

Implementation of Basel III – What to Expect?

Matthew Dukes

November 16, 2017

Deutsche Bank Securities Inc., a subsidiary of Deutsche Bank AG, conducts investment banking and securities activities in the United States.



Selection of AT1



Belgium	KBC €1 A	hn PNC5 AT1						
Beigiani	KBC €1.4bn PNC5 AT1 Société Générale US\$1,25bn / 1,75bn / EUR1bn / USD1.5bn							
France	BNP PNC7 €750m							
	Crédit Agricole US\$1.75bn AT1 / EUR 1bn AT1 / GBP 500m AT1 / US\$1.25bn PNC5							
		5 SEK2.25bn / PNC5 NOK 1.25bn / PNC6.5 US\$550m						
Sweden		1.1bn PNC5.5						
Sweden		JS\$750m PNC5						
	SHB US\$1.2bn PNC6							
Norway	DNB PNC5 NOK2.15bn / PNC5 USD750m CS BCNs (public) CHF290m Tier 1 / US\$2.25bn T1 & US\$2.5bn / €1.25bn 10yr / US\$2.5bn PNC10 T1							
	USS US\$1.5bn 10NC5, €2bn 12NC7, US\$2.5 10yr / UBS AT1: US\$1.15bn PNC5/US\$1.15bn PNC10/€1bn							
Switzerland	PNC7/US\$1.5bn PNC5							
	Julius Baer CHF350m PNC6	BKB CHF100m PNC5						
		PNC5.5 EUR300m						
Germany	DB PNC6 U\$1.25bn/PNC8 €1.75bn/PNC12 £650m/PNC10 U\$1.5bn							
	BBVA US\$1.5bn PNC5 / EUR1.5bn PNC5							
Spain	BPE €500m PNC5 / PNC5 €750m							
	Banco Santander €1.5bn PNC5/PNC5 US\$1.5bn/PNC7 €1.5bn							
Portugal		sitos EUR500m PNC5						
Italy		S\$1.25bn / PNC7 €1bn						
		1bn, PNC5 EUR1.25bn 7 / €1.1bn, US\$1.2bn, £700m each PNC5						
	Barclays US\$2bh PNC5 / €1bh PNC. Virgin Money GBP 160m PNC5	7/€1.1bn, US\$1.2bn, £700m each PNC5 Standard Chartered PNC5 US\$2bn / PNC5.5 \$2bn						
	HSRC €1 5hn PNC8 / LIS\$2	25bn PNC10 / US\$1.5bn PNC5.5						
		15bn PNC10 / PNC5 US\$2.65bn						
UK & Ireland	Nationwide AT1 GBP 1bn	COVBS GBP400m						
	permanent tsb PNC6 €125m	SantanUK PNC7 GBP750m						
		Ns/€1.3bn Perp Pref/€750m PNC5						
	Allied Irish Banks €500m PNC5							
	LBG PNC6/15/9/5/10 €750m/GBP750m/1.5bn/1.5bn /US\$1.675bn							
		1.3bn PNC8 AT1 / US\$1bn PNC10						
Australia		C6 Tier 1 / AUD1.2bn PNC8						
Russia	NAB AUD 1.51bh PNC6 / AUL Alfabank USD400m PNC5	D1.5bn PNC7 / AUD 1.34bn PNC5 Credit Bank of Moscow USD700m PNC5						
Russia								
Singenere	United Overseas Bank Limited USD650mn PerpNC6 Basel III Compliant Additional Tier 1 Transaction OCBC SGD500m PNC5							
Singapore								
Singapore	OCBC SG	D500m PNC5						
Singapore Taiwan	OCBC SG							
	OCBC ŚG DBS USL	D500m PNC5 D750m PNC5						
	OCBC SG DBS USI Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN	2D500m PNC5 D750m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 IY12bn / EUR600m / \$1bn						
Taiwan China	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications US\$2.45bn PNC5	iD500m PNC5 7750m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 IY12bn/EUR600m / \$1bn Huishang \$888m PNC5						
Taiwan China Korea	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications US\$2.45bn PNC5 Woori Bank USD	D500m PNC5 7750m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 IY12bn / EUR600m / \$1bn Huishang \$888m PNC5 500m Perp (30y)NC5						
Taiwan China	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications US\$2.45bn PNC5 Woori Bank USD India Overseas Bank INR10bn PNC5	2D500m PNC5 2750m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 IY12bn/ EUR600m / \$1bn Huishang \$888m PNC5 500m Perp (30y)NC5 SBI USD300m PNC5						
Taiwan China Korea India	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications US\$2.45bn PNC5 Woori Bank USD India Overseas Bank INR10bn PNC5 Emirates NBD US\$1b	D500m PNC5 7750m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 IY12bn / EUR600m / \$1bn Huishang \$888m PNC5 500m Perp (30y)NC5 SBI USD300m PNC5 IN PNC6 / US\$500m PNC6						
Taiwan China Korea	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications US\$2.45bn PNC5 Woori Bank USD India Overseas Bank INR 10bn PNC5 Emirates NBD US\$ 1b Dubai Islamic Bank US\$	D500m PNC5 7750m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 IY12bn/EUR600m/\$1bn Huishang \$888m PNC5 500m Perp (30y)NC5 SBI USD300m PNC5 IN PNC6 / US\$500m PNC6						
Taiwan China Korea India	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications US\$2.45bn PNC5 Woori Bank USD India Overseas Bank INR10bn PNC5 Emirates NBD US\$1b Dubai Islamic Bank US\$1b Al Hilal US\$500m Sukuk PNC5	D500m PNC5 7750m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 IY12bn / EUR600m / \$1bn Huishang \$888m PNC5 500m Perp (30y)NC5 SBI USD300m PNC5 IN PNC6 / US\$500m PNC6						
