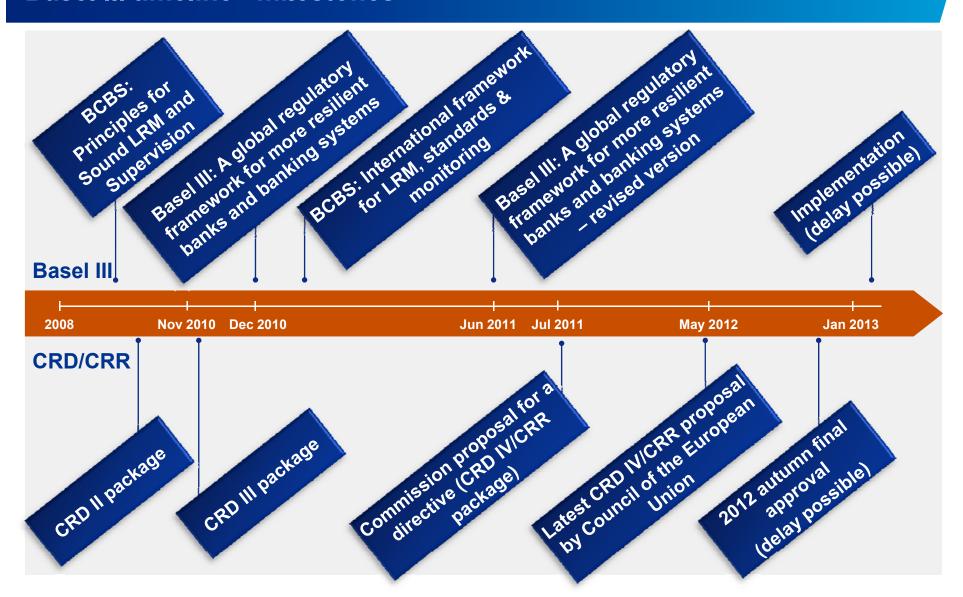


# Basel III challenges Agenda

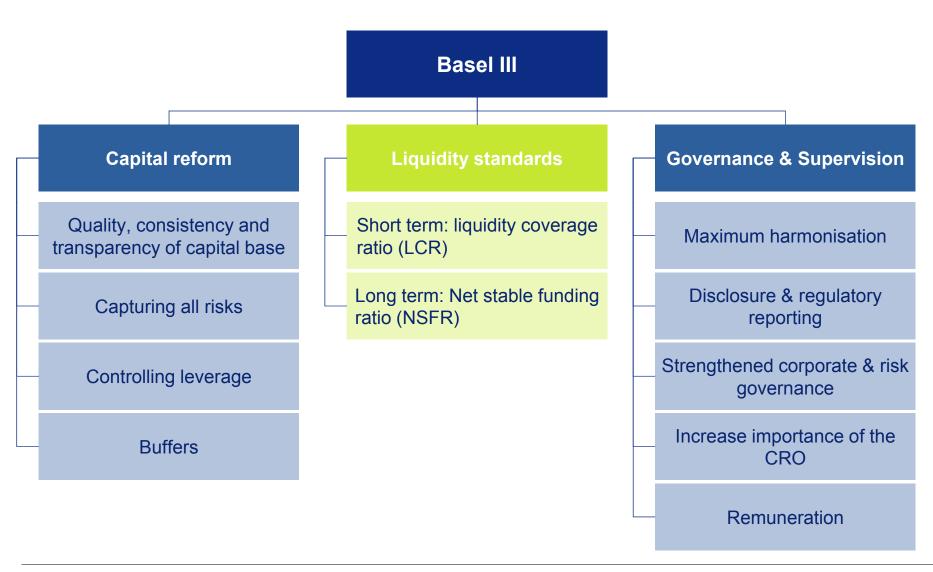
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#### Introduction

