

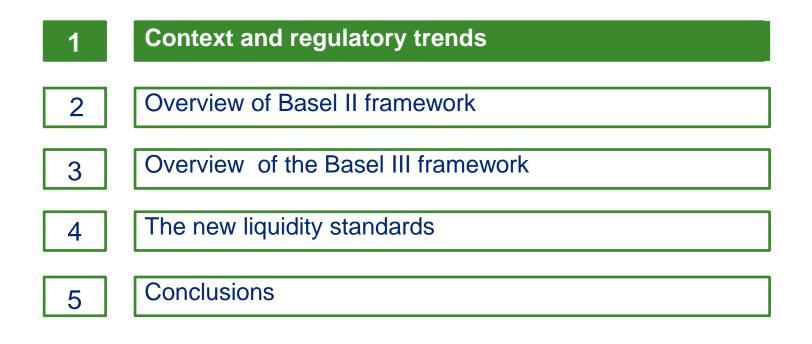
# The road to Basel III

# Developments of international banking supervision framework

Amman, March 20 2011

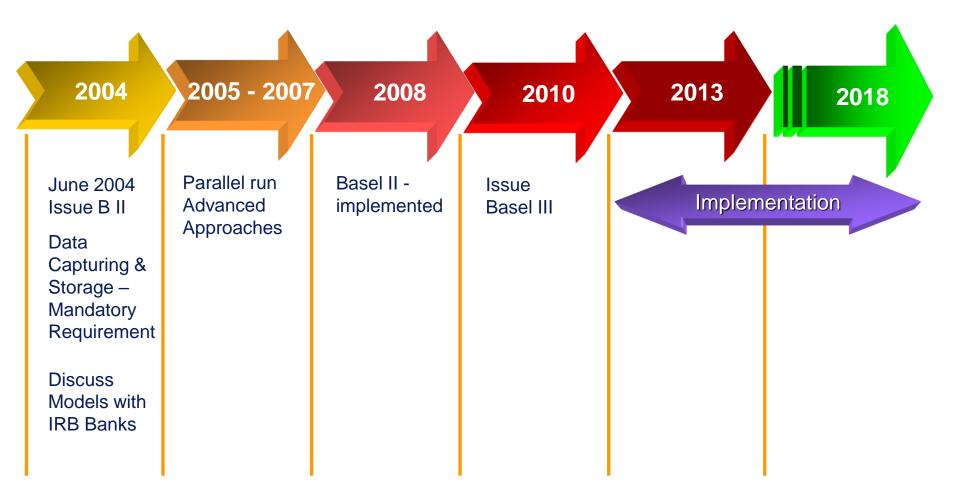


#### Content

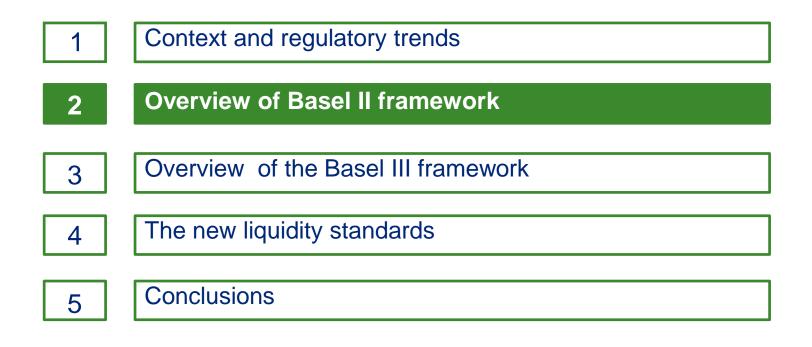




## **Timelines**

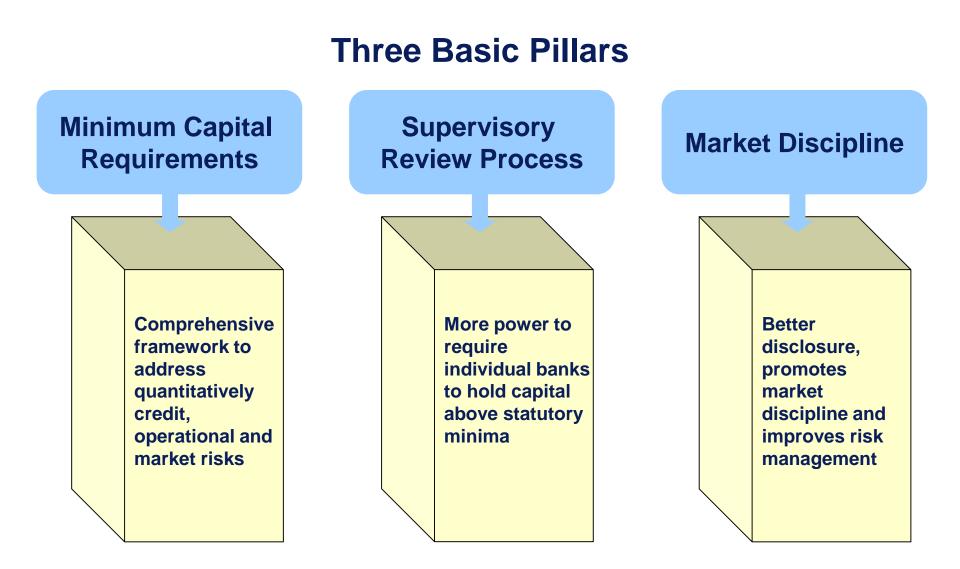


### Content





### **Key Features of the Basel II Framework**



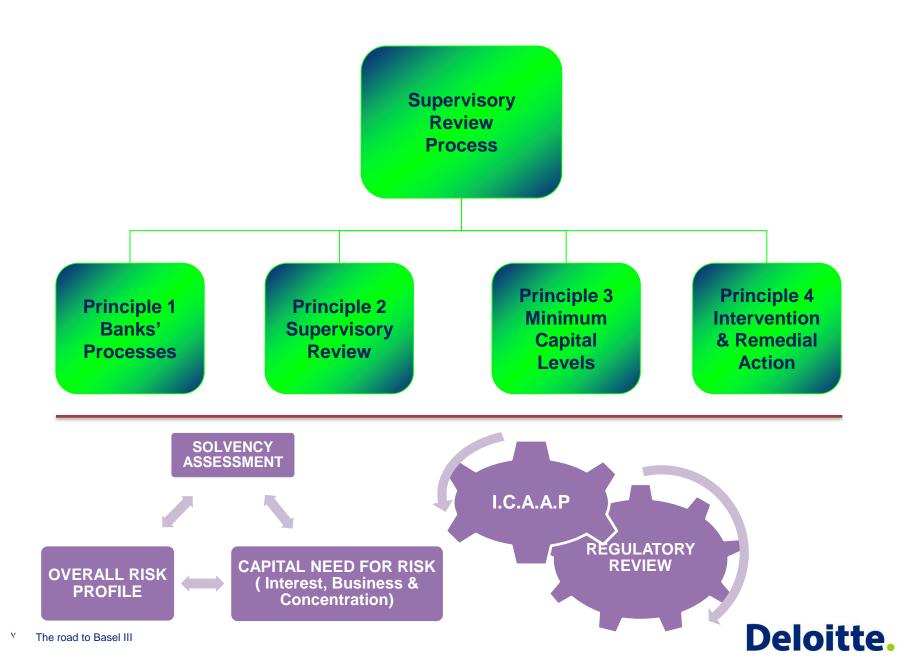
#### **Pillar 1 – Overview of Scale of Change**



# Major changes Completely new Largely unchanged



#### **Pillar II – Supervisory Review**



#### **Basel II Enhancements – Overview of the regulatory changes**

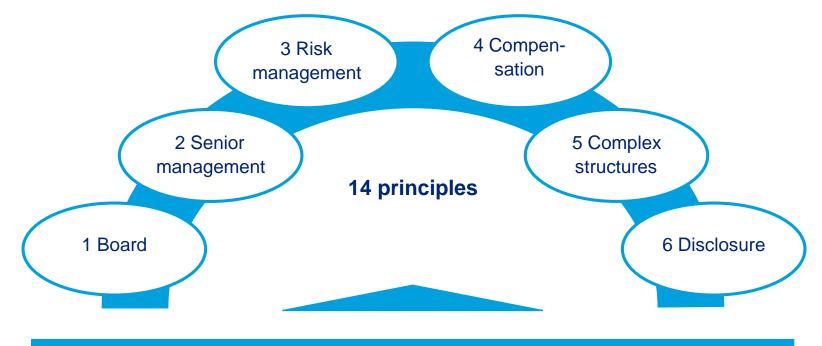
• The enhancement of the Basel II framework aims at improving the following areas: –Quality of firms" **capital** by establishing clear criteria for assessing the eligibility of hybrid" capital to be counted as part of a firm's overall capital;

- Reshape the 2006 corporate governance principles;
- Liquidity risk management and overall risk governance (Pillar 2); and
- Risk management of securitization exposures;
- Governance over remuneration principles;
- Practices around stress testing;

 Revisions to the market risk framework, including securitization and Re-securitization requirements and focusing on trading book requirements.

