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### Evolving in a Dynamic Risk Ecosystem

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### Evolving in a Dynamic Risk Ecosystem



- Purpose (enabler, provider of solutions and influencer of societal changes)
- Recognized?
- Disrupted?
- Contested?
- InsurTech
- Transformer or Disruptor
- What the industry is working on





- Case Study
- An InsurTech Underwriting application

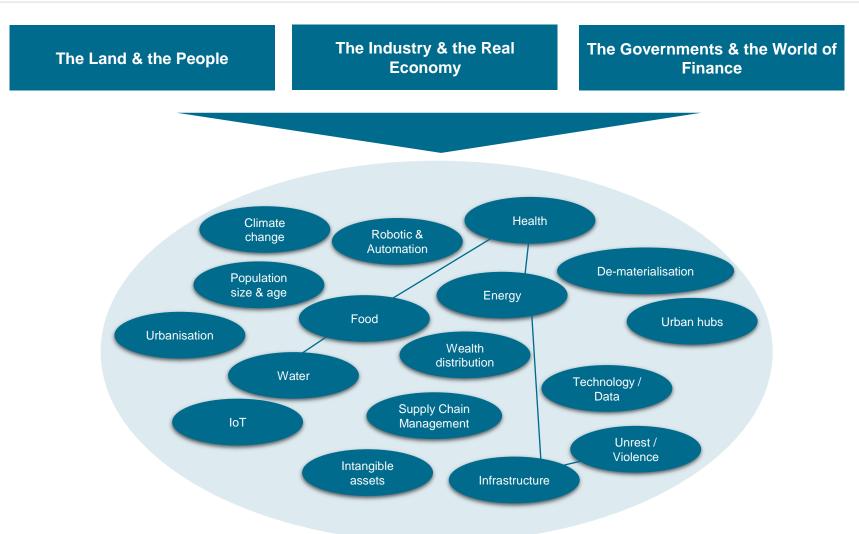


# The UN 17 Sustainable Development Goals and 10 Principles offer a useful overview of the challenges in front of the 3 global drivers



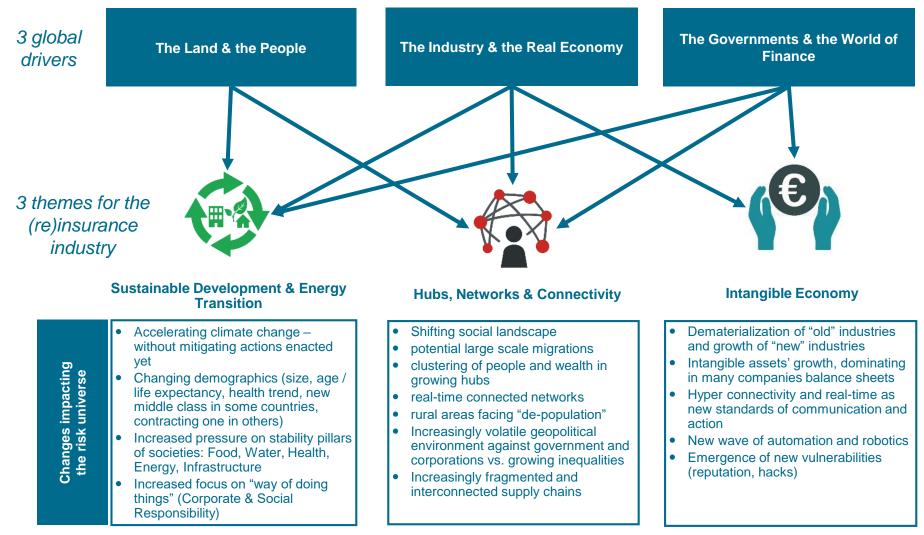


# Risk is our raw material, and these 3 global drivers are facing changes and pressures which have direct impacts on the risk universe



