

A New Perspective for Emerging Risk Management: Maturity Level -- Using Cyber Risk as An Example

Swiss Re

Ésa YC Kasper, Senior Risk Manager

Kuohsiang YONG, Risk Manager

Synpulse Management Consulting

Zhenzhen Wang, Senior Consultant

Meiyang Guo, Consultant



Agenda

1 Definition of Emerging Risk

2 Maturity Model

3 Cyber as An Example

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3 Cyber as An Example

What Are Emerging Risks

What we are talking about when we talk about emerging risks

Historical data



Tomorrow's exposure



Why Emerging Risks Are Important?

Why we need to manage emerging risks

Foresight is key to prepare for future challenges



- Emerging economic, technological, socio-political and environmental risks modify the risks we face
- The earlier the industry starts adapting to them, the better prepared it will be for future exposures and future opportunities
- There is no silver bullet that will work in all cases, but sharing knowledge is a good first step to prepare for what might lie ahead

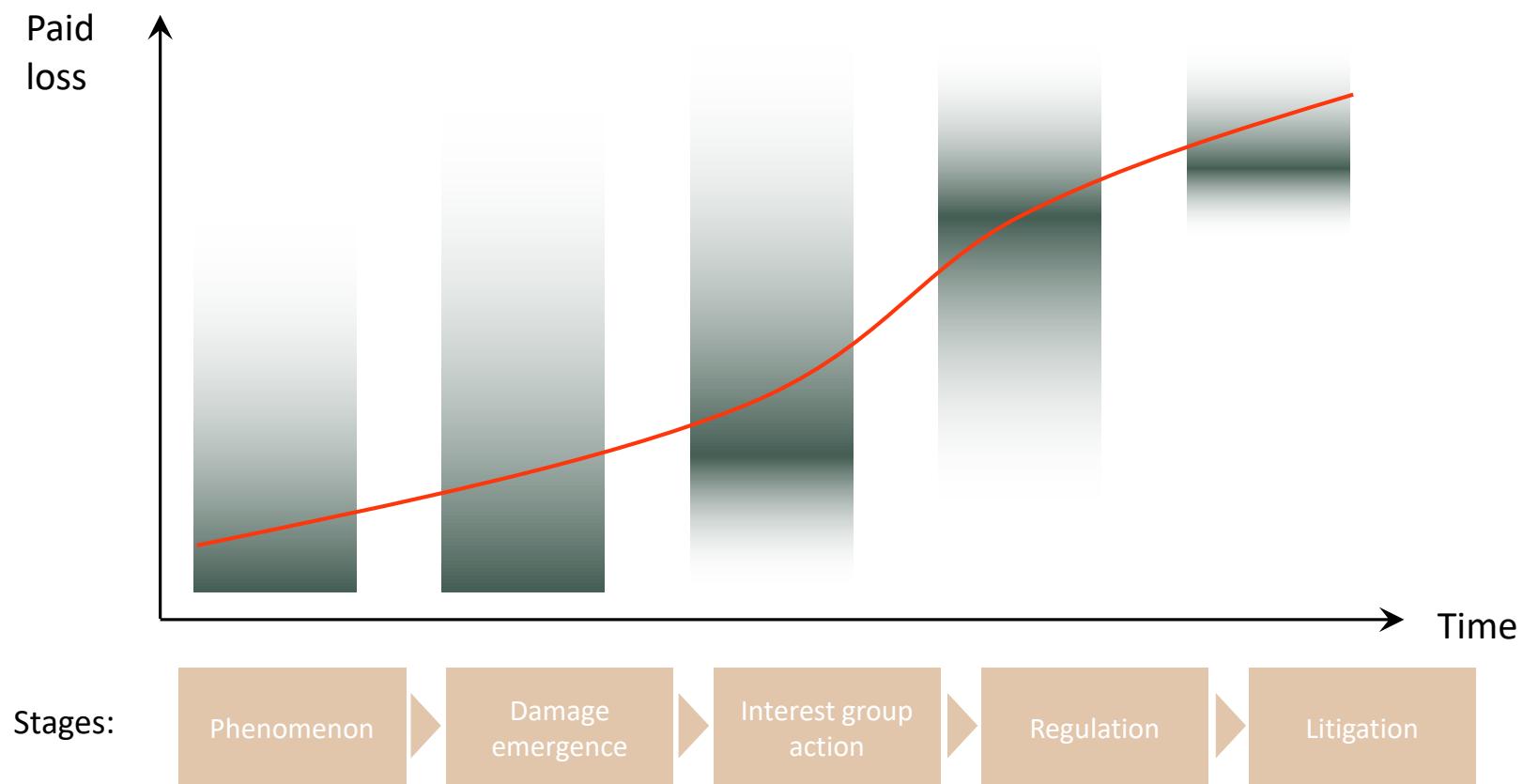
At Swiss Re, Group Risk Management identify, assess and report emerging risks together with our partners in order to:



