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LEVERAGE RATIO DISCUSSION MATERIALS

October 2013

The GFMA & TCH Basel III Leverage Ratio Survey Covers 26 Banks Across the US, Europe, Canada, and Japan

North America



- 13 survey participants



- Asset volume of USD 13 trillion

Total Europe



- 11 survey participants

- Asset volume of USD 18 trillion

Eurozone



- 6 survey participants

- Asset volume of USD 12 trillion

Japan



- 2 survey participants

- Asset volume of USD 3 trillion

- Survey includes **26 banks** with a total **asset volume of USD 34 trillion**, including **18 out of 28 G-SIBs**
- To preserve confidentiality of participants, this document uses the following **aggregation levels**
 - Eurozone
 - Total Europe
 - North America
 - Total (excl. Japan¹)
 - G-SIBs (incl. Japan)
- The survey uses **Q2/2013 data** for 16 of 26 banks; the remaining 10 banks provided either Q1/2013 or Q4/2012 data

¹ Japan excluded due to limited number of survey participants for which results would be identifiable as difference between total and the other regions

Survey Data is Drawn from the Basel QIS – Additional non-QIS Data Also Gathered to Assess Impact on Written CDS

Data requested from participating banks

Accounting balance sheet

Leverage ratio calculation

Information related to risk-based ratios and LCR

More detailed exposure breakdown (best effort basis)

Required for

- Comparison of Basel III leverage exposure to balance sheet assets
- Calculation of current leverage ratio and potential shortfall
- Understanding key drivers of exposure measure
- Calculating constraints from other Basel III measures, i.e., capital shortfall against risk-based ratios or liquid assets need against LCR requirement
- Determination of **incremental impact**
- Scenario analyses on varying exposure definitions

Excerpt from data templates

Item	
1	On-balance sheet items (exclude derivatives and securities financing transactions; include collateral)
2	On-balance sheet derivative financial instruments
3	On-balance sheet securities financing transactions (repos and similar secured lending)
4	Total on balance sheet assets

#	Item	Amount	Link to QIS
On-balance sheet exposures			
1	On-balance sheet items (exclude derivatives and securities financing transactions; include collateral)	16K	
2	Assets deducted in determining Basel III Tier 1 capital	122D	
3	Total on-balance sheet exposures (excluding derivatives and securities financing transactions)	0	Calculated
Derivative exposures			

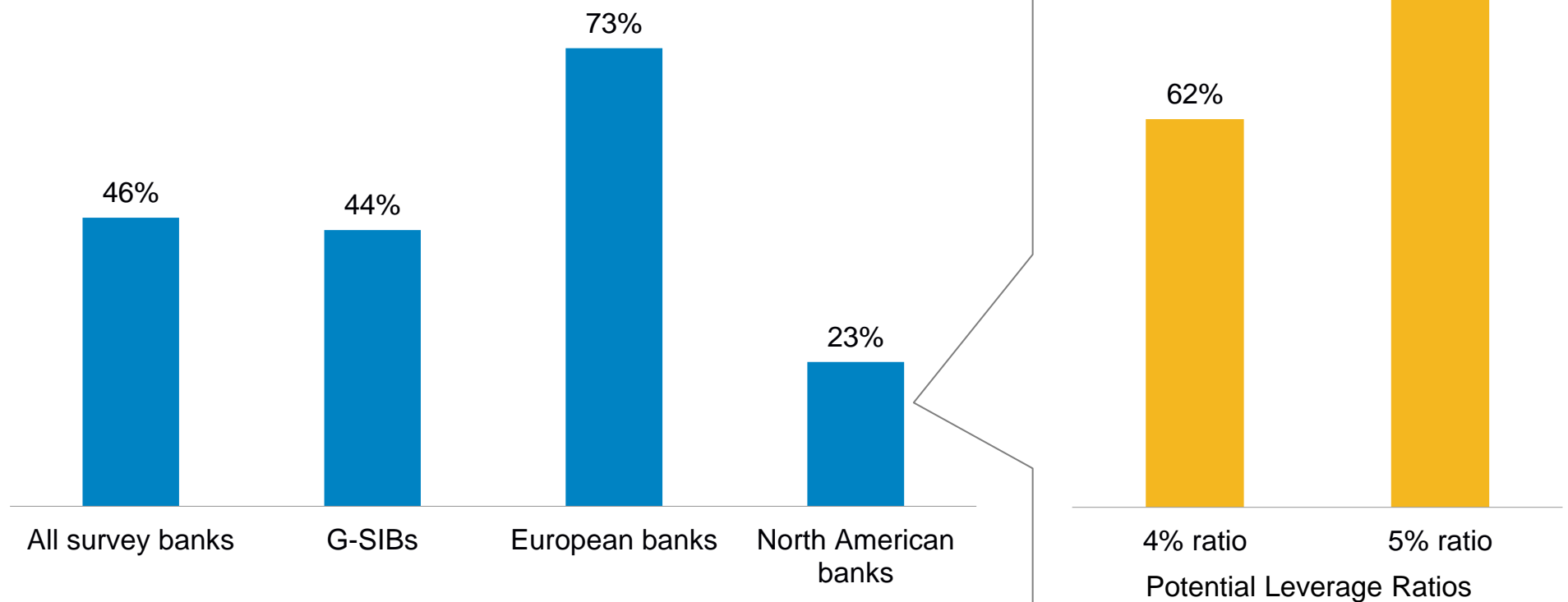
#	Item	Amount	Link to QIS
Capital			DefCapB3
1	Tier 1 common		D63
2	Tier 1 capital (fully loaded)		D75
3	Tier 1 capital (adjusted)		
RWA			General Info
4	Basel I RWA		
5	Basel III Standardized RWA		
6	CVA Capital Charge (RWA equivalent)		F113
7	Basel III Advanced RWA		D214
Liquidity			LCR