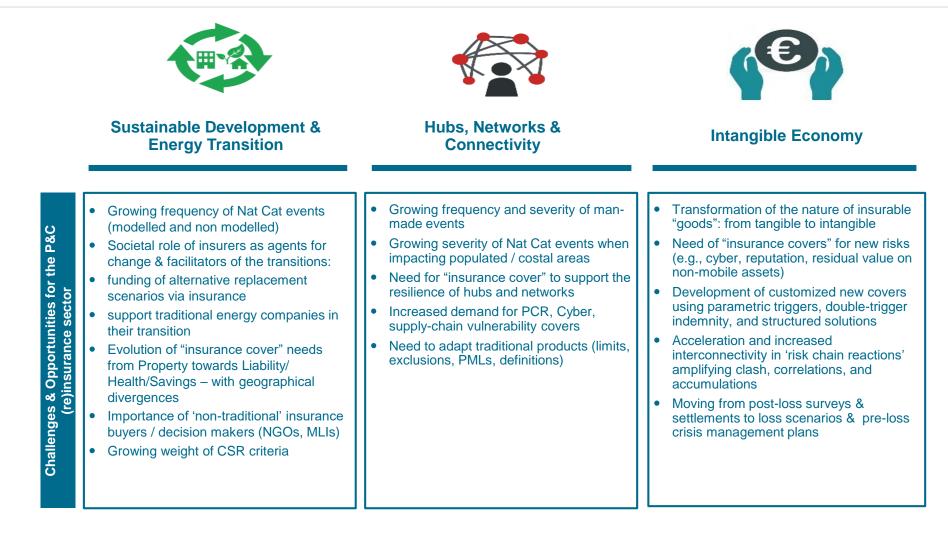


# These changes affecting the 3 global drivers can be synthetized in 3 themes for the (re)insurance industry





## Specific challenges and opportunities for corporates, insurers, and reinsurers arise from each of these 3 themes





## The (re)insurance industry's ability to take up the challenges and seize the opportunities goes with **2 goals and 3 objectives**

*Goal 1* "De-commoditization"

Goal 2 Expand the sphere of insurable / insured risks & Grow penetration rates for insured risks

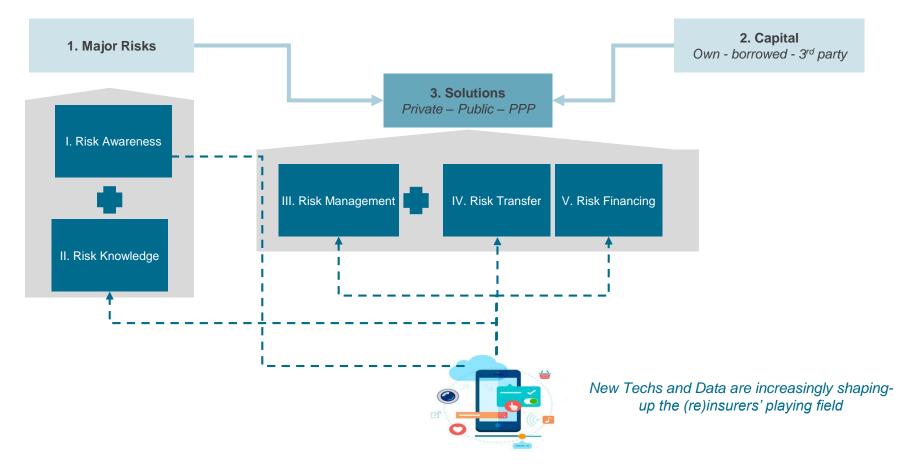
*Objective 1* Be positioned at the <u>centre</u> of the risk solution ecosystem

> *Objective 2* Build and invest in <u>people</u>

*Objective 3* Transact business in the most <u>efficient</u> way



(Re)Insurers must aim at being at the centre of the risk solution ecosystem, to act as federators and be "project managers" for the research, development, and successful implementation of long term solutions