- Increase risk awareness
- Protect the balance sheet, and
- Seize opportunities and enable risk taking

New Risks Emerge in Stages

Different stages can be observed as risks mature (casualty risks-type example)



Definition of Emerging Risk

What we are talking about when we talk about emerging risks



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Swiss Re definition of Emerging Risks

Emerging Risks are new or changing risks which are difficult to quantify and may have a major impact on society and the re/insurance industry.

Types of Emerging Risk:

- New risks/novel risks (e.g. blockchain technology)
- Latent risks (e.g. nanotechnology)
- Risks whose framework conditions change (e.g. regulatory, litigation)

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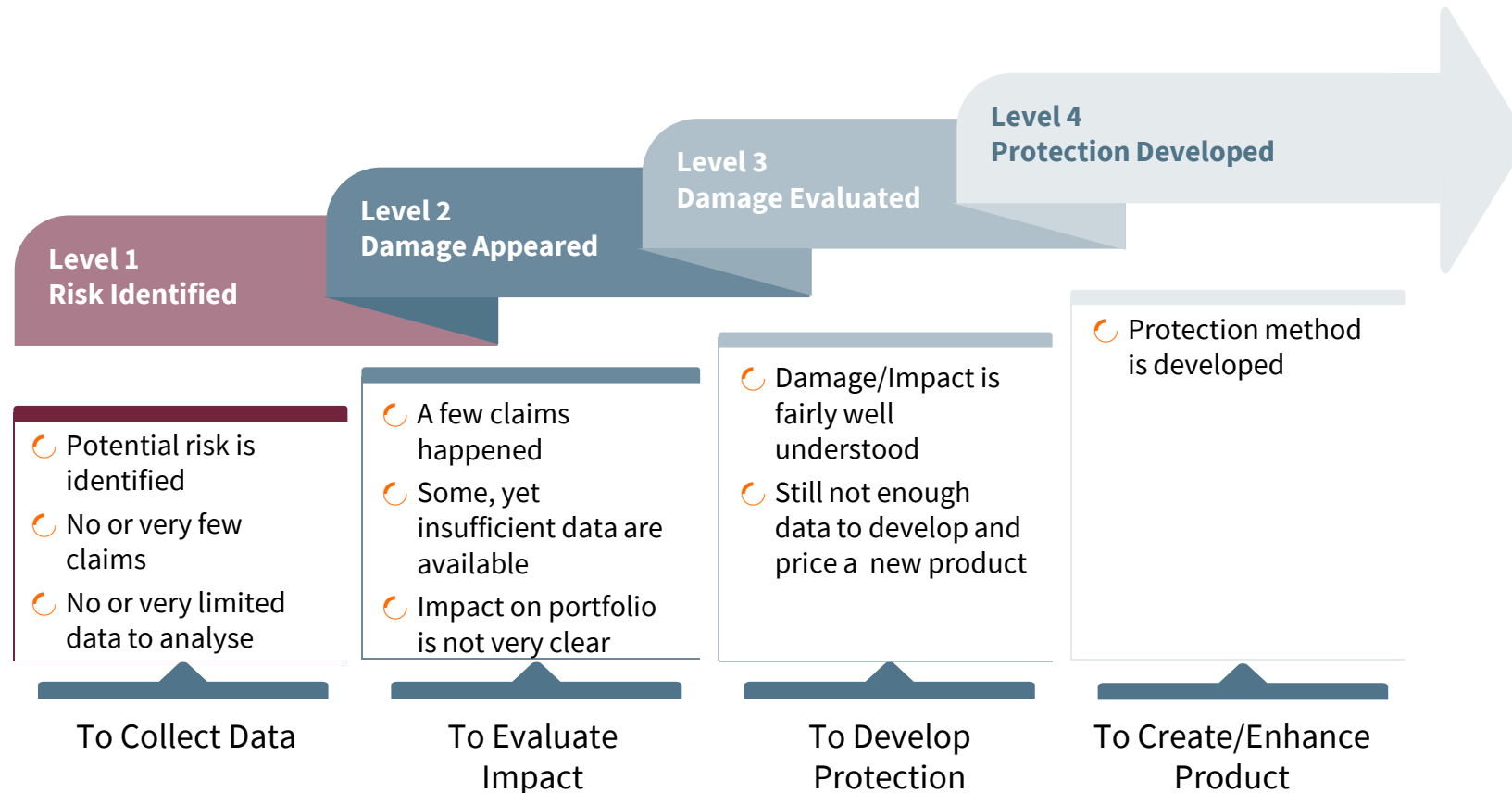
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Maturity Level of Emerging Risks