Taiwan China Korea India United Arab Emirates	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications US\$2.45bn PNC5 Woori Bank USD India Overseas Bank INR10bn PNC5 Emirates NBD US\$1b Dubai Islamic Bank US\$1b Al Hilal US\$500m Sukuk PNC5 Noor USD500m PNC5	D500m PNC5 7750m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 IY12bn / EUR600m / \$1bn Huishang \$888m PNC5 500m Perp (30y)NC5 SBI USD300m PNC5 IN PNC6 / US\$500m PNC6 IN Sukuk PNC6 / US\$1bn PNC6 NBAD USD750m PNC5						
Taiwan China Korea India	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications US\$2.45bn PNC5 Woori Bank USD India Overseas Bank INR 10bn PNC5 Emirates NBD US\$ 1b Dubai Islamic Bank US\$1b Al Hilal US\$500m Sukuk PNC5 Noor USD500m PNC5 Saudi Investment I	D500m PNC5 7750m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 IY12bn/EUR600m/\$1bn Huishang \$888m PNC5 500m Perp (30y)NC5 SBI USD300m PNC5 IN PNC6 / US\$500m PNC6						
Taiwan China Korea India United Arab Emirates Saudi Arabia	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications US\$2.45bn PNC5 Woori Bank USD India Overseas Bank INR10bn PNC5 Emirates NBD US\$1b Dubai Islamic Bank US\$1b Al Hilal US\$500m Sukuk PNC5 Noor USD500m PNC5	### D500m PNC5 ### D500m PNC5 CathayUnited USD660m PNC12						
Taiwan China Korea India United Arab Emirates Saudi Arabia Kuwait Mexico	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications US\$2.45bn PNC5 Woori Bank USD India Overseas Bank INR10bn PNC5 Emirates NBD US\$ 1b Dubai Islamic Bank US\$1b Al Hilal US\$500m Sukuk PNC5 Noor USD500m PNC5 Saudi Investment I Burgan PNC5 US\$500m Santander Mexico US\$500m PerpNC5 Santander Brazil	### PINCS ### PINCS ### PINCS CathayUnited USD660m PNC12						
Taiwan China Korea India United Arab Emirates Saudi Arabia Kuwait	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications USS2.45bn PNC5 Woori Bank USD India Overseas Bank INR 110bn PNC5 Emirates NBD US\$ 1b Dubai Islamic Bank US\$1b Al Hilal US\$500m Sukuk PNC5 Noor USD500m PNC5 Saudi Investment I Burgan PNC5 US\$500m Santander Mexico US\$500m PerpNC5 Santander Brazil Banco do Brasil U: Banco do Brasil U:	D500m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 IY12bn/ EUR600m / \$1bn Huishang \$888m PNC5 500m Perp (30y)NC5 SBI USD300m PNC5 IN PNC6 / US\$500m PNC6 IN Sukuk PNC6 / US\$1 bn PNC6 NBAD USD750m PNC5 BancoMercantilDe Norte \$550 / 350 PNC10 / PNC5 U\$\$1.25bn PNC5 T1 \$\$2.5bn PPC5 T1 \$\$2.5bn PPC5 T1						
Taiwan China Korea India United Arab Emirates Saudi Arabia Kuwait Mexico	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications US\$2.45bn PNC5 Woori Bank USD India Overseas Bank INR10bn PNC5 Emirates NBD US\$1b Dubai Islamic Bank US\$1b Al Hilal US\$500m Sukuk PNC5 Noor USD500m PNC5 Saudi Investment I Burgan PNC5 US\$500m PerpNC5 Santander Mexico US\$500m PerpNC5 Santander Brazil Banco do Brasil US BTG Pactual US	### D500m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 SBI USD300m PNC5 Nanyang PNC6 Nanyang PNC6 Nanyang PNC6 Nanyang PNC6 Nanyang PNC5 Nanyang PNC5 Nanyang PNC5 Bank SAR500m PNC5 Bank SAR500m PNC5 Bank SAR500m PNC5 Bank SAR500m PNC5 Sanyang PNC5 Sanyang PNC5 SS2.5bn PerpNC10 T1 SS4.3bn PerpNC10 T1 SS4.3bn PerpNC5 Nanyang PNC5 Nan						
Taiwan China Korea India United Arab Emirates Saudi Arabia Kuwait Mexico	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications US\$2.45bn PNC5 Woori Bank USD India Overseas Bank INR10bn PNC5 Emirates NBD US\$1b Dubai Islamic Bank US\$1b Al Hilal US\$500m Sukuk PNC5 Noor USD500m PNC5 Saudi Investment I Burgan PNC5 US\$500m Santander Mexico US\$500m PerpNC5 Santander Brazil Banco do Brasil U: BTG Pactual U Bank of America Corp US\$1bn PNC10/ US	### D500m PNC5 ### D500m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 Nanyang \$1.2bn PNC5 Nanyang \$1.2bn PNC5 Nanyang \$1.2bn PNC5 Sal USD300m PNC5 Nanyang \$1.2bn PNC5 Nanyang \$1.2bn PNC5 Sal USD300m PNC5 Nanyang \$1.2bn PNC5 Nanyang \$1.2bn PNC5 Nanyang \$1.2bn PNC5 Sal USD300m PNC5 Nanyang \$1.2bn PNC5 Sal USD300m						
Taiwan China Korea India United Arab Emirates Saudi Arabia Kuwait Mexico	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications USS2.45bn PNC5 Woori Bank USD India Overseas Bank INR 10bn PNC5 Emirates NBD US\$ 1b Dubai Islamic Bank US\$1b Al Hilal US\$500m Sukuk PNC5 Noor USD500m PNC5 Saudi Investment I Burgan PNC5 US\$500m Santander Mexico US\$500m PerpNC5 Santander Brazil Banco do Brasil U: BTG Pactual U Bank of America Corp US\$1bn PNC10/ US Zions \$3 Zions \$3	D500m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 IY12bn/ EUR600m / \$1bn Huishang \$888m PNC5 500m Perp (30y)NC5 SBI USD300m PNC5 IN PNC6 / US\$500m PNC6 IN Sukuk PNC6 / US\$1bn PNC6 NBAD USD750m PNC5 Bank SAR500m PNC5 NBK PNC6 US\$700m / 250m PNC5 BancoMercantilDe Norte \$550 / 350 PNC10 / PNC5 U\$\$1.2bn PNC5 T1 \$\$2.5bn PerpNC5 \$\$1.5bn PPRDC5 \$\$1.5bn PPRDC5 \$\$1.5bn PNC5 U\$\$1.5bn PNC5 US\$2bn PNC10 / \$1.4bn PNC10						
