

Life conference and exhibition 2010
Cormac Galvin & Richard Baddon



Contingent Capital in a post Solvency II world

7-9 November 2010

Contingent capital

Do you agree?

- Contingent capital structures are redundant under Solvency II
- FinRe is not regulatory arbitrage
- A longevity swap is contingent capital
- CP10/10 (and the subsequent changes to the Prudential sourcebook) is counterintuitive

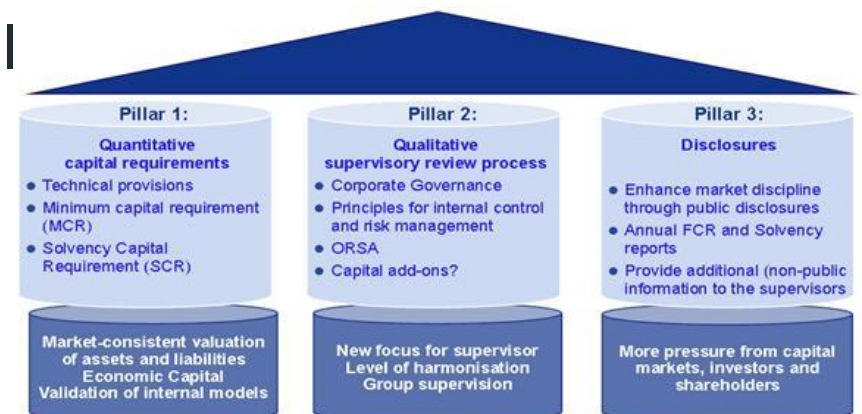
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- Introduction to capital & contingent capital
- Contingent capital under Solvency I (incl. CP10/10)
- Solvency II

Part 2; Discussion

- Contingent capital post Solvency II



Introduction to capital & contingent capital

Defining capital

Defining contingent capital



Introduction to capital & contingent capital

What is capital?

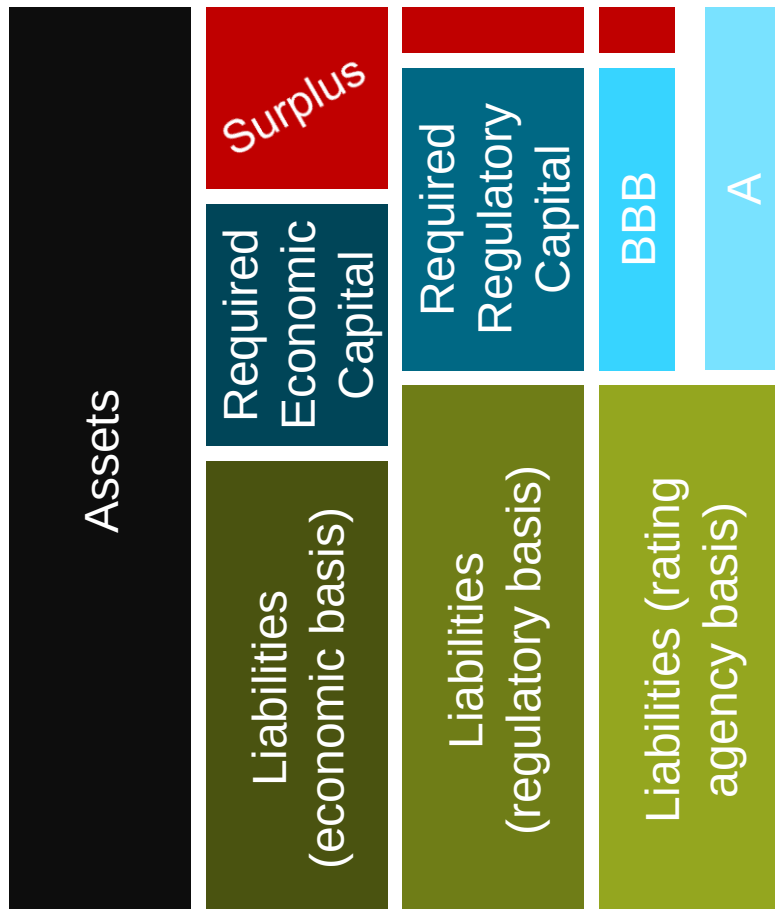
- Assets available for use in the production of further assets
- Assets that are able to absorb losses

Capital measures when considering contingent capital

- Economic capital, regulatory capital, rating agency capital, ...