#	Item	Amount	Link to QIS
Other off-balance sheet exposures			
5	Off-balance sheet exposures with 100% credit conversion factors; of which:		[question 15 in 'leverage ratio disclosure' form]
	<i>5a commitments including liquidity facilities</i>		<i>parts of M46 and M47</i>
	<i>5b trade finance exposures with 20% CCF in SA</i>		<i>part of M46</i>
	<i>5c guarantees, etc. with 50% CCF in SA</i>		<i>part of M47</i>
	<i>5d credit substitutes, etc. with 100% CCF in SA</i>		<i>part of M48</i>

46% of Survey Participants Would Have Leverage Ratios Below 3% Under the Proposed Basel III Leverage Framework

Percent of Banks With Leverage Ratios Below 3% ⁽¹⁾

Assumes Fully Phased in Basel III Leverage Ratio of 3%



Source GFMA survey

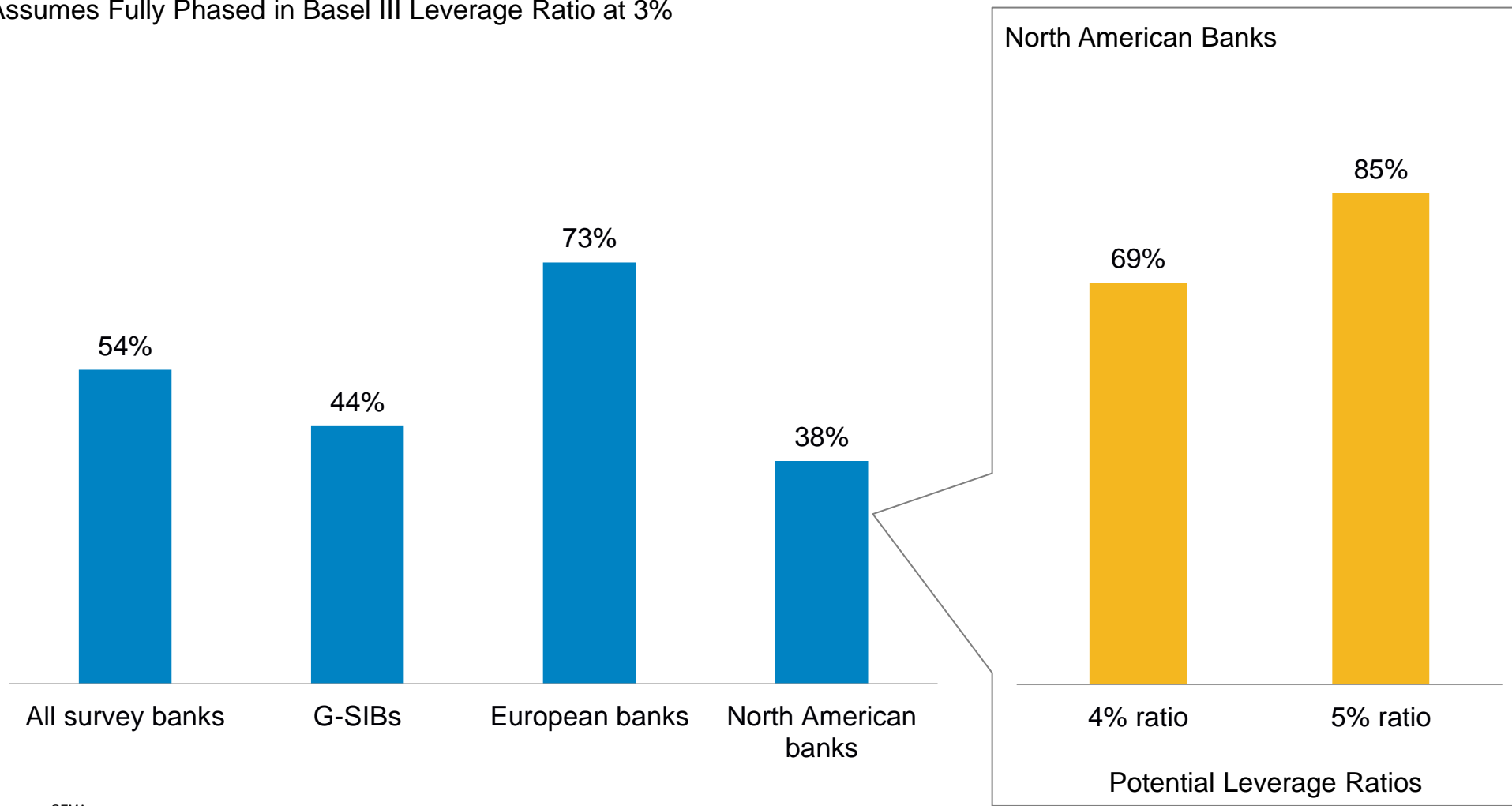
Note

1. Percent of 26 banks participating in global GFMA survey includes 18 G-SIBs,

54% of Survey Participants Would Become Constrained by Leverage-Based Capital, Rather Than by Risk-Based Capital, Under the Proposed Rule

Percent of Banks Constrained by Leverage-Based Capital, Rather Than Risk-Based Capital, Under the Revised Proposed Leverage Ratio ⁽¹⁾

