Institute	
and Faculty of Actuaries	
1 or rectained	
Actuarial capacity in microinsurance	
Honey Von	
Henry Yan Microinsurance Working Group	
The visus supressed is this proceeding are those of the proceeds	
The views expressed in this presentation are those of the presenter.  13 May 2016	
13 may 2010	
Agenda	
Agenda	
Context for actuaries in microinsurance	
- What is an actuary?	
Ways to address supply of actuaries	
When do you not need an actuary?  When might you need an actuary?	
With might you need an actuary.	
International developments	
<ul> <li>International guidance for supervisors</li> </ul>	
- International actuarial developments	
Proposed microinsurance actuarial course outline     Actuaries	
13 May 2016 2	
What is an "actuary"?	
• UK	
<ul> <li>Analyst, associate, fellow</li> </ul>	
<ul> <li>Education, experience, professional development, code of conduct</li> </ul>	
International Actuarial Association	
- 67 full members & 29 associate members	
2	
Developing markets	
<ul> <li>no uniform definition of actuary</li> </ul>	
may be linked to qualifications of IFoA or IAA member or postgraduate university qualification in actuarial studies	
university qualification in actuarial studies	
13 May 2016 3	

Types o	of market	s for MI purpo	oses
Б		1110	
	ed market (e	-	
– MI targ	gets low-income	e customers	
• Dovoloni	ing market w	ith dayalanad mark	et insurance (eg SA)
	•	•	et insurance (eg SA)
– IVII tarç	gets low-income	GUSTOTIETS	
Davidani		ith dayalaning inay	
-	-	ith developing insur	
- Need 1	to consider inst	rance needs of entire r	narket including MI
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13 May 2016			of Actuaries
y 2010			*
The cur	anly of ac	stuarioe ie lim	itad
		tuaries is lim	
Region Africa	Country	IAA Status Associate	Number of actuaries 100 members, 1 fellow, 4
Africa	Ghana	Associate	associates, 1200 graduates from
	Cote d'Ivoire	Full	local universities 15 members, 9 fellows
	Kenya	Full	17 fellows
	Uganda	Associate	300 members, 0 fellows
Asia	India	Full	8500 members, 260 fellows, 150
			associates 21 members, 0 fellows
	Mongolia Philippines	Associate Full	21 members, 0 fellows 310 members, 69 fellows, 67
			associates
	Vietnam	No act association	
Latin America	Brazil	Full	867 fellows
	Colombia	Full Not IAA mombor	5 fellows
Source: Inte	Peru ernational Actuarial Association	Not IAA member In Issues Paper: Addressing the Gap in Actuaris	al Services in of Actuaries
13 May 2016	surance Markets, 2014		5
			-
Ways to	address	s the supply o	f actuaries
,			
<ul> <li>National</li> </ul>	level:		
<ul><li>training</li></ul>	g programs in li	ine with international sta	andards
	31 33		
<ul> <li>Internation</li> </ul>	onal lovels		
		1.11. 40.	
		echnician (UK, South Af	rica)
	ries Without Bo		
<ul><li>Trainin</li></ul>	ng of non-actua	ries in actuarial issues	
			urance course by Frankfurt
Schoo	l of Finance an	a ivianagement	2 <b>2</b> e
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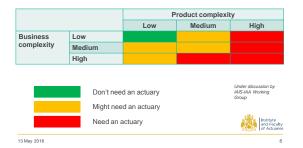
## When do you not need an actuary?

- · If actuaries are not present, markets adapt
- · Non-actuaries can do pricing, eg credit life products
- · Some providers simply follow the leader
- The sum insured may not be material, even for aggregate risks, so simplified approach is possible
- Loss ratio may be small compared to distribution and admin costs so a simple loading can be used
- Reinsurers can provide pricing and underwriting expertise
- Regulator can define products that do not need actuarial certification



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## When might you need an actuary?