Taiwan China Korea India United Arab Emirates Saudi Arabia Kuwait Mexico	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications US\$2.45bn PNC5 Woori Bank USD India Overseas Bank INR10bn PNC5 Emirates NBD US\$1b Dubai Islamic Bank US\$1b Al Hilal US\$50m Sukuk PNC5 Noor USD500m PNC5 Saudi Investment I Burgan PNC5 US\$500m Santander Mexico US\$500m PerpNC5 Santander Brazil Banco do Brasil U Bank of America Corp US\$1bn PNC10 / US Zions \$3 Citigroup US\$1.25bn PNC10 / \$480m PNC5	### D500m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 SBI USD300m PNC5 SBI USD300m PNC5 SBI USD300m PNC5 Nanyang PNC6 Nanyang PNC6 Nanyang PNC6 Nanyang PNC5 Bank SAR500m PNC5 SBI SBN PNC5 VS\$20 PNC10 / PNC5 SS2.5bn PPNC5 / US\$2bn PNC10 / \$1.4bn PNC10 Nanyang						
Taiwan China Korea India United Arab Emirates Saudi Arabia Kuwait Mexico	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / Ch Bank of Communications USS2.45bn PNC5 Woori Bank USS India Overseas Bank INR 110bn PNC5 Emirates NBD US\$ 1b Dubai Islamic Bank US\$ 1b Dubai Islamic Bank US\$ 1b AI Hilal US\$500m Sukuk PNC5 Noor USD500m PNC5 Saudi Investment Burgan PNC5 US\$500m Santander Mexico US\$500m PerpNC5 Santander Mexico US\$500m PerpNC5 Santander Mexico Corp US\$1bn PNC10 / US BTG Pactual U Bank of America Corp US\$1bn PNC10 / US Zions \$3 Ctitgroup US\$1.25bn PNC10 / \$480m PNC5 JPMorgan 1.5bn / 1.5bn PNC10 / 2bn PNC10 / 850m	D500m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 IY12bn/ EUR600m / \$1bn Huishang \$888m PNC5 500m Perp (30y)NC5 SBI USD300m PNC5 IN PNC6 / US\$500m PNC6 IN Sukuk PNC6 / S\$1bn PNC6 NBAD USD750m PNC5 Bank SAR500m PNC5 NBK PNC6 US\$700m / 250m PNC10 / PNC5 US\$1.25bn PNC5 / US\$2bn PNC10 / \$1.4bn PNC10 1000m PNC10 \$1.5bn PNC5 / US\$2bn PNC10 / \$1.4bn PNC10 1000m PNC10 \$1.75 PNC10 / \$1.5bn PNC5 / US\$2bn PNC10 PNC5 / 15bn PNC10 / \$1.5bn PNC10 (all US\$)						
Taiwan China Korea India United Arab Emirates Saudi Arabia Kuwait Mexico	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications USS2.45bn PNC5 Woori Bank USD India Overseas Bank INR:10bn PNC5 Emirates NBD US\$ 1b Dubai Islamic Bank US\$1b Al Hilal US\$500m Sukuk PNC5 Noor USD500m PNC5 Saudi Investment I Burgan PNC5 US\$500m Santander Mexico US\$500m PerpNC5 Santander Brazil Banco do Brasil U: BTG Pactual U Bank of America Corp US\$1bn PNC10 / US\$ Citigroup US\$1.25bn PNC10 / \$480m PNC5 JPMorgan 1.5bn/1.5bn PNC10/2bn PNC10 / 850m M&T Bank U	### D500m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 Nanyang PNC5 Nanyang PNC5 Nanyang PNC6 Nanyang PNC5 Nan						
Taiwan China Korea India United Arab Emirates Saudi Arabia Kuwait Mexico Brazil	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications US\$2.45bn PNC5 Woori Bank USD India Overseas Bank INR10bn PNC5 Emirates NBD US\$1b Dubai Islamic Bank US\$1b Al Hilal US\$500 Sukuk PNC5 Noor USD500m PNC5 Saudi Investment I Burgan PNC5 US\$500m Santander Mexico US\$500m PerpNC5 Santander Brazil Banco do Brasil U Bank of America Corp US\$1bn PNC10 / US JPMorgan 1.5bn / 1.5bn PNC10 / 2480m PNC5 JPMorgan 1.5bn / 1.5bn PNC10 / 2480m PNC5 JPMorgan 1.5bn / 1.5bn PNC10 / 250n PNC10 / 850m M&T Bank U Goldman Sachs US\$1.	### PROPRES 17500m PNC5 ### PNC5 ### PNC5 ### PNC5 ### PNC5 ### PNC6 ### PNC						
Taiwan China Korea India United Arab Emirates Saudi Arabia Kuwait Mexico	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications USS2.45bn PNC5 Woori Bank USS India Overseas Bank INR 110bn PNC5 Emirates NBD US\$ 1b Dubai Islamic Bank US\$ 1b Al Hilal US\$500m Sukuk PNC5 Noor USD500m PNC5 Saudi Investment I Burgan PNC5 US\$500m Santander Mexico US\$500m PerpNC5 Santander Brazil Banco do Brasil U: BTG Pactual U Bank of America Corp US\$1bn PNC10 / \$480m PNC5 JPMorgan 1.5bn/ 1.5bn PNC10 / 2bn PNC10 / 850m M& T Bank U Goldman Sachs US\$1.	### D500m PNC5 CathayUnited USD660m PNC12						