#### **Basel III timeline - milestones**



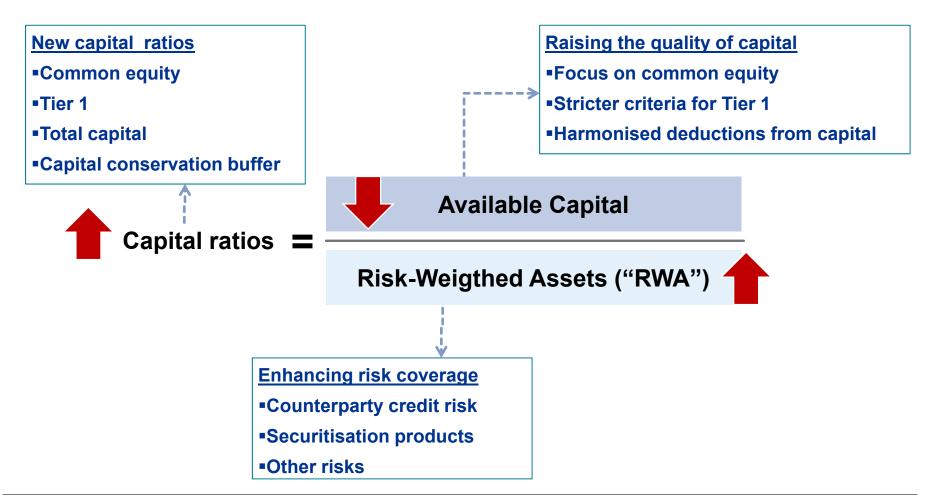
### Key elements of the new Capital Requirements Regulation and Directive



# Basel III challenges **Agenda**

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#### Capital reform – overview of key changes



### **Increasing capital ratios**

Core Tier 
$$1 - 2\% \rightarrow CET \ 1 - 4,5\%$$
Tier  $1 - 4\% \rightarrow Tier \ 1 - 6\%$ 
Tier  $1 + Tier \ 2 + Tier \ 3 - 8\% \rightarrow Tier \ 1 + Tier \ 2 - 8\%$ 

### Additional capital buffer requirement

#### Gradual introduction

## **Capital Buffers**

The build-up in good times of buffers can be drawn down in periods of stress.

# Capital conservation buffer

- Against losses during periods of financial and economic stress
- Shall be 2,5% with a possible regulatory derogation
- Strengthening of shock absorbing ability on institution level

# Countercyclical capital buffer

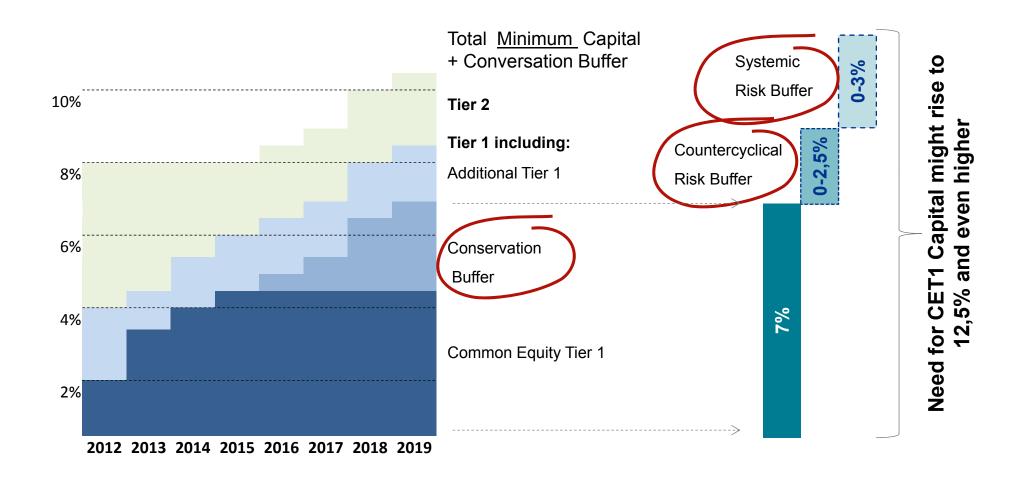
- To build up the protection of the banking sector in periods of excess aggregate credit growth
- The long-term maintenance of the lending capacity of the banking sector
- **Shall** be 0-2,5% or more, set by the competent authority
- Shall be based on the deviation of the credit-to-GDP ratio in a long term trend

# Systemic risk buffer

- To prevent and mitigate long term non cyclical systemic or macro prudential risk not covered by other buffers
- May be 0-3% or more, set by the competent authority
- May also apply for exposures in other member states