Capital & required capital – not to be confused!

Introduction to capital & contingent capital



A simple illustration

- What is required capital?
- How do different measures of capital interact?
 - Liabilities on each basis are not necessarily equal
 - Equally, the required capital on each are not necessarily equal
 - Surplus on economic basis
 - But it can't be put to use...

Contingent capital can help!

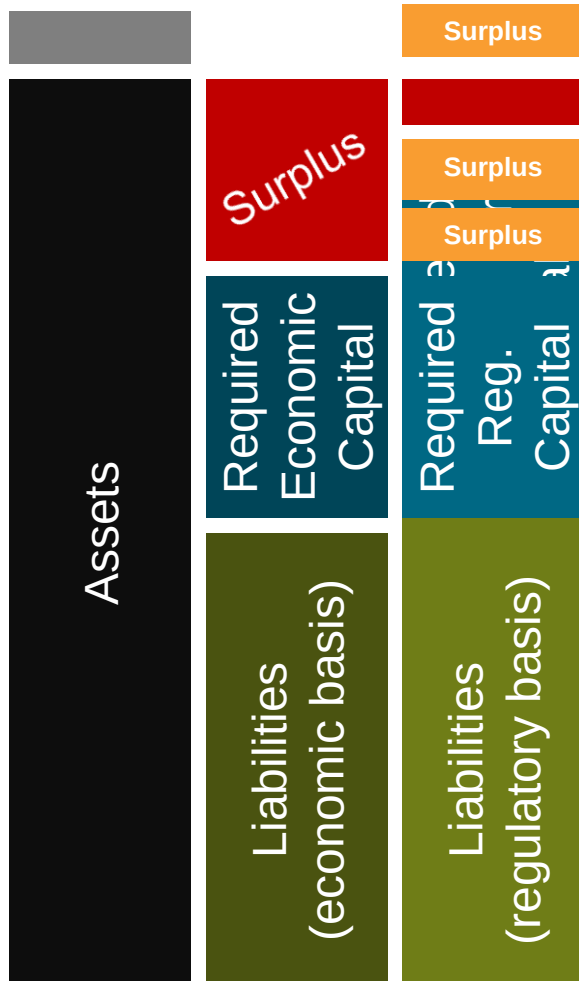
Introduction to capital & contingent capital

What is contingent capital?

- Contingent capital is debt that converts into equity when there is a crisis or when certain triggers are met
- Regulators have made no secret of their fondness for contingent capital - it keeps down the cost of capital in the short term, by classifying it as debt, but provides a buffer in case of emergencies that can be switched into loss-absorbing equity



Introduction to capital & contingent capital



What does contingent capital do?

- It can help to meet the regulatory requirement with minimal economic effect. It aims to align the economic and regulatory basis at a low cost
 - For example, if a bank or a reinsurer takes the risk that profits don't emerge, i.e. equity is provided when profits don't meet a pre-arranged limit
 - This has little effect on the economic basis but can reduce liabilities on the regulatory basis, (ignoring costs and transfer of tail risk on the economic basis)
 - It may also reduce the required capital

Of course things are not so simple!

- The typical structure used by UK insurers; contingent loans & FinRe

Introduction to capital & contingent capital

Regulatory capital

Some features under Solvency II

Tier 1

Most deeply able to absorb losses, (most deeply subordinated)
Undated or a term of at least 10 yrs
Includes EPIFP (Expected Profits incl. in Future Premiums)

Tier 2

Ranks after claims, beneficiaries and non-subordinated creditors
Term of at least 5 Years

Tier 3

Term of at least 3 Years

Are contingent capital structures redundant under Solvency II?

