







The Impact of Basel III on the Cost of a Trade Finance Transaction

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- Brief overview of Basel III capital & liquidity rules affecting trade finance
- Impact of capital & liquidity rules on the cost of trade finance
- Challenges and opportunities for trade finance
- It took the Great Recession, the Real Estate Crash & the Global Financial Crisis to swing the regulatory pendulum towards punishing levels of capital & liquidity; beware, that the third fact of life – business cycles, will bring upon us the next installment, be ready.









More Capital: 1) new definition; 2) higher risk weights; 3) higher ratios; plus 4) buffers

Table 1: U.S. Dodd-Frank Act - Capital Ratios – Standardized - Approach						
	Pre-Basel III			Basel II	l	
	2014	2015	2016	2017	2018	2019
Leverage Ratio	3.0/4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Tier 1: Common Equity - RWA	NA	4.5%	4.5%	4.5%	4.5%	4.5%
Tier 1 Capital - RWA	4.0%	6.0%	6.0%	6.0%	6.0%	6.0%
Total Capital - RWA	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%
Capital Conservation Buffer	NA	0.0%	0.625%	1.250%	1.875%	2.500%
Total Capital + Buffer	8.0%	8.0%	8.6%	9.3%	9.9%	10.5%
Notes: RWA is Risk-weighted a	ssets.					
Source: FDIC, Final Rule, (2013)						









Advanced approaches banks – double the capital ratios

	Table 3: U.S. Dodd-Frank Act - Capital Ratios - Advanced Approaches & G - SIBs						
		Pre-Basel III Basel III					
		2014	2015	2016	2017	2018	2019
	Leverage Ratio	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Countercyclical:	Supplemental Leverage Ratio	NA	3.0%	3.0%	3.0%	3.0%	3.0%
ratio changes							
natio changes	Tier 1: Common Equity - RWA	4.0%	4.5%	4.5%	4.5%	4.5%	4.5%
periodically	Tier 1 Capital - RWA	4.0%	6.0%	6.0%	6.0%	6.0%	6.0%
	Total Capital - RWA	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%
G-SIB: Based on	Capital Conservation Buffer (CET1)	-	0.0%	0.625%	1.250%	1.875%	2.500%
systemic risk	Countercyclical buffer (CET1) (*)			0.625%	1.250%	1.875%	2.500%
profile	G-SIB Capital Surcharge (CET1) (*)			1.875%	2.250%	2.625%	3.000%
	Total Capital + Buffers	8.0%	8.0%	11.1%	12.8%	14.4%	16.0%
	Source: FDIC, Final Rule, (2013).			·	·		









Most notable changes in risk weights pertain to trade finance exposure

Table 2: Standardized Approach to Risk Weighted Assets – Selected Categories*							
Claims on:	Pre-Basel III	Basel III					
1-4 family homes	50% / 100%	50 / 100%					
	depends on underwriting &	depends on underwriting					
	whether owner occupied	& whether owner occupied					
Corporate	100%	100%					
High volatility R/E	100%	150%					
Foreign governments	0% OECD governments	0 – 150%Dependent on OECD					
& their central banks	20% conditional claims on	Country Risk Classification (CRC)					
	OECD governments	0% OECD members with no CRC					
	100% non-OECD with	100% sovereigns with no CRC					
		150% if sovereign defaulted					
Foreign banks**	20% in OECD countries	20 – 150% depending on OECD					
	20% short-term claims on banks	status or CRC					
	in non-OECD countries	100% if country does not have a					
		CRC grade					
		150% if sovereign defaulted					
Off-balance sheet CCF	0% commitment w maturity \leq	0% commitment w maturity ≤ 1 yr.					
	1yr. & unconditionally	& unconditionally cancellable					
	cancellable	20% commitment w maturity \leq					
	20% self-liquidating trade-	1yr. & not unconditionally					
	related contingent items	cancellable					
		20% self-liquidating trade-related					
		contingent items					
Source: FDIC (2014)							









OECD Methodology needs to be more responsive to changes in country risk

	Table 15: Country Risk Rating and OECD CRCs: The Case of Greece								
		2006	2007	2008	2009	2010	2011	2012	2013
	OECD CRC	0	0	0	0	0	0	0	U
Section 939A of D-F Act: in determining creditworthy	Credit Events				1, 2	3	4	5	
status regulators must	1: In October 2	009, Gre	eek Gov	ernmen han init	t disclos	ed that	the bud	get defic	rit
<i>"remove any reference to or reliance on credit ratings."</i>	 action of GDP). 2: S&P & Moody's downgraded Greece one notch in December 2009. 								
	3: in April 2010	S&P do	owngrad	led Gre	ek debt	to junk	status.		
	4a: in July, 2011 a debt "restructuring" with private sector involvement was negotiated by Euro-Governments. Agreement reached Regarding a 21% reduction in the net present value of Greek debt service. 4b: in October 2011 the debt "haircut" was increased to 50%.							nt	
	5: March 2013 the International Swaps and Derivatives Association (ISDA Ruled that a restructuring credit event had occurred. U: high income Euro area country not reviewed as of 2013.						SDA)		
	Source: OECD F	Historica	l CRCs	and M	Xafa (20	14)			







