

## **Agenda**

- Background and story so far
- The current Insurance Capital Standard (ICS) specifications
- Future development and potential implications



26 October 2016

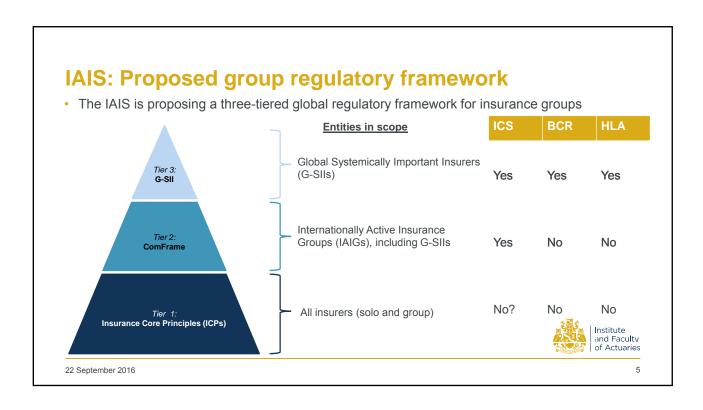


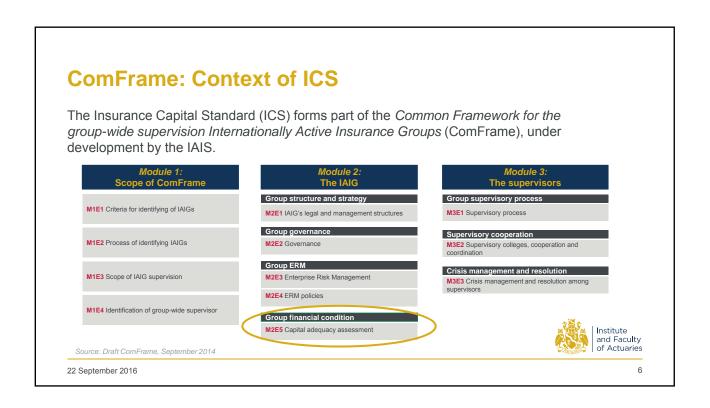
### Who are the IAIS?

- The International Association of Insurance Supervisors (IAIS) was established in 1994 to promote cooperation among insurance supervisors around the globe and with supervisors in other financial sectors.
- · Voluntary membership organization:
  - Regulators from more than 200 jurisdictions in more than 140 countries
  - 97% of the world's insurance premiums
  - All EU member states and EIOPA are represented in IAIS
- Its objectives are to:
  - Promote effective and globally consistent supervision of the insurance industry
  - Contribute to global financial stability



22 September 2016 4





## **Scope of ICS**

Internationally Active Insurance Groups (IAIGs) are designated by their lead regulator, considering the following criteria:

- Size:
  - \$50bn total assets, OR
  - \$10bn gross written premiums
- · International activity:
  - Premiums written in three or more jurisdictions, AND
  - At least 10% of the group's total gross written premium written outside the home jurisdiction

There are expected to be ~55 IAIGs globally.