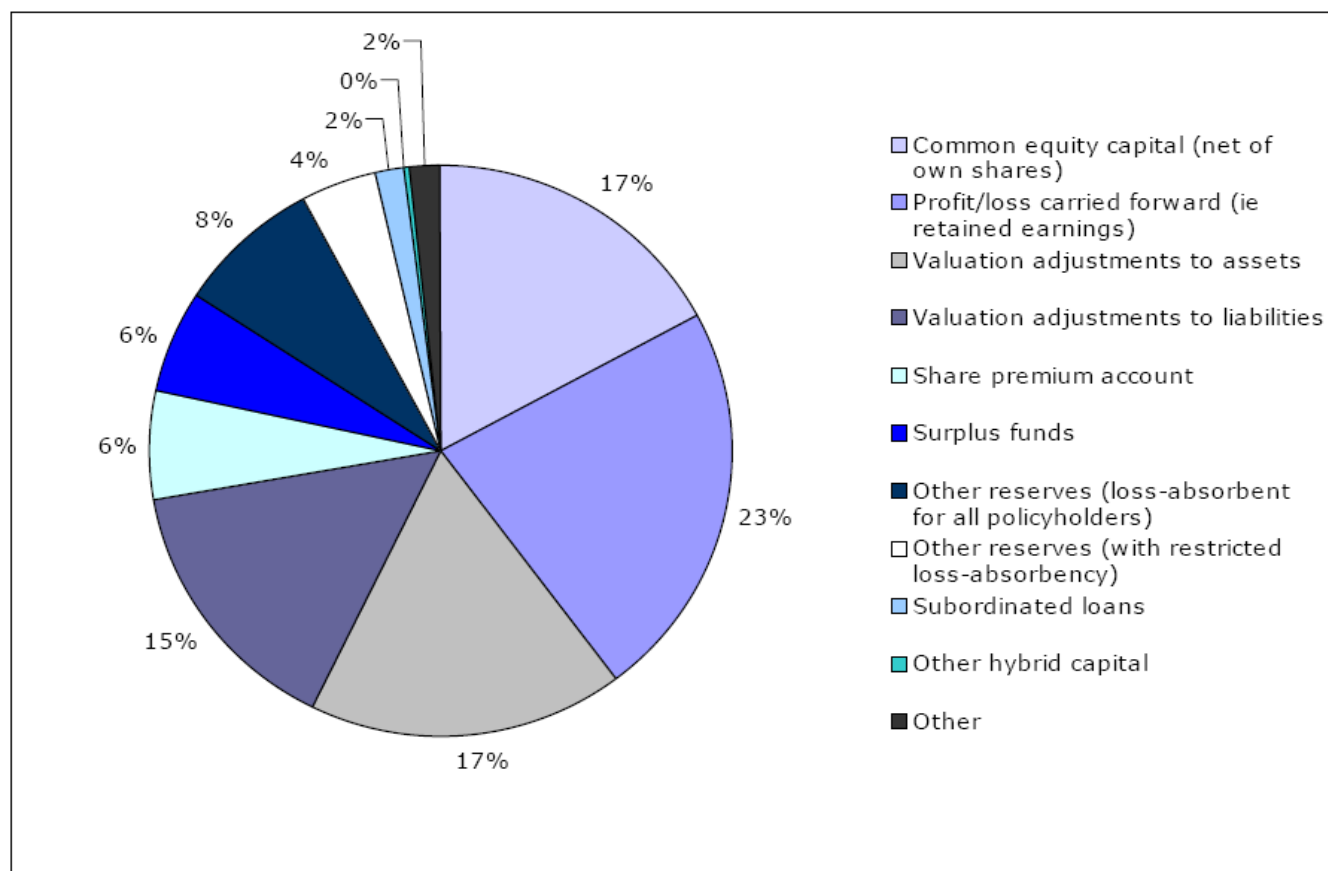
Introduction to capital & contingent capital

Why is contingent capital attractive to insurers?

- It keeps down the cost of capital in the short term;
 - The intention of the liquidity provider is that the instrument will not become equity
- Provides a buffer in case of emergencies;
 - Can be switched into loss-absorbing capital on a triggered event
- Meets an insurer's corporate objectives more economically
 - Improving solvency, (aligning regulatory & economic capital)
 - Raising financing & improving liquidity

Introduction to capital & contingent capital

Sources of capital - QIS4 Tier 1 Own Funds



- Diverse range of qualifying capital
- Contingent capital is not shown explicitly, but it is there

Introduction to capital & contingent capital

What is regulatory arbitrage?

- A transaction that improves the regulatory capital position without changing the economic capital position

Is contingent capital regulatory arbitrage?

- Insurers have entered into transactions that have changed the risk profile
- Sometimes the risk transferred is minimal
- Depends on your view!

Introduction to capital & contingent capital

Is a longevity swap is contingent capital?