#### **Basel II Enhancements – Improve corporate governance**

Number of corporate governance failures during financial crisis stressed the importance of revisiting corporate governance principles:



Principles for enhancing corporate governance



#### **Basel II enhancements – Improving Pillar 2 framework Risk Management governance : high-level principles**

G20 11/2008  Regulators should "develop enhanced guidance to strengthen institutions' risk management practices[...] to re-examine their internal controls and implement strengthened policies for sound risk management"



#### Areas of consideration:

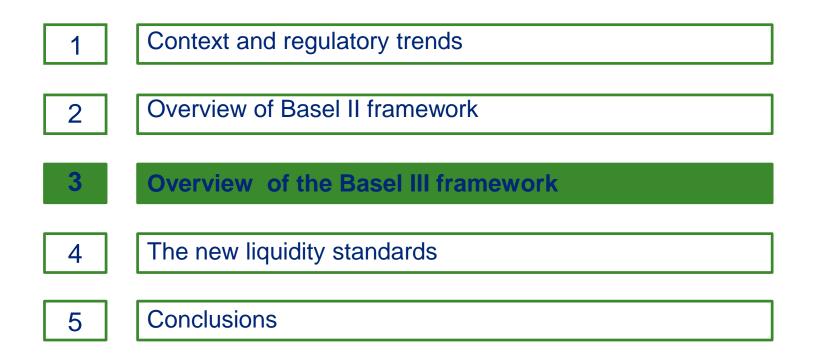
- 1. Governance and risk culture
- 2. Risk appetite and risk tolerance
- 3. Role of CRO and risk management function
- 4. Risk models and integration of risk management areas
- 5. New product approval policy and process

#### **Basel II enhancement – Compensation principles**

	Main principles on remuneration policy
1	Be consistent with and promote sound and effective risk management and which does not induce excessive risk-taking.
2	Be in line with the business strategy, objectives, values and long-term interests of the bank and consistent with the principles relating to the protection of clients and investors.
3	Be structured with (i) an appropriate balance of fixed and variable remuneration components and (ii) a maximum limit on the variable component.
4	Include a fixed component that represents a sufficient proportion of the total remuneration allowing the bank to have a fully flexible bonus policy.
5	<ul> <li>Where a significant bonus is awarded :</li> <li>main part of the bonus shall be deferred with a minimum deferment period</li> <li>deferred element of the bonus shall take into account the outstanding risks associated with the performance to which the bonus relates and may consist of equity, options, cash, or other funds, the payment of which is postponed until the end of the deferment period</li> <li>assessment of performance shall be set in a multi-year framework, (3-5 years) in order to ensure that the assessment process is based on longer-term performance</li> </ul>
6	Total amount of the performance-related remuneration shall be based on a combination of the assessment of the performance of the individual and of the business unit concerned and of the overall results of the bank
7	Measurement of performance, as a basis for bonus or bonus pools, shall include an adjustment for current and future risks related to the underlying performance and shall take into account the cost of the capital employed and the liquidity required
8	Apart from financial performance, qualitative factors shall be considered (such as compliance with internal rules and procedures, systems and controls of the financial institution, as well as compliance with the standards governing the relationship with clients and investors)

#### 11 The road to Basel III

### Content





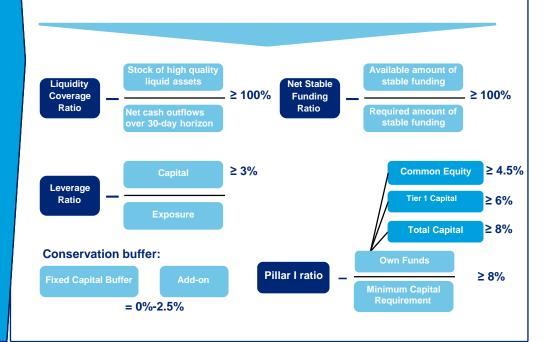
# December 09 BCBS paper induces the most impacting changes

#### Failures in the recent banking crisis

- Banking sectors of many countries had built up excessive on- and off-balance sheet leverage
- Gradual erosion of the level and quality of both the asset and the capital base
- Holding insufficient liquidity buffers
- Not able to absorb the resulting systemic trading and credit losses nor could it cope with the re-intermediation of large off-balance sheet exposures that had built up in the shadow banking system
- Crisis was further amplified by a pro-cyclical deleveraging process and by the interconnectedness of systemic institutions through an array of complex transactions

#### Main features of "Basel III"

- · Raising the quality of regulatory capital
- Improving various aspects of regulatory driven risk management practices, both quantitatively and qualitatively
- · Introduction of an overall maximum leverage ratio
- Measures to prevent pro-cyclical effects
- Addressing systemic risk and interconnectedness
- · Introduction of global liquidity standards