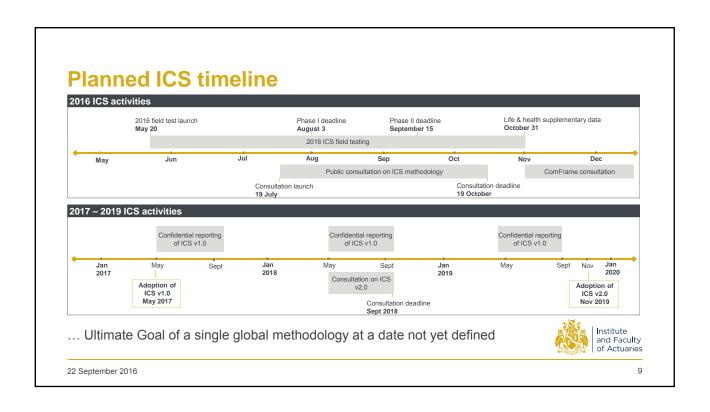
22 September 2016

### The story so far

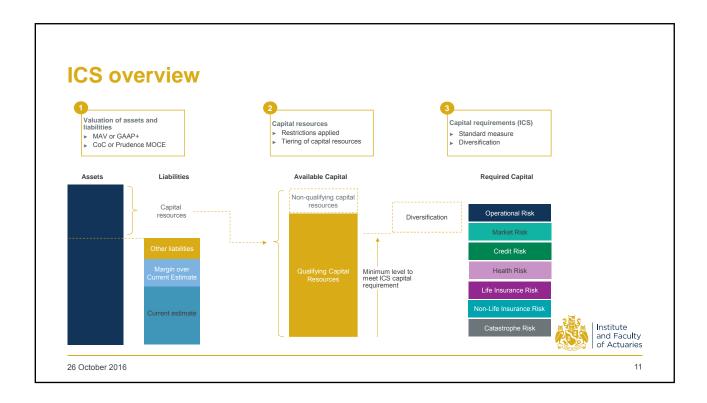
Date	Event		
Sep 2013	Principles for the development of ICS released	Cignificant political	
Apr 2014	First round of field testing commences	Significant political velopme	
Oct 2014	IAIS and FSB agree details of BCR proposal	аотогорию	
Dec 2014 – Feb 2015	Risk-based global ICS consultation.	Increased momentu past 12 months in	
Apr 2015	Second round of field testing commences		
Jun 2015	Submission of Part 1 of second quantitative field testing information from supervisors to IAIS	34 field test particip 2014 and 20	
Jun – Aug 2015	HLA consultation process.		
Sep 2015	Submission of Part 2 of second quantitative field testing information from supervisors to IAIS	Over 40 field test pa 2016	
Oct 2015	Approval of HLA within IAIS and HLA document provided to G20		
Nov 2015	HLA endorsed by G20 at Leaders' Summit	Continuous lobby	
From 2016	Confidential reporting of HLA and BCR commences	discussion	
Feb – Apr 2016	IAIS workshops and written feedback on draft technical specifications		
May 2016	Third round of field testing commences.	l Ir	
Jul 2016	Second ICS and ComFrame consultation released		



Institute and Faculty of Actuaries







### ICS balance sheet - key issues

- Market Adjusted Valuation (MAV) vs. GAAP Plus
  - MAV similar to Solvency II
  - GAAP Plus varies by jurisdiction
- Cost of Capital MOCE vs. Prudence MOCE
  - CoC-MOCE similar to Solvency II Risk Margin (but with 5% cost of capital rate)
  - P-MOCE adds a margin for prudence considering the distribution of underwriting risks for life business, and avoids recognition of future profits for non-life business
- · Discount rate for MAV
  - Base curve (including UFR)
  - Spread adjustment



26 October 2016 1

# Discount curve (MAV): credit spread adjustment

• Three options tested in 2016, along with three reference methods:

	Reference Methods		Options			
	Risk-free	2015 methodology	Asset earned rate	Option 1: Currency- specific	Option 2: Firm-specific	Option 3: Bucketing
Liability segmentation (buckets)	N/A	1	3	1	1	3
Portfolio Composition	N/A	Reference portfolio per jurisdiction	IAIG's own portfolio – own view of asset earning rate	Representative portfolio per currency	Weighted average based on firm's assets	Weighted average based on firm's assets
Default Deduction	N/A	Included in 60% deduction of spread	Risk Correction	Risk Correction	Risk Correction	Risk Correction
1	0%	100%	80%	100%	100%	80%
Liquidity buckets 2			60%			60%
3			40%			40%



22 September 2016 13

## **Capital resources**

• Capital resources are subject to tiering and other eligibility restrictions, similar to Solvency II.

	ICS Capital Resources	Solvency II Own Funds		
Number of tiers	Two tiered system Tier 1: Unlimited / Limited Tier 2: Paid-in / Not paid-in	Three tiered system Tiers 2&3: Basic / Ancillary		
Composition limits	Tier 1 limited: (two approaches)  • <10% of ICS, or  • <20% of Tier 1 capital  Tier 2 < 50% of ICS  Tier 2 non-paid up <10% ICS	Tier 1 > 50% of SCR Tier 2 & 3 < 50% of SCR Tier 3 < 15% of SCR	Senior debt issued by the holding company and pushed down to subsidiaries is structurally, but not	
Structural subordination	Currently not eligible, but being consulted on	Not eligible	contractually, subordinated to policyholders	
Encumbered assets	Encumbered assets not eligible	Restrictions based on encumbrance, but assets may be eligible at lower tier	Institute	
			and Faculty of Actuaries	

22 September 2016 1

### ICS capital requirement - structure · Standard Method only - no Internal CAT Operational Models currently The structure of Interest rate the Standard Claim / reserve / Method is similar to the SII Standard Formula – but there are differences in the detail Institute and Faculty of Actuaries 15 22 September 2016

#### Risk categories included Types of risks China (C-ROSS) Market risk Interest rate risk Equity risk Property risk Spread/credit default risk Included in credit risk No (considered qualitatively in control risk) Concentration risk Currency risk Nο Life underwriting risk Mortality risk Longevity risk No (in development) Morbidity/disability risk Lapse risk Non-life underwriting risk Premium risk Reserve risk Catastrophe risk Implicit in prem / res risk Natural catastrophe risk (explicit in development) Man made catastrophe risk Implicit in prem / res risk Health risk Credit/counterparty risk Institute and Faculty of Actuaries No (in development) 22 September 2016