Assumes Fully Phased in Basel III Leverage Ratio at 3%



Source GFMA survey

Note

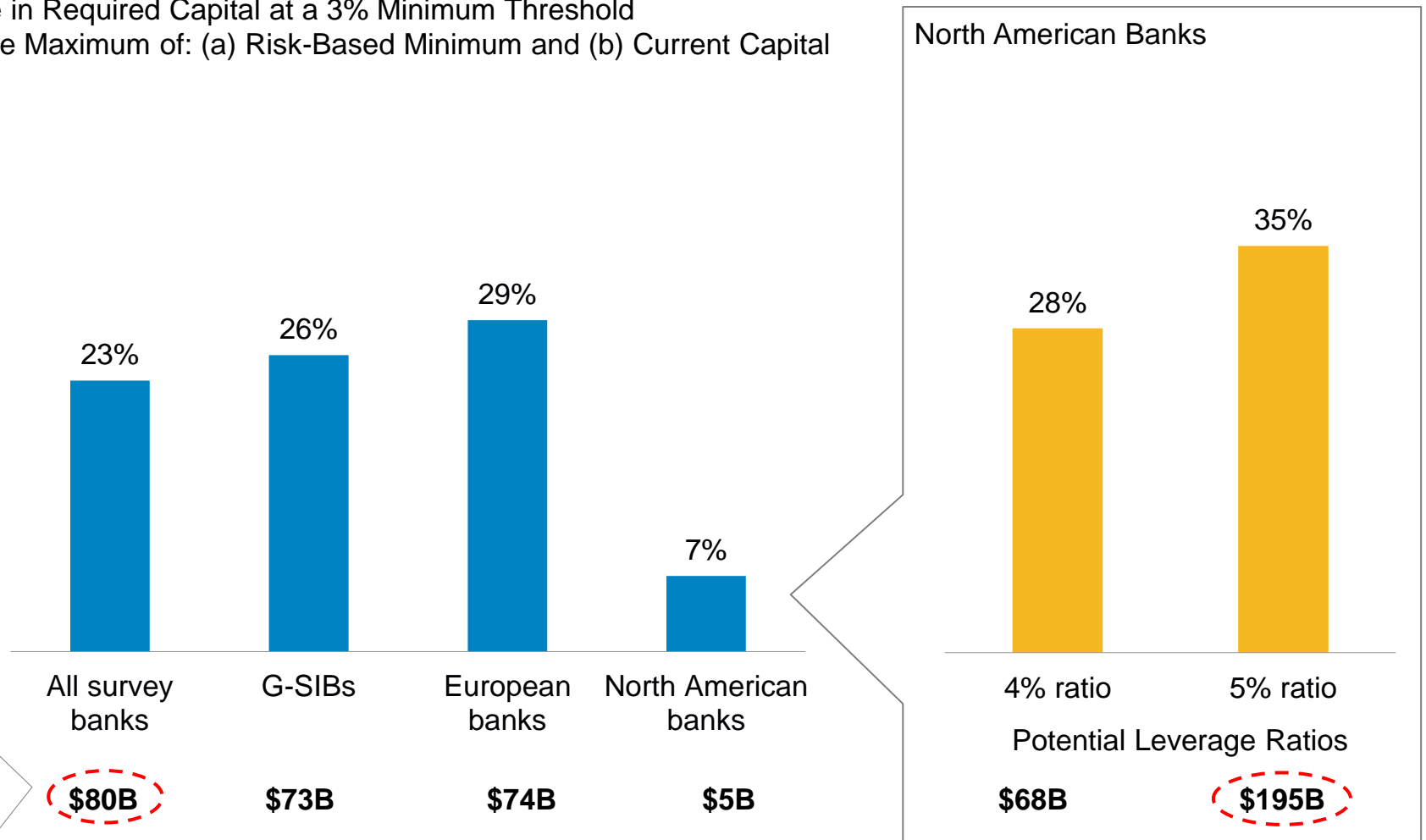
1. Percent of 26 banks participating in global GFMA survey includes 18 G-SIBs,

Banks That Would Fail to Meet the 3% Minimum Could Choose to Increase Capital, But the Size of the Required Increase Appears Impractical

Increase in Capital Required ⁽¹⁾ To Meet 3% Leverage Ratio Requirement

