How to combine innovation, digitization and security?

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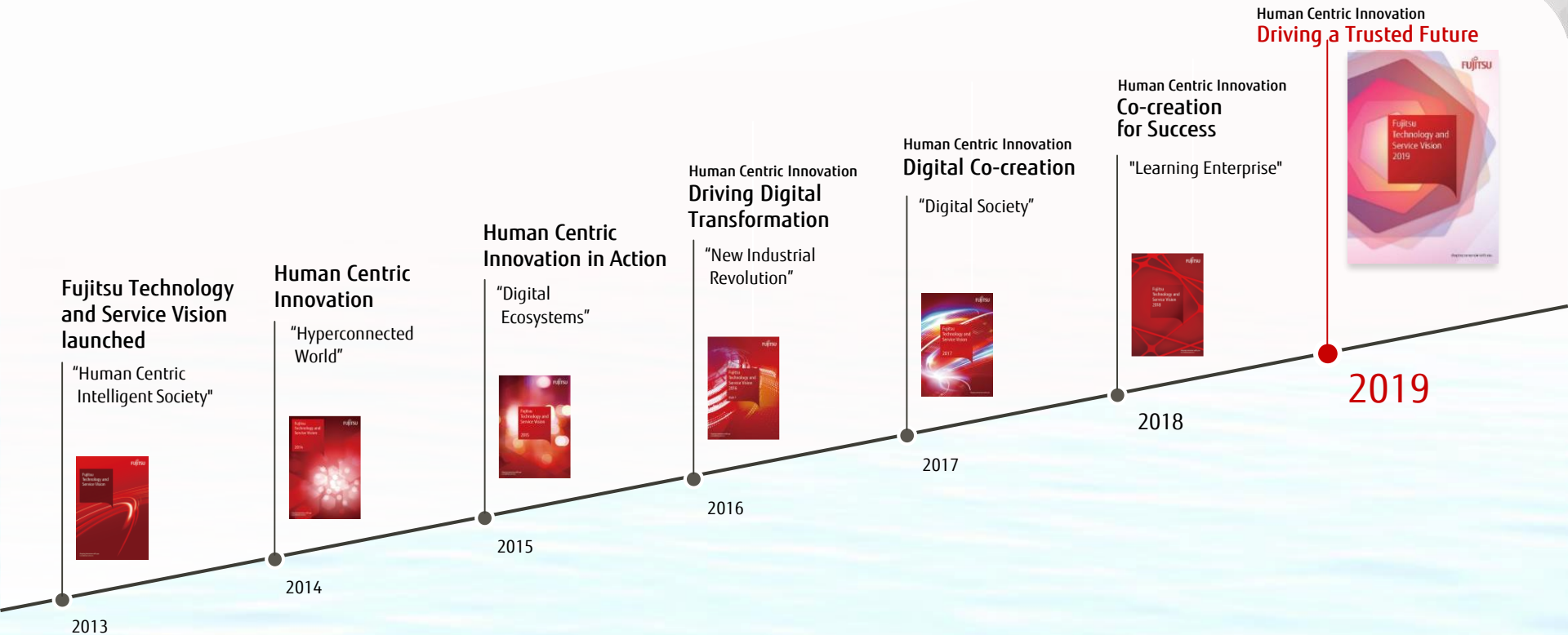
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Van Oord
Marine ingenuity

Welcome

Bas de Reus | Managing Director Fujitsu Netherlands

Agenda

13:45 | Welcome – Bas de Reus

14:00 | Strategy and data driven continuous improvement – Ronald Renes

14:45 | Short break

15:00 | Protecting our data and business around the world – Edwin Franse

15:30 | Interactive workshop based on outcomes from survey

16:00 | Networking whilst enjoying the World Port Days during a boat trip

18:00 | Closing

Driving a Trusting Future

Human Centric Innovation
Driving a Trusted Future

Human Centric Innovation
**Co-creation
for Success**

"Learning Enterprise"

Human Centric Innovation
Digital Co-creation

"Digital Society"

Human Centric Innovation
**Driving Digital
Transformation**

"New Industrial
Revolution"

**Human Centric
Innovation in Action**

"Digital
Ecosystems"

**Human Centric
Innovation**

"Hyperconnected
World"

**Fujitsu Technology
and Service Vision
launched**

"Human Centric
Intelligent Society"

2013

2014

2015

2016

2017

2018

2019

Driving a Trusting Future

Human Centric Innovation

Driving a Trusted Future

- Human Centric vision is becoming increasingly important in shifting to digital society

- Rebuild trust in data, technology and business where trust is proving inadequate or even breaking down

Today's society

Online & Customer Experience

"Port of Rotterdam Authority launches new company PortXchange to make digital shipping app Pronto available to ports worldwide"
Port of Rotterdam, Aug. 2019

Smart lifestyle

"Connected workers are going to transform the workplace, here's what you should know"
People Matters Global, March 2019

Innovation

"IMO outlines autonomous ship trial guidelines"
IMO, Riviera, Jul. 2019

Is the data on your side?

