





FINIA NICIA I AA

# 2. RATIONALE FOR REGULATING FINANCIAL MARKETS



CHNZ (undated); Fohlin (2014); Menton (1995); OHCD (2010) and World Bank (2012)





## 2. RATIONALE FOR REGULATING FINANCIAL MARKEIS

TINIA NICIA I AA

They are increasingly integrated, potentially contributing to instability

They take on a number of forms but are complex, global in reach and intertwined

CHRVZ (undated); Detzer (2014); HCB (2012); Fishine (2014); Fohlin (2014); Menton (1995); ORCD (2010); Tagoe (2016); Vitols, (2001); World Barrk (2012)



## 2. RATIONALE FOR REGULATING FINANCIAL MARKETS

FINIA NICIA I AA

They are increasingly integrated, potentially contributing to instability

They take on a number of forms but are complex, global in reach and intertwined

Financial markets cause substantial (not easily quantified) damage when they fail



## 2. RATIONALE FOR REGULATING FINANCIAL MARKEIS

FINIA NICIA I AA

They are increasingly integrated, potentially contributing to instability

They take on a number of forms but are complex, global in reach and intertwined

Financial markets cause substantial (not easily quantified) damage when they fail

These failures (or imperfections) can have a range of forms and consequences

Barr&Diamond (2003; Burnemeieret al (2009; Carvajal et al (2009; CHNZ (undated); De la Dehesa (2010; FCA (2013; Gintis (2009; Grochulski & Monison (2014); Healy & Palepu (2001); IMF (2013, 2014b and 2018); Havaja & Mian (2011); Laffont & Martimont (2002; ORCD (2010); Parker; (2002)



# 2. RATIONALE FOR REGULATING FINANCIAL MARKETS





#### 2. RATIONALE FOR REGULATING FINANCIAL MARKEIS

#### FINANCIAL MARKEIS PLAY CRITICAL ROLES IN THE ECONOMIES SERVED

They are increasingly integrated, potentially contributing to instability

They take on a number of forms but are complex, global in reach and intertwined

Financial markets cause substantial (not easily quantified) damage when they fail

These failures (or imperfections) can have a range of forms and consequences

And the possibility of regulatory failure should not be excluded

Regulation is typically justified on efforts to correct market failures



APRA (2014); Australian Government (1997); Baldwin & Hack (2016); Hack (2012 and 2013); Hack & Baldwin (2010); Cochrane (2014); Falkena et al (2001); Feasibility (2010); FSA (2006 and 2012); Knot (2014); Llewellyn





# 3. THE CONTRIBUTION OF INSURANCE TO DEVELOPMENT

INCUDANCE CONTINUITE TO FAMO

"A sound national insurance and reinsurance market is an essential characteristic of economic growth"

United Nations Conference on Trade and Development (UNCTAD), 1964:55)





# 3. THE CONTRIBUTION OF INSURANCE TO DEVELOPMENT



Insurance theoretically benefits society in a number of ways

Evidence of causal link between insurance and economic growth is not clear





# 3. THE CONTRIBUTION OF INSURANCE TO DEVELOPMENT



Insurance theoretically benefits society in a number of ways

Evidence of causal link between insurance and economic growth is not clear







INICHDANICE MAY CONTRIBUTE MATERIALS

What is systemic risk?

"One possibility is simply to concede that systemic risk is not something that is amenable to quantification. Instead it is something that becomes self-evident under casual observation."

Iars Peter Hansen (20131)







INSURANCE MAY CONTRIBUTE MATERIALLY TO SYSTEMIC BUSE

What is systemic risk?

Are regulators effectively mitigating or managing systemic risk?

"Existing policies appearade quate to contain individual firm and systemic risks both now and in the intermediate term"

Group of Ten (2001: 7 and 18)





INSURANCE MAY CONTRIBUTE MATERIALLY TO SYSTEMIC BLSK

What is systemic risk?

Are regulators effectively mitigating or managing systemic risk?

Anaten & Tuner (2013); Boyd & Heitz (2016); Chen & Sun (2019); Rung & Yeh (2018); Jobst (2014); Him (2011); Moenninghoffetal (2015); Ötker Robe et al (2011); Ueda & Di Mauro (2013); Weiß & Mühlnickel (2014)









#### INSURANCE MAY CONTRIBUTE MATERIALLY TO SYSTEMIC RISK

What is systemic risk?

Are regulators effectively mitigating or managing systemic risk?

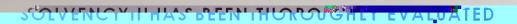
What of the insurer contribution to systemic risk

Under what conditions are insurer contributions to systemic risk significant?



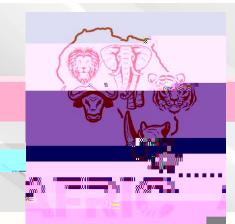






Europe's Solvency II approach is establishing itself as the global standard

Regarded as an improvement on its predecessors and many of its peers



Cummins (1993); Doff (2008 and 2016); Fing & Holzmiller (2008); Holzmiller (2009); Klein (2012a); Liuetal (2019); Rae etal (2017)