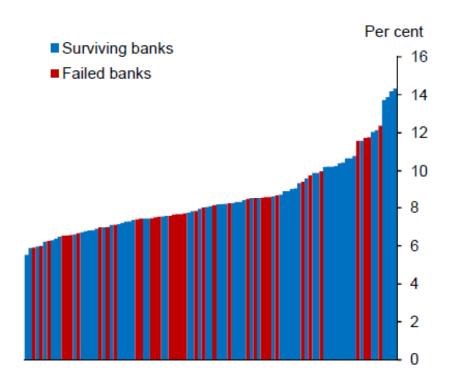
- The Common Equity Tier 1 capital used to cover Pillar 2 risk shall not be used to meet the buffer requirements.
- If buffer requirements are not met capital conservation measures shall apply.

## **Capital requirements and capital buffers**

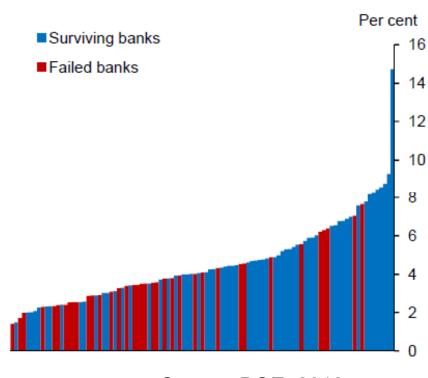


# New capital ratios Leverage ratio

# Risk-based capital ratios of major global banks, end-2006



# Leverage ratios of major global banks, end-2006



Source: BOE, 2012

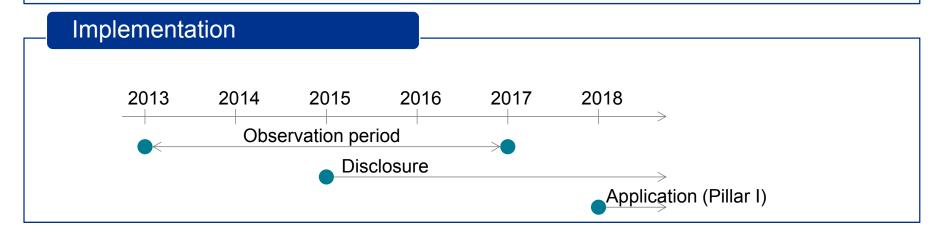
## Leverage ratio

#### Why is leverage important?

- Contributed to the global financial crisis
- In the lead up to the crisis, many banks reported strong risk-based capital ratios while still being able to build high levels of on- and off-balance sheet leverage

#### Prudential purposes

- Build-up of excessive leverage in the system
- Non-risk-based → volume based
- Additional safeguard against attempts to the risk-based requirements
- Against model and measurement risk



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## Liquidity risk management failures



- Rapidly growing mortgage portfolio from wholesale market funding (70%)
- Long term, structural balance sheet problems



- Risky assets and high leverage, lack of sufficient buffers
- Short term liquidity crisis

## Quantitative minimum liquidity requirements

Liquidity coverage ratio (LCR)  OBJECTIVE: to promote the short-term resilience of the liquidity risk profile of banks by ensuring that they have sufficient high-quality liquid assets to survive a significant stress scenario lasting 30 calendar days.

Net stable funding ratio (NSFR)

OBJECTIVE: to promote resilience over a longer time horizon by creating additional incentives for banks to fund their activities with more stable sources of funding on an ongoing basis.

Combined idiosyncratic and market wide stress scenario

## **Short-term resilience to liquidity disruptions**

Liquidity Coverage Ratio =

0	Stock of	f high	quality	liquid	assets
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Net cash outflows over a 30 day period

Expectations for high quality liquid assets						
Fundamental characteristics: Market related characteristics:						
□Low credit and market risk	☐Active and sizeable market (broad and deep)					
□Easy and certain valuation	□Presence on market					
□Low correlation with risky assets	□Low market concentration					
□Listed on developed exchange	□Flight to quality					
□Eligible at central banks as collateral						
Operational requirements: well diversified, legally and practically readily available during the next 30 days,						

Level 1 assets	Level 2 assets
Can be an unlimited share of the pool	No more than 40% of the stock of liquid assets after haircuts have been applied
Held at market value and not subject to a haircut	Should be well diversified in terms of type of assets, type of issuer, counterparties
	A minimum 15% haircut is applied in each type

unencumbered assets, periodically testing market tradability, assets will not be used in other ongoing operations.