#### **Basel III – Overview of the measures**

	<ul> <li>The new framework focus on improvement of quality of Tier 1 with predominant" form of Tier 1 must be common shares and retained earnings (4,5%)</li> </ul>
1. Strengthening of Capital Base	<ul> <li>Tier 2 capital being harmonized and simplified; only one class of Tier 2 capital will remain.</li> </ul>
	<ul> <li>Tier 3 capital (currently available to cover market risk requirements) eliminated.</li> </ul>
	Enhanced disclosure sof capital base
	<ul> <li>The framework introduces a range of measures, which are to be seen in addition to the trading book and securitization reforms announced in July 2009.</li> </ul>
2. Enhancing risk coverage	Strengthening capital requirements for Counterparty Credit Risk
2. Enhancing has coverage	<ul> <li>Focus is on improvement of capital standards relating to EAD and collateral management in the trading book</li> </ul>
	<ul> <li>Further, the proposal introduces new rules relating to how to deal with external ratings and credit rating agencies</li> </ul>
	<ul> <li>The framework introduces an overall restriction of leverage (exposure / capital) fixed at 3%</li> </ul>
3. Introduction of an Overall Leverage Ratio	<ul> <li>Aim is to reinforce the risk-based requirements with a simple, non-risk- based "backstop" measure based on gross exposure, and to harmonize the new measure internationally, fully adjusting for material differences in accounting</li> </ul>
	<ul> <li>The proposal defines in more detail how to deal with derivatives, commitments, etc</li> </ul>

#### **Basel III – Overview of the measures**

4. Dealing with Procyclicality	<ul> <li>Dampen any excess cyclicality of the minimum capital requirement</li> <li>Promote more forward looking provisions, in line with the recent IASB proposals</li> <li>Introduce conserve capital to build buffers at individual banks and the banking sector that can be used in stress</li> <li>Protect the banking sector from periods of excess credit growth through introduction of additional capital buffers in such periods, up to 2.5%</li> </ul>
5. Addressing Systemic Risk and Interconnectedness	<ul> <li>Capital incentives for banks to use Central counterparties for OTC derivatives</li> <li>Higher capital requirements for trading and derivative activities, complex securitisations and off-balance sheet exposures</li> <li>Higher capital rquirements for inter-financial sector exposures</li> <li>Possible capital and liquidity surcharge for systemically important banks are still under investigation with the FSB</li> </ul>
6. Introduction of Global Liquidity Risk Standards	<ul> <li>Capital requirements alone are not sufficient to promote sound risk management and basic principles of liquidity risk management reinforced through robust supervisory standards is of equal importance</li> <li>A 30-day liquidity coverage ratio is intended to promote short-term resilience to potential liquidity disruptions</li> <li>The second standard is a longer-term structural ratio to address liquidity mismatches, in order to provide incentives for banks to use stable sources to fund their activities.</li> </ul>

#### **Basel III – Overview of the measures**

One of the highest priority issues on the Basel Committee's regulatory reform agenda is the need to strengthen the quality, consistency and transparency of the capital base.

- Capital base not capable of absorbing losses in case of economic downturn
- Banks reported high Tier 1 ratios with only low level of core Tier 1
- Distorted Tier 1 ratios due to regulatory adjustments from total capital base
- No harmonized list of regulatory adjustments
- No harmonized definition of the capital base
- No comparability of capital base across jurisdictions
- Insufficient transparency
- Problems in assessing capital quality
- Lacking reconciliation with published financial accounts

- Capital must be capable of absorbing losses as and when they occur
- Tightened criteria for inclusion in regulatory capital base
- Principle-based-approach
- Regulatory capital must be simplified and harmonized across jurisdictions
- Minimum set of regulatory adjustments must be harmonized internationally
- Minimum criteria governing inclusion in regulatory capital
- Improved transparency of capital base
- All components of capital must be disclosed in detail
- Comparison of capital adequacy across jurisdictions

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Quality

Consistency

### Zoom on capital definition (2/2)

Agreement on the calibration of the capital ratios already announced by oversight body of the BCBS on September12, 2010. These capital reforms have been proposed to and endorsed by G20 in November 2010.

Calibra	ition of capital ratios	(incl. butters)		
	Common Equity (after deductions)	Tier 1 Capital	Total Capital	
Minimum	4.5%*	6.0%	8.0%	
Conservation buffer	2.5%			* Predominant form of Tier 1 capital =
Minimum plus conservation buffer	7%	8.5%	10.5%	75%
Countercyclical buffer range	0 - 2.5%**			** Common equity or other fully loss absorbing capital

#### 2. Phase-in arrangements (incl. transition periods)

all dates are as of tot January	2013	2014	2015	2016	2017	2018	2019
Minimum common equity ratio	3.5%	4.0%	4.5%	4.5%	4.5%	4.5%	4.5%
Capital Conservation buffer				0.625%	1.25%	1.875%	2.5%
Minimum common equity ratio (+ buffer)	3.5%	4.0%	4.5%	5.125%	5.75%	6.375%	7.0%
Minimum Tier 1 Capital	4.5%	5.5%	6.0%	6.0%	6.0%	6.0%	6.0%
Minimum Total Capital	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%
Minimum Total Capital (+ buffer)	8.0%	8.0%	8.0%	8.625%	9.125%	9.875%	10.5%
Disclosure starts 1 January 2015							