A new perspective to look at Emerging Risks

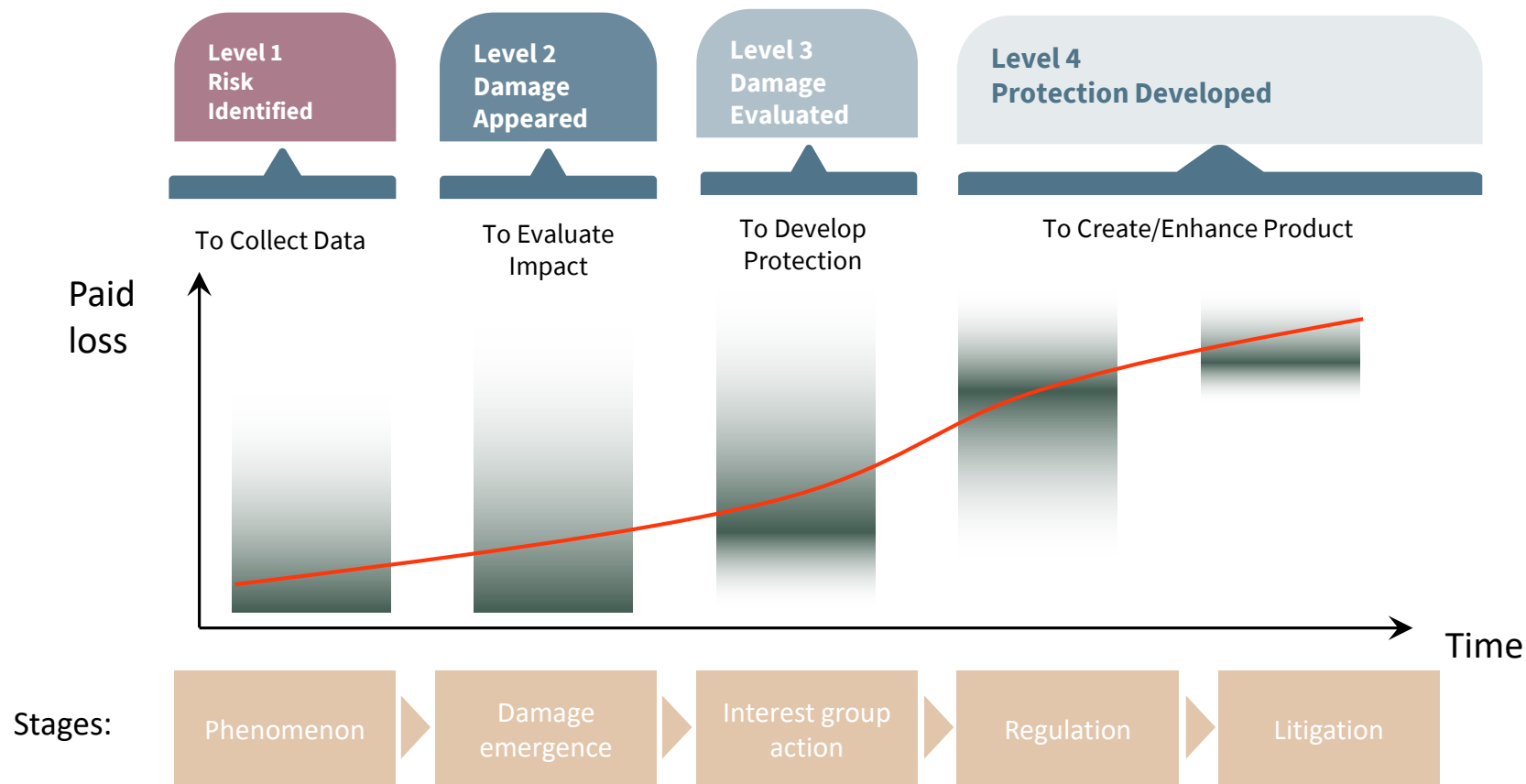


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Synpulse's maturity model is a conceptual framework that can be employed to consider and evaluate emerging risks. However, the characteristics of it