- Who does personal data belong to?
- Can we trust information on the web?
- Can we protect information from cyber attacks?

"NotPetya Costs Merck, FedEx, Maersk $800M"
Forbes, Aug. 2017

Paradigm shift of trust

Pre-industrial Era

Trust 1.0
People

Industrial Era
Supply Centric Business

Trust 2.0
Institutions

Digital Era
Human Centric Business

Trust 3.0
Technology

Human Centric Intelligent Society

Strategy and data driven continuous improvement

Ronald Renes | CIO Van Oord

A BETTER WORLD

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Marine ingenuity

Purpose

Our purpose is to create a better world for future generations by delivering marine ingenuity.

Mission

As a global marine contractor, we are specialised in dredging, oil & gas infrastructure and offshore wind. We work closely and safely with our clients and stakeholders to create innovative and sustainable solutions.

Values

We create   We care   We work together   We succeed

Strategy

From asset to knowledge

Dredging   Netherlands   Offshore Wind   Offshore

The Right People   Sustainability   Vox Data

Van Oord – more than 40 offices worldwide

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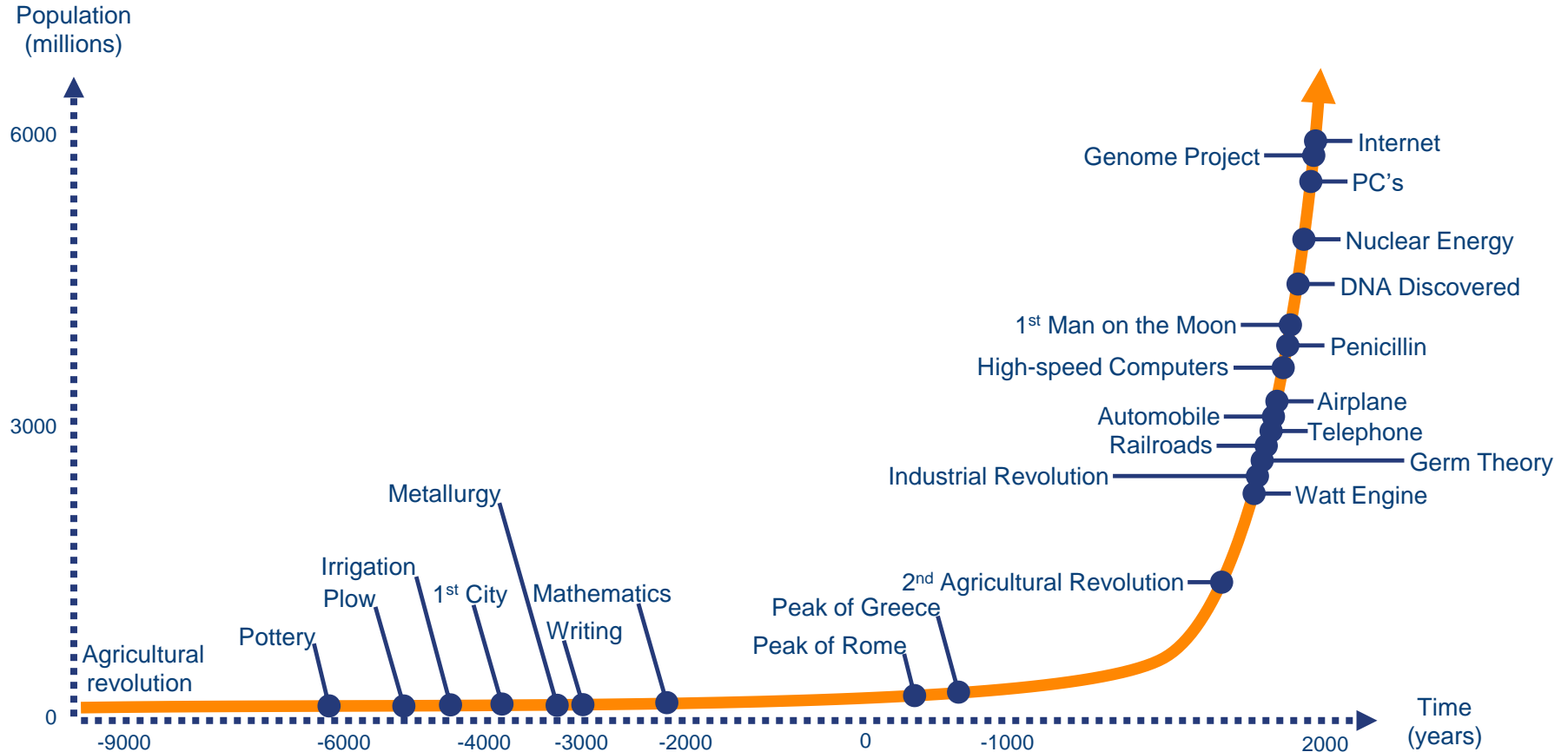
Van Oord - equipment