## **Market risks**

	ICS	Solvency II
Interest rate risk	Three IAIS prescribed shocks to yield curves:  Up  Down  Flattening	Two EIOPA prescribed shocks to yield curves: Up Down
Equity risk	35% decrease in listed shares, developed mkts 48% decrease in emerging market shares 49% decrease in all other types of assets Increase in volatilities, depending on maturity Decrease in hybrid debt, by credit rating	39% decrease in listed shares, developed mkts 49% decrease in emerging market sharesplus symmetric adjustment between +/-10% 22% decrease in strategic participations
Real estate risk	30% decrease in value of real estate exposure (including own use)	25% decrease in value of real estate exposure (including own use)
Currency risk	Risk charge on pairwise currency interactions Applied to excess of assets over "liabilities + 10% net insurance liabilities", with latter term representing subsidiary's contribution to ICS	25% increase or decrease in foreign currency values Applied to excess of assets over liabilities for each currency
Asset concentration risk	Charges on assets exceeding threshold, by credit rating	Charges on assets exceeding threshold, by credit rating



22 September 2016 17

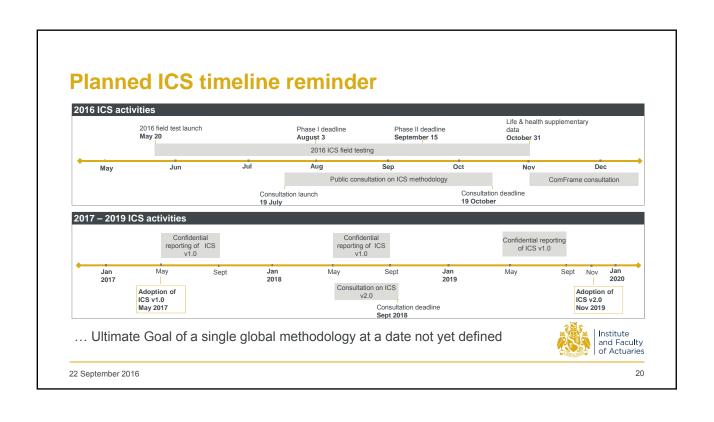
### Life risks

	ICS	Solvency II
Mortality risk	10% increase in mortality rates at all ages	15% increase in mortality rates at all ages
Longevity risk	15% decrease in mortality rates at all ages; and 1% in mortality improvement rates	20% decrease in mortality rates at all ages
Lapse risk	Upward shock: increase of 40% in assumed option take-up rates in all future years  Downward shock: decrease of 40% in assumed option take-up rates in all future years  Mass lapse shock: immediate surrender of 30% of retail policies and 50% of non-retail policies	Upward shock: increase of 50% in assumed option take-up rates in all future years  Downward shock: decrease of 50% in assumed option take-up rates in all future years  Mass lapse shock: immediate surrender of 40% of retail policies and 70% of non-retail policies, only applied to policies with a surrender strain
Expense risk	Increase of x% in unit expense assumptions and increase of y% per annum in expense inflation  x% and y% differ by region (6% and 1% respectively for EEA)	Increase of 10% in unit expense assumptions and increase of 1% per annum in expense inflation