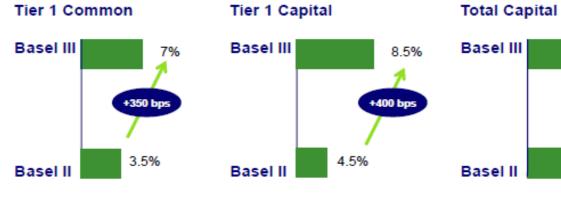
#### Zoom on the leverage ratio

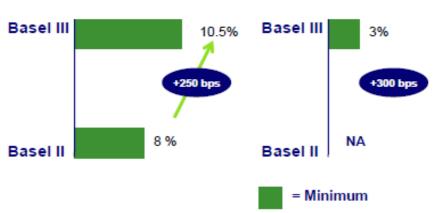
- The leverage ratio is a non risk-based metric
- The leverage ratio is the ratio between Tier 1 and total Balance Sheet + some Off Balance Sheet items
- Starting point = 3%
- The 3% leverage ratio will be monitored in 2011 and 2012, and tested from 2013 to 2017
- Leverage ratio to become binding in 2018
- A binding leverage ratio will put the EU at a competitive disadvantage, mainly compared to the USA



#### **Basel III - Timeline of the main phase-in arrangements**

	As of 1 January								
	2011	2012	2013	2014	2015	2016	2017	2018	2019
Leverage Ratio		rvisory itoring	Pa		Jan 2013 - re starts 1 J	- 1 Jan 201 Ian 2015	7	Migration to	o Pillar 1
Minimum Common Equity Capital Ratio			3.50%	4.00%	4.50%	4.50%	4.50%	4.50%	4.50%
Minimum Tier 1 Capital			4.50%	5.50%	6.00%	6.00%	6.00%	6.00%	6.00%
Minimum Total Capital plus conservation buffer (fully composed of common equity)			8.00%	8.00%	8.00%	8.63%	9.13%	9.88%	10.50%
Liquidity coverage ratio	-	Observa	tion period			New m	ninimum sta	andard	
Net stable funding ratio		Observation period				New mir stand			

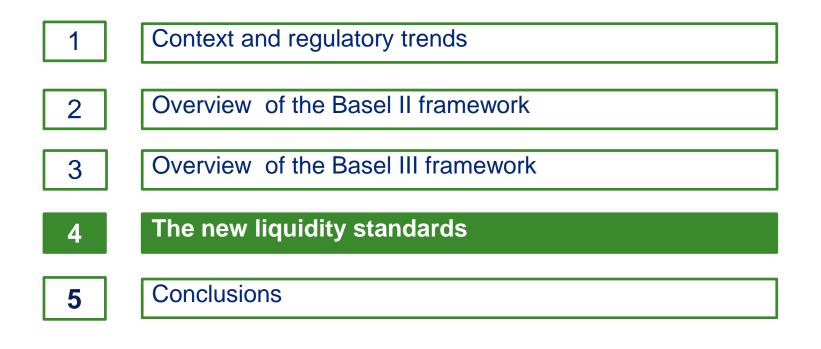




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Leverage

### Content





#### **Introduction & Background**

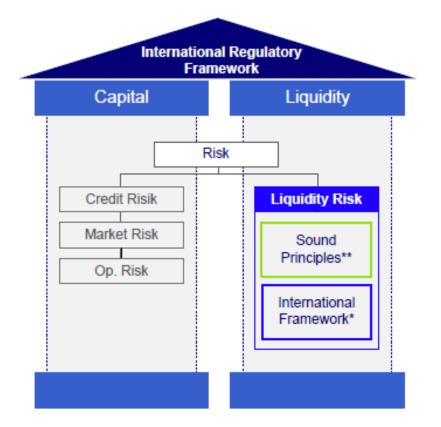
The new regulatory framework for liquidity risk consists of two parts: Guidelines for the internal liquidity risk management and binding liquidity ratios.

#### Sound Principles

- Principles-based framework for an integrated, bank-wide liquidity risk management
- Guidelines for the governance, measurement and management of liquidity risk

#### International Framework

- Liquidity framework is part of comprehensive reform package proposed by BIS ("Basel III")
- First internationally harmonised and binding minimum (!) standards for liquidity risk
- Liquidity on an equal standing with capital, but no no regulatory capital requirements for liquidity risk
- Rules-based regulatory approach like Basel II
- Scope of application international active bank on a consolidated basis with opening clause



