



2019 Silicon Valley Risk Technology Forum

March 5-6, 2019

PLUG AND PLAY TECH CENTER
SUNNYVALE, CA



Insurance 5G

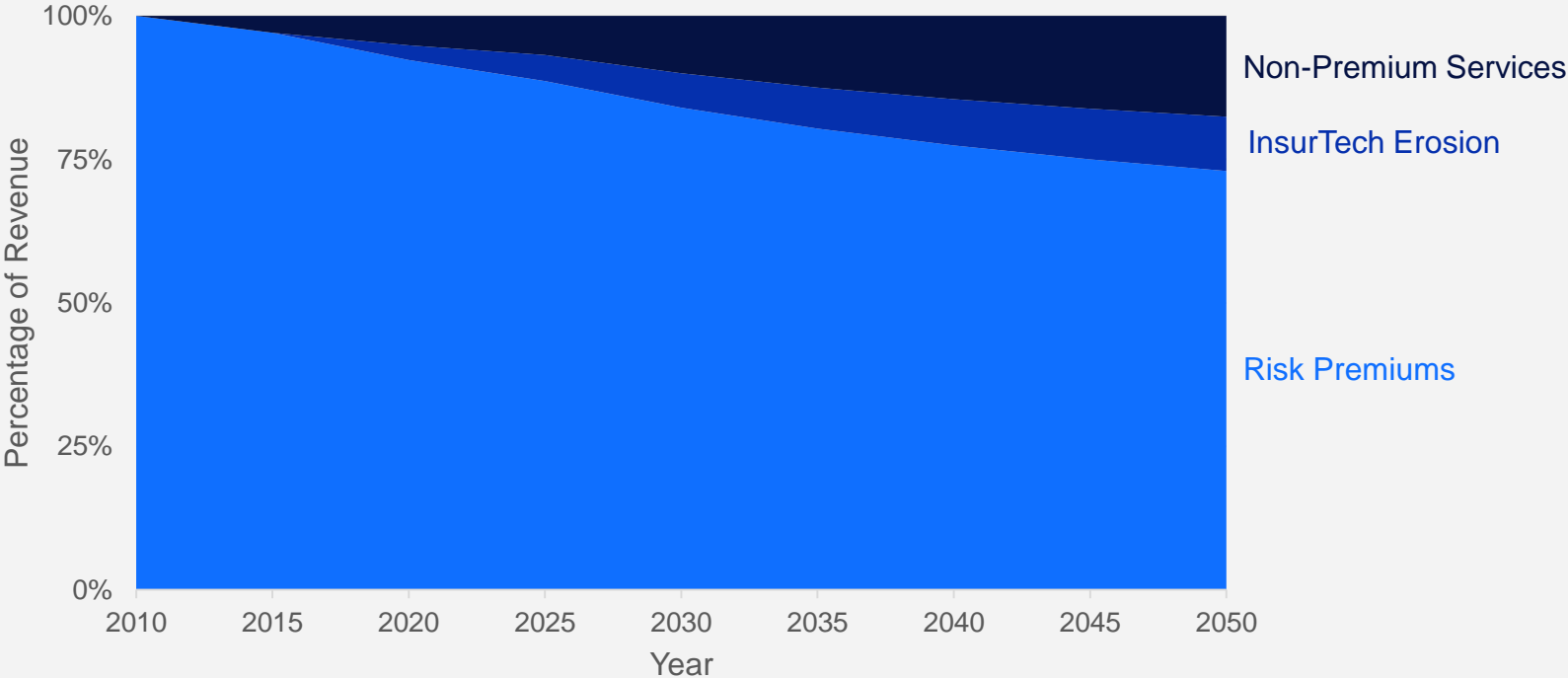
**The cognitive transformation
is just beginning**

Jon Walheim

US Insurance Industry Lead Partner, IBM Global Business Services

... as insurer revenue shifts from risk premium to services ...

Illustrative Revenue Mix Outlook for Insurance Ecosystem



... requires transformation of the traditional paradigm of insurance.

