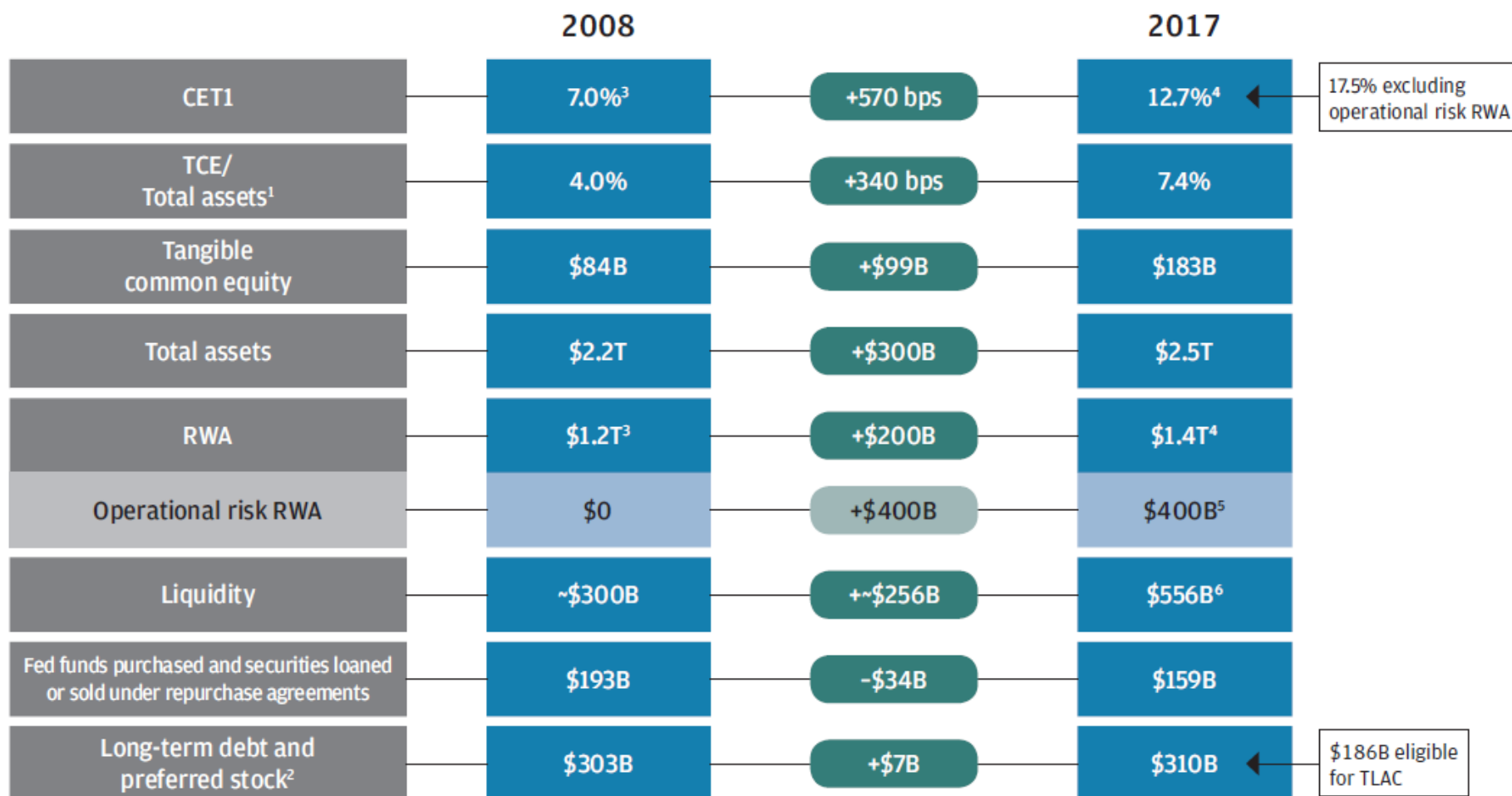
Tangible common equity to tangible assets over time



Source: SNL Financial

Note: Universal is BAC and C, IB is MS and GS, Commercial is USB and WFC

JPMorgan Chase has developed a Fortress Balance Sheet



¹ Excludes goodwill and intangible assets.

² Includes trust preferred securities.

³ Reflects Basel I measure; CET1 reflects Tier 1 common.

⁴ Reflects Basel III Advanced Fully Phased-In measure.

⁵ Operational risk RWA is a component of RWA.

⁶ Represents the amount of high quality liquid assets (HQLA) included in the liquidity coverage ratio.