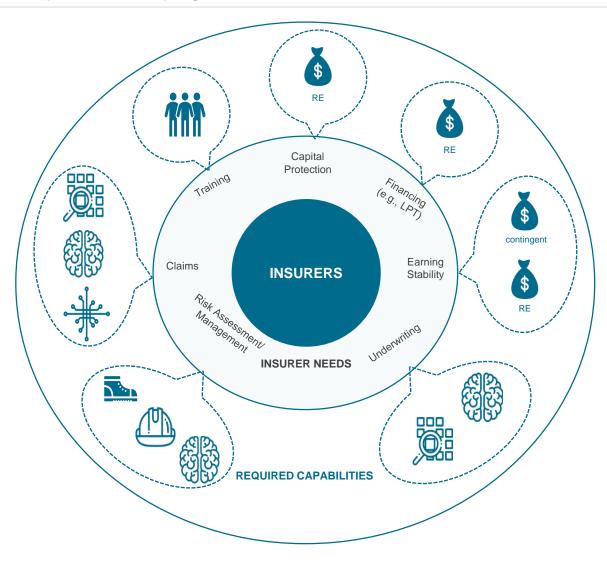


Market participants must either be the best at a single function within the system, or preferably be multi-functional and influential across the entire system



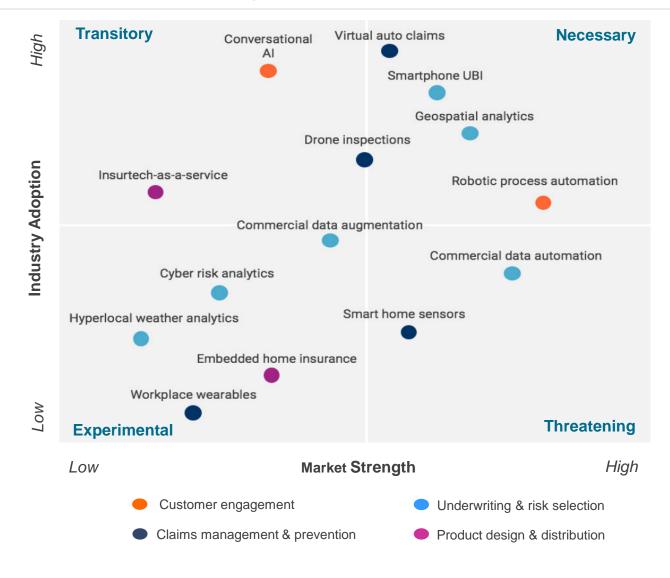


Insurers' needs from reinsurers are expanding beyond traditional products to cover profitability, solvency, growth, and services