Instrumentation

“Insurers as experienced risk mitigators”

Pay claims and benefits after a loss

Proactively prevent losses

Interconnectedness

“Insurance as a Service”

Sell a policy at fixed term and premium

Proactively cover at a point of risk

Intelligence

“Insurance as experienced risk planners”

“Insurance is sold, not bought”

Add value to insured through strong advice

BUILDING BLOCK 1

Data is the next natural resource

How can insurers
assess, price, and
manage risk within
the context of data
ubiquity?

Data is transforming every industry, profession and domain.

102,000,000

wearables shipped in 2016, growing to 237,000,000 by 2021

100,000

new cancer articles published every year

80,000,000

MRIs taken every year, up from 3,000,000 in 1980

2,200,000,000

locations generating hyperlocal weather forecasts across the globe every 15 minutes

2,581,586

emails every second

10,000

new software vulnerabilities recorded in 2016, up 30% since 2011

600,000,000

forms of malware - with close to 400k variations introduced daily

500

hours of video uploaded to YouTube every minute

Nature and volume of data continue to evolve ...

Data you possess



- Customer records
- Transactional systems
- Predictive models
- Institutional expertise
- Operational systems

Data outside your firewall



- News
- Events
- Social media
- Weather
- Geospatial information

Data that's coming

- Internet of Things (IoT)
- Sensory data
- Images
- Video
- "Data in motion"

Structured and active

Expose potential of current data stores

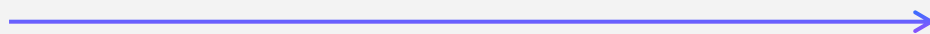
Derive value from public data and licensed private data

Unstructured and dark

Rethink data management for new data types and sources

... and can enable better decision making throughout the insurance value chain as capabilities shift from automation to insights.

Automating the World



Understanding the World

Engaging Users



- Voice Technology
- Visual Recognition
- Virtual Reality
- Augmented Reality
- Wearables
- Embodied Cognition

Data in Motion



- Public Data
- 3rd Party Data
- Weather Data
- Corporate Data
- Drones/IoT

Applying Analytics



- Personalized
- Machine Learning
- Predictive
- Probabilistic
- Trained
- Reinforced

Generating Insight



- Life Event Detection
- Behavior Based Insight
- Operational Efficiencies
- Fraud
- Risk