≥ 100%

# **Short-term resilience to liquidity disruptions**

Level 1 →100%	Level 2 →85%
<ul> <li>Cash</li> <li>Central bank reserves</li> <li>Marketable securities/claims on sovereigns, central banks (). <ul> <li>assigned 0 % RW under Basel II standardized</li> <li>traded in large, deep and active repo or cash markets with low levels of concentrations</li> <li>proven record as a reliable source of liquidity in the markets even during stressed conditions; and</li> <li>not an obligation of a financial institution or its affiliated entities</li> </ul> </li> </ul>	<ul> <li>Marketable securities to sovereigns, Central banks () that are:         <ul> <li>assigned 20% RW under Basel II standardized approach</li> <li>traded in large, deep and active repo or cash markets with low levels of concentrations</li> <li>proven record as a reliable source of liquidity in stressed markets (repo and sale) (maximum decline in price or increase in haircut over 30 day period10%)</li> <li>not an obligation of a financial institutions or its affiliated entities</li> </ul> </li> <li>Corporate bonds and covered bonds:</li> </ul>
<ul> <li>Government debt securities in domestic currency (non 0% RW), issued by the sovereign or the central bank in the country in which the liquidity risk is being taken or in the bank's home country</li> <li>For non-0% RW sovereign or central bank debt securities issued in foreign currencies so that it matches the currency needs of the bank in that jurisdiction</li> </ul>	<ul> <li>not issued by a FI or a bank and their affiliated entities</li> <li>both at least AA- or with no external rating and are internally assessed as AA- equivalent (using approved internal rating systems) - additional criteria will be developed during the observation period</li> <li>traded in large deep and active repo or cash market with low level of concentration</li> <li>proven record as a reliable source of liquidity in stressed markets (repo and sale) (maximum decline in price or increase in haircut over 30 day period 10%)</li> </ul>

### **Short-term resilience to liquidity disruptions**

2 Net cash outflows over a 30 day period = outflows – Min {inflows, 75% of outflows}

- **No double counting** if assets are included in the numerator of the ratio (stock of liquid assets), do not count as inflows.
- Only includes contractual inflows from outstanding exposures that are fully performing and for which the bank has no reason to expect a default within the 30-day time horizon.
- "Stable" definition:
  - part of an established relationship making withdrawal highly unlikely;
  - held in a transactional account, including accounts to which salaries are regularly credited;
  - > fully covered by public guarantee or deposit insurance scheme.
- Operational relationship definition: clearing, custody, cash management services in the context of an established relationship.

# Short-term resilience to liquidity disruptions

Cash outflows	Factor	Cash outflows	Factor
<ul> <li>Retail deposits</li> <li>Stable</li> <li>Less stable</li> <li>Term deposits with residual maturity</li> <li>&gt;30 days with a withdrawal with a significant penalty or no legal right to withdraw</li> </ul>	5% 10% 0%	<ul> <li>Non financial corporate and central banks and PSEs liquidity facilities</li> <li>Other legal entity customer, credit and liquidity facilities</li> <li>□ Additional requirements ()</li> </ul>	10% 100%
☐ Secured funding		Cash inflows	
<ul> <li>Backed by level 1 assets</li> <li>Backed by level 2 assets</li> <li>Secured funding transaction with domestic sovereign central banks or PSEs (max RW 20%) that are not backed by L1 or L2 assets</li> <li>All other secured funding transactions</li> <li>Unsecured wholesale funding</li> <li>Stable small business customers</li> <li>Less stable small business customer</li> <li>Legal entities with operational relationships</li> <li>Non-financial corporate, ()</li> </ul>	0% 15% 25% 100% 5% 10% 25% 75%	<ul> <li>□ Reverse repos and securities borrowing with the following as collateral:         <ul> <li>Level 1 assets</li> <li>Level 2 assets</li> <li>All other assets</li> </ul> </li> <li>□ Credit of liquidity facilities</li> <li>□ Operational deposits held at other financial</li> <li>□ Other inflows by counterparty         <ul> <li>Retail (e.g. repayments for fully performing loans)</li> <li>Non financial wholesale</li> </ul> </li> </ul>	0% 15% 100% 0% 0% 50%
Other legal entity customers	100%	counterparties	00,0
<ul> <li>Undrawn portion of committed credit and liquidity facilities to:         <ul> <li>Retail and small businesses clients</li> <li>Non financial corporate, sovereigns ()</li> </ul> </li> </ul>	5% 10%	<ul> <li>Financial institutions from transaction other than the ones above</li> <li>Net derivative receivables</li> </ul>	100%