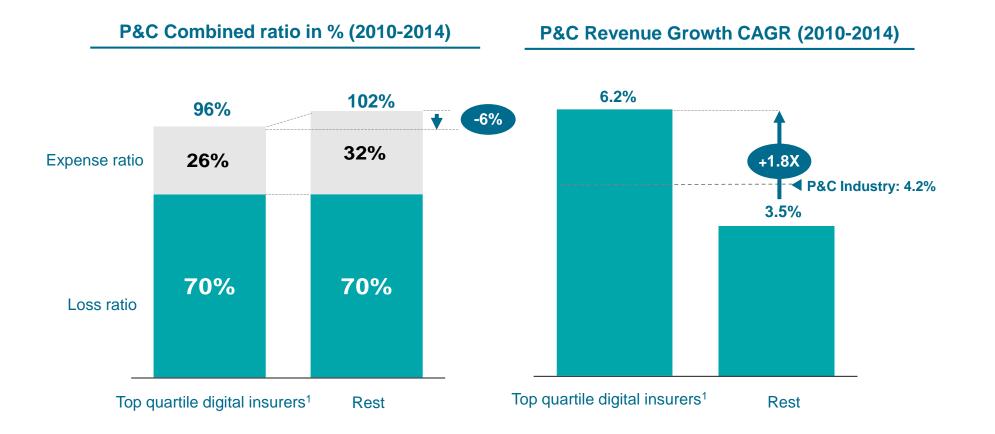


#### P&C InsurTech - what the industry is working on





# A successful digital strategy for incumbents reduces expenses to enable faster growth







### Case study: Marine Treaty team is using Windward to better understand marine risk WINDWARD°



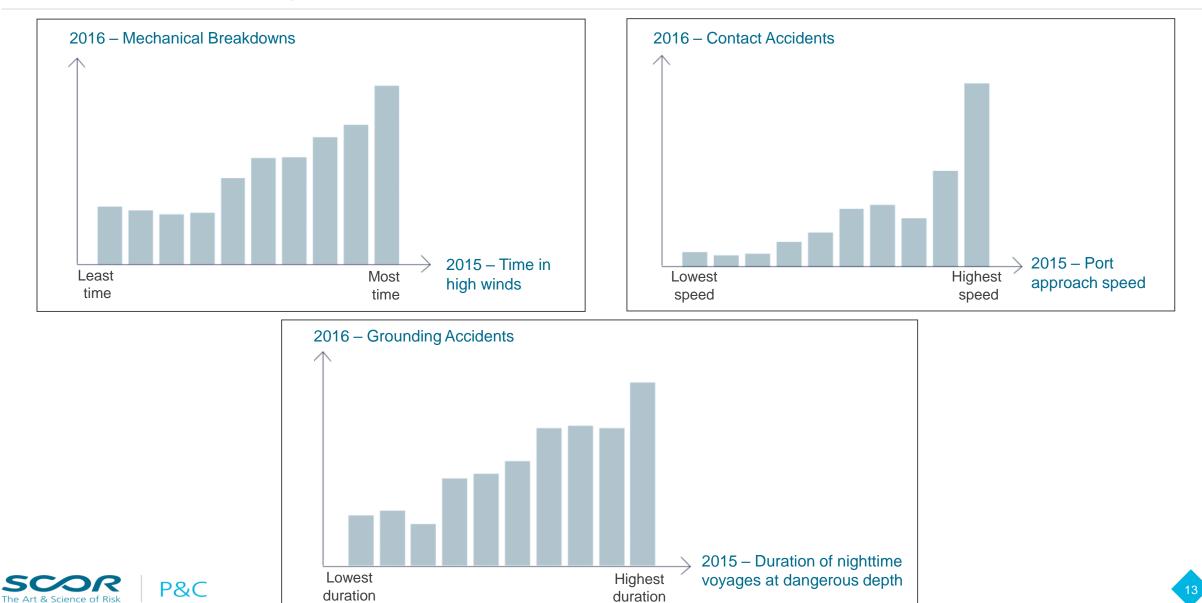
- Windward's machine learning models use vessel operating patterns to apply a risk rating to ships / fleets, measuring the likelihood of a vessel having an accident in the year ahead and supporting risk selection decisions in real-time
- Use cases include claims analysis, pricing model augmentation, evaluating new business, and predicting the risk of fleets to maximize portfolio strategy