Percent Increase in Required Capital at a 3% Minimum Threshold
Incremental to the Maximum of: (a) Risk-Based Minimum and (b) Current Capital

Additional Capital Required Above Max of Risk-Based Minimum and Current Capital



Source GFMA survey

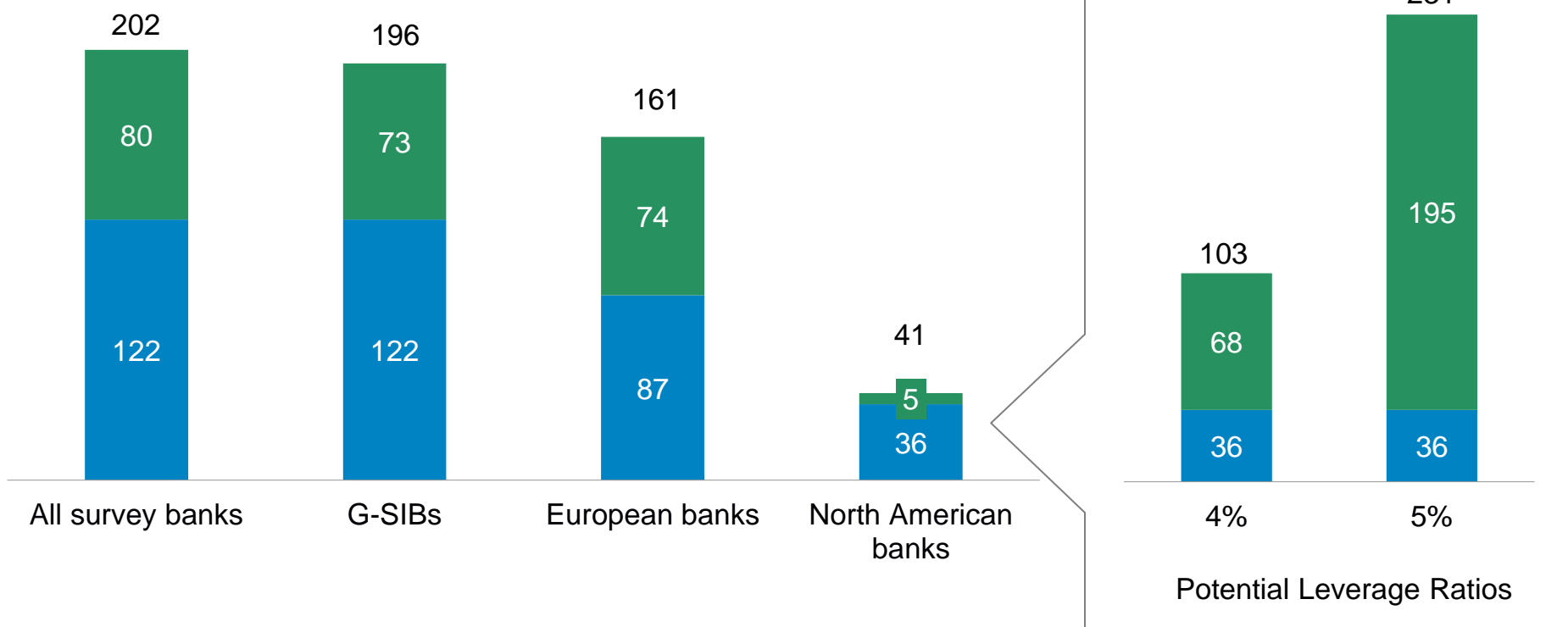
Note
1. Above the greater of risk-based capital minimum and current capital