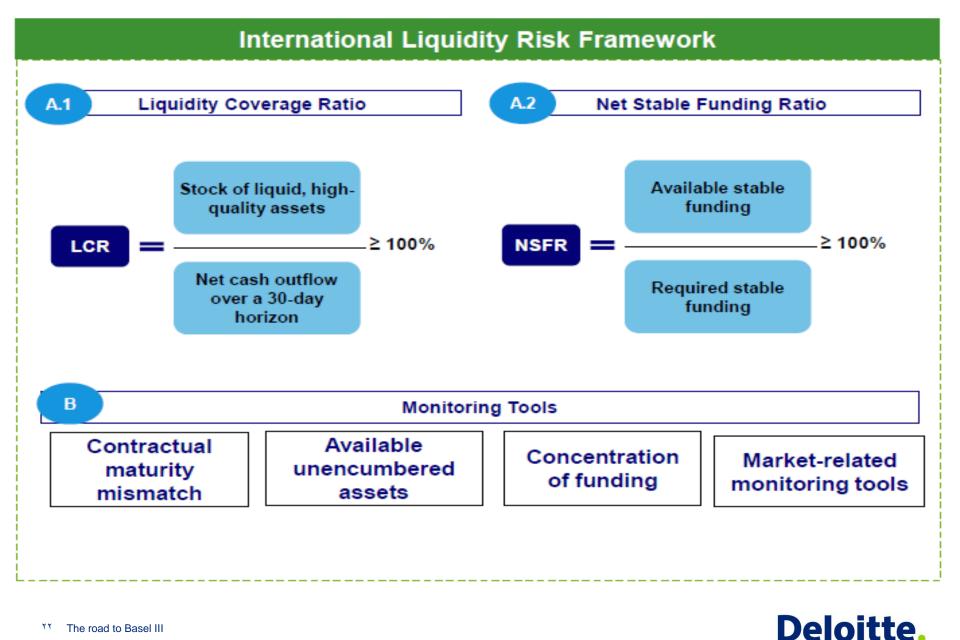
<sup>\* &</sup>quot;International framework for liquidity risk measurement, standards and monitoring" of the BIS / December 2009

\*\* "Principles of Sound Liquidity Risk Management and Supervision" of the BIS / September 2008

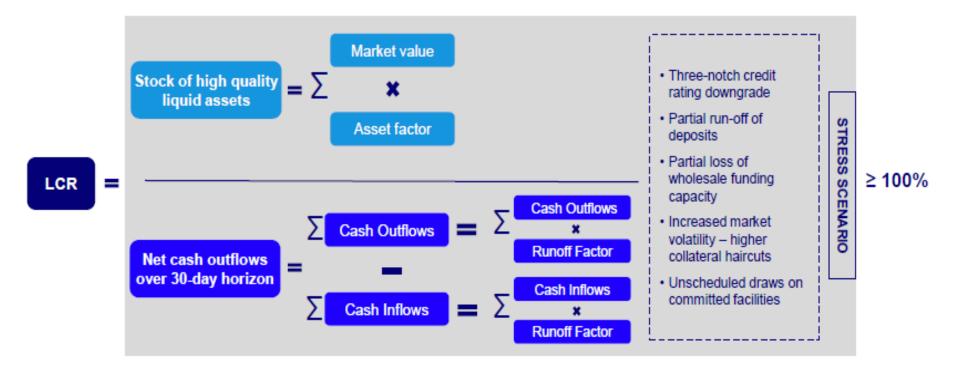
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The road to Basel III

#### Zoom on the proposed new liquidity risk standards



Banks must maintain an adequate level of unencumbered, high quality assets to meet their liquidity needs for a 30-day time horizon under an acute stress scenario.



- Survival period of 30 days funding gaps < 30 days are neglected
- Stress scenario is a combination of idiosyncratic and systematic factors, defined through asset and runoff factors specified by regulators

•"One size fits all" philosophy reduces risk sensitivity for the sake of harmonization – internal stress tests at banks based on BIS sound principles are required to complement ratio

The nominator of the LCR is composed of a "stock of unencumbered, high quality liquid assets". The exact composition of the buffer is subject to intense discussion.

- Composition of buffer is central matter of discussion – important for QIS/calibration
- Conservative approach and restrictive wording by BIS as a result of the crisis
- 2 level of assets (level 1 assets, level 2 assets)
- Level 1 assets: cash & sovereign bonds.
- No blanket inclusion of sovereign bonds, additional criteria, e.g. 0% risk weight apply
- Level 2 assets: Specific corporate bonds, covered bonds and sovereign bonds
- Additional restrictive criteria for level 2
   assets

	List of qualifying 'high quality liquid assets'	Factor
1	Cash Central bank reserves Marketable securities issued or guaranteed by sovereigns, central banks, PSEs and multilateral development banks Domestic sovereign /central bank debt in domestic currency and in foreign currency under certain conditions	100%
2	Specific plain vanilla corporate bonds, rating > AA- Specific plain vanilla covered bonds, rating > AA-	85%
3	Securities issued by sovereigns or PSEs qualifying for the 20% risk weighting under Basel II	85%

#### Characteristics of 'high quality liquid assets'



The categorization of cash outflows is detailed and comprehensive. Wholesale funding, derivatives and banks get an especially conservative treatment.