may apply only to a small number of emerging risks. This is not reflective of Swiss Re's approach to identify, assess and evaluate emerging risks.

Stages of Emerging Risks and Maturity Model

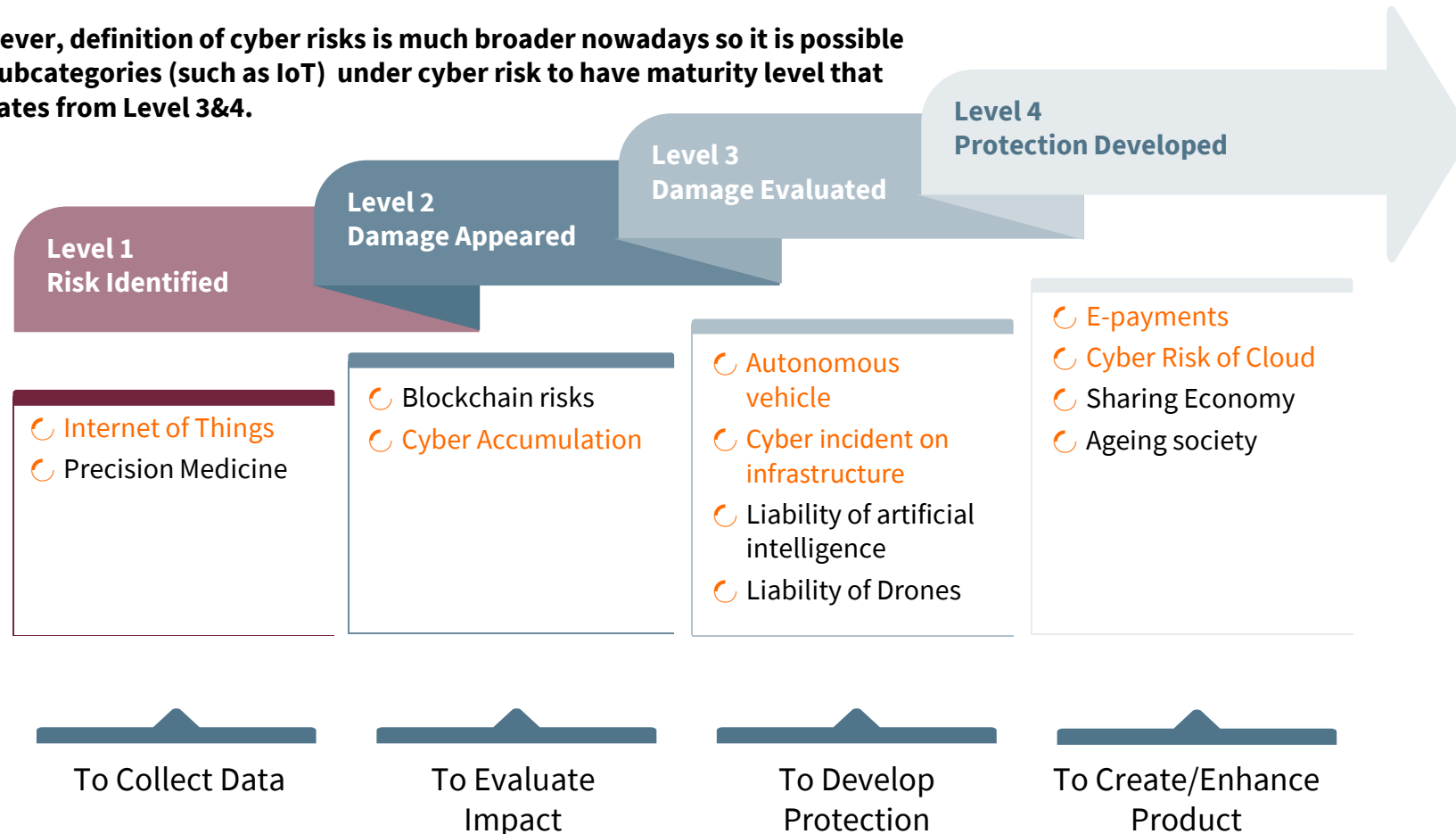
How Maturity Model is mapped to stages of emerging risks