- We operate the world's most advanced equipment

- State-of-the-art vessels

- Highest quality and safety and sustainable standards

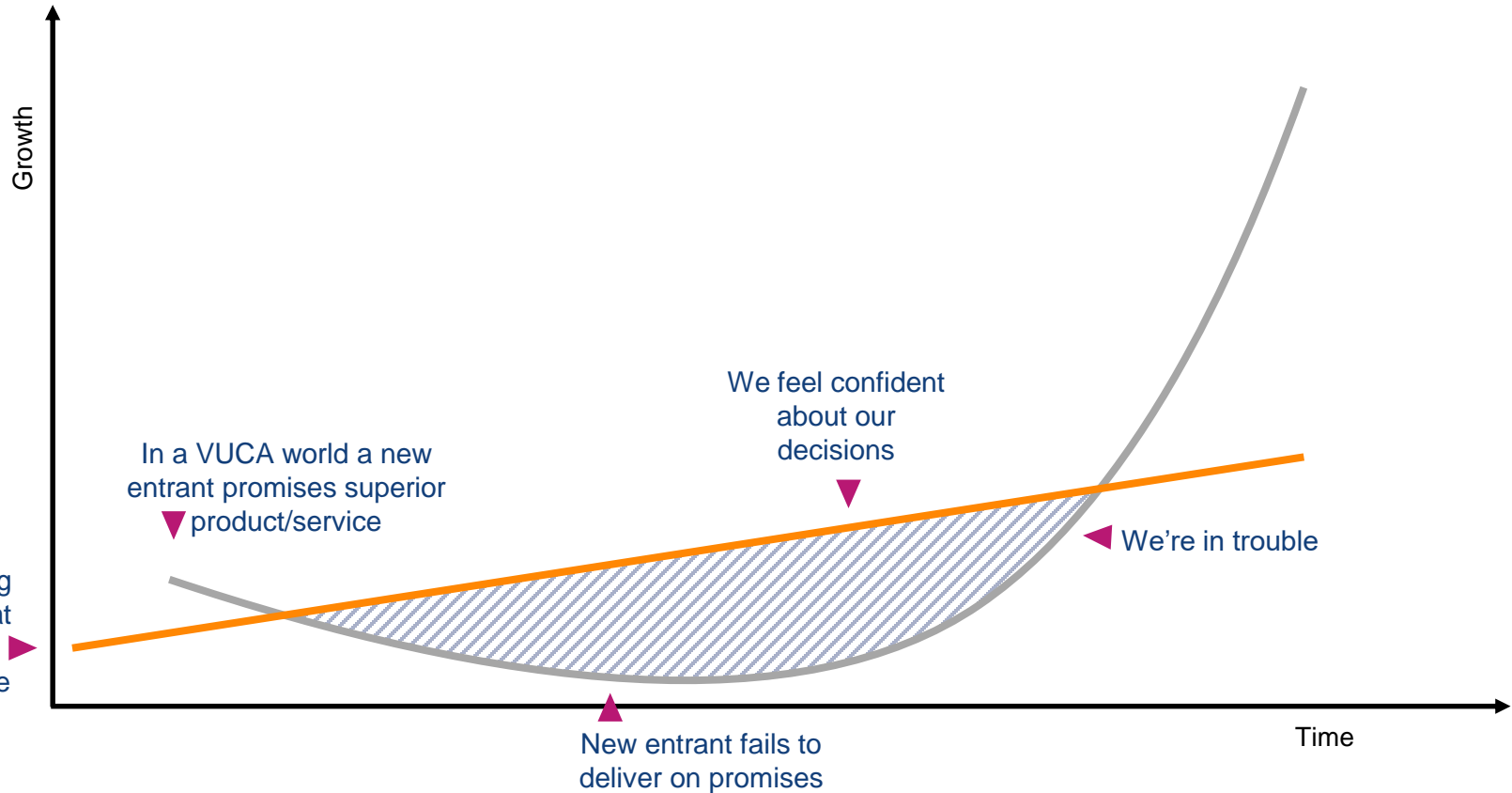- Continuous investment programme

- More than 100 vessels

Digital Transformation

"Digital transformation is the integration of digital technology into all areas of a business, *fundamentally changing how you operate and* deliver value to customers. *It's also a cultural change that requires organizations to* continually challenge the status quo, *experiment, and get comfortable with failure."*

Why?