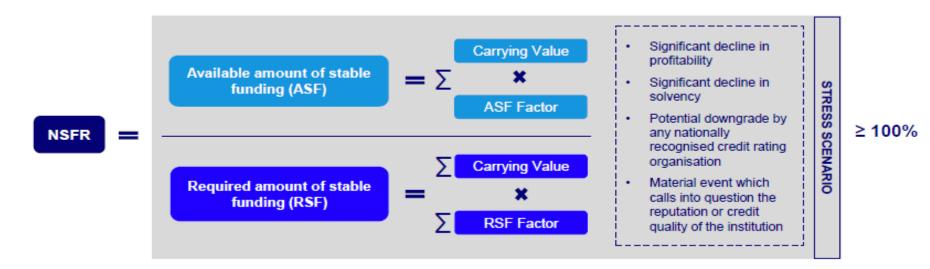
		Outflows							
	Deposits	Unsecured wholesale funding	Committed credit/liquidity facilities	ABS/ ABCP	Secured wholesale funding	Collateral/ derivates	Various		
Retail customers	Stable: 5% Instable: 10%		Credit: 5%, Liqui: 10%						
SME		Stable: 5% Instable: 5%	Credit SME: 5%			3-notch Downgrade Triggers:	Retail/ Wholesale:		
Non-Financials, Sovereigns* (with operational relationships)		25%	Non FSI and Sovereigns: 10% Liqui:100% Credit and	Sovereigns: 10%		Repos: Buffer Assets	100% Negative	100% Repos:	
Non-Financials, Sovereigns* (without operational relationships)		75%			100%	0% Other Assets 25%	market value changes Collateral:	Buffer Assets 0% Other Assets	
Financial Institutions** (with operational activities)		25%			P	20% Derivatives:	25% Credit facilities:		
Financial Institutions**(w/o operational activities)		100%	liquidity facilities: 100%			tbd (national level)	0%		
Others***		100%	10070						

\* Sovereigns, Central Banks, Public Sector Entities; \*\* \* Financial institutions (banks, securities firms, insurance companies, multilateral development banks; \*\*\* fiduciaries, beneficiaries, conduits, SPVs, affiliated companies

- Categorization of outflows according to type of instrument/funding, counterparts, stability, existence of operational relationships and collateral
- Focus on outflows with detailed definitions and criteria -> regulatory arbitrage analogous to Basel II?
- Conservative approach with regard to wholesale funding, derivatives and banks response to crisis
- Additional requirement to include (non-)contractual contingent liabilities (reputational risk!)



"This metric establishes a minimum acceptable amount of stable funding based on the liquidity characteristics of an institution's assets and activities over a one year horizon."



- NSFR promotes medium to long-term funding thus reducing incentives for short-term wholesale funding and supplements the LCR (by also counterbalancing "cliff-effects")
- The stress scenario is defined differently from the one underlying the LCR idiosyncratic stress over 1 yr
- •"Stable funding" is defined as those types of equity and liabilities expected to be reliable sources of funds under an extended stress scenario of one year
- For determination of the required funding amount accounting and regulatory treatment is irrelevant required funding amount depends solely on the respective instrument's liquidity characteristics

The higher/lower the ASF/RSF-factor per category the easier the financial institution meets the NSFR requirements.

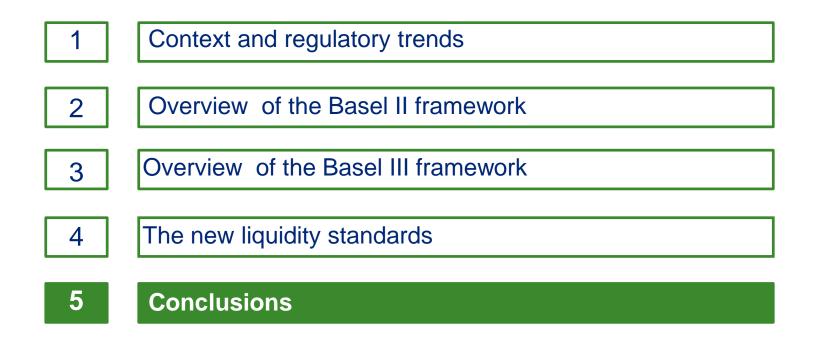
	ASF Categories (numerator)	Factor		RSF Categories (denominator)	Factor
	Total amount of capital, including both Tier 1 and Tier 2		1	Cash, money market instruments Securities, loans to financial entities, effective maturity< 1 Y	0%
1	Preferred stock not included in Tier 2, effective maturity ≥ 1 Y (without embedded option)	100%	2	Specific unencumbered government/quasi-sovereign bonds with excellent rating, active repo-markets, ≥ 1 Y	5%
	Total amount of secured and unsecured borrowings and liabilities ≥ 1 Y		3	Off B/S credit and liquidity facilities	5%
2	Stable Retail/SME deposits < 1 Y	90%	4	Specific unencumbered corporate bonds or covered bonds with excellent rating, active and liquid markets, ≥ 1 Y	20%
3	Less stable Retail/SME deposits < 1 Y	80%	5	Gold, loans to non-financial corporate clients < 1 Y,	50%
4	Unsecured wholesale funding and deposits	50%	5	etc.	30%
-	provided by non-financial corporate customers<1 Y	5070	6	Residential Mortgages qualifying for Basel II 35% risk wght.	65%
5	All other liabilities and equity categories	0%	7	Loans to retail clients, < 1 Y	85%
			8	All other assets	100%
* N	lational supervisors can specify the RSF factors based on their national circu	imstances	9	Other Off B/S Items (letter of credits, guarantees, non contractual contingent funding obligations )	tbd*