Combined With the Capital Banks Will Need to Raise to Meet Existing Risk-Based Capital Requirements, the Total Capital “Gap” Among Survey Participants Could Reach \$200Bn or More

Increase in Capital Required To Meet Risk-Based and Leverage-Based Capital Requirements

\$Bn
At 3% Minimum Threshold

- Capital required to be raised to meet Basel III Risk-Based minimum
- Incremental capital above Risk Based minimum, required for leverage ratio compliance ⁽¹⁾



Source GFMA survey

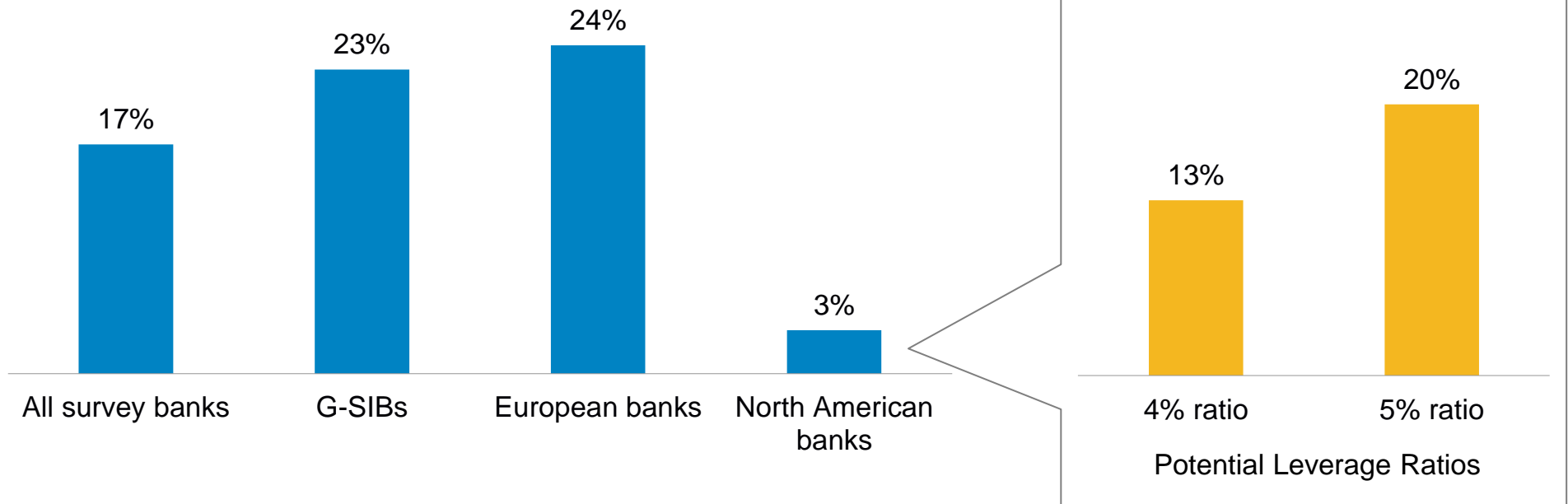
Note

1. Incremental capital required to meet 3% minimum leverage ratio, above the maximum of (i) current available capital and (ii) minimum required risk-based capital