Growth / Time axes

In a VUCA world a new entrant promises superior product/service

We feel confident about our decisions

Business is doing well; stick to what we know and everything will be fine…

We're in trouble

New entrant fails to deliver on promises

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"…9 out of 10 companies believe digital transformation is now a *requirement for success**, while almost four out of five (79%) say that without further digital transformation, they will be at a competitive disadvantage within three years."*

- Economist

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subsea 7

"transformative technologies are … **challenging our cost base** and setting new standards in reliability, productivity and sustainability."

Rijkswaterstaat
Ministry of Infrastructure and the Environment

"RWS staat, net als de rest van Nederland, aan het **begin van een datarevolutie**"

Ørsted

The ambition is to have **one global implemented digitalized, scalable solution** across both engineering, procurement, construction (EPC) and operations (OPS)

Lifting Global Trade
APM TERMINALS

The digital transformation is not easy, but the **benefits far outweigh the risks and challenges**!

Empowering the people that do the work

exceptional client experience

digital movement

knowledge & experience
+ data
= better decisions

data management

operational excellence

business growth

Data Governance
Establish data ownership, data policies, principles, data organization, reporting, steering on data KPI's

Data Management
Select, develop, implement and operationalize all data management knowledge areas in relation to people, process, technology goals and principles

Landscape Transition
Re-organize application and technology landscape by maximizing use of data in a modern workspace by value creation and innovation

Change Programme
Our knowledge and 150+ years of experience is our strength. In order to further develop the data driven organization, we need to reconsider and build our data habits and digital culture

IT is a business focused partner responsible for the delivery of high quality IT services, where innovation, continuity and security are leading.

Digitalization

High Quality and Useful Data

Applications and Architecture

Information Security

Network- / Operations- and Workplace-Infrastructure

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Trust

Consider scenario's, keep perspective and ...