- ASF factors define amount of assets that would be expected to stay with the institution for an extended
  - period in an idiosyncratic stress event partly applies to assets with effective maturity < 1 year
- RSF factors approximate the amount of a particular asset that could not be monetized during a liquidity event lasting one year the higher the availability under stress the lower the RSF factor
- Holding stable funds for contingent liabilities that currently do not affect liquidity is tantamount to a "reserve" of stable funding for stress-events.
  - YY The road to Basel III

On top of the LCR and the NSFR the framework introduces four tools which enable the regulator to monitor the liquidity situation of the respective bank.

ΤοοΙ	Definition	Aim
Contractual Maturity Mismatch	<ul> <li>Reporting of contractual maturity mismatch profile – Mapping of inflows and outflows of both on- and off-balance sheet positions to defined time bands based on their contractual maturities</li> </ul>	<ul> <li>Insight into the extent to which the bank relies on maturity transformation, based on (very) conservative assumptions</li> <li>Supplemented by internal profiles including behavioural assumptions (Going Concern, Stress) according to the BIS Sound Principles</li> </ul>
Concentration of Funding	<ul> <li>Reporting of "significant" concentrations within the wholesale funding profile</li> <li>For: counterparts, products, currencies; reported e.g. as simple, pre-defined ratios; "significant" defined as &gt; 1% total liabilities</li> </ul>	<ul> <li>Diversification of funding sources, as required within the BIS Sound Principles</li> <li>Liability equivalent to "Large Exposure" regulation/Art. 27 ABA</li> </ul>
Available Unencumbered Assets	<ul> <li>Reporting of available unencumbered assets, that could serve as collateral in secondary markets or are eligible for central banks" standing facilities</li> </ul>	Insight into available additional funding
Market-related monitoring tools• Regulator,,s monitoring of market-wide information, information on the financia as well as bank-specific information		Early warning signals for potential liquidity crisis situation

### Content





#### **Basel III: How to prepare to this new framework?**

Торіс	Main impacts	Action points
Regulatory Capital	<ul> <li>Increased need for CE / Tier1 / Tier2 due to higher levels of requirements, higher deductions and ineligibility of some instruments</li> <li>Higher capital consumption for the various segments / activities</li> </ul>	<ul> <li>Run test calculations</li> <li>Reengineer capital planning processes &amp; policy</li> <li>Review level of capital consumption for each segment</li> <li>Review business models / strategy around capital consuming activities</li> <li>Monitor change in business models / strategies</li> </ul>
Liquidity Risk Management	<ul> <li>Product constraints on assets invested and liabilities available</li> <li>Technical constraints for building scenarii and gathering prospective data</li> </ul>	Portfolio reengineering
Leverage Ratio	New cap on the build-up of leverage	<ul> <li>Review current business models (non risk-based metrics) in the light of new Pillar I requirements</li> </ul>
Provisioning	<ul> <li>Introduction of countercyclical capital buffers through a combination of forward-looking provisioning and capital buffers</li> </ul>	<ul> <li>Look forward, introduce dynamic provisioning in order to conserve capital to be available during periods of stress</li> <li>Move towards an expected-loss approach, being less procyclical than the current incurred loss approach to provisioning</li> </ul>
Risk Management	<ul> <li>Manifold ratios to monitor on a constant basis will require adjustment of risk appetite target and will impact information systems.</li> </ul>	<ul> <li>Extension of risk oversight metrics and embedment of new requirements in risk and capital exercise such as ICAAP.</li> </ul>
	<ul> <li>CRD II and III also impact activities in treasury and trading departments</li> </ul>	<ul> <li>Management Information Systems to be reviewed</li> </ul>

Impacts of Basel III will be more of strategic nature: how to cope with different approach based on capital management strategies, redefinition and anticipation of new business model to optimize capital, integration of both Liquidity and Capital management strategies, etc.

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