Driving Actions



- Marketing
- Training
- Notifications
- Real-time Assistance
- Coaching

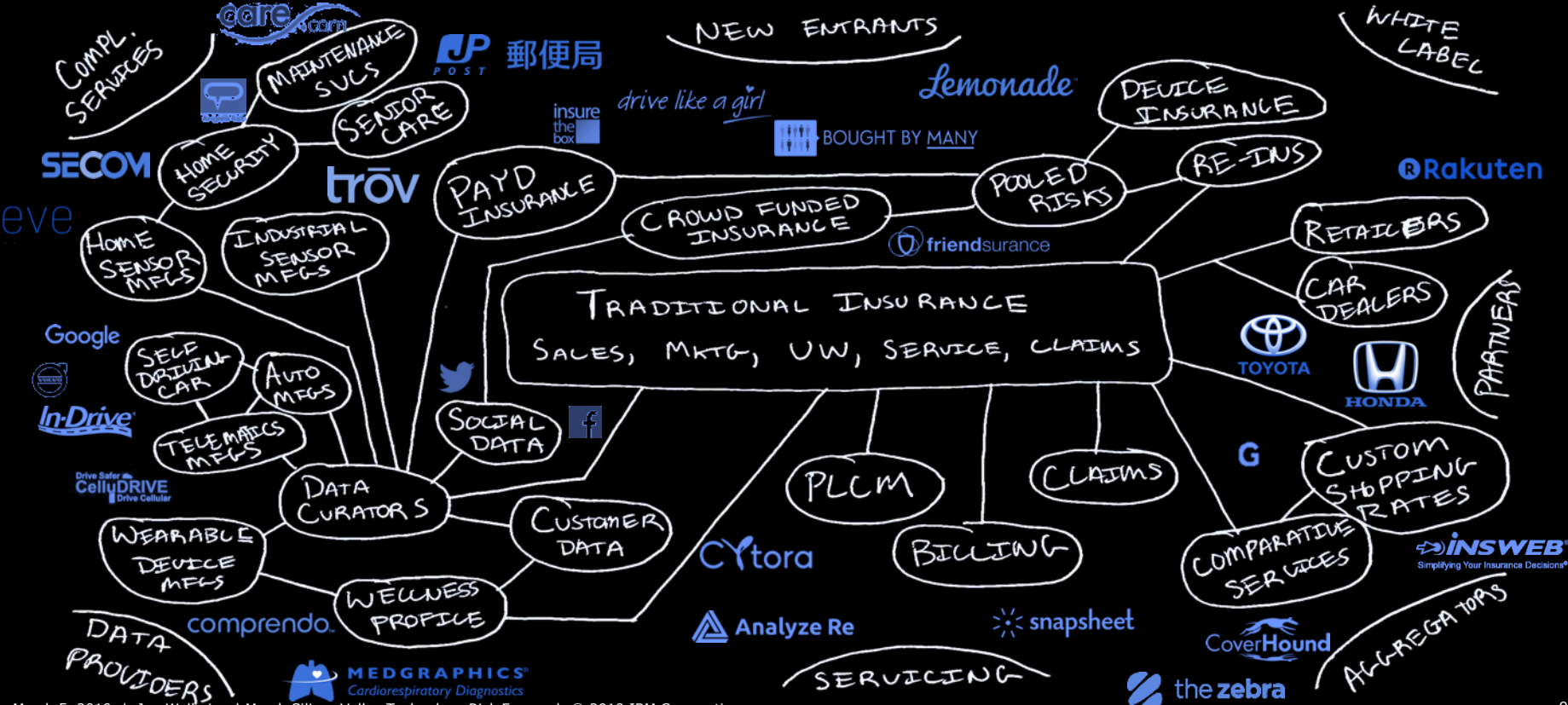


BUILDING BLOCK 2

**Digital
ecosystems
are rapidly
forming
around us**

How can insurers
become relevant
in these new
ecosystems?

Ecosystems are emerging around us with non-traditional partners and competitors ... the key is to gain relevance for our customers.



BUILDING BLOCK 3

Engagement defines your brand

How can insurers
engage to create
a differentiated
brand?

Customers want to be known and understood as an individual ... every interaction is an opportunity to build your brand