### Medium and long-term crisis scenario

#### Medium and long-term crisis scenario

- □ Significant deterioration of earning capacity due to the durable existence of credit, market, operational or other types of risk.
- Prospect of possible downgrades by credit rating agencies on bank's bonds or counterparty risk rating.
- Name related reputational crisis.

- "Stable funding" means as the portion of those types and amounts of equity and liability financing expected to be reliable sources of funds over a one-year time horizon under conditions of extended stress.
- "Required funding": Mainly assets and off balance exposures that an institution has to cover with additional resources.

## Medium and long-term funding of the assets and activities of banks

Sources		Uses	
Available Stable Funding	Factor	Required Stable Funding	Factor
<ul> <li>Tier 1 &amp; Tier 2 capital instruments</li> <li>Preferred shares and capital in excess of Tier 2 allowable amount with effective maturity &gt;1 year</li> <li>Other liabilities with effective maturity &gt;1 year</li> </ul>	100%	<ul> <li>Cash</li> <li>Securities with remaining maturity &lt;1yr</li> <li>Non-renewable loans to financials with remaining maturity &lt;1yr</li> <li>()</li> </ul>	0%
Stable deposits of retail and small business customers (non-maturity or residual maturity <1yr)	90%	Debt issued or guaranteed by sovereigns, central banks () with 0% risk weight under Basel II standardized.	5%
Less stable deposits of retail and small business customers (non-maturity or residual maturity <1yr)	80%	Unencumbered non financial senior corporate bonds (),maturity≥ 1 year	20%
Wholesale funding provided by non-financial corporate customers, sovereign central banks, multilateral development banks and PSEs. (non maturity or residual maturity <1 yr)	50%	<ul> <li>Unencumbered listed equity securities () maturity ≥1 year</li> <li>Gold</li> <li>Loans to non-financial corporate clients, sovereigns, central banks, and PSEs with a maturity &lt; 1 year</li> </ul>	50%
All other liabilities and equity	0%	Unencumbered residential mortgages ()	65%
		Other loans to retail clients and small businesses having a maturity <1yr	85%
		All other assets	100%

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### Results of the Basel III monitoring exercises - liquidity

Institution	Banking group	Number of banks	LCR	Outflows*	Inflows*	NSFR
BCBS	Group 1	102	91%	21,5%	5,7%	98%
BCBS	Group 2	107	98%	13%	4,40%	95%
EBA	Group 1	44	72%	20%	5,5%	93%
EBA	Group 2	112	91%	11,9%	3,9%	94%

<sup>\*</sup>as a percentage of balance sheet liabilities

47% of the banks in the Basel III monitoring sample already meet or exceed the minimum LCR requirement, and 62% have LCRs that are at or above 75% (BCBS).

€1.8 trillion liquid assets shortfall (€61.4 trillion total assets, BCBS)

The results show that banks in the sample had a shortfall of stable funding33 of €2.5 trillion at the end of December 2011. (BCBS)

### Results of the Basel III monitoring exercises - capital

Institution	Banking group	Number of banks	Average CET 1	CET 1 shortfall	Average leverage ratio	Changes in RWA
BCBS	Group 1	102	7,70%	€374,1 billion	3,50%	18,1%*
BCBS	Group 2	107	8,80%	€21,7 billion	4,40%	7,5%*
EBA	Group 1	44	7,70%	€198,6 billion	2,90%	18,40%
EBA	Group 2	112	10,30%	€25,6 billion	3,30%	8,80%