- Contingent capital is debt that converts into equity when there is a crisis or when certain triggers are met
- QIS5 includes EPIFP as Tier 1 capital
- For you to decide!

Solvency I & CP10/10

Contingent capital in Solvency I

CP10/10

Pre Solvency II structures



Solvency I & CP10/10



Solvency I & CP10/10

What is contingent capital?



- Contingent capital is debt that converts into equity when there is a crisis or when certain triggers are met
- But it depends what is meant by equity?
- We have taken the widest definition of equity not restricting ourselves to paid up share capital

Solvency I

A quick history of contingent capital under Solvency I

- Financial Reinsurance widely used from early 1990s
 - Virtual Capital and surplus relief raised capital
 - Financing treaties raised cash and capital
- Small number of capital market transactions
 - Raised cash and capital but was the cash un-encumbered?
 - Rating agency friendly, not financial leverage
- Wide use of hybrid securities in the last 10 years
 - Debt market boom provided cheap cash and capital

Solvency I

A quick history of contingent capital under Solvency I

- In the General Insurance world other instruments
 - LOC
 - Cat Bonds
 - Scor UBS
 - Soc Gen?

But Banking Wins.....

- CLOCS (committed long-term capital solution) – RBC and Swiss Re 2001
- Lloyds CoCo program 2009

Solvency I

Contingent Capital in Solvency I

Structures aim to align regulatory capital with economic capital

- Improved solvency or raised financing & possibly improved liquidity
- Typically minimal economic capital benefits
- Some P&L drag
- Some tax benefits

Solvency I

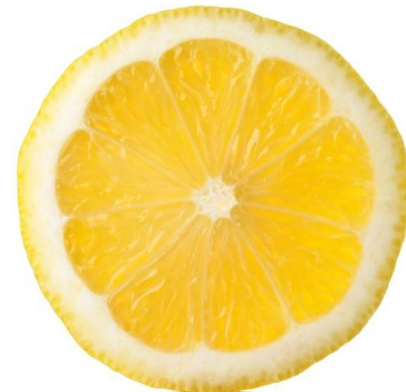
The state of play prior to CP10/10....

- Increasing sophistication and increase in capital providers
- No just reinsurers, but credible banks and private equity have capital to use in the sector
- The cost of liquidity led to a preference for capital only trades, with no liquidity
- Cheaper capital, but this means counterparty risk

CP10/10

Why do we have CP10/10 – Abridged from the CP

- ... significant counterparty risk ... where transactions are unfunded.
- Similar risks ... when these arrangements are connected ... could result in undermining the contingent nature of the cash outflows
- ... no rules corresponding to INSPRU 1.2.79R(2) ... expected under Solvency II
- ... difficult to see how unfunded arrangements, ... satisfy the loss absorbency characteristics of Tier 1 capital



The key to most deals - INSPRU 1.2.79R(2)

- Allows insurers to disregard reinsurance cash outflows that are unambiguously linked to the emergence of surplus
- GENPRU 2.2.104 creates core tier 1 capital

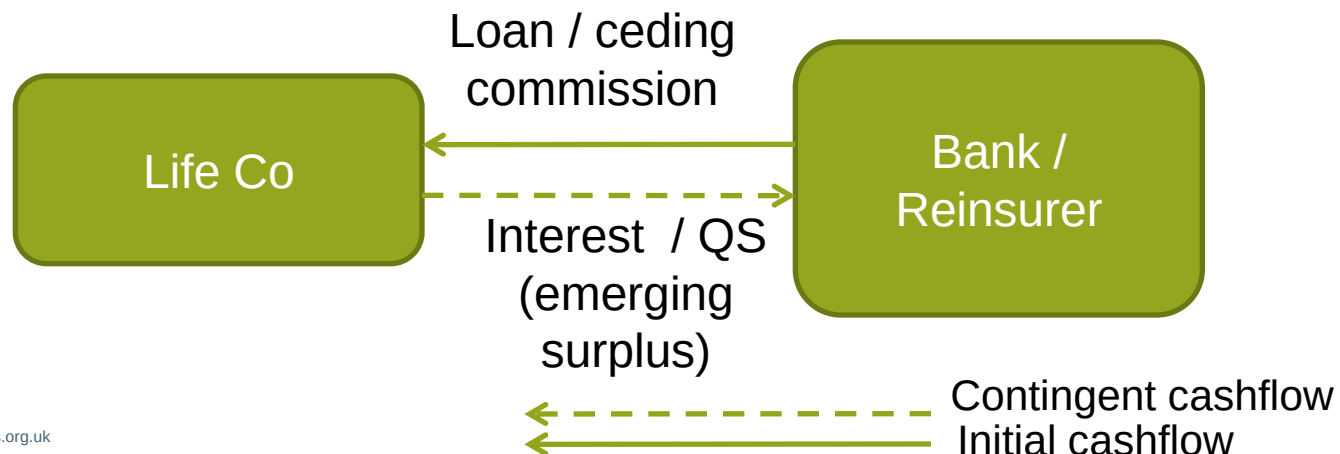
What is the change?