If Banks Facing Higher Capital Requirements as a Result of the New Leverage Ratio Choose to Raise New Equity, They Would Need to Increase Net Income by 17% to Offset the Negative Effects on ROE

Increase in Banks Earnings Required To Cover the Cost of Equity on Incremental Equity Required to Meet Leverage Ratio Minimum ⁽¹⁾

Percent Increase in Net Income Among Survey Participants That Are Constrained by Leverage-Based Capital At a 3% Minimum Threshold



Methodology:

- 8% net cost of incremental equity = post-tax cost of equity at 11.5% minus post-tax cost of debt at 3.5% ⁽²⁾
- Incremental required post-tax income = net cost of equity (8%) multiplied by the amount of incremental equity that would need to be raised
- Incremental required post-tax income is divided by FY2012 net income, adjusted for both DVA and company reported one-time items

Source GFMA survey

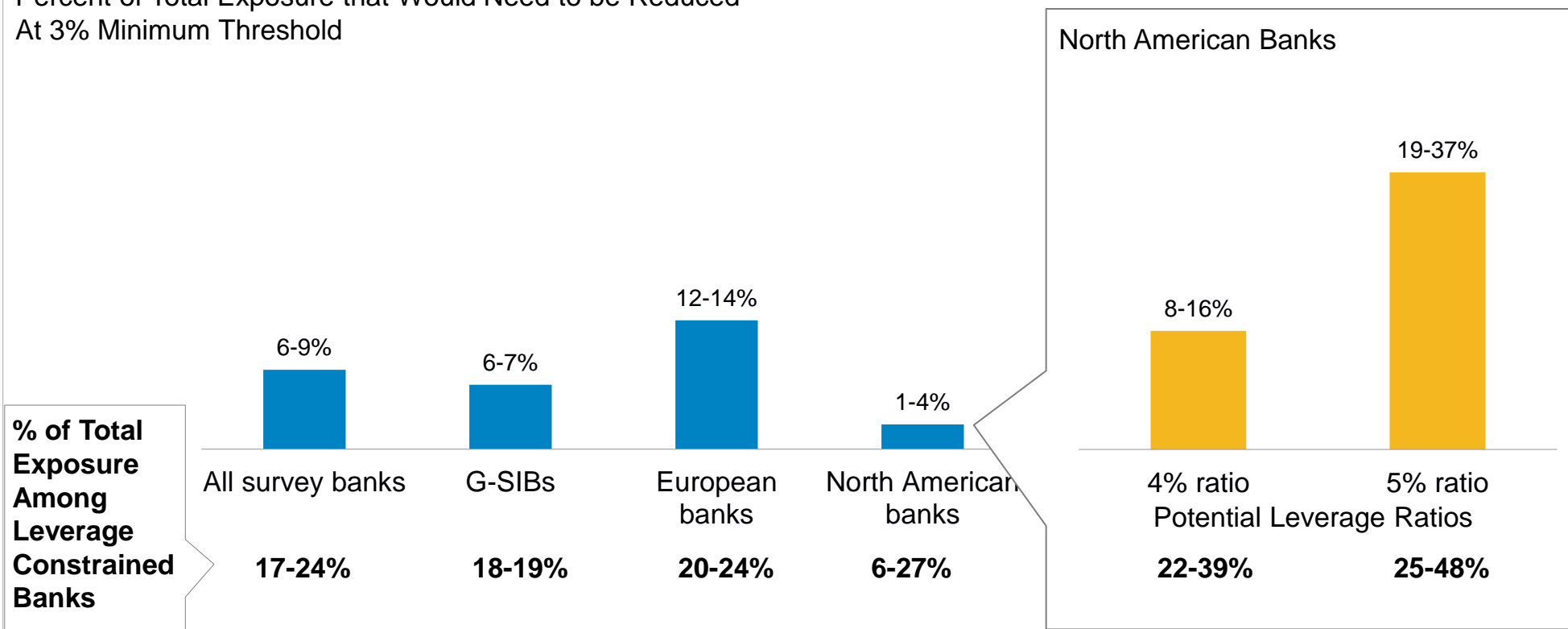
Note

1. Incremental capital required to meet 3% minimum leverage ratio, above the maximum of (i) current available capital and (ii) minimum required risk-based capital
2. Cost of equity and cost of debt sourced from BIS working paper "Macroeconomic impact assessment of OTC derivatives regulatory reforms", August 2013; 4.5% cost of debt adjusted to post tax equivalent of 3.5% using assumed 35% tax rate

Alternatively, Banks That Would Now Become Constrained by Leverage-Based Capital Could Achieve the 3% Minimum By Reducing Their Exposure

Reduction in Total Exposure Among All Survey Banks to Achieve 3% Minimum, Assuming No Increase in Capital

Percent of Total Exposure that Would Need to be Reduced At 3% Minimum Threshold



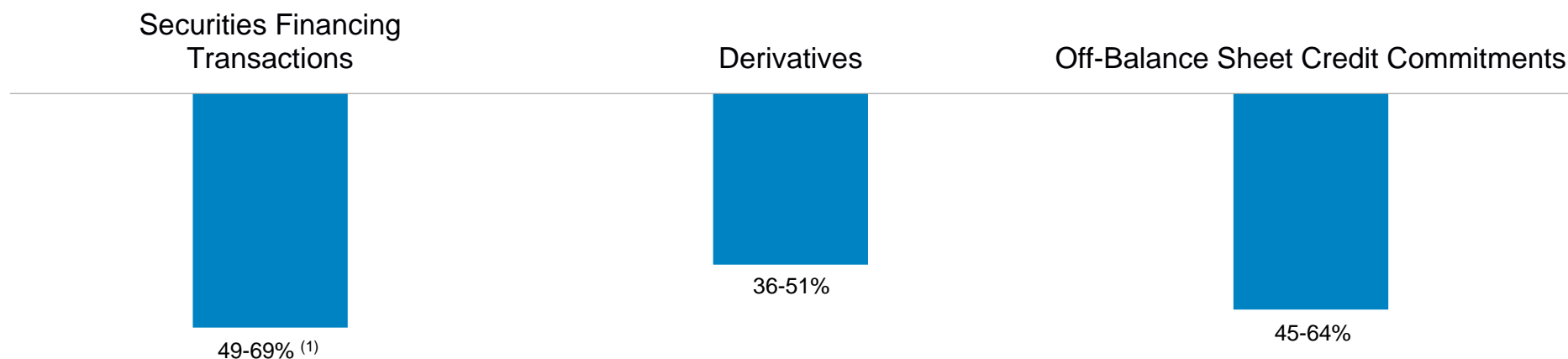
The range of reduction in exposure is calculated based on two methodologies:

- (1) The first methodology assumes that banks that are constrained by the leverage ratio reduce their exposure to a level that is consistent with the maximum of: (a) their currently available capital, and (b) the capital required to meet their minimum risk-based capital needs
- (2) The second methodology assumes banks that are constrained by the leverage ratio reduce their exposure to a level that is consistent with the amount of capital required to meet their minimum risk-based capital needs

To Reach the Exposure Levels Required by the Revised Proposal, Banks May Choose to Reduce Activity in the Lowest Exposure-to-RWA Areas; This Could Have a Disruptive Impact on Key Product Markets

Reduction in Exposure Required to Reach 3% Minimum, Assuming Full Reduction is Applied to a Single Product Category – All Survey Banks

Percentage of total exposure in each product area across all survey participants



- If banks that would become constrained by leverage-based capital, rather than by risk-based capital under the new rules, were to achieve compliance with the Revised Proposal under a 3% minimum by reducing their exposure, they would likely reduce their exposures across a number of different product categories
- However, they might concentrate that reduction disproportionately on those products which were least economically viable under the new rule
- For illustrative purposes, the analysis outlined above shows the percentage reduction in total exposure among the survey banks that would occur if banks that were constrained by leverage-based capital were to reduce their excess exposure solely through one product category
- As a result, the percentage reductions shown above are not additive to one another

Source GFMA survey

Note

1. All ranges of reduction based on methodology described on prior slide