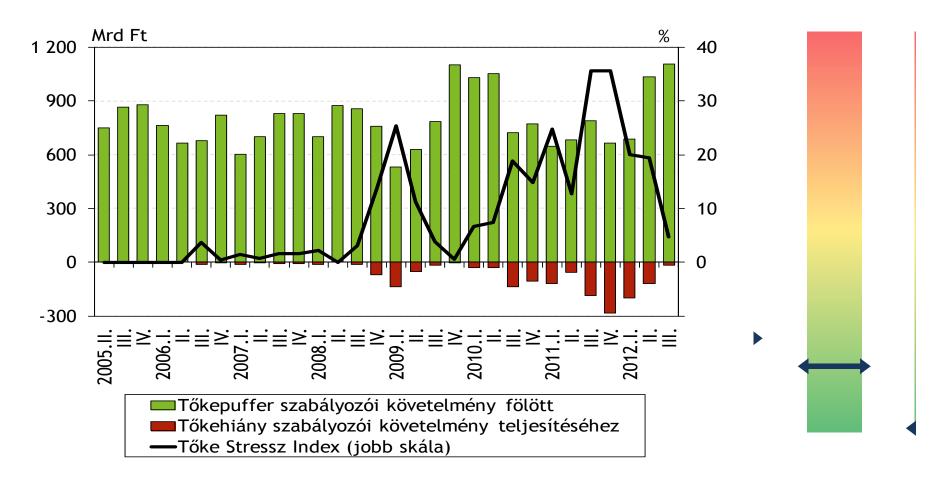
<sup>\*</sup>BCBS includes trading book impacts

The analysis shows that Group 2 banks are generally less leveraged than Group 1 banks, and this difference increases under Basel III when the requirements are fully phased in.

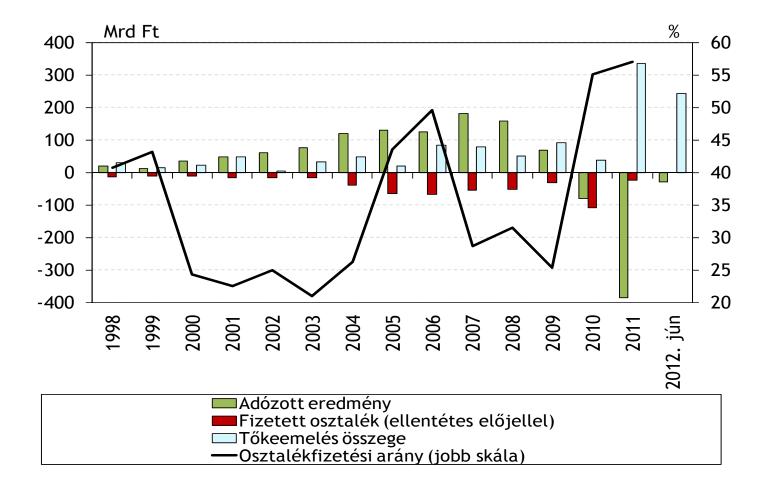
As a point of reference, the sum of profits after tax and prior to distributions across the same sample of Group 1 banks in 2011 was €356 billion.

The sum of Group 2 banks' profits after tax and prior to distributions in 2011 was €24 billion.