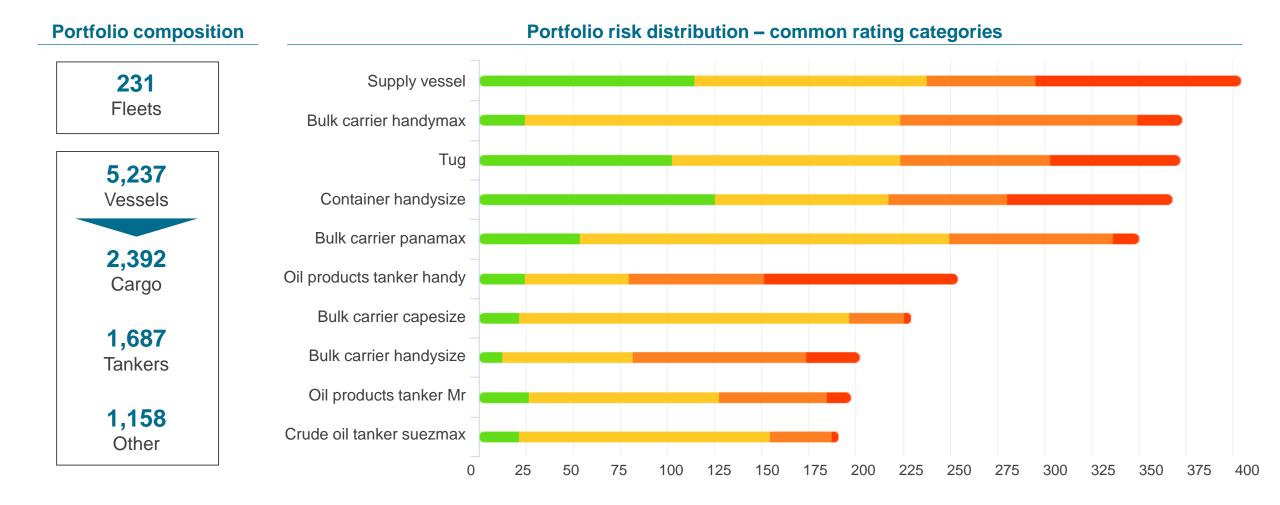
### Certain behaviors are highly predictive of marine losses

WINDWARD°



P&C

 $WINDWARD^{\,\circ}$ 



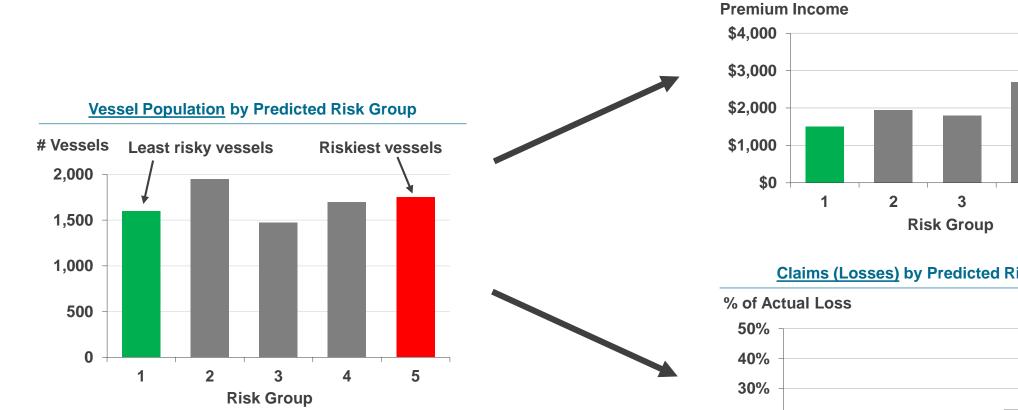


### Within our portfolio, riskier ships have higher premium and losses, but "group 5" is a problem

#### WINDWARD°

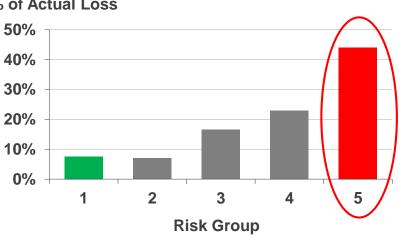
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**Premium by Predicted Risk Group** 





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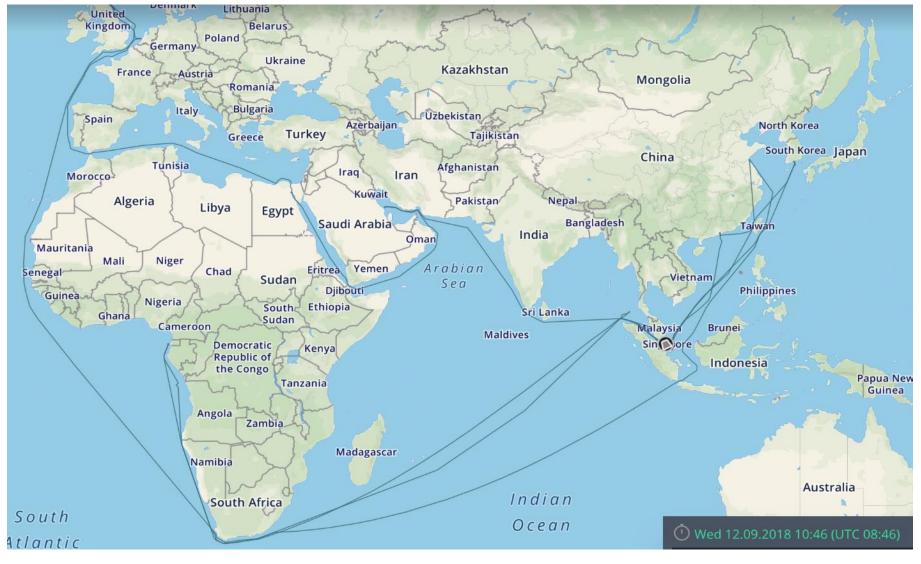
#### $WINDWARD^\circ$





#### 2017: Wu Yi San has a normal trading route

#### $W \, \mathsf{I} \, \mathsf{N} \, \mathsf{D} \, \mathsf{W} \, \mathsf{A} \, \mathsf{R} \, \mathsf{D}^{\,\circ}$





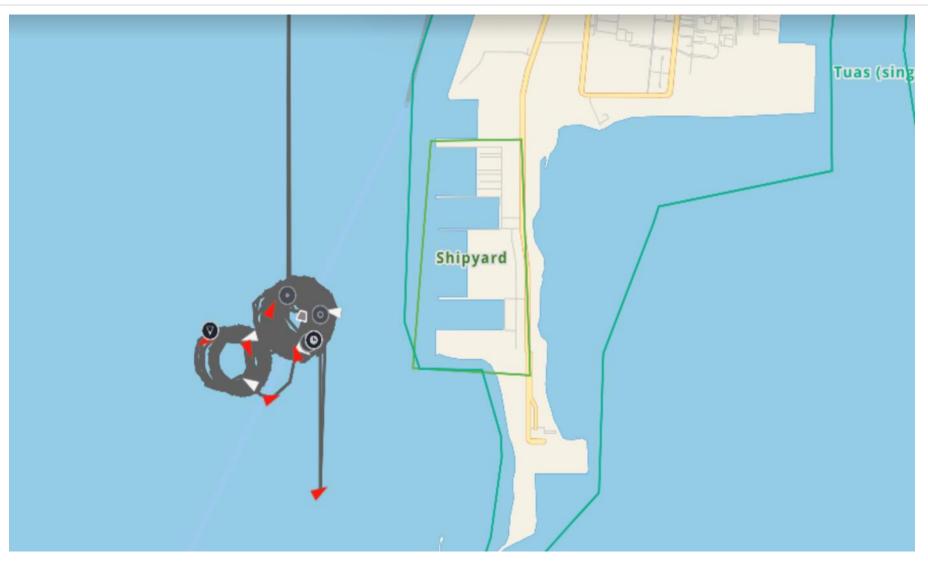
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- Spent half the time in Singapore, half in Malaysia
- No port calls
- Not laid-up
- Engines nearly always on
- Average speed ~0 knots
- 121 ship-to-ship transfers



### 2018: Doing donuts off the coast of Singapore?

#### WINDWARD $^\circ$







### Wu Yi San has a lot of friends

#### $WINDWARD^\circ$







• Better conversations about the risk

WINDWARD<sup>°</sup>

- Price the risk more accurately
  - Collision
  - Grounding
  - Breakdown
  - Liability
  - Weather exposures
- More efficient claims handing
- Better portfolio management
- **<u>BUT</u>** the model won't make the decision for you