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Cost of a trade finance transaction: Basel III vs. pre-Basel III – % difference standardized approach banks

Table 7: Total costs for trade transaction (capital & non-capital) -							
standardized approach banks							
	Pre-Basel III Basel III						
	2014	2015	2016	2017	2018	2019	
Post- vs Pre-Basel III total costs (% difference)							
Claims on foreign bank	0.0%						
OECD CRC Ratings/RW:							
0-1: 20%		0.0%	0.2%	0.4%	0.6%	0.8%	
2: 50%		4.0%	4.5%	5.0%	5.5%	6.0%	
3: 100%		10.5%	11.6%	12.6%	13.6%	14.7%	
4– 7: 150%		17.1%	18.7%	20.2%	21.8%	23.3%	







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Cost of a trade finance transaction: Basel III vs. pre-Basel III – % difference advanced approaches banks

Table 10: Total costs (capital & non-capital) – advanced approaches banks							
Pre-Basel III Basel III							
	2014	2015 2016 2017 2018 2019					
Post- vs Pre-Basel III total costs (% difference)							
Claims on foreign bank	0.0%						
OECD CRC Ratings/RW:							
0-1: 20%		0.0%	1.2%	1.8%	2.4%	3.0%	
2: 50%		4.6%	7.5%	9.1%	10.6%	12.2%	
3: 100%		12.2%	18.1%	21.2%	24.3%	27.4%	
4-7: 150%		19.8%	28.7%	33.3%	38.0%	42.6%	







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Liquidity rules & the Liquidity Coverage Ratio

High-Quality Liquid Assets (HQLA) is comprised of three categories of highly liquid assets:
 Level 1 (excess deposits at FED, U.S. Government securities);
 Level 2A, which receive a 15% value haircut/discount; and
 Level 2B, which receive a 50% value haircut.

FORMULA: $CR = \frac{HQLA}{Net \ cash \ outflow \ (30 \ days)}$

<u>net cash outflow</u> is based on contractual & prescribed outflows and inflows during a 30 day period, where the amount in the denominator represents the cumulative net outflows at day 30.

Who is subject to LCR rules? Banks with more than \$50 billion in consolidated total assets: Comprehensive (> \$250 billion) and modified (> %50 billion) approach







3)



How LCR impacts the cost of trade finance

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Table 11: Bank Deposit Outflows					
Retail Deposits Outflows					
Stable	3%				
Other 10%					
Note: a stable deposit is a retail deposit					
with 100% FDIC insurance.					

2)	For a bank commitment, outflow					
	Of 50%, bank has to invest that					
	Amount in HQLA.					
	Net cost of funds is as follows:					

$$i_{Net\ Cost\ of\ funds} = \frac{i_{cost\ of\ funds} - (i_{yield\ on\ HQLA} \times CORate)}{1 - CORate}$$

1)

Table 12: Bank Commitment outflows				
Amounts available up to 30 days: Outflow				
Available to:				
Retail customer	5%			
Liquidity facility to wholesale	200/			
non-financial customer	30%			
Credit and liquidity facilities to	E 00/			
domestic & foreign banks	30%			

Table 15: Impact of HQLA on Net Cost of Funds							
Fed Rate 3mTB							
inet cost of funds	0.30%	0.51%					
icost of funds	0.40%	0.40%					
İyield on HQLA	0.50%	0.29%					
CORate	CORate 50.00% 50.00%						
Note: the Fed Rate is the rate on deposits at the Fed, and the 3mTB is the three-month U.S. Treasury Bill rate.							



- The LCR works through two channels:
 - 1. first, the cost of funds, which would increase the cost of a trade finance transaction; and
 - 2. the opportunity cost of funds invested in HQLA

Example:

In 2015 the average yield on bank loans was 3.93%, and the average interest rate on deposits at the Fed (HQLA) was 0.27%







Basel III & the cost of trade finance: Challenges & Opportunities

- Compliance: the other major impact on cost of trade finance
 - Trade-Based Money Laundering
- Opportunities in trade finance for regional banks
- Growth of world trade will drive the volume of trade finance and thus cost economies
- Other risks: interest rate and operational risks
- Monetary policy elements of the capital and liquidity rules

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Thank You

Further details on the information in this presentation can be found in the following document:

The Impact of Basel III on the Cost of a Trade Finance Transaction, by Manuel Lasaga, May 23, 2016