Taiwan China Korea India United Arab Emirates Saudi Arabia Kuwait Mexico Brazil	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications USS2.45bn PNC5 Woori Bank USD India Overseas Bank INR10bn PNC5 Emirates NBD US\$1b Dubai Islamic Bank US\$1b Al Hilal US\$500m Sukuk PNC5 Noor USD500m PNC5 Saudi Investment I Burgan PNC5 US\$500m Santander Mexico US\$500m PerpNC5 Santander Brazil Banco do Brasil U- BTG Pactual U- Bank of America Corp US\$1bn PNC10/ US\$2ions Citigroup US\$1.25bn PNC10 / \$480m PNC5 JPMorgan 1.5bn/ 1.5bn PNC10/2bn PNC10/ 850m M&T Bank U Goldman Sachs US\$1. Morgan Stanle	D500m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 IY12bn/ EUR600m / \$1bn Huishang \$888m PNC5 500m Perp (30y)NC5 SBI USD300m PNC5 IN PNC6 / US\$500m PNC6 IN Sukuk PNC6 / US\$1bn PNC6 IN BAD USD750m PNC5 BancoMercantilDe Norte \$550 / 350 PNC10 / PNC5 US\$1.2bn PNC5 T1 \$\$2.5bn PerpNC5 \$1.5bn PNC5 / US\$2bn PNC10 / \$1.4bn PNC10 100m PNC10 / \$1.75 PNC10 / \$1.5bn PNC5 / US\$2bn PNC10 / \$1.75 PNC10 / \$1.5bn PNC5 / 1.6bn PNC10 200 PNC5 / US\$2bn PNC10 / \$1.75 PNC10 / \$1.5bn PNC5 / 1.6bn PNC10 IS\$350m PNC10 30h PNC10 / US\$2bn NC5 y US\$1.3bn PNC10 / US\$2bn NC5 y US\$1.3bn PNC10 / \$1.5bn PNC10 / \$1.5bn PNC10 / \$1.75 PNC10 / \$1.5bn PNC5 / 1.6bn PNC10 (all US\$) IS\$350m PNC10 y US\$1.3bn PNC10 / US\$2bn NC5 y US\$1.3bn PNC10 / US\$2bn NC5 y US\$1.3bn PNC10 / US\$2bn NC5 y US\$1.3bn PNC10						
Taiwan China Korea India United Arab Emirates Saudi Arabia Kuwait Mexico Brazil	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications US\$2.45bn PNC5 Woori Bank USD India Overseas Bank INR10bn PNC5 Emirates NBD US\$1b Dubai Islamic Bank US\$1b Al Hilal US\$500m Sukuk PNC5 Noor USD500m PNC5 Saudi Investment I Burgan PNC5 US\$500m Santander Mexico US\$500m PerpNC5 Santander Brazil Banco do Brasil U Bank of America Corp US\$1bn PNC10 / US JPMorgan 1.5bn / 1.5bn PNC10 / 2480m PNC5 JPMorgan 1.5bn / 1.5bn PNC10/2bn PNC10 / 850m M&T Bank U Goldman Sachs US\$1.	### ### ##############################						
Taiwan China Korea India United Arab Emirates Saudi Arabia Kuwait Mexico Brazil	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications USS2.45bn PNC5 Woori Bank USD India Overseas Bank INR10bn PNC5 Emirates NBD US\$1b Dubai Islamic Bank US\$1b Al Hilal US\$500m Sukuk PNC5 Noor USD500m PNC5 Saudi Investment! Burgan PNCs US\$500m Santander Mexico US\$500m PerpNC5 Santander Brazil Banc of Brasil U. BTG Pactual U Bank of America Corp US\$1bn PNC10 / US Zions \$2 Zi	### ### ##############################						
Taiwan China Korea India United Arab Emirates Saudi Arabia Kuwait Mexico Brazil	OCBC SC DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / Ch Bank of Communications USS2.45bn PNC5 Woori Bank USS India Overseas Bank INR 17bn PNC5 Emirates NBD US\$ 1b Dubai Islamic Bank US\$ 1b Dubai Islamic Bank US\$ 1b Al Hilal US\$500m Sukuk PNC5 Noor USD500m PNC5 Saudi Investment Burgan PNC5 US\$500m Santander Mexico US\$500m PerpNC5 Santander Mexico US\$500m PerpNC5 Santander Mexico Corp US\$11bn PNC10/ US Zions \$3 Citigroup US\$1.25bn PNC10/\$480m PNC5 JPMorgan 1.5bn/ 1.5bn PNC10/2bn PNC10/850m M& TBank U Goldman Sachs US\$1. Morgan Stanle SunTrust Bank Wells Fargo PNC US\$ Capital One US\$500m Frith Third \$600m P.	D500m PNC5 CathayUnited USD660m PNC12 Nanyang \$1.2bn PNC5 IY12bn/ EUR600m / \$1bn Huishang \$888m PNC5 500m Perp (30y)NC5 SBI USD300m PNC5 IN PNC6 / US\$500m PNC6 IN Sukuk PNC6 / US\$1bn PNC6 NBAD USD750m PNC5 Banc MRAC PNC6 / US\$700m / 250m PNC5 Banc NBAP PNC6 / US\$700m / 250m PNC10 / PNC5 US\$1.25bn PNC5 11 S\$2.5bn PerpNC10 T1 IS\$1.3bn PerpNC5 IS\$1.3bn PerpNC5 IS\$1.5bn PNC5 / US\$2bn PNC10 / \$1.4bn PNC10 IOOM PNC10 Y\$1.75 PNC10 / \$1.5bn PNC5 / US\$2bn PNC10 PNC5/ 1bn PNC10 / 2.5bnPNC5/ 1.6bn PNC10 (all US\$) IS\$350m PNC10 350n PNC10 US\$21.3bn PNC5 IUS\$1.3bn PNC5 IUS\$25bn PNC10						
Taiwan China Korea India United Arab Emirates Saudi Arabia Kuwait Mexico Brazil	OCBC SG DBS USL Taishin Int. Bank TWD3bn Bank of China USD6.5bn PNC5 ICBC USD2.95bn / CN Bank of Communications USS2.45bn PNC5 Woori Bank USD India Overseas Bank INR 110bn PNC5 Emirates NBD US\$ 1b Dubai Islamic Bank US\$1b Al Hilal US\$500m Sukuk PNC5 Noor USD500m PNC5 Saudi Investment I Burgan PNC5 US\$500m Santander Mexico US\$500m PerpNC5 Santander Brazil Banco do Brasil U: BTG Pactual L Bank of America Corp US\$1bn PNC10 / US\$ Citigroup US\$1.25bn PNC10 / \$480m PNC5 JPMorgan 1.5bn/1.5bn PNC10/2bn PNC10/850m M&T Bank U Goldman Sachs US\$1. Sun Trust Bank Wells Fargo PNC US\$ Capital One US\$500m Fifth Third \$600m P BNY Mellon \$500n Fifth Third \$600m P BNY Mellon \$500n	### ### ##############################						