#CheckYourBias

Thank you

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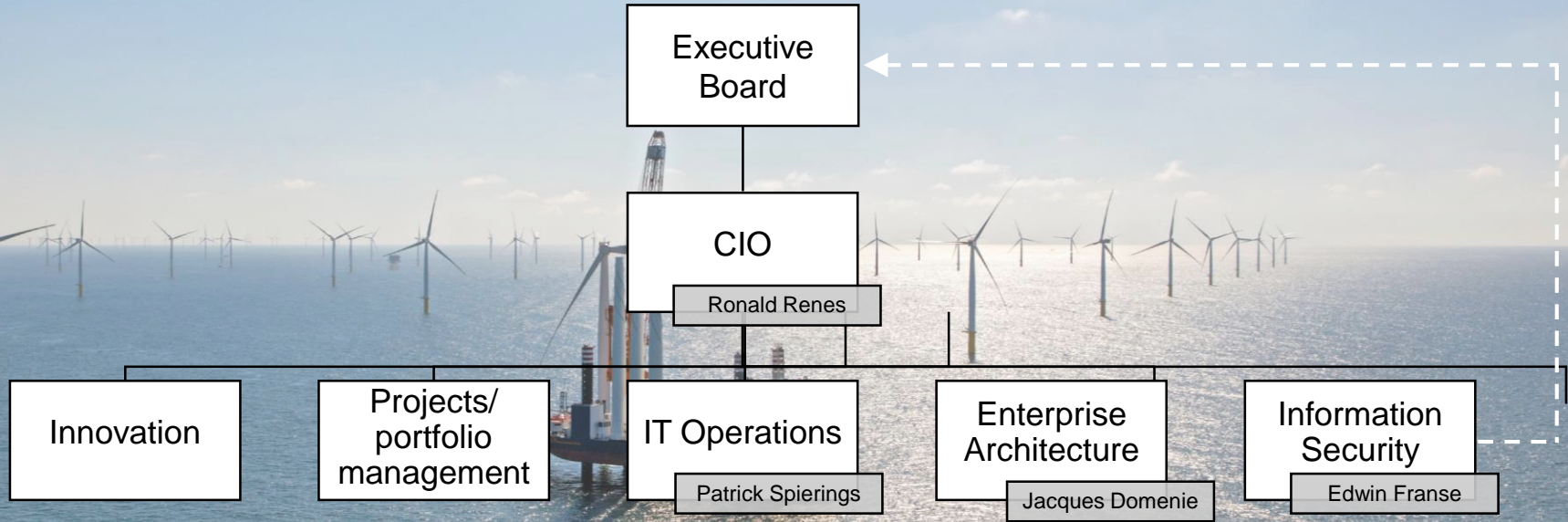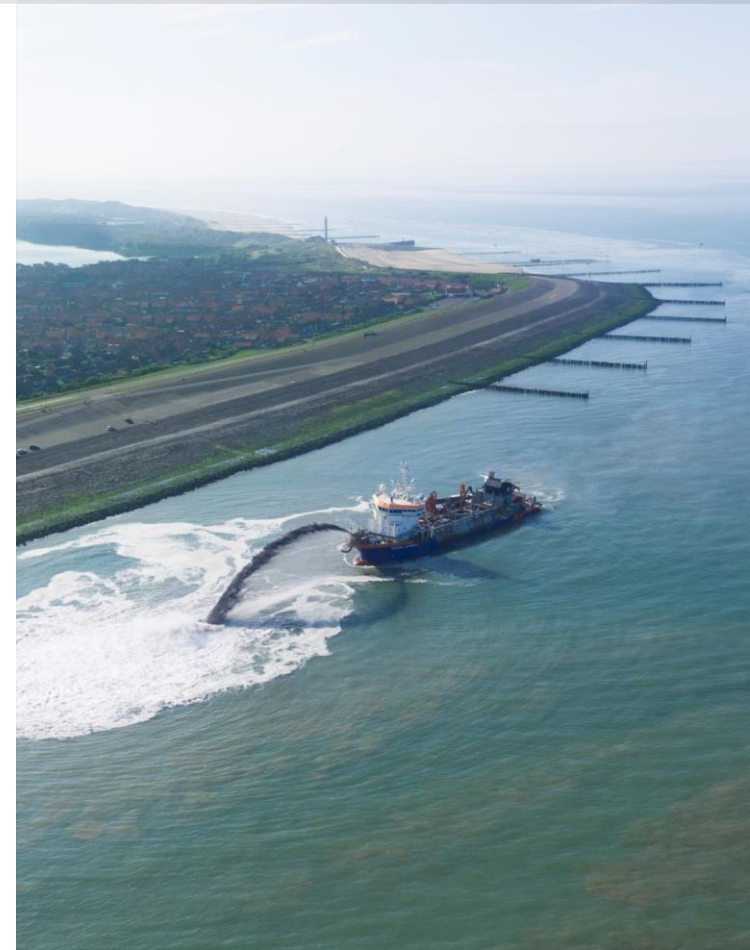FUJITSU
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Short break

See you a 3PM!

Protecting our data and business all around the world

Edwin Franse | IT Security Officer Van Oord

Edwin Franse

- 1994 Bachelor of science in electrical engineering
- 1998 Master of science in technology management
- March 1998 CMG
- April 2006 Dutch Ministry of Defense
- September 2017 Van Oord

Executive Board

CIO
Ronald Renes

Innovation

Projects/ portfolio management

IT Operations
Patrick Spierings

Enterprise Architecture
Jacques Domenie

Information Security
Edwin Franse

Intellectual property theft

Awareness at C-level (competition/ innovation)

2015 ○ CIO

2017 ○ IT Security Officer

2018 ○ GDPR legislation comes into force

2021 ○ Cybersecurity regulations for the maritime industry

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|	Government	Critical	**Private organisations**	Members of the public
Nation-state/ State-sponsored	Espionage	Sabotage	Espionage	Espionage
	Information manipulation	Disruption	System manipulation	
		Espionage		
Criminals	Disruption	Disruption	Disruption	Disruption
	System manipulation	System manipulation	Information manipulation	Information manipulation
	Information theft		Information theft	Information theft
			System manipulation	System manipulation
Terrorists	Sabotage	Sabotage		
Hacktivists	Disruption	Disruption	Disruption	
			Information manipulation	
Cyber vandals and script kiddies	Disruption	Disruption	Disruption	
Insiders	Information theft		Information theft	
Unintentional acts	Breakdown/ failure	Breakdown/ failure	Breakdown/ failure	Leak
	Leak	Leak	Leak	