B = Billions
T = Trillions
bps = basis points

Each LOB is measured on a stand-alone basis with the capital allocation framework considering multiple constraints

Capital allocation (\$B)				Allocation methodology ⁴	
	Average retained equity ¹			2016	2017+
	2016	2017	2018	Advanced RWA	Leverage
Consumer & Community Banking	\$51.0	\$51.0	\$51.0		Stress
Corporate & Investment Bank	64.0	70.0	70.0		GSIB
Commercial Banking	16.0	20.0	20.0		Standardized RWA
Asset & Wealth Management	9.0	9.0	9.0		Advanced RWA
Total LOBs	\$140.0	\$150.0	\$150.0		
Corporate ²	40.0	35.0	35.0		
Total Firm³	~\$180.0	~\$185.0	~\$185.0		

Capital allocations and methodology enhanced to further reflect multiple constraints of the Firm

Source: JPM public filings and presentations, including 2016, 2017 and 2018 Investor Day

Note: For illustrative purposes we are referencing materials from 2016, 2017, and 2018 Investor Day presentations, that were published at the time and not refreshed for purposes of this presentation

¹ 2017 Allocations changed from common equity to tangible common equity, resulting in LOB equity being more in line with peers

² Primarily reflects equity held for property, premises and equipment ("PP&E") and retained operational risk as well as unallocated equity

³ 2016 reflects data shown at 2016 Investor Day based on analyst estimates of TCE; 2017 reflects data shown at 2017 Investor Day based on an average of analyst estimates; 2018 reflects average CET1 capital. Total Firm based on analyst estimates

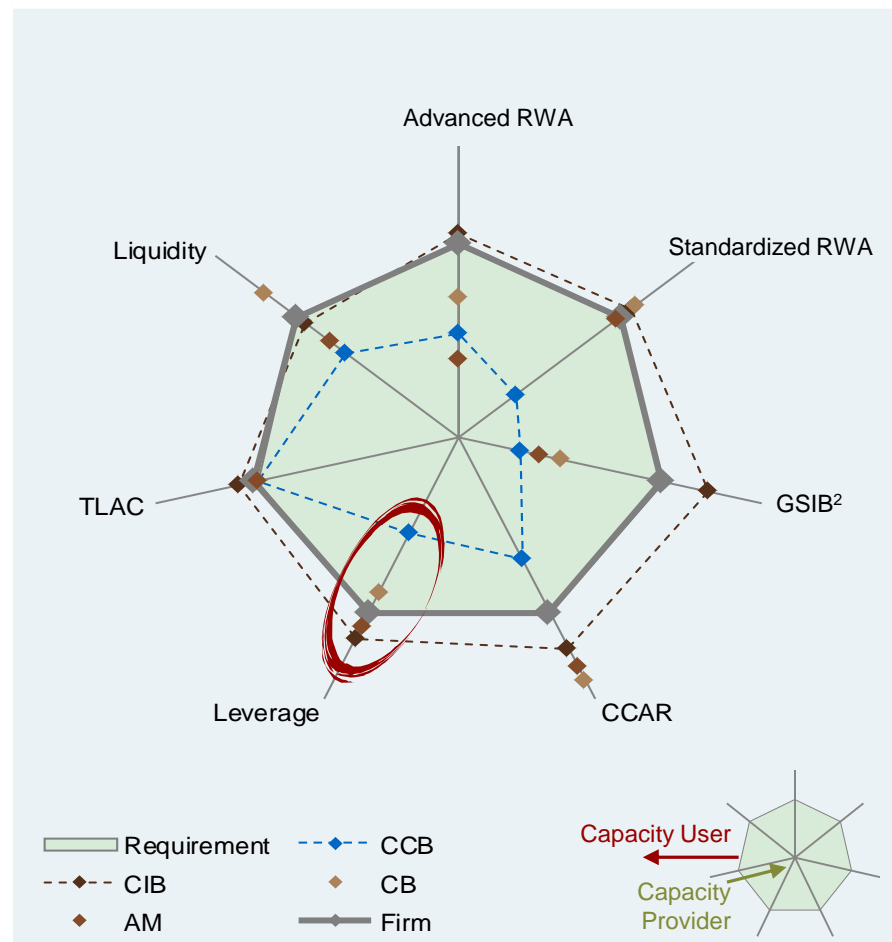
⁴ Data shown at 2017 Investor Day and not refreshed for purposes of this presentation. Tabular presentation not representative of the scale

Capital planning optimization has become a more dynamic process

Key highlights

- JPMorgan Chase has over 20 capital and liquidity related constraints
- Long-term approach to capital management and optimization
- Each LOB is allocated capital considering the various constraints of the firm and the evolving state of the business
- LOB capital allocations are based on multi-variable framework
- Firm has ROE targets for each business segment to measure performance based on multi-variable capital allocations

Select constraints – illustrative¹



Source: JPM public filings and presentations, including 2016, 2017 and 2018 Investor Day

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¹ Illustrative based on data shown at 2016 Investor Day and not refreshed for purposes of this presentation. Estimated net capacity provider or user for each constraint, expressed in ratio form

² GSIB points divided by leverage assets by LOB