- INSPRU 1.2.79R(2) will only apply provided:
 - The credit taken for the arrangement does not exceed the accumulated value of net cash inflows received
 - There are no connected transactions that provide support for the arrangement

CP10/10

Post CP10/10 structures - I

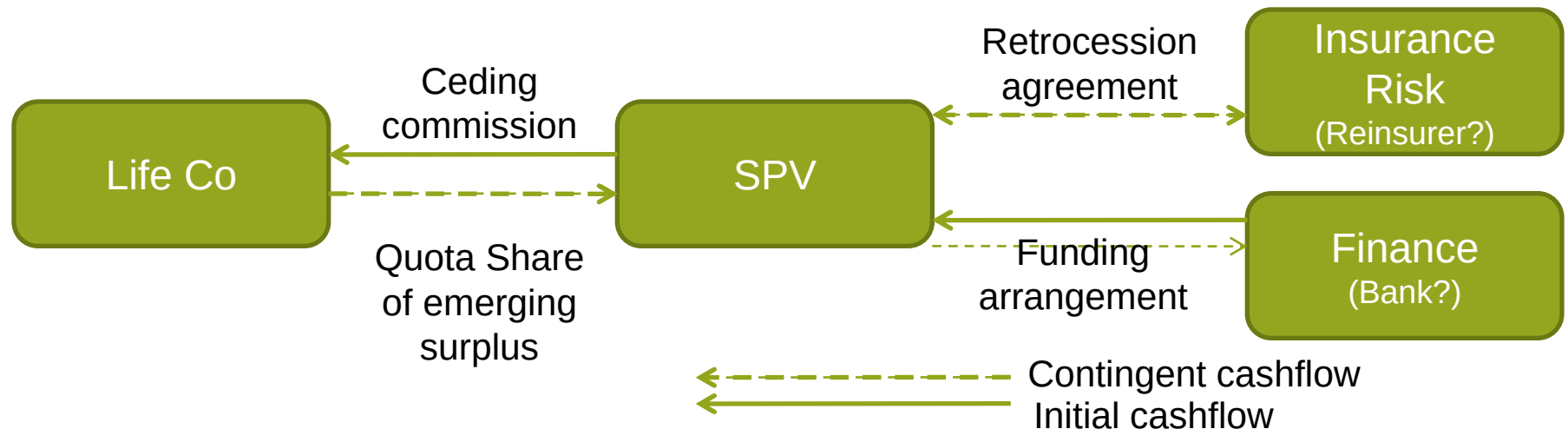
- Use contingent loan or quota share reinsurance structure
- Must be funded
 - Leads to a significant change in the economics
 - What to do if the insurer only needs capital not liquidity?



CP10/10

Post CP10/10 structures - II

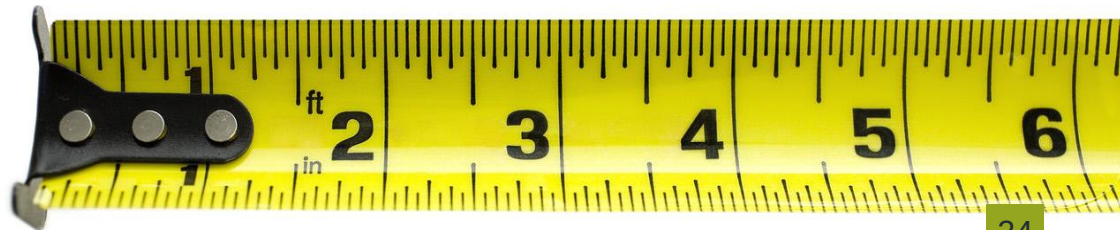
- Funded deals means banks may partner with reinsurers
- Higher absolute costs because of the more complex structure
- Clear difference between Fin Re and traditional reinsurance



CP10/10

Contingent loans or reinsurance – how do they measure up?