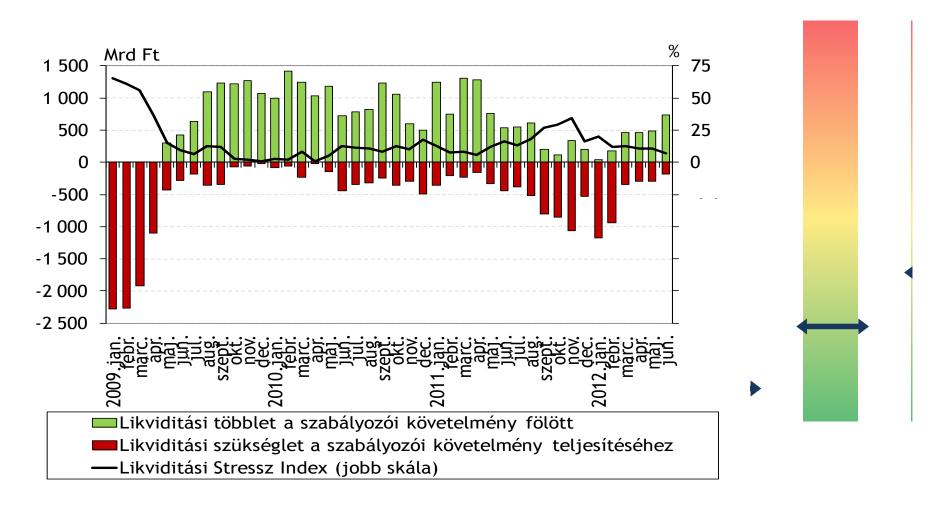
## **Capital stress index**



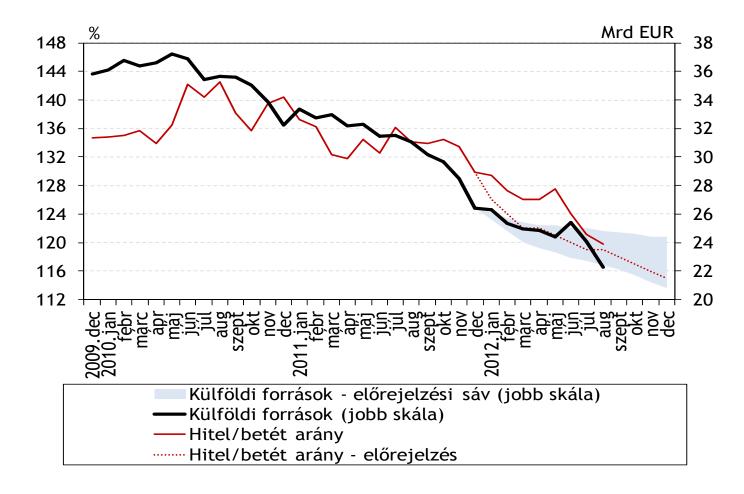
### Foreign capital injection



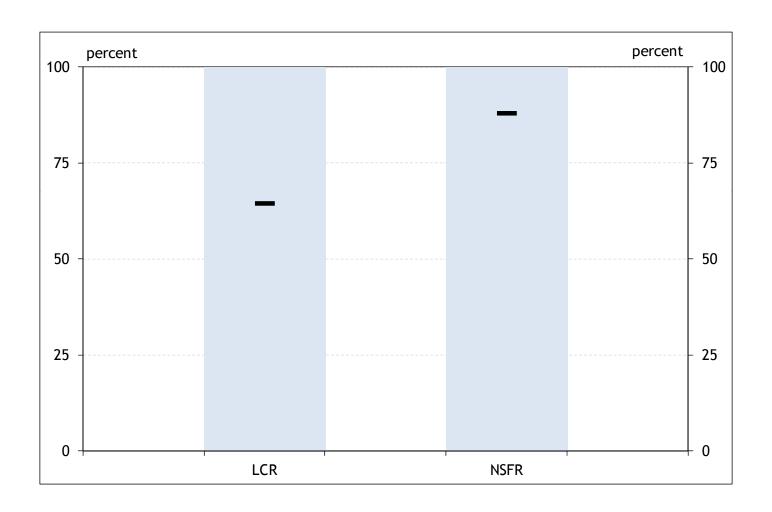
### Current market situation & further steps **Liquidity stress index**



# Current market situation & further steps Outflow of funds



# Distance of the banking system's Basel III ratios from the requirements (June 2012)



### **Preparation**

#### Strategic gap analysis

# Impact assesment

- Assumptions
- Projections
- Management actions

# Technical preparation

- Data collection
- Processes
- Monitoring
- Reporting

# Liquidity risk management

- Measurement
- Contingency funding plan
- Stress test
- Fund transfer pricing
- Liquidity buffers
- Governance

# Capital management

- Increased focus
- Growing complexity
- Capital optimization
- Capital planning and allocation
- Ex post and ex ante management

#### Business model and strategy

- Consumer relations
- Revise focus on business lines and segments
- BS adjustments
- Product pricing
- Raising new capital
- Review funding strategies
- RAROC measurement
- Governance

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