Selection of T2



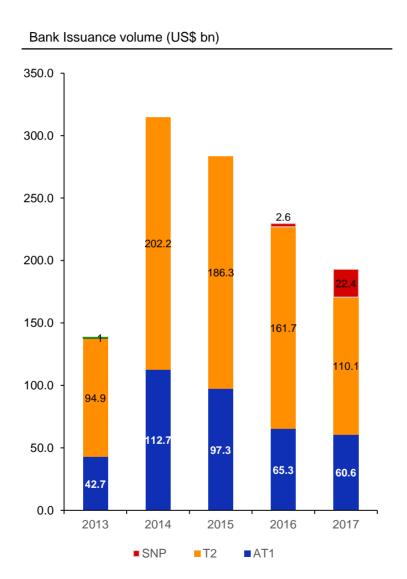
	BNP €1.5bn 12NC7 /€750m 13NC8 /US\$1bn 10yr / €1.5 10y/ 10NC5 CNY1.5bn	La Banque Postale 12NC7 €750m						
France		EUR1bn 12NC7 /USD800m 10y /\$1.25bn 10.5yr/ USD750m 10y						
	Société Générale €1bn 10yr/US\$1bn 10yr/€1bn							
	12NC7/EUR1.5bn 10y	BFCM 10yr €1bn						
	Aareal Bank €300m 12NC7	DB US\$ 1.5bn 15NC10 / €1.25bn 10y						
Germany	DZ Bank CHF120m 10yr	LBBW EUR500m 12NC7						
Cermany	NordLB US\$500m 10yr	Commerzbank US\$1bn 10yr						
	Helaba €250m 10yr							
Norway	DNB Bank €750m 10NC5							
Italy	Intesa SP €1.45bn 10yr / USD2bn 10yr / €1bn 12yr / US\$1bn 10yr Unicredit SGD300m / US\$750 / €1b							
	Promsvyazbank US\$300m 7yr	Alfa Bank 10NC5 USD\$250m						
	Bank Saint Petersburg US\$100m 6yr	Russian Standard Bank US\$200m 10NC5						
Russia	Gazprombank US\$750m 10NC5 / CHF350m 10NC5	Home Credit & Finance Bank US\$200m 7.5NC5.5						
	Nomos Bank US\$300m 7.5yr	Russian Agricultural Bank US\$500m 10yr						
	Sberbank US\$1bn 10yr / US\$1bn 10NC5	VTB CHF 350m 10NC5						
Sweden	Swedbank EUR750bn 10NC5	SEB EUR1bn 12NC7						
	Banco Sabadell €500m 10y							
Spain	CaixaBank €750m 10NC5	Bankia €1bn 10NC5						
	BBVA €1.5bn 10NC5	Santander 10y EUR1.5bn						
Portugal	VakifBank USD500m 10NC5	anto €750m10NC5 ALBARAKA 10NC5 USD250m						
Turkey	YapiKredit USD500m 10NC5	Kuveyt Turk 10NC5 US\$350m						
Turkey	Alternatifbank USD300mm 10NC5	Raveyt Tark Torres 054550111						
	Bank of Ireland €750m 10NC5	Nationwide €1.25bn 10NC5						
	Lloyds US\$1bn 10yr	Yorkshire B/S GBP 200m 10NC5						
		HSBC €1.5bn 10NC5 / US\$1.5bn 30vr / US\$2bn 10vr						
UK & Ireland	RBS US\$1bn / US2bn 10yr / E	UR1bn 10NC5 / US\$2.25bn10yr						
OK & Ireland	Santander UK US\$1.5bn 10yr	Barclays US\$1.25bn 10yr						
		/€1.25bn 12NC7/SGD 700m 12NC7/US\$2bn 30yr/GBP900m						
	20y / €500m 10yr Allied Irish Banks €750m 10NC5							
Kuwait	Burgan KWD30m, 70m Woori Bank 10yr USD1bn	Gulf Bank KWD50 10NC5, KWD50m 10NC5						
Korea	KoreaExchange 10yr USD300m	HANA Bank USD300m 10yr						
	Tianjin Binhai Rural Commer CNY1.5bn 10NC5 / 3.6bn 10NC5	Bank of Jinzhou CNY1.5bn 10NC5						
	Minsheng Bank CNY20bn 10NC5	Ping An Bank CNY 9bn 10NC5 / 6bn 10NC5						
	China Merchants CNY11.3bn 10NC5	Xiamen Int Bank CNY3bn 10NC5						
China	Huaxia Bank CNY10bn 10NC5	China Everbright CNY16.2bn 10NC5						
oa	ABC CNY30bn 10NC5	ICBC CNY20bn 10y						
	Bank of China CNY30bn 10NC5 / USD3bn 10yr	B.Of Comm.CNY28bn10NC5/USD1.2bn 10NC5/EUR500m 12NC7						
	China Construction Bank CNV20hn 15N	IC10 / CNY2bn 10NC5 / US\$2bn 10NC5						
	ICBC Asia US\$500m 10NC5	China Citic Bank US\$300m 10.5NC5.5						
Hong Kong	China Construction Asia USD750m 10NC5	Bank of East Asia 10NC5 US\$500m						
+	CTBC Bank TWD 13.5bn 15yr	Mega Bank TWD7bn 7yr						
Taiwan	Cathay United Bank USD330m 15yr	, in the second						
Japan		80bn 10yr / JPY 20bn 10NC5						
India	Bank of India INR5bn 10yr	Union Bank of India INR20bn 10yr						
	United Bank of India INR5bn 10yr	Central Bank of India INR10bn 10yr						
Indonesia	Bank UOB BUANA IDR 1trn 7yr Bank Capital IDR200bn 7yr	Bank Internasional Indo IDR1.5bn 7yr BANK BUKOPIN IDR400m 7yr						
	Bank Capital IDR200bn 7yr National Commercial Bank SAR5bn 10NC5	Saudi Investment Bank SAR2bn 10NC5						
Saudi Arabia	Banque Saudi Fransi SAR2bn 10NC5	ANB SAR2bn 10NC5						
	Al Jazira SAR2bn 10NC5	Riyad Bank SAR4bn 10NC5						
	CIMB Bank MYR750m / MYR300m 10NC5	AmIslamic Bank MYR200m/400m 10NC5						
Malaysia	Public Bank Berhad MYR1bn / 450m / 500m10NC5	Maybank MYR 1.6bn 10NC5 / MYR 1.6bn 10NC5 / MYR3.5bn						
	RHB MYR1bn 10NC5	10NC5						
Philippines	Metrobank PHP8bn 10yr	East West PHP 5bn 11NC6						
	Rizal Commercial PHP 7bn 10NC5	Security Bank PHP 10bn 10NC5						
Nigeria South Africa	Access Bank USD400m 7NC5 (Basel II) Ecobank USD250m 7NC5 (Basel II)							
South Africa Brazil	Nedbank 1.7bn 10y/ 450m ZAR 10y FirstRand 1.7bn ZAR 10NC5 Santander Brazil US\$1.25bn 10yr Caixa USD500m 10NC5							
Argentina	Santander Brazil US\$1.25bn 10yr Caixa USD500m 10NC5 Banco Galicia USD250m 10NC5 Banco Marco USD400m 10NC5							
Colombia		SD750m 10NC5						
Mexico	Santander Mexico US\$1.3bn 10NC5	Banco National USD700m 10NC5						
		2bn 12yr / US\$1bn 30yr / US\$750m 10y / US\$1bn 12yr						
	PNC Bank 500m 12yr / 750m 10yr	Morgan Stanley US\$2bn 10yr / 2bn 12yr / 2.2.5bn12yr						
	US Bancorp \$1bn 10yr / US\$1bn 10yr	BB&T USD850m 12yr						
United States	FITH THIRD US\$750m 10yr	Northern Trust US\$ 750m 12yr						
		yr / US\$1.25bn 30yr / US\$3bn 10yr						
	State Street Corp US\$1bn 10yr	Wells Fargo & Company US\$2bn / 1.5bn 10yr / 2bn 30yr /						
	BankofAmerica \$3bn 10yr/2bn 12yr/2.5bn 10y/500m 30y	US\$2.5bn 12y / US\$2bn 30yr						
		004E.0011 127 / 004E011 0071						



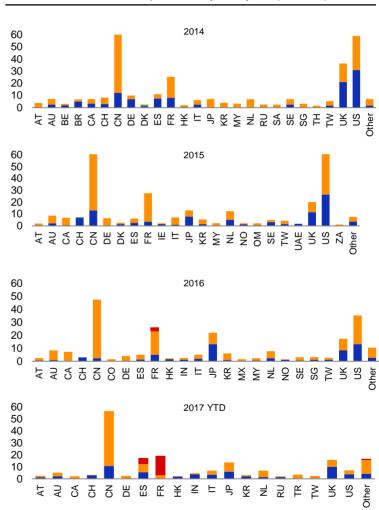
Global Bank Capital Statistics (1/3)



After the massive issuance wave in 2014 (post completion of CRR/CRD IV and other regimes that implement Basel III), issuance volume have come down. However, prefinancing of 2013-2014 issues to come



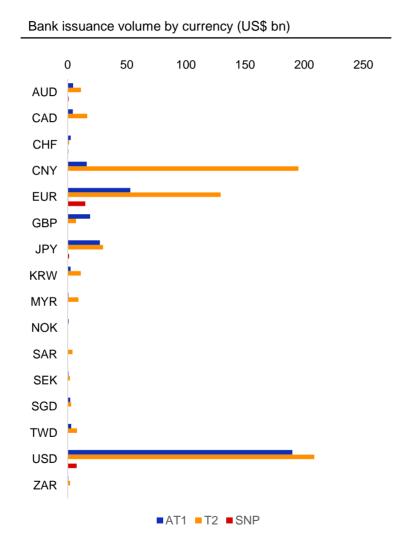
Bank Issuance volume per country and year (US\$ bn)