## When do you need an actuary?

- · Regulation requires it
- · Sum insured is high
- Product complexity is high eg health, index insurance
- High long term reserving is needed eg annuities, disability, catastrophe
- · Risks are not predictable
- · Operational risk is high, eg fraud, lack of experience, high insolvency risk
- · Lack of data doesn't necessarily mean you need an actuary



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	Key elements in a supervisory system for financially sound insurance sector and adequate customer protection
2007 Issues Paper gulation & Supervision of MI	Intro to MI and prelim analysis of the then ICPs as they relate to MI     Application of ICPs can have a positive or negative impact on MI
2010 Issues Paper	Mutuals should be regulated like other insurance providers     Aspects of mutuals differ from commercial insurance eg finite pooling
ation & Supervision of Mutuals etc in MI  2012 Application Paper Regulation and Supervision of MI	Barriers – affordability, geography, culture, education     Innovations - product design, coverage and service delivery
2015 Issues Paper	Proportionality – nature, scale and complexity of risks  Fair treatment of customers  Vulnerability of low-income customers at all stages of insurance process
Conduct of Business in MI  [2017 Application Paper]	Will consider supervisory requirements for MI like solvency and actuarial
portionate Prudential Requirements for MI  IAIS = International Association of Insura	nce Supervisors: www.iaisweb.org
A2ii = Access to Insurance Initiative: www.	nce Supervisors; www.laisweb.org and Fee and F
nternational actu	arial developments
2013 Paper Role of the Actuary	Generic document that can be adapted by member associations     Role of a professional actuarial association and role of IAA
2014 Issues Paper ddressing the Gap in Actuarial Services in MI	Issues regarding actuarial functions in MI markets     Challenges re actuarial resources in MI and recommendations
Actuarial toolkits	Credit life toolkit     Health insurance toolkit by Milliman
[2017 Paper] Actuarial Approaches to MI	Framework for determining role of the actuary in MI Proportionate actuarial approaches to MI Guidance on supply / demand issues and framework for training?
	• очнивлее on supply / demand issues and framework for training ?
IAA = International Actuarial Association IAA Microinsurance Working Group IAS-IAA Working Group	
IAIS-IAA Working Group IAA Actuaries WithoutBorders	
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May 2016	
CAA MI proposed	course outline
Microinsurance produce	cts, features and stakeholders
Microinsurance produce	cts, features and stakeholders microinsurance, role of regulation and consumer protection process
Role of the actuary in Product development Application of actuaria	cits, features and stakeholders microinsurance, role of regulation and consumer protection process I control cycle
Microinsurance produce     Role of the actuary in in Product development in Application of actuaria     Steps for pricing a Milian Pricing issues - data, etc.	cts, features and stakeholders microinsurance, role of regulation and consumer protection process I control cycle product exclusions, moral hazard, adverse selection and fraud
Microinsurance production of the actuary in reconstruction of the actuary in reconstruction of actuaria.      Steps for pricing a MI reconstruction of actuaria.	cts, features and stakeholders microinsurance, role of regulation and consumer protection process I control cycle product exclusions, moral hazard, adverse selection and fraud
Microinsurance production     Role of the actuary in reconstruction     Product development reconstruction of actuaria     Steps for pricing a MI reconstruction of actuaria     Pricing Pricing applications and	cts, features and stakeholders microinsurance, role of regulation and consumer protection process or control cycle product exclusions, moral hazard, adverse selection and fraud di toolkits ct to market c product and process changes
Microinsurance productions and actuary in the Product development to the Application of actuaria      Steps for pricing a MI to Pricing issues - data, to Pricing applications and the Introducing a MI productions and the Pricing applications and the Introducing a MI productions and the Introducing a MI productions and the Introducing a MI productions are pricing applications and the Introducing a MI productions are produced to the Introducing a MI productions are produced to the Introducing a MI producing a	cts, features and stakeholders microinsurance, role of regulation and consumer protection process to control cycle product pro