THE IMPLICATIONS AND OPPORTUNITY FOR INSURERS

Unprecedented technological, social and regulatory disruption is giving rise to the next era of business reinvention—with business platforms at its heart

Outside-in

Demand for Digital Reinvention™

Changing customer expectations

Pervasive interconnectivity

Business platforms

Inside-out

New outcomes from data possible with:

Automation

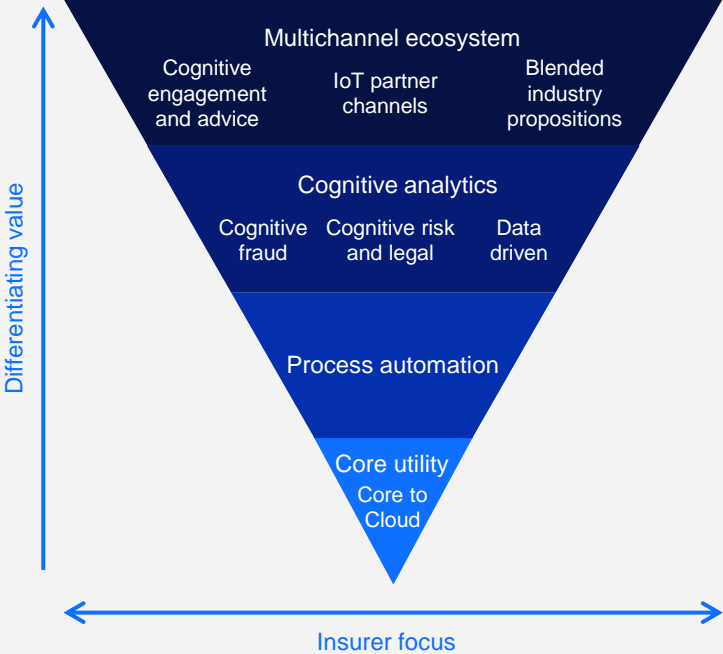
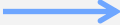
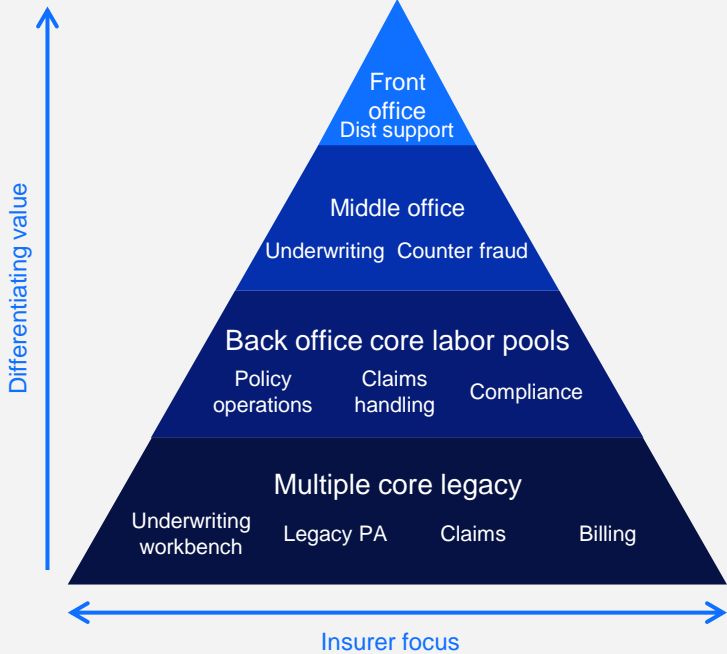
Blockchain

