Implications of financial crisis on Engineering Insurance

Christoph Hoch 42nd IMIA Meeting, 28th to 30th September 2009





What impacts does the recession have on the construction business?

What impacts does the recession have on the insurance industry?

What are the possible interlinks between the construction business and the insurance portfolio?

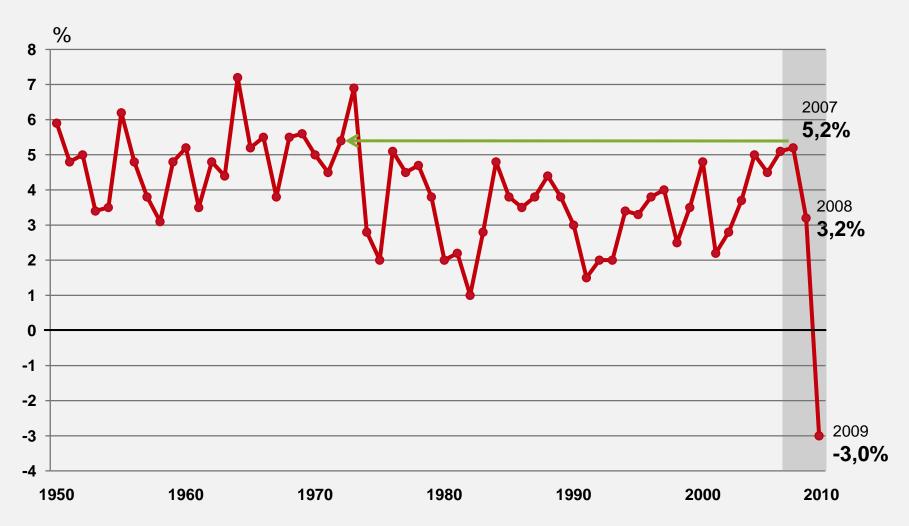
Outlook: Is the recession over?



Macroeconomic business cycles and cycles in the construction business are nearly synchronal.

Growth of the global economy 1951-2009

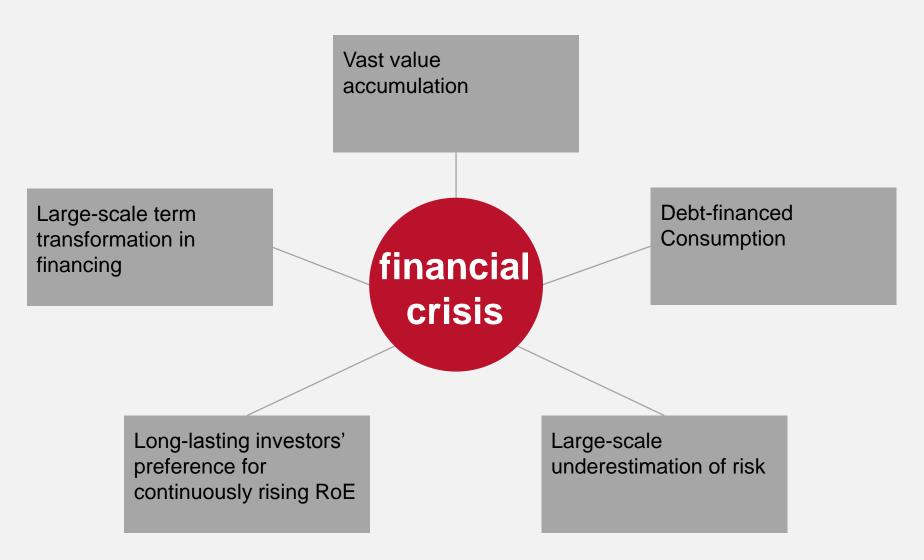




Source: ifo, Presentation H.-W. Sinn, 23rd June 2009

Main drivers for the financial crisis





Measures against the recession





The economy is not capable of self-stabilising.

This is primarily caused by the current lack of trust between the market participants.



- "Bad Bank", Stress tests
- Taking over guarantees
- Taking over stock options
- Nationalisation of companies
- Programme for the stimulation of the economy



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Current news about the construction business



"Employment in the construction industry has contracted by 1.4 million since the onset of the recession."

UK construction industry shrinks for 18th consecutive month

Although rate of decline in the construction sector has reduced 'it is still the sick man of the UK economy' says Cips chief

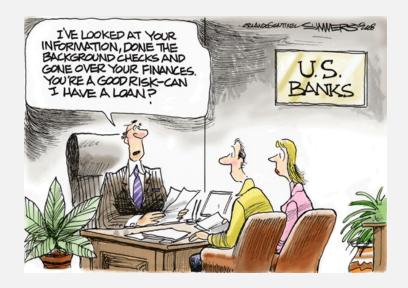
The U.S. Bureau of Labor Statistics reported in February 2009 that "Construction lost III,000 jobs in January [2009]. Employment in the industry has fallen by about I million since peaking in January 2007".

BC Economic Forecast 2009

Construction industry will be hit hardest by recession, economist says

Possible recession effects for the construction business





- Tightened credit conditions
- Funding of projects at risk (incl. PPPs)
- Cancellation and postponement of orders
- Increasing late payment by clients
- Risk of "cascading bankruptcies" throughout the supply chain
- Pressure on project costs
- Private investors reduce investment activity
- More public investment in infrastructure (economic programmes)

– ...