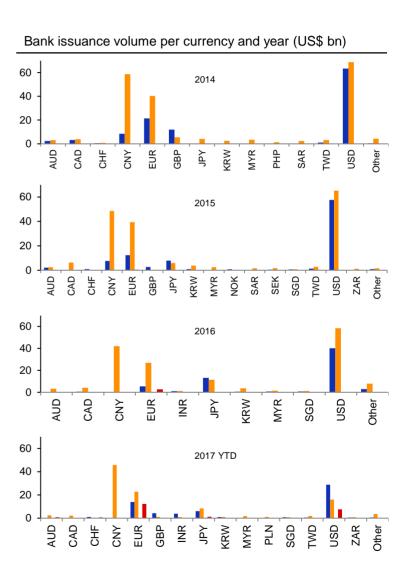


Global Bank Capital Statistics (2/3)



Bank capital is predominantly issued in CNY (Chinese domestic issues), EUR and USD. However, there is a remarkable amount of volume placed in niche – currency or domestically





Global Bank Capital Statistics

(3/3)



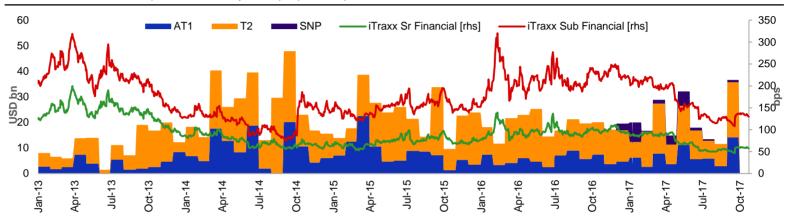
Strong correlation between issued volume and spreads over the last 5 years

No specific seasonality in capital issuance: normally summer period is lighter in terms of volume but transactions can be place when windows open

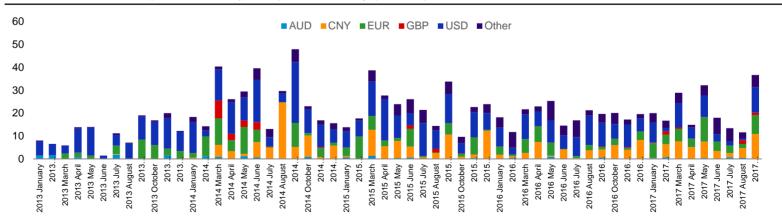
Give the low yield environment in most developed markets and compared to the previous decades generally lower rates in EM, massive hunt for yield drives down spreads for sub instruments

In terms of currencies, USD and EUR market very well absorb supply in the vast majority of months

Bank issuance volume (Jan 2013 - Sep 2017) - (US\$ bn)



Bank issuance volume (Jan 2013 - Sep 2017): Per Currency (USD bn)

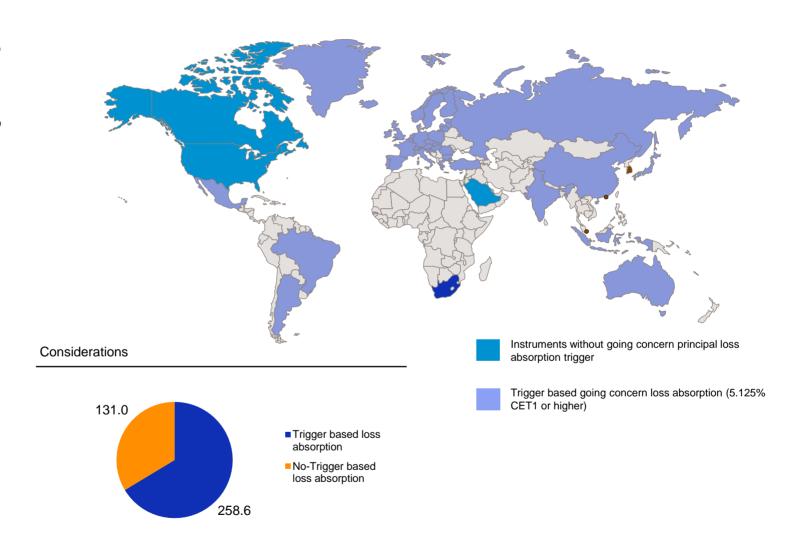


The big divide – loss absorption or no loss absorption?



Some considerations to keep in mind are:

- Why have some jurisdictions chosen not to have trigger based loss absorption?
- Does not having a trigger change the underlying risk embedded in the instrument given it is still loss absorbing?
- Where do issuers have a choice on this matter?



The trigger level discussion



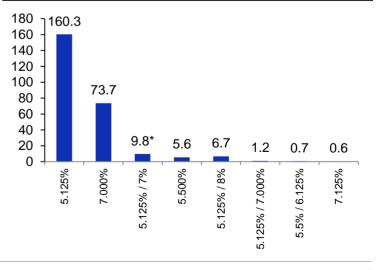
Current range of additional Tier 1 triggers

	Australia	Brazil	China	Denmar k	EU CRR	India	Japan	Mexico	Nether- lands	Russia	South Africa	Sweden	Swiss	UK
CET1 Phase- in	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	F
Level	5.125%	5.125%	5.125%	7%	5.125%	5.50% / 6.125% **	5.125%	5.125%	7%	5.125%	5.875%	8%	5.125%	7%

Considerations

- Minimum trigger level set by regulator
- Distance to trigger major pricing concern for investors
- Vast majority placed with 5.125% trigger
- Triggers different to 5.125% are also widely accepted by investors
- Signalling effect by choosing a trigger higher than regulatory required
- Lock-in forever: once a trigger level is picked it is difficult to deviate
- Ratings: higher trigger can lead to lower ratings with S&P and Moody's

Trigger based loss absorption (US\$ bn)

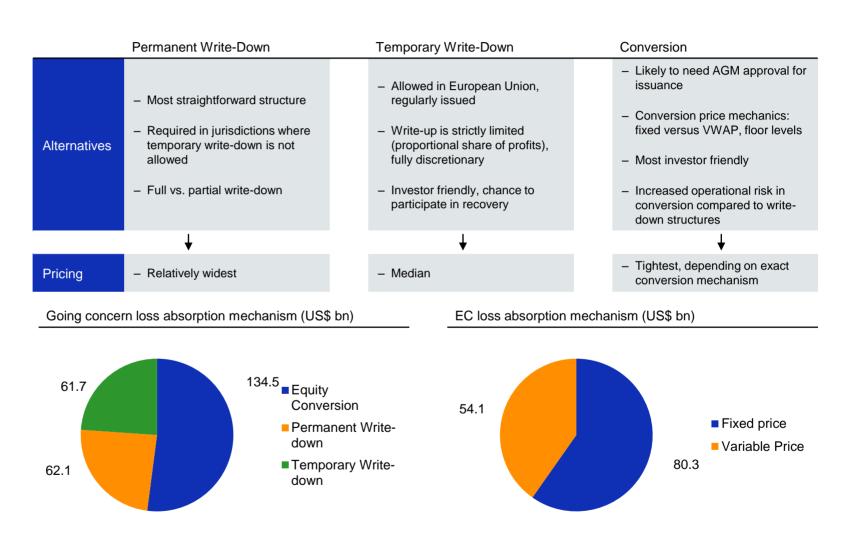


Additional Tier 1 – loss absorption mechanisms



Some considerations to keep in mind are:

- Pricing advantage of Equity Conversion vs.
 Write-Down instruments not meaningful
- Write-down and Equity conversion equally split with regards to issuance volume



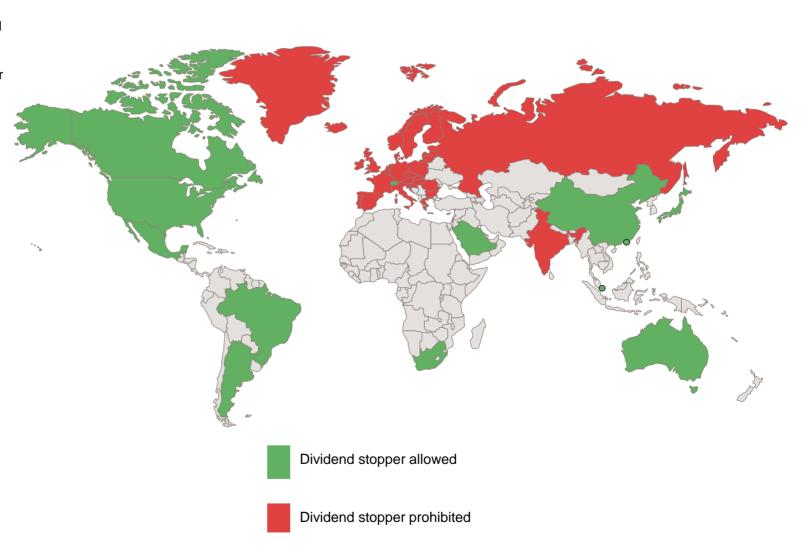
AT1 Dividend Stopper

Dividend stopper and capital hierarchy



Investors recognize dividend stoppers are marginally positive, however do not price a substantial benefit for this feature

European banks normally communicate capital hierarchy statements, with the intention to treat AT1 holders senior to common shareholders



AT1 Dividend Stopper





Available Distributable Items

- Any distribution can only be paid from available distributable items
- Distributable items are all balance sheet components that could be distributed to shareholders
- ADI number depends highly on the national accounting regime which limits the amounts that can be distributed to investors in different manners

Combined Buffer Requirement

- Worries about a lack of ADI created market turmoil in February 2016
- Coupon payment date matters as common dividend reduces available distributable items
- TLAC relevant for G-SIBs

Maximum Distributable Amount Max of G-SIB / D-SIB charge up to 2.5%

Countercyclical capital buffer
2.50% OR HIGHER

Fully phased capital requirements

Capital conservation buffer 2.50%

Equity "hard" minimum requirement 4.50%

Upcoming calibration of TLAC?

G-SIB charge [1 - 2.5%]

Countercyclical capital buffer / SRB / Ring-fence buffer

Capital conservation buffer 2.50%

TLAC minimum requirement including 16 – 20%

Combined Buffer Requirement

Tier 2 PONV POV – a Babylonian outcome



Statutory Resolution Regime

Basel III	Bank would become non-viable without write-off, public sector rescue Statutory or contractual	NA
EU CRR/ BRRD	Bank would become non-viable without write-off, public sector rescue Statutory (BRRD)	✓
United States	Holders of own funds may be fully subordinated to interests held by the U.S. Government Statutory (Dodd Frank)	✓
Russia	Implementation of Bankruptcy Prevention Measures approved by the CBR and purchase of a controlling stake in the bank, or CET1 <2% Contractual	×
Brazil	BCB determines write-off or public capital injection or CET1 <4.5% Contractual	
Mexico	Prior to any injection of public funds or not fulfill the authorization conditions or CET1 <4.5% Contractual	×
Japan	Insolvency:liabilities exceed or are likely to exceed the issuer's assets, or the issuer has suspended or is likely to suspend payment of it's obligations Contractual	×
Australia / China / Hong Kong / India / Indonesia / Singapore / Malaysia / Philippines	Bank would become non-viable without write-off, public sector rescue Contractual	✓ Australia, Hong Kong, India (expected) ➤ All others
Korea ***	PoNV based on Insolvency of bank dependant on capital ratios Possible to receive state support before trigger event Contractual	×
Taiwan	PoNV based on government receivership Government takeover only when all alternatives are exhausted and total capital adequacy ratio has fallen below 2% Contractual	×
Thailand	PONV based on bank receiving unconditional and irrevocable government assistance Contractual	×

Deutsche Bank Historical Pillar 1 Disclosures

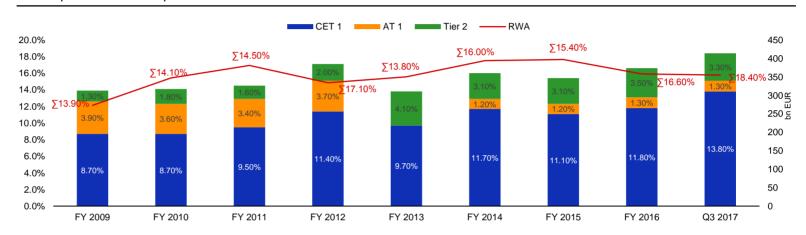
Development of capital & leverage



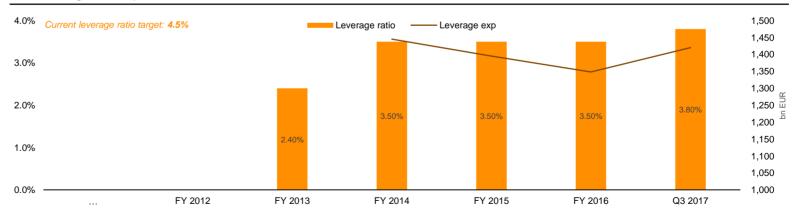
Deutsche Bank has actively managed its capital including Tier 2 issuance, spearheading the German AT1 development and issuing the first AT1's, accompanied with rights issues

RWA and Leverage Exposure are very difficult to manage: moving from Basel 2 to Basel 2.5 and Basel III kept increasing RWA despite active management