Artificial Intelligence

Insurers need to establish new business models to enable new capabilities and revenue sources...

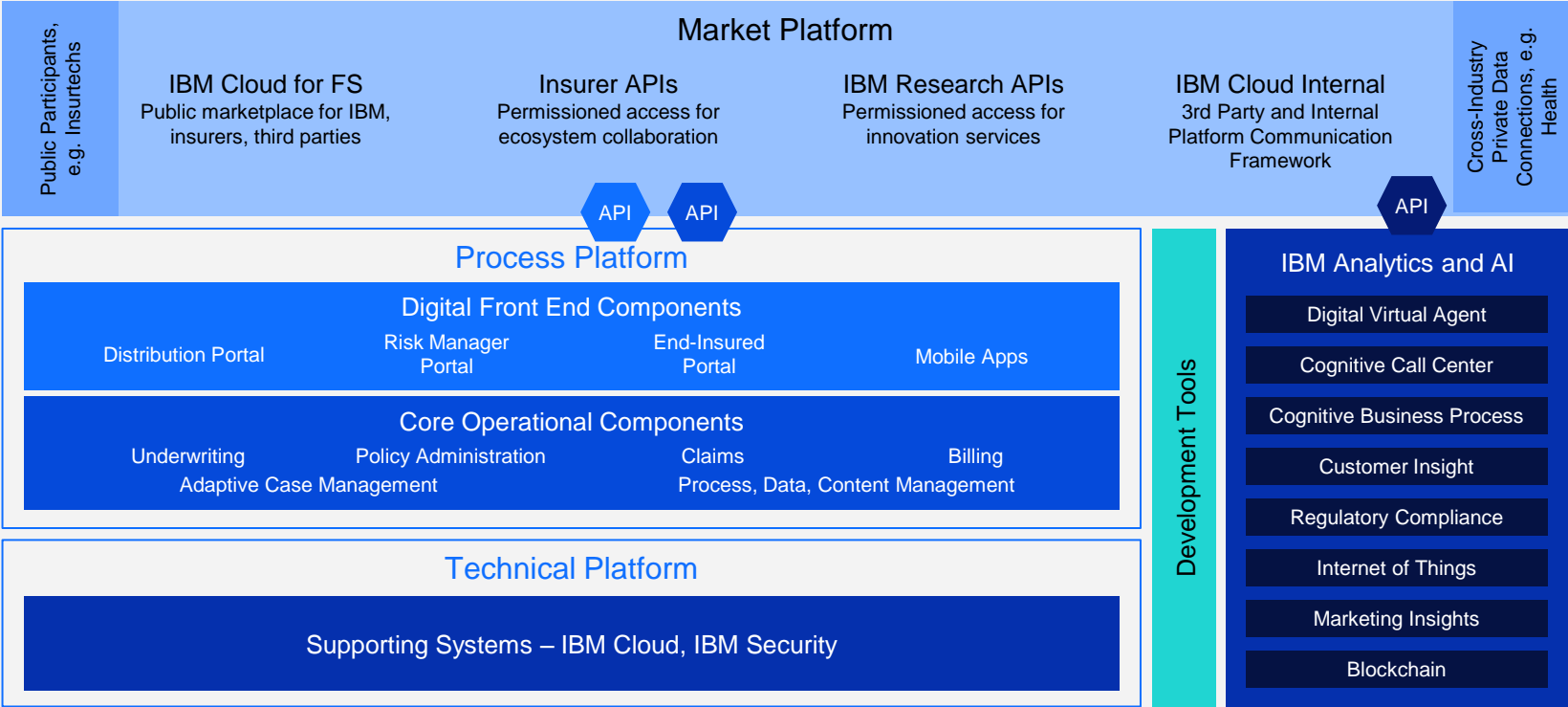


... while focusing on differentiating front office factors, relying on ecosystems and cognitive, and less on back office



Case studies

Case Study 1: Insurance-as-a-Service with the IBM Insurance Platform... IBM has two public platform instances underway in North America for Group Benefits and Europe for Closed Book Life



Case Study 2: “Aging in Place” is another opportunity to serve policyholders in a non-traditional way.

Generation 50+

62%

wish to live in their own homes

84%

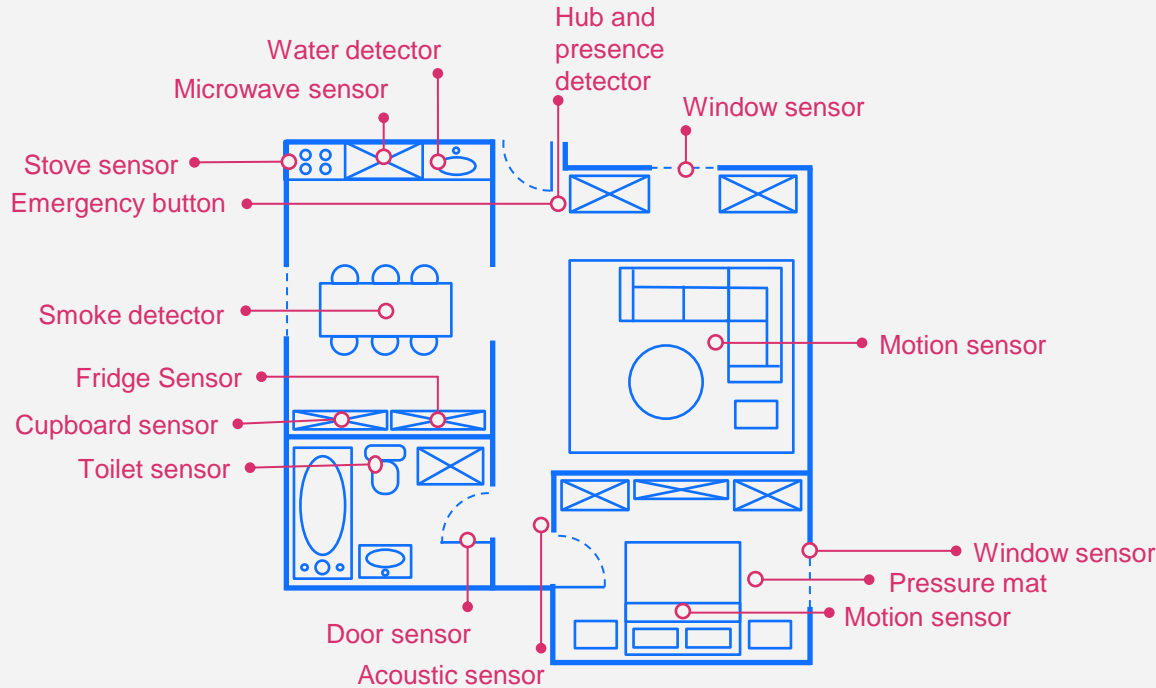
wish to have age-based techniques e.g. emergency call or technical communication with doctors, nurses, etc.