My initial findings

- Insufficient process oriented

- In essence, good tooling - configuration and coherence are missing

- Variety of maturity levels per department

- IT foundation is lacking: no standards, no methodology, no roadmaps

- Speed of organisational changes

- Great people with great responsibility

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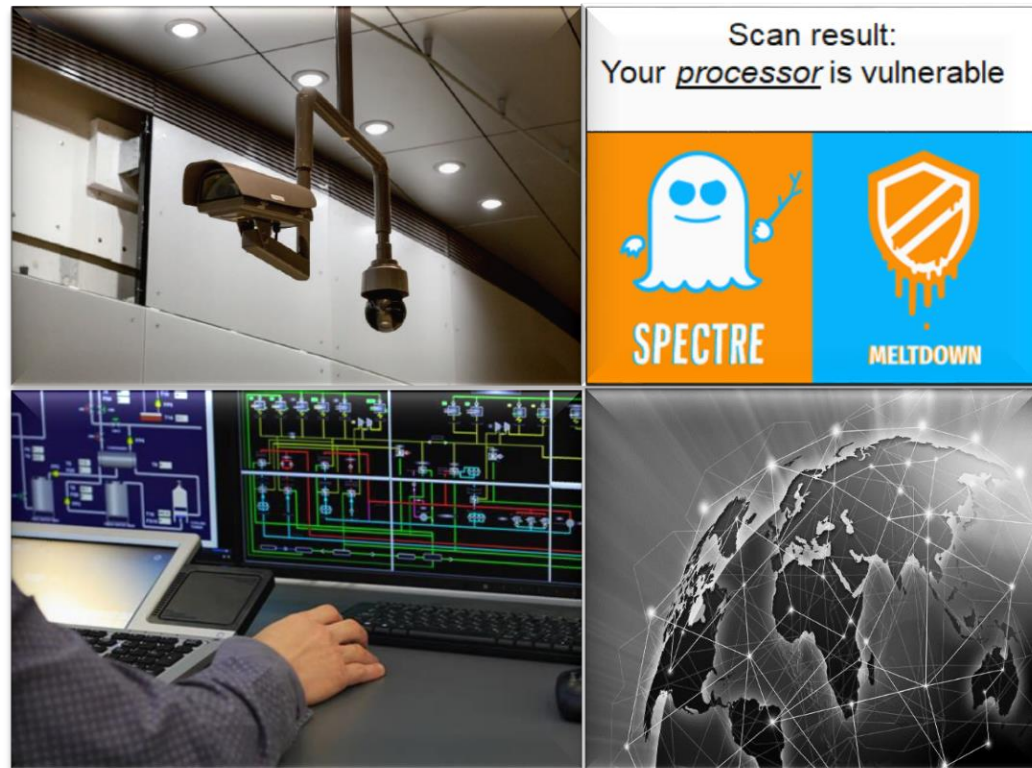
- Security should make sense
- Security must make it easy – insecure should be harder

Security needs to *enable* and *deliver value*

- Security is not an outcome – it is a capability

- Awareness should motivate – not punish
- Must never be an excuse. Not "I told you so"
- Awareness is necessary compensating IT

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CIS Controls™

V7.1

Basic

1 Inventory and Control of Hardware Assets

2 Inventory and Control of Software Assets

3 Continuous Vulnerability Management

4 Controlled Use of Administrative Privileges

5 Secure Configuration for Hardware and Software on Mobile Devices, Laptops, Workstations and Servers

6 Maintenance, Monitoring and Analysis of Audit Logs

Foundational

7 Email and Web Browser Protections

8 Malware Defenses

9 Limitation and Control of Network Ports, Protocols, and Services

10 Data Recovery Capabilities

12 Boundary Defense

13 Data Protection

14 Controlled Access Based on the Need to Know

15 Wireless Access Control

Organizational

17 Implement a Security Awareness and Training Program

18 Application Software Security

19 Incident Response and Management
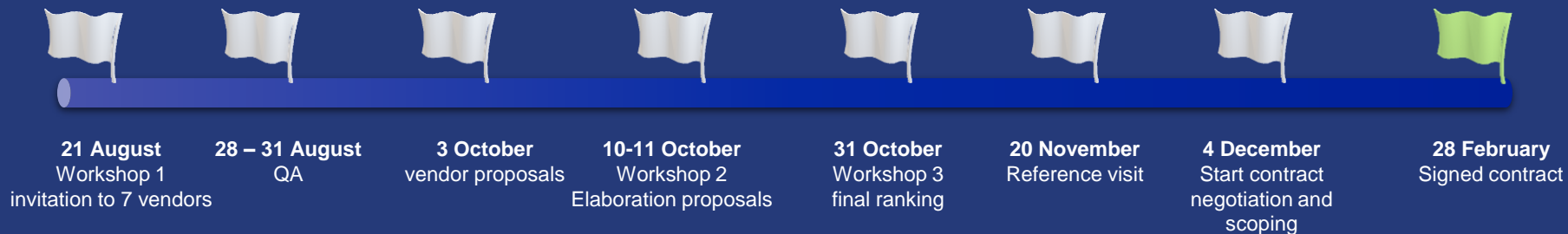
20 Penetration Tests and Red Team Exercises

With this initial selection:
all DevOps teams are taking part!

Vendor Selection Trajectory

Timeline

21 August	28 – 31 August	3 October	10-11 October	31 October	20 November	4 December	28 February
Workshop 1 invitation to 7 vendors	QA	vendor proposals	Workshop 2 Elaboration proposals	Workshop 3 final ranking	Reference visit	Start contract negotiation and scoping	Signed contract

1. Choose your framework (and stick to it)

2. Choose your security partner (and go for it)

3. Information security is not an outcome, it is a capability

4. Information security is about delivering value to business

5. Information security from various perspectives (physical/ IT/ personnel/ supply chain) and with holistic approach (people/ process/ technology)
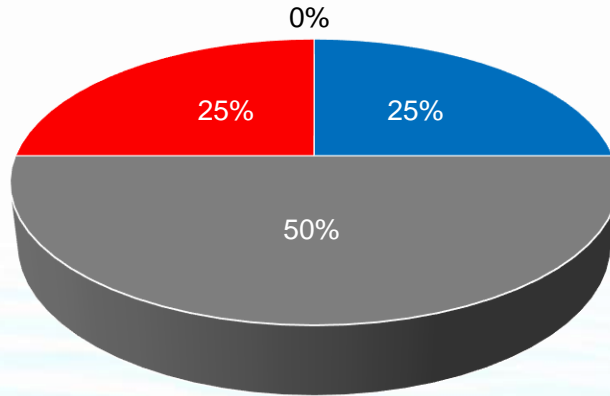
Thank you

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Interactive workshop

Workshop based on the results from our survey

Question 1

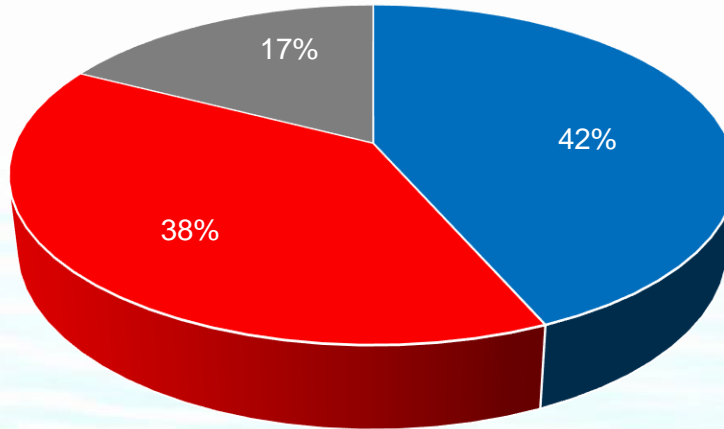Is digitization part of your company
/ IT strategy?

Thanks for filling out
our short survey!

24 respondents

- Digital is not at our agenda
- Strategy in development
- First digital projects are visible
- Digital is fully integrated into our organization and services
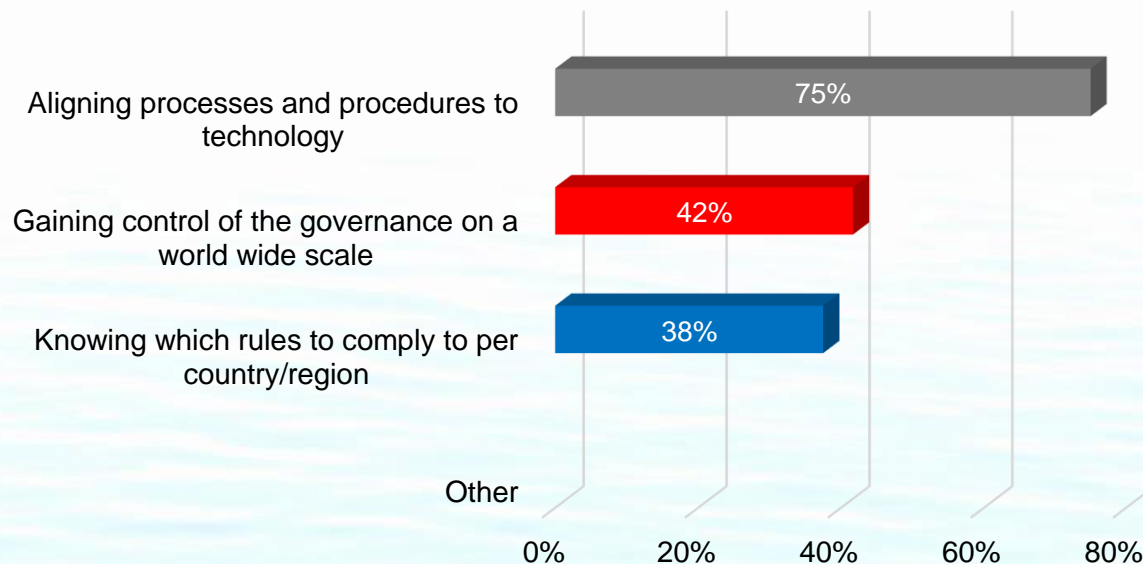
Question 2