Decreased number of new construction starts



US		
	2008	2009 (Forecast)
Residential	-27%	-2 to 2%
Non-residential	11%	-3 to -9%
Total	-15%	-1 to -7%

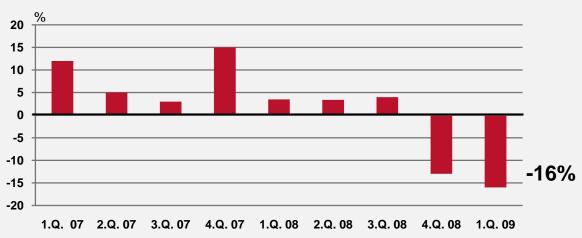
United Arab Emirates

Building projects with a total value of € 454 bn have been stopped (e.g., development projects such as the new district Nakheel Harbour & Tower in Dubai)

Germany

Rate of change versus previous year

Moving three-month-average since January 2007



Source: AGC Building Division/PIAC Meetin, Ken Simonson, 12.07.09 Stats Office



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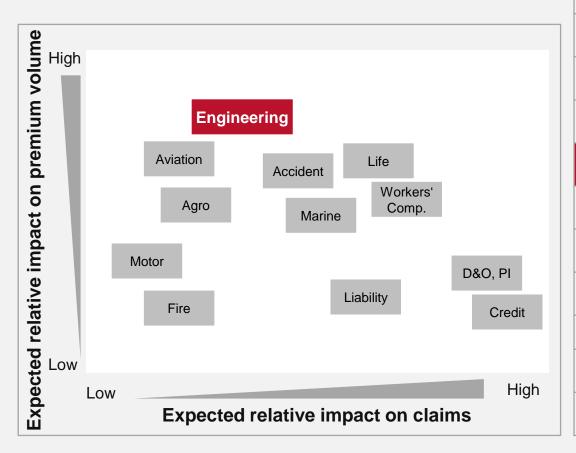
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Impact of the recession on the insurance business



Impact of severe recession scenario on insurance portfolio



Workers' Comp.: Higher number of midsize losses succeeding lay offs and decline in premiums

Liability: Lower investments, fewer quality controls and low cost components in production lead to higher claims

D&O and **PI:** Increase in loss frequency at early stage of recession, hardening of market with time lag

Motor: Slightly positive effect on loss ratios, but possibly decrease in demand

Fire: Decline in claims due to higher discipline, demand dependent on economy

Engineering: Declining premiums as consequence of reduced activities in building sector; claims ambiguous

Accident: Reduction in premiums, moderate increase of loss ratio due to moral hazard

Marine: Declining premiums due to lower shipping volume possibly moral hazard claims

Credit: Significant increase of losses due to higher default rates; higher rates

Aviation: Demand will decrease due to less passengers

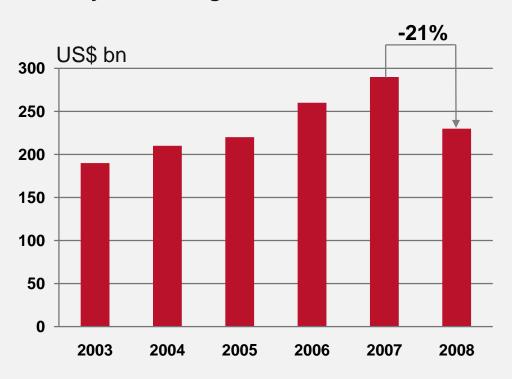
Agro: With stable rates, insured values depending on commodity prices

Life: Reduced volume, higher lapse rates, lower investment results, more suicides and disability claims

Impact of the recession on capitalization in the reinsurance industry



Net assets of the reinsurance industry decreasing



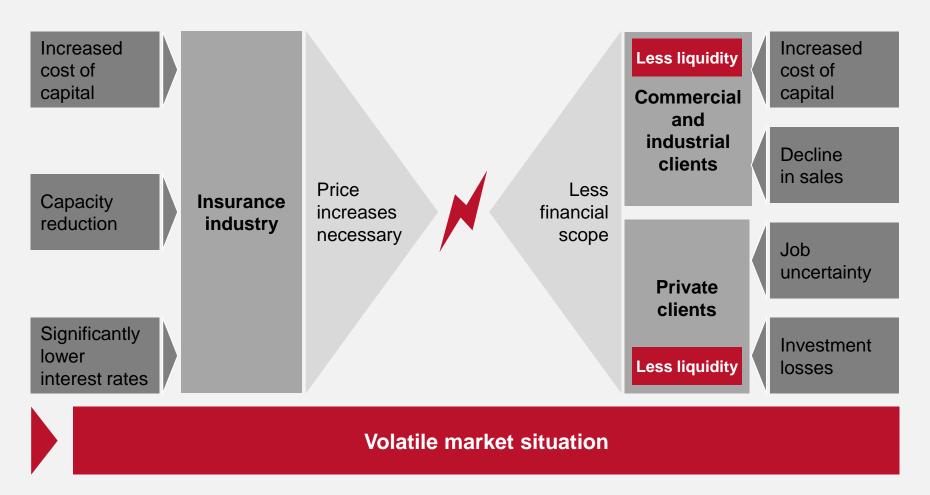
Main reasons for decreasing capitalisation:

- Realised and unrealised loss of assets (ca. 90% of reduction)
- Hurricanes Ike and Gustav (ca. 10% of reduction)



Insurance industry market forces: Market characterized by highly charged field of tension

Current market forces in the insurance industry



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Possible impacts of the recession



Potential for project business

- Reduced investment activity of private investors
- More public investment in infrastructure

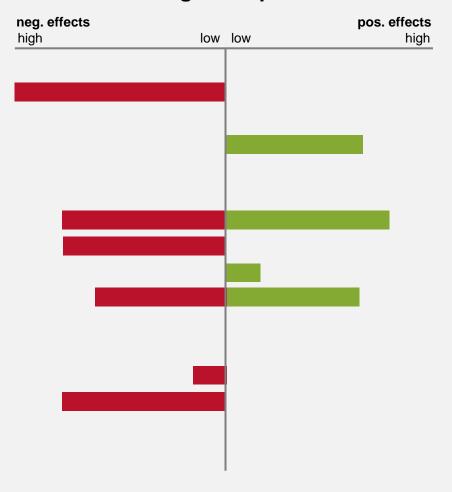
Increased pressure on project costs

- Pressure on project costs
- Projects cancelled or postponed
- Conservative risk management
- Decrease of DSU/BI sums insured

Sums insured over term of projects

- Substantial fall in prices
- Fall in indexed contract amounts

Relevance of negative / positive effects



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Possible impacts of the recession



Risk mngt., third-party inspection

- Less spent on risk management
- Less spent on quality management

Claims costs

- Inflated claims costs
- Large fluctuations in commodity prices
- Decrease in replacement values
- Shorter delivery times for equipment
- Expansion in scope cover

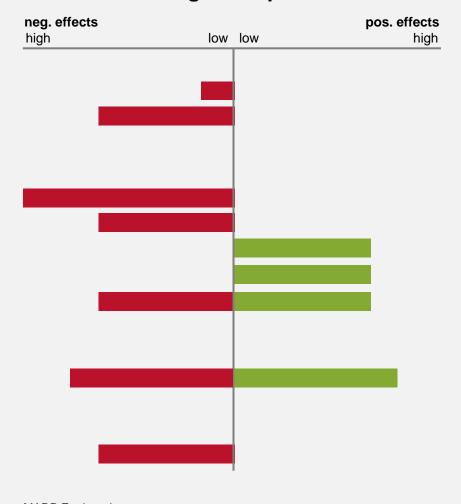
Specialist staff

Availability of specialist staff

Others

Moral hazard

Relevance of negative / positive effects



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Recession or depression?



Three scenarios for the future development

>> What will happen strongly depends on the political developments



Short contraction in 2009, speedy upturn

- Recession in 2009
- Recovery 2010

Return to former growth rates

- Minor growth in established markets
- Emerging economies as growth driver



Recession lasts until 2010, massive impacts

- Deep recession 2009, 2010
- Slow recovery 2011

Minor growth rates

- Minor growth compared to former historical growth
- Paralysation of emerging economies



Long contraction until 2011, weak recovery in 2012

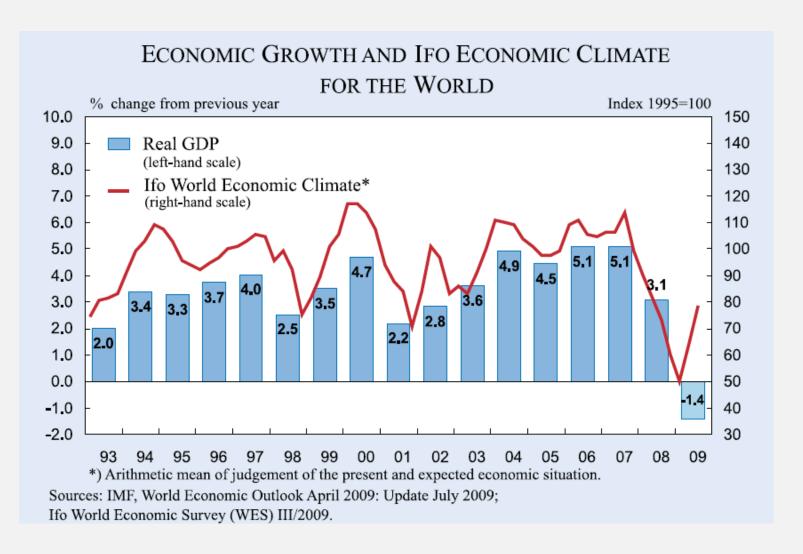
- Negative or slow growth in 2011 and 2012
- Gradual recovery in 2012/13

Structurally low growth rates

- Missing demand stimulus in world economy
- Emerging Economies with focus on domestic markets



Since June 09: Is there a light at the end of the tunnel?



Thank you very much for your attention!

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