- Very similar concepts with similar cashflows
- Main differences around legal documentation
- FSA allows regulatory benefit for a funded contingent loan
- Reinsurance provides an additional benefit due to reduction in technical reserves meaning lower Solvency capital requirements
- Broadly tax neutral



Solvency II

Capital under Solvency II

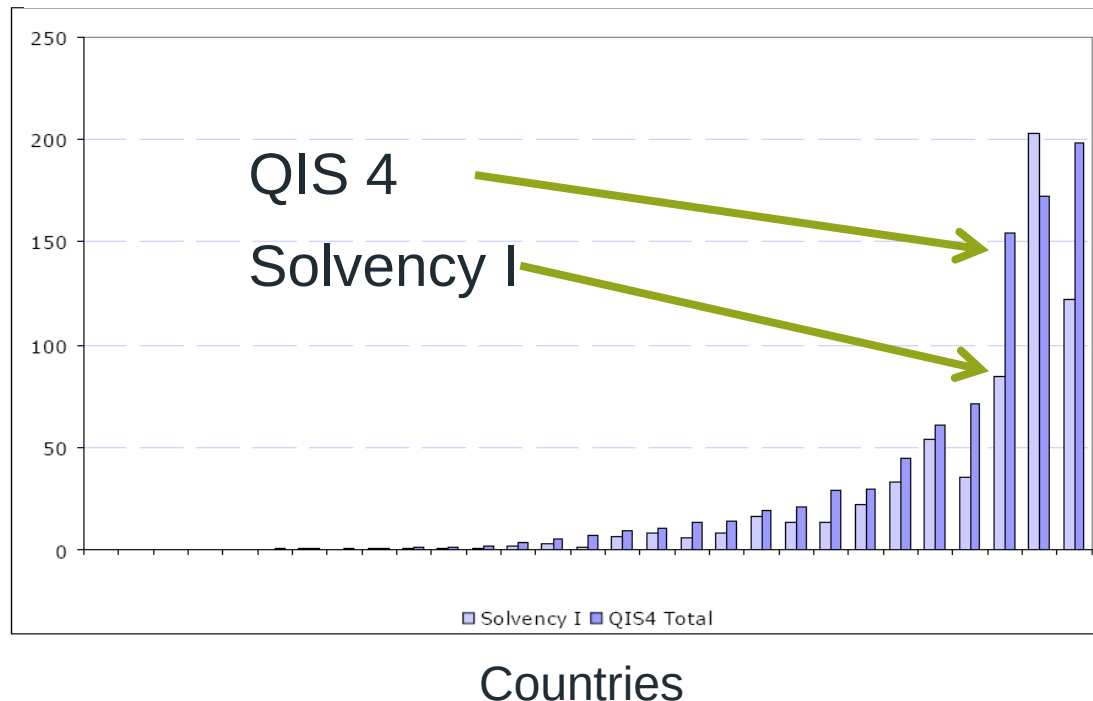
Re-writing the Rules



Solvency II

Regulatory capital (or is that economic capital?) under QIS4 & beyond

Total Own Funds under SI and QIS4
All Undertakings



- Estimated decline in headline solvency ratio for the listed European Insurers from c.200% to c.135%¹
- Implies the need for a recalibration of appropriate capitalisation under SII

¹ Oliver Wyman / Morgan Stanley, September 2010

Solvency II

Expected Profits Included in Future PremiumsDoes what it says on the tin!

- QIS5 includes *Expected Profits Included in Future Premiums* (“EPIFR”) as Tier 1 Own Funds
- In simple terms we already include VIF so.....
-there will be little need for SI style contingent structure e.g. FinRe or contingent loan
- Does this mean there will be no contingent structures?