Maturity Level of Cyber Risks Compared to Other Emerging Risks

For the most part, Cyber related risks have evolved from Level 1 to Level 3&4.

However, definition of cyber risks is much broader nowadays so it is possible for subcategories (such as IoT) under cyber risk to have maturity level that deviates from Level 3&4.



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3 More Thoughts on Cyber Risk

Cyber Risk as An Example

What we know about the risk today

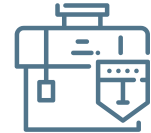


Trend

- Cyber risks are evolving rapidly
- Extent of associated possible losses is also broadening
- Cyber protection topic is rising up the corporate agenda

Challenge

- Risk landscape continues to rapidly morph
- Complex to understand and calibrate
- Limited data to extrapolate information about future losses



Our Understanding



For Swiss Re, cyber risk is still very much an emerging risk despite the fact that the dedicated cyber insurance market is developing rapidly, with an increasing number of insurers looking to write more business in this specialty line.

More Thoughts on Industry Impact of Cyber Risk

To increase resilience of society towards cyber, a united front is required.



The Insured

To increase cyber resilience, the insured need to share all data that helps assess their specific risk.



Professional associations

Professional associations (or government) shall set-up risk-adequate and principle-based minimal IT security and protection standards and define who and how to enforce them.



(Re)-Insurers

To provide not only capital and adequate risk transfer products, but also services that help insureds prevent and/or manage cyber-attacks.



International Organizations and Public Partners

Swiss Re is working with international organizations and public partners to develop a workable data sharing concept.



Government

To raise general awareness, set the right legal framework to establish protocols for capturing and disseminating risk relevant data.

Government back-stop financing may ultimately become necessary for accumulating cyber scenarios that are too great to be absorbed by the private re-/insurance market, and/or events with a terrorism- and war-like character.

Your contact:

Synpulse Schweiz AG
Management Consulting
Thurgauerstrasse 32
8050 Zurich
Switzerland

Phone: +41 44 802 2000
Mail: info@synpulse.com



Switzerland

Zurich (Headquarters)
Geneva

Germany

Dusseldorf
Frankfurt
Ulm

United Kingdom

London

Singapore

Singapore

Hong Kong

Hong Kong

USA

New York

info@synpulse.com
synpulse.com





Your contact:

Swiss Re Management Ltd
Mythenquai 50/60
8022 Zurich
Switzerland

Phone +41 43 285 7171
E-mail: Media_Relations@swissre.com

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