95%

wish to get help and care at home



Case Study 3: An IoT equipped smart home offers many use cases for elderly care, which insurers can provide as a value-added service.



Elderly Care Use Cases

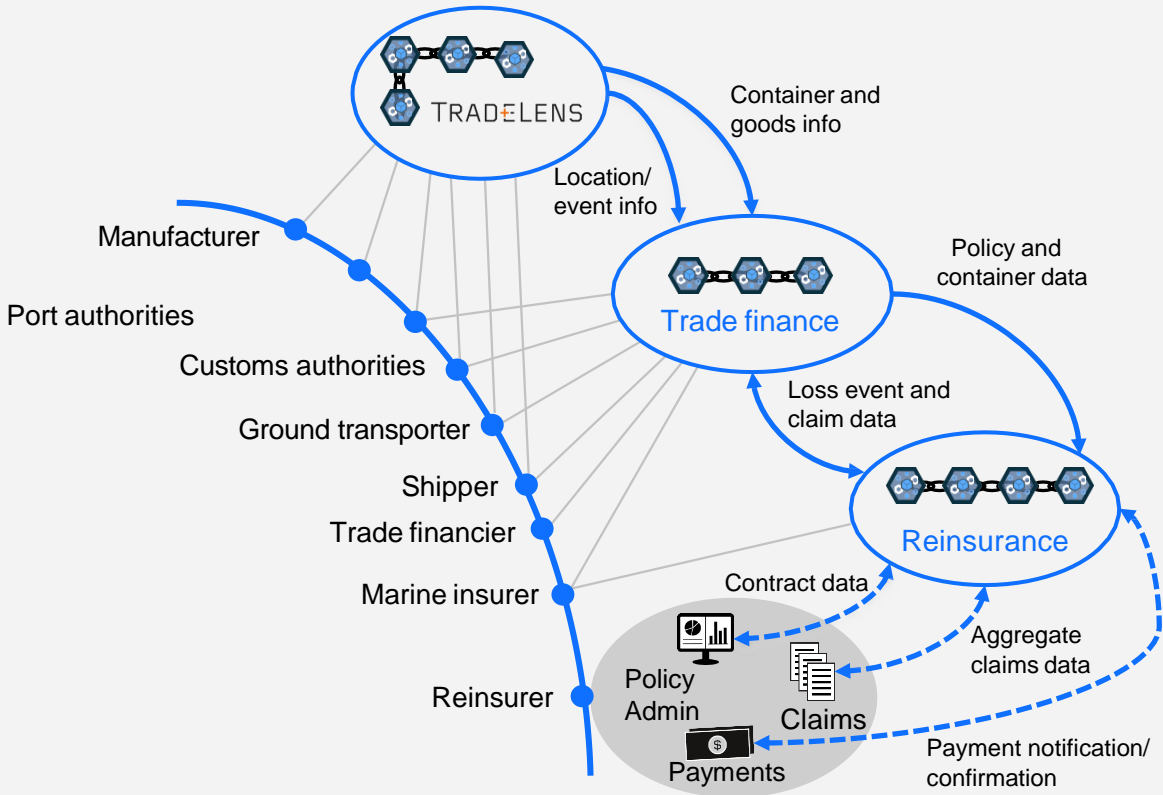
- Fire
- Prevention
- Emergency
- Discharge management
- Chronic Illness
- Accident
- Intrusion/theft