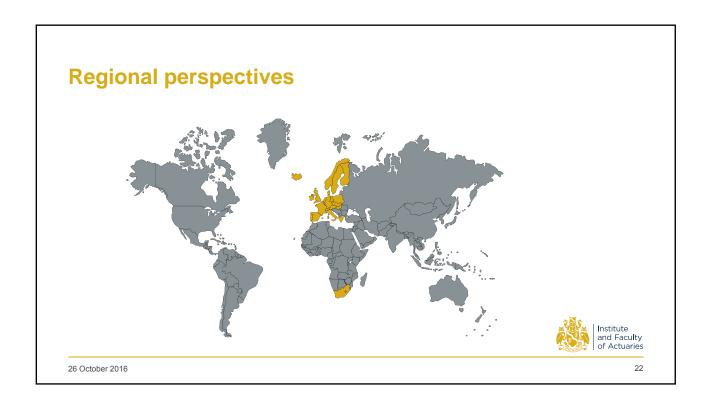


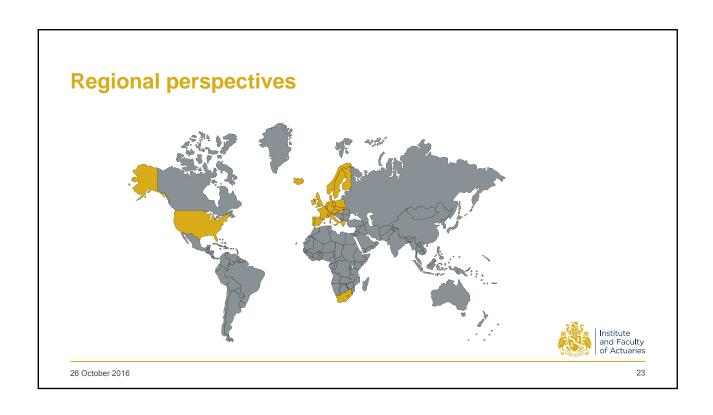
22 September 2016 18

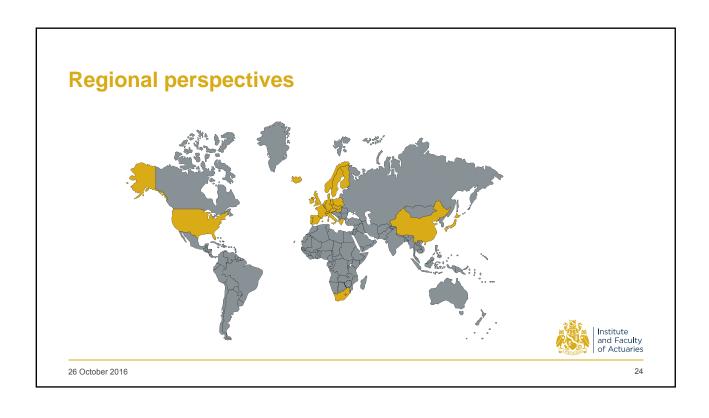


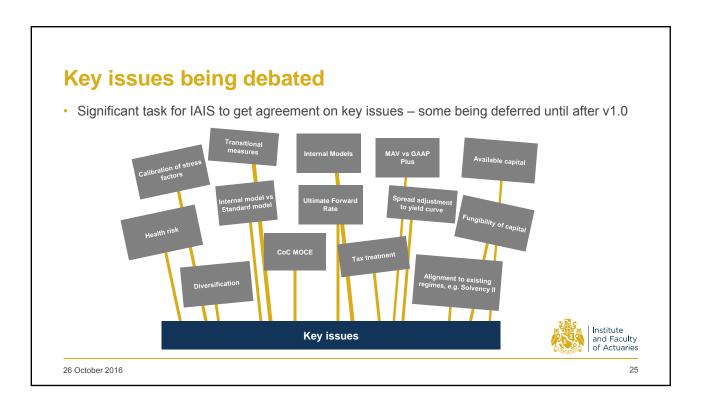


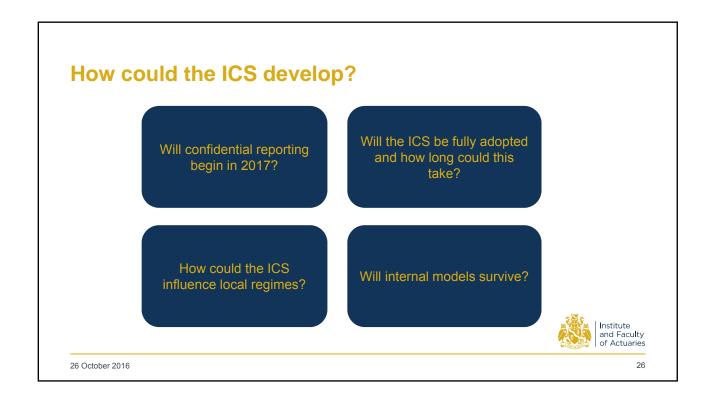














# Comments

The views expressed in this [publication/presentation] are those of invited contributors and not necessarily those of the IFoA. The IFoA do not endorse any of the views stated, nor any claims or representations made in this [publication/presentation] and accept no responsibility or liability to any person for loss or damage suffered as a consequence of their placing reliance upon any view, claim or representation made in this [publication/presentation].

The information and expressions of opinion contained in this publication are not intended to be a comprehensive study, nor to provide actuarial advice of any nature and should not be treated as a substitute for specific advice concerning individual situations. On no account may any part of this presentation be reproduced without the written permission of the IFoA or authors.



26 October 2016 27

### **Contact details**



### Loic Bellettre

- · Senior Manager, EMEIA Insurance Risk and Actuarial Services
- · Based in London
- Email: <a href="mailto:lbellettre@uk.ey.com">lbellettre@uk.ey.com</a>
- Phone: +44 7467 441 441



### **Bouke Evers**

- · Senior Manager, EMEIA Insurance Risk and Actuarial Services
- Based in Amsterdam
- Email: Bouke.Evers@nl.ey.com
- Phone: +31 88 407 3141



26 October 2016 2