DB capital ratios development



DB leverage development



Deutsche Bank Source: Deutsche Bank Pillar 3 reports

Deutsche Bank Historical Disclosures

Development of liquidity



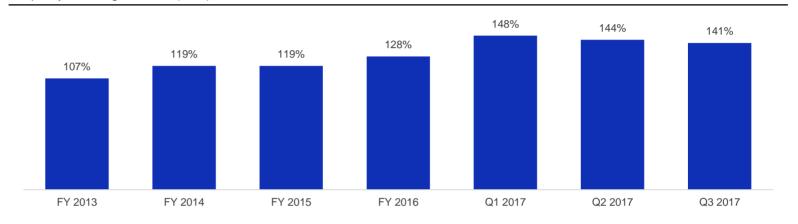
Both LCR and liquidity reserves reduced over the quarter driven by various initiatives to reduce cash balances

LCR buffer decreased to € 73bn above the required 2018 100% level corresponding to an LCR of 141%

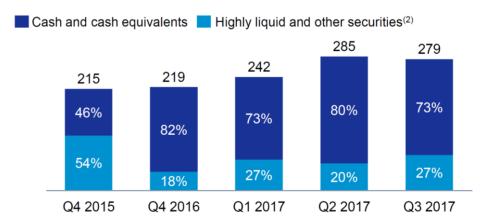
Reported liquidity reserves at € 279bn, a decrease of € 6bn in the third quarter, of which 73% held as cash primarily with Central Banks

Managing LCR and our liquidity reserve is an interregnal part of our Basel III implementation

Liquidity Coverage Ratio⁽¹⁾ (LCR)



Reported liquidity Reserves, € bn



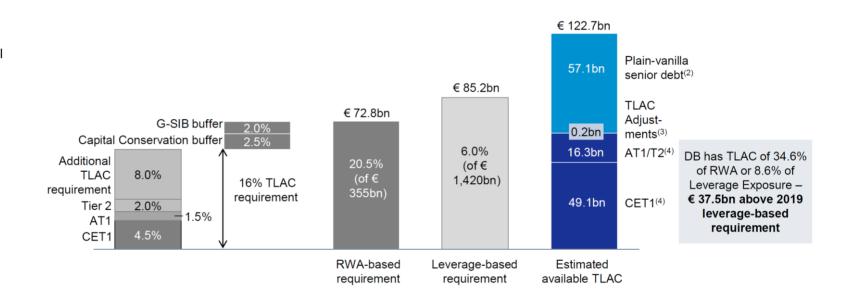
Deutsche Bank Total Loss Absorbing Capacity (TLAC)



Deutsche Bank currently massively over fulfills TLAC as Deutsche Bank's senior debt is eligible for TLAC

Once the new European regime of Senior Preferred and Senior non-preferred is finalized, Deutsche Bank will issue both classes of senior and ensure TLAC is continuously met

2019 Transitional TLAC availability and requirements(1) as of Q3 2017



Deutsche Bank External Funding Profile

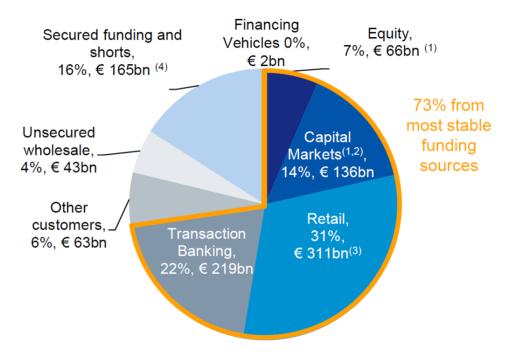
As of 30 September 2017, €bn



Funding profile well diversified: 73% of total funding from most stable sources(up 1% versus prior quarter)

Total funding sources(4) decreased by €27bn to €1,006bn, mainly driven by

- FX effect (stronger €vs. \$)
- Less secured CIB repo volumes reflected in secured funding & shorts
- Further reduced reliance on short-term wholesale funding



Total funding sources⁽⁵⁾: € 1,006bn

Figures might not sum due to rounding differences.

- 1) AT1 instruments are included in Capital Markets
- (2) Capital markets issuance differs from long-term debt as reported in our Group IFRS accounts primarily due to issuance under our x-markets programme which we do not consider term liquidity and differences between fair value and carrying value of debt instruments as reported in Consolidation & Adjustments
- (3) Includes Wealth Management deposits
- (4) Includes €27.5bn of TLTRO funding with a residual maturity of up to 2020
- (5) Funding sources exclude derivatives and other liabilities

Deutsche Bank Source: Deutsche Bank Q3 2017 report



"IMPORTANT: This presentation (the "**Presentation**") has been prepared by Deutsche Bank's investment banking department exclusively for the benefit and internal use of the recipient (the "**Recipient**") to whom it is addressed. Neither Deutsche Bank AG New York Branch, Deutsche Bank Trust Company Americas ("DBTCA") nor any of their banking affiliates is responsible for the obligations of Deutsche Bank Securities Inc. or any U.S. Broker-dealer affiliate. Unless specified otherwise, deposit products are provided by DBTCA, Member FDIC. The Recipient is not permitted to reproduce in whole or in part the information provided in this Presentation (the "**Information**") or to communicate the Information to any third party without our prior written consent. No party may rely on this Presentation without our prior written consent. Deutsche Bank and its affiliates, officers, directors, employees and agents do not accept responsibility or liability for this Presentation or its contents (except to the extent that such liability cannot be excluded by law).

Statements and opinions regarding the Recipient's investment case, positioning and valuation are not, and should not be construed as, an indication that Deutsche Bank will provide favourable research coverage of the Recipient or publish research containing any particular rating or price target for the Recipient's securities.

This Presentation is (i) for discussion purposes only; and (ii) speaks only as of the date it is given, reflecting prevailing market conditions and the views expressed are subject to change based upon a number of factors, including market conditions and the Recipient's business and prospects. The Information, whether taken from public sources, received from the Recipient or elsewhere, has not been verified and Deutsche Bank has relied upon and assumed without independent verification, the accuracy and completeness of all information which may have been provided directly or indirectly by the Recipient. No representation or warranty is made as to the Information's accuracy or completeness and Deutsche Bank assumes no obligation to update the Information. The Presentation is incomplete without reference to, and should be viewed solely in conjunction with, the oral briefing provided by Deutsche Bank. The analyses contained in the Presentation are not, and do not purport to be, appraisals of the assets, stock, or business of the Recipient. The Information does not take into account the effects of a possible transaction or transactions involving an actual or potential change of control, which may have significant valuation and other effects.

The Presentation is not exhaustive and does not serve as legal, accounting, tax, investment or any other kind of advice. This Presentation is not intended to provide, and must not be taken as, the basis of any decision and should not be considered as a recommendation by Deutsche Bank. Recipient must make its own independent assessment and such investigations as it deems necessary. In preparing this presentation Deutsche Bank has acted as an independent contractor and nothing in this presentation is intended to create or shall be construed as creating a fiduciary or other relationship between the Recipient and Deutsche Bank."