Case Study 5: The Netherlands' national bike theft register

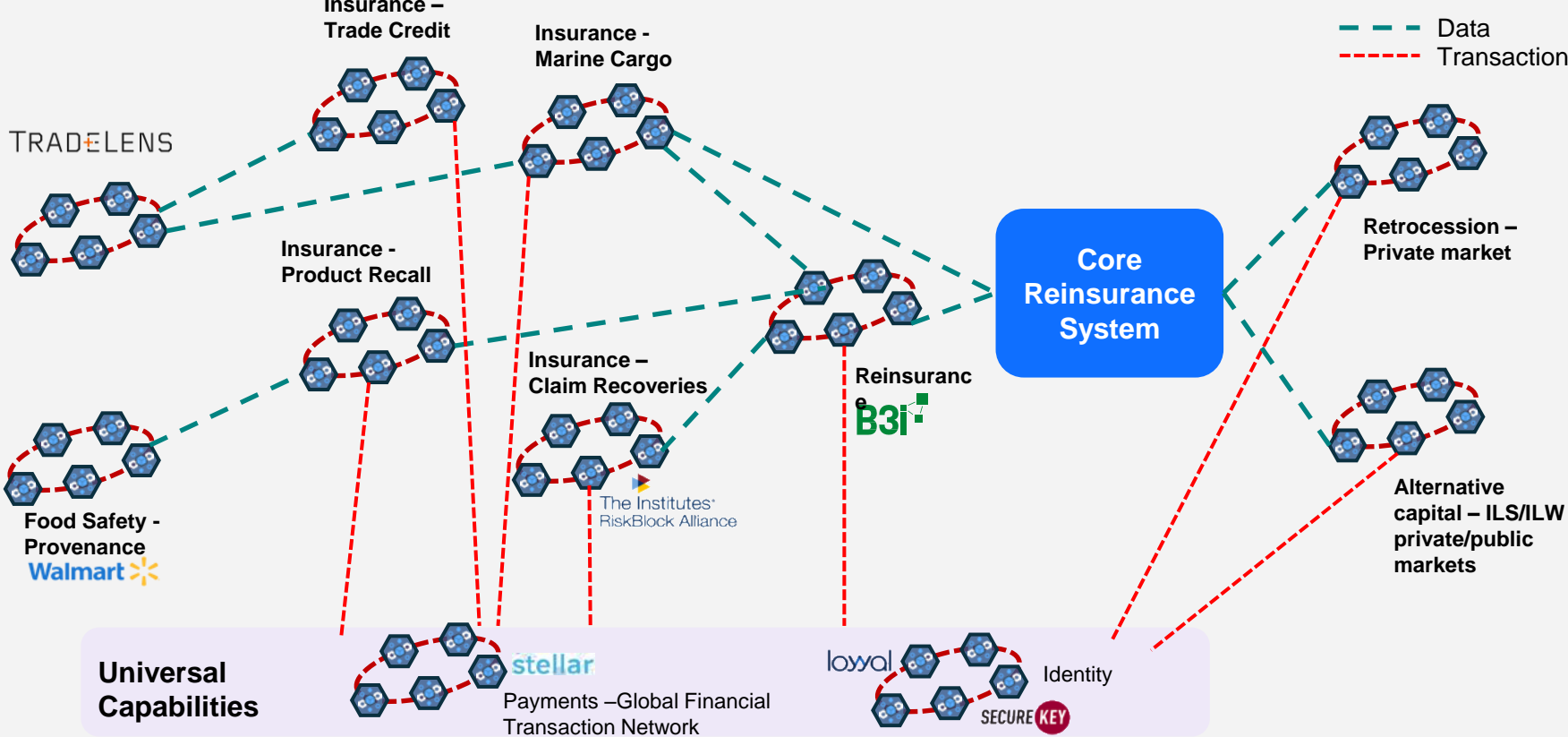


Case Study 6: An international shipping network spurs industrywide innovation...