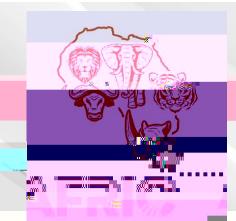


#### SÜLVENCYII'HAS BEEN'IHONOGHET EVALOÄTED

Europe's Solvency II approach is establishing itself as the global standard

Regarded as an improvement on its predecessors and many of its peers

Subject to criticism in a number of respects



Casarano et al (2017); Cerchiara & Demarco (2016); Christiansen & Niemeyer (2014); Foroughi (2012); Fiölich & Weng (2015 and 2018); Fing et al (2007); Fing & Holzmüller (2008); Gatzert & Wesker (2012); Iaas & Siegel (2017); Liuetal (2019); Martin (2013); Swarup (2012)



#### SOLVENCY II HAS BEEN THOROUGHLY EVALUATED

Europe's Solvency II approach is establishing itself as the global standard

Regarded as an improvement on its predecessors and many of its peers

Subject to criticism in a number of respects



Al-Darwishet al (2011); Barth (2000); Boonen (2017); Hing & Holzmüller (2009); Horeani (2013); Rae et al (2017); Swarup (2012); Wagner (2014)

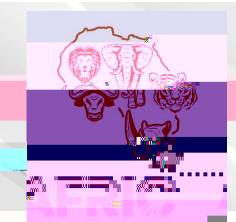


#### STYPENCY II HAS BEEN I HOROGHET EVALUATED

Europe's Solvency II approach is establishing itself as the global standard

Regarded as an improvement on its predecessors and many of its peers

Subject to criticism in a number of respects



Acharya (2009; Acharya et al (2012 and 2017); Adamset al (2014); Allen & Carletti (2005); Brownlees & Engle (2017); Bui et al (2017); Checkley (2009); Fong et al (2011); Gauthieret al (2012); Giglio (2016); Hutschet al (2015); Huang et al (2012); bragimovet al (2011); Leukes & Mensah (2019); Sedunov (2016); Segoviano & Goodhart (2009); Wagner (2010); Zhang et al (2015)







#### SOLVENCY II HAS BEEN THOROUGHLY EVALUATED

Europe's Solvency II approach is establishing itself as the global standard
Regarded as an improvement on its predecessors and many of its peers
Subject to criticism in a number of respects

The real concern: diversification pursued by entities contributes to systemic risk

"While it is true that diversification reduces an institution's overall likelihood of failing, it also increases its inclination to fail at the same time as other institutions. Since externalities are typically associated with titmwith h

Acharya (2009); Allen & Carletti (2006); Checkley (2009); Ibragimov et al (2011); Wagner (2010)



### 5. PRUDENTIAL REGULATION OF INSURERS

### SCHOOL HAS BEEN HOUSE HET EVALUATED

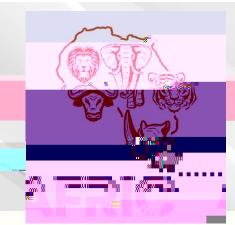
Europe's Solvency II approach is establishing itself as the global standard

Regarded as an improvement on its predecessors and many of its peers

Subject to criticism in a number of respects

The real concern: diversification pursued by entities contributes to systemic risk

The problem has been recognised by the European Insurance & Occupational Pensions Authority (EIOPA)





### 5. PRUDENTIAL REGULATION OF INSURERS

### SCHOOL HAS BEEN HOUSE HET EVALUATED

Europe's Solvency II approach is establishing itself as the global standard

Regarded as an improvement on its predecessors and many of its peers

Subject to criticism in a number of respects

The real concern: diversification pursued by entities contributes to systemic risk

The problem has been recognised by EIOPA

South Africa's insurance market is large and sophisticated, but concentrated

**IMF (2008) 2014a, 2015a, 2015b and 2015c); PA (2019)** 



### 5. PRUDENTIAL REGULATION OF INSURERS

### SOLVENCY II HAS BEEN THOROUGHLY EVALUATED

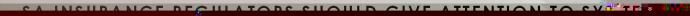
Europe's Solvency II approach is establishing itself as the global standard
Regarded as an improvement on its predecessors and many of its peers
Subject to criticism in a number of respects







## 6. SOUTH AFRICAN REGULATORY MODEL



South Africa has a similarly strong rationale for regulating insurers

Policymakers already focus on improving the economic and social contributions of insurance





### 6. SOUTH AFRICAN REGULATORY MODEL

### SA INSURANCE REGULATORS SHOULD GIVE ATTENTION TO SYSTEMIC RISK

South Africa has a similarly strong rationale for regulating insurers

Policymakers already focus on improving the economic and social contributions of insurance

Evidence for and against a contribution to systemic risk exists









# 7. CIASSIFYING SOURCES OF SYSTEMIC RISK

TEFORESTO CLASSIFY SOURCES OF SYESTEMIC THESK





# 7. CLASSIFYING SOURCES OF SYSTEMIC RISK

TETONTISTO CLASSITH SOUNCES OF SYSTEMIC NESK



**FIOPA (2017); IAIS (2019)** 





# 7. CLASSIFYING SOURCES OF SYSTEMIC RISK

TETONTISTO CLASSITH SOUNCES OF SYSTEMIC NESK



**FIOPA (2017); IAIS (2019)** 



# 7. CLASSIFYING SOURCES OF SYSTEMIC RISK

TETONTISTO CLASSITH SOUNCES OF SYSTEMIC NESK



**FIOPA (2017); IAIS (2019)** 



# 7. CIASSIFYING SOURCES OF SYSTEMIC RISK

TEFORESTO CLASSIFY SOURCES OF SYESTEMIC THESK











# THE CONTRIBUTION OF SA INSURERS TO SYSTEMIC RISK

A Framework for Identification and Classification

Rob Rusconi