Do you have full insight in the performance of your (IT) Services?

- Not yet: 42%
- Only for IT: 38%
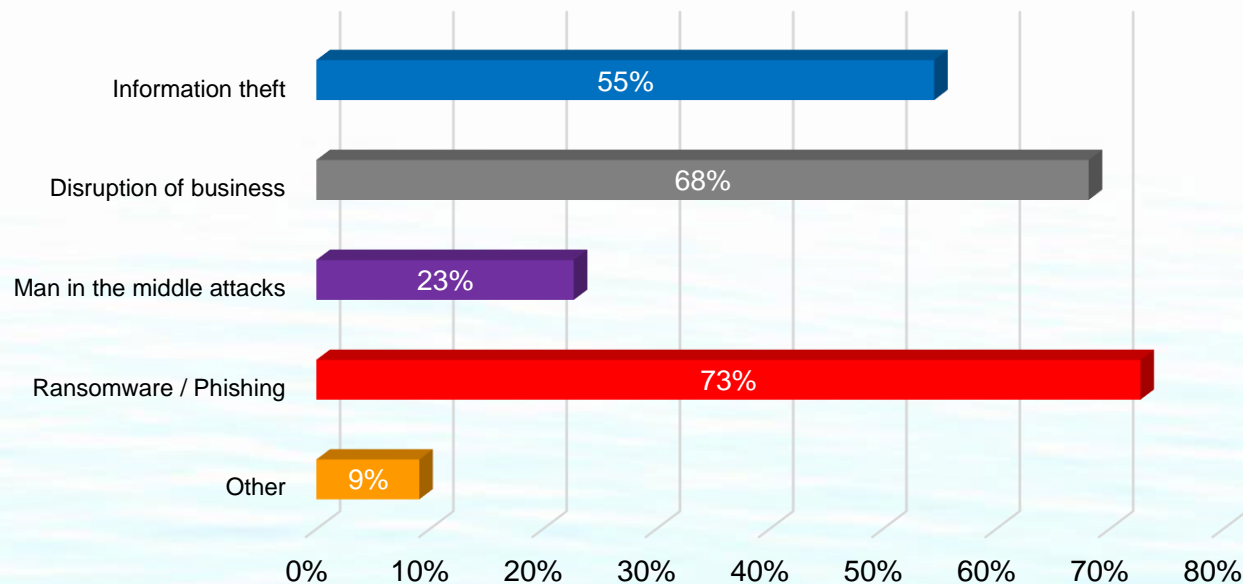- Cross departments: 17%

Question 3

What are your main compliancy challenges?
(select as many answers as you wish)

Question 4

What type of threats are most applicable for your organization?
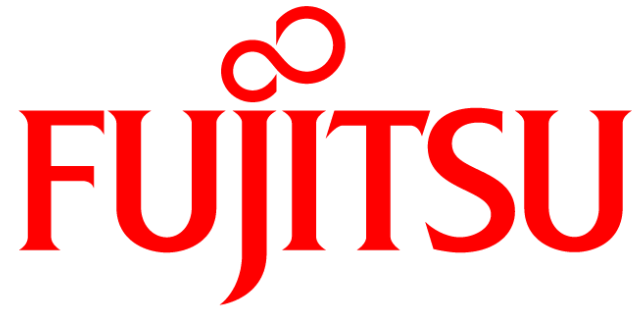(select as many answers as you wish)

Threat	Percentage
Information theft	55%
Disruption of business	68%
Man in the middle attacks	23%
Ransomware / Phishing	73%
Other	9%

(x-axis: 0%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%)

Other:
• Acting too slow
• Insider threat

Boat trip

16.00-18.00 Networking whilst enjoying the World Port Days during a boat trip

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shaping tomorrow with you