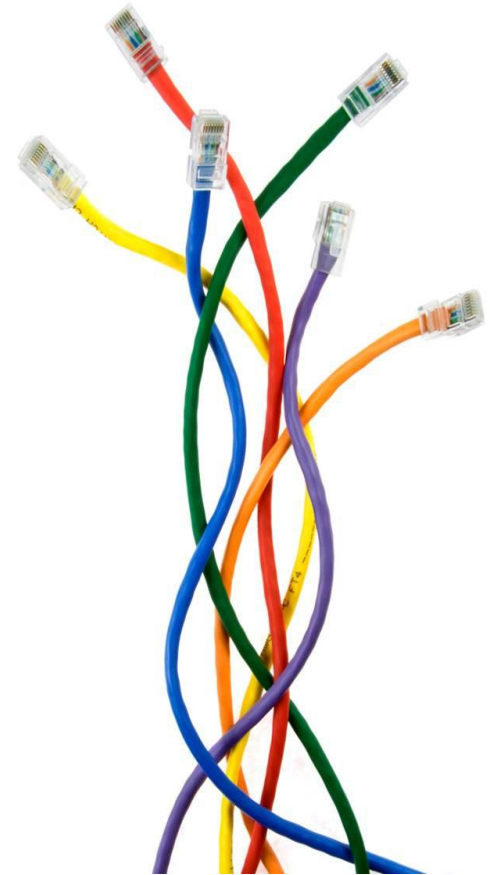


Solvency II

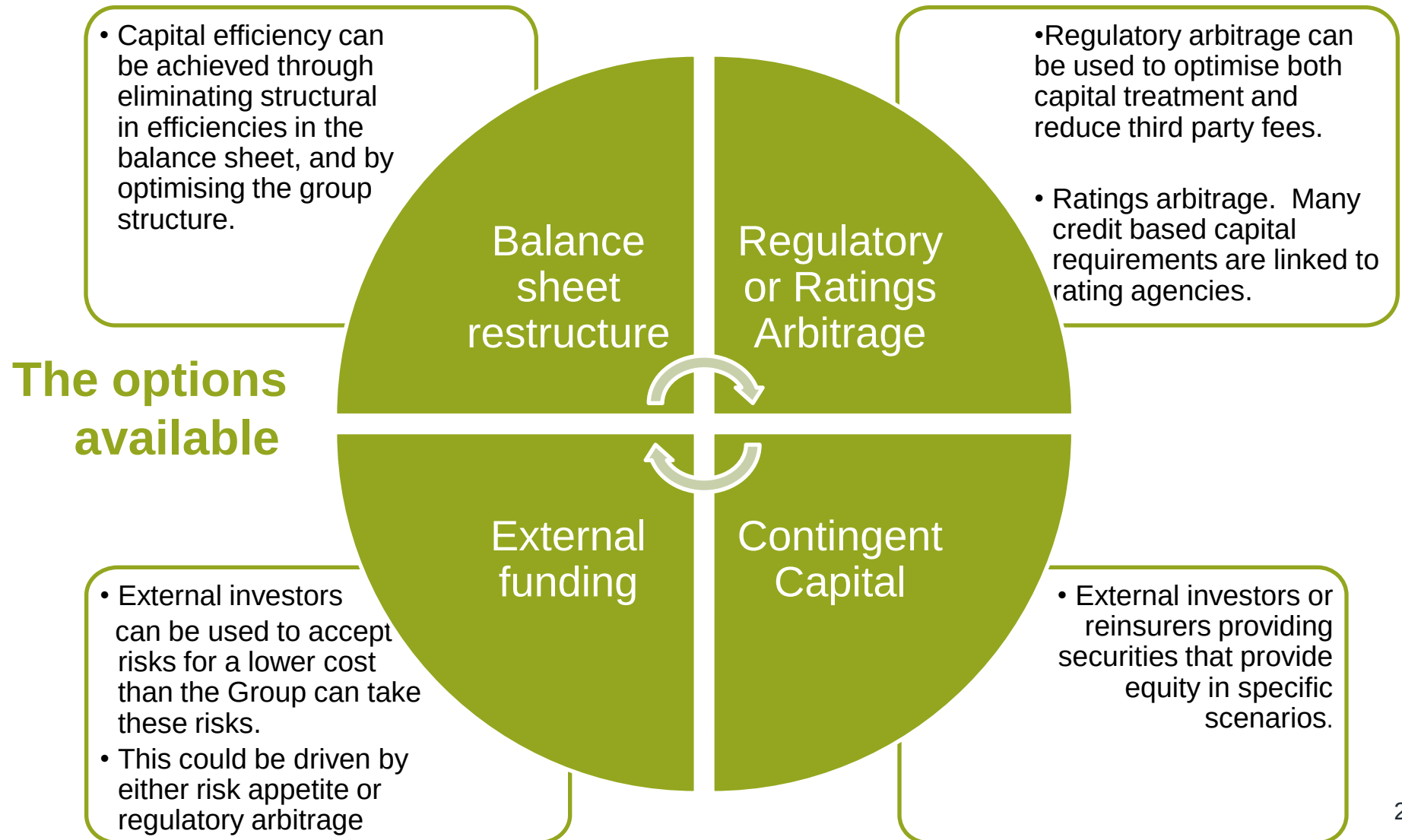
Contingent capital under Solvency II

Will still aim to align regulatory capital with economic capital but....

- SII is based on a market consistent framework which gives a greater alignment between regulatory and economic capital
- Structures may aim to manage economic capital rather than regulatory arbitrage
- Especially important if using internal models



Solvency II



Solvency II

Managing the balance sheet

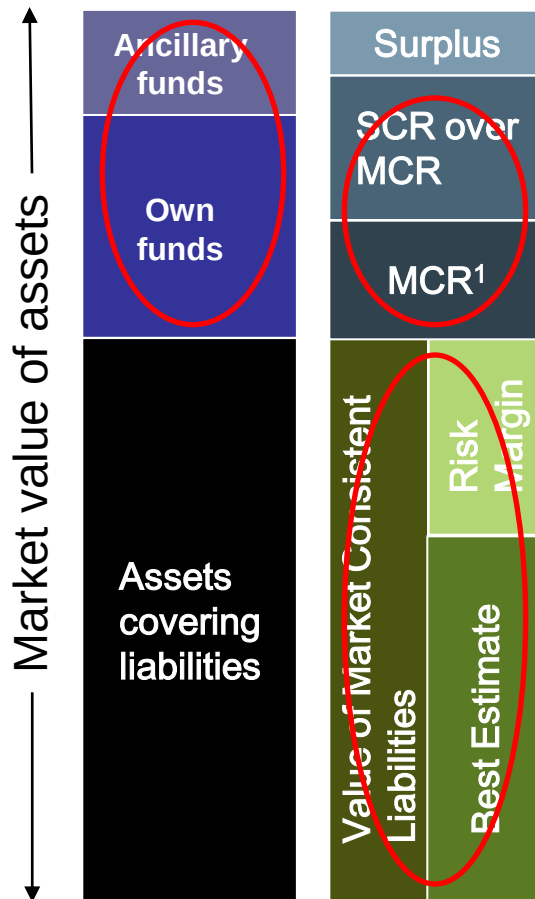
- Structures
 - Greater focus on risk management
 - Real risk transfer not just regulatory arbitrage
 - Target rules that are not truly economic/market consistent

Solvency II

Managing the balance sheet

- Structures will aim to:
 - Manage the value of liabilities
 - Manage the SCR
 - Manage Risk Margin
 - Manage Own Funds
 - Manage Group balance sheets

Solvency II



Managing the balance sheet

- Structures will aim to:
 - Manage the value of liabilities
 - Manage the SCR
 - Manage Own Funds
 - Manage Group balance sheets

Solvency II

Not to forget the rating agencies & investors.....

- Likely to take a different view from SII
- Central to capital raising
- Will continue to develop their thinking prior to SII

Discussion

Concocting Some Potential trades.....

Do you agree?



Discussion

Concocting Some Potential trades

- a) Reducing the value of market consistent liabilities
- b) Reducing the SCR or Risk Margin
- c) Increasing Own Funds or managing their classification?
- d) Groups - dealing with fungibility?



Solvency II

Examples of transactions

Liabilities

- Liquidity premium - reinsure to a well rated reinsurer outside SII?

SCR

- Managing the correlation matrix - maximise diversification benefit? Reinsure or swap risks?
- Solvency II stresses - are these truly economic?

Own Funds

- EPIFP - where will this end up?
- Contingent security - trigger event which on occurrence converts to capital

Groups

- Fungibility - triggers which prove liquidity

Contingent capital

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Contingent Capital

Thank you for your attention