



Welcome back!

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Facilitator



Mr. Shayne Campbell

Safety Programme Manager, CANSO

Cybersecurity Workshop



Mr. Shayne Campbell

Safety Programme Manager,
CANSO



Mr. Richard Derrett-Smith

Principal Consultant, Safety
Expert, Egis Aviation



Mr. Morten Fruensgaard

Head of Security, Safety and
Crisis Management, Avinor

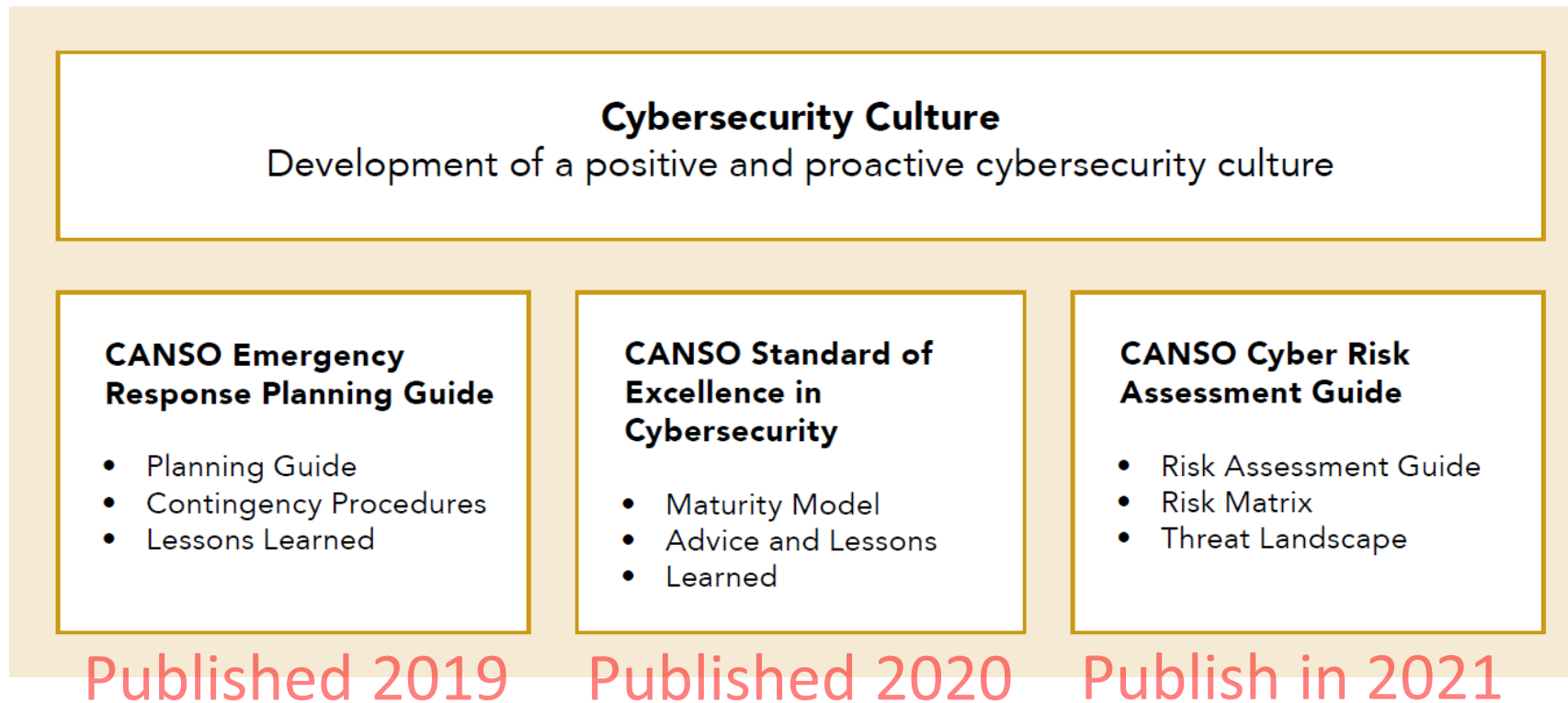


Mr. Andy Boff

Principal Consultant