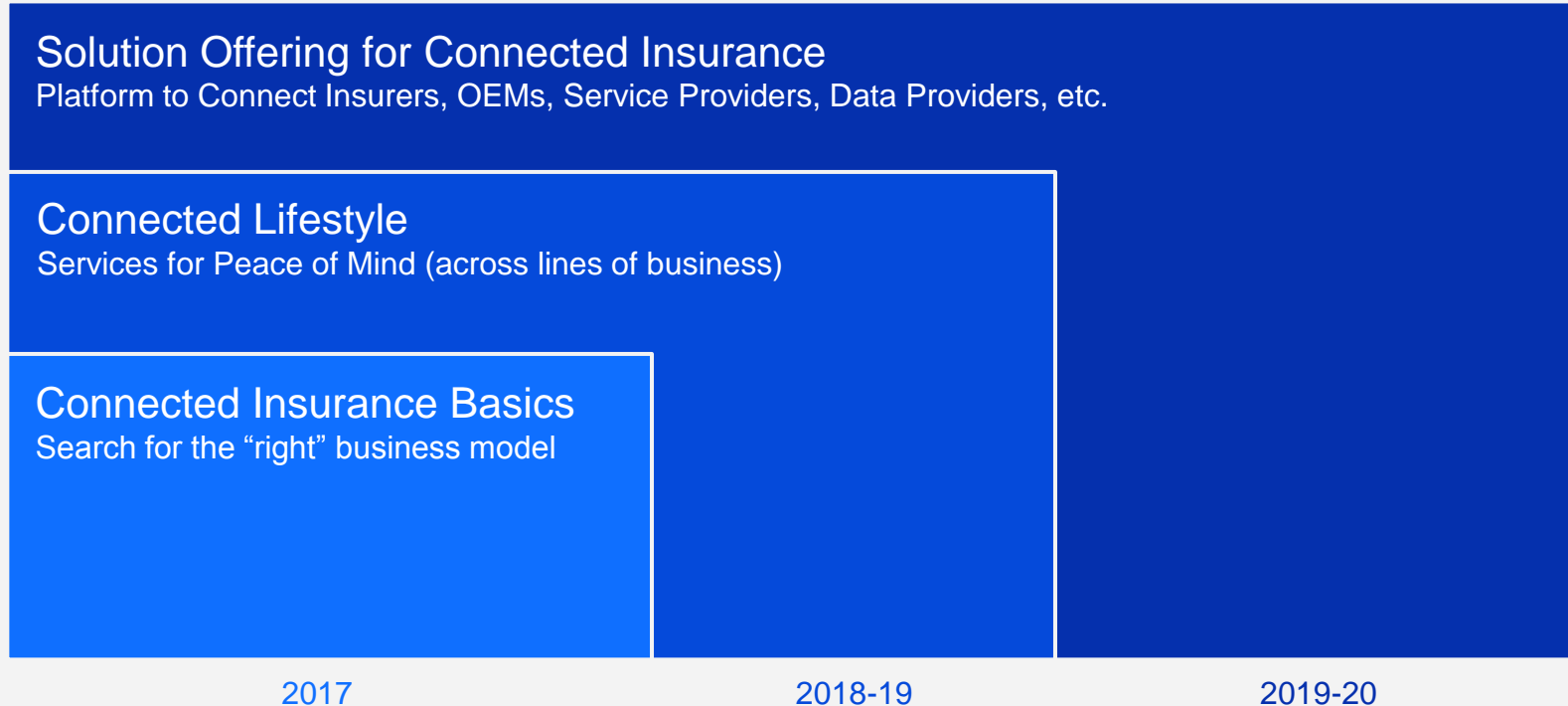
Illustration of network interoperability



Case Study 6: ... and requires new ways of thinking about the world.



Case Study 7: European insurer plans to monetize data by establishing an “analytics as a service” industry platform.



Case Study 8: Building blocks for a cybersecurity insurance platform

IBM Security Services – Commercial Model Options

Carrier or Broker Bundle

Carrier includes selected IBM Security offerings as embedded elements in their cyber insurance products.

For example:

- Employee Cyber Awareness Web based training
- X-Force Threat Assessment Service
- X-Force Incident Response
- Vulnerability Scans
- Security Log Analysis

Carrier or Broker Upsell

Carrier acts as a channel partner to resell selected security services offerings to help reduce their cost of claims.

For example:

- X-Force Incident Response
- Managed Incident Response
- Security Log Management
- Advanced Threat Assessment

Joint Go-To-Market - We Co-Develop/Co-Sell

Comprehensive partnering with Carrier to jointly bring innovative cyber risk insurance solutions to the market.

For example:

- Carrier or Broker is entering / expanding in the market with IBM helping to develop a bespoke service specific for a large Prospect

Some learnings from our journey ...



It's not about a "Digital Strategy"



Operational agility is critical



User experience is key



You don't need to own everything



Digital eco-systems are forming all around us



Execute with speed



Focus is important ... what is going to move the needle in your business?



Think big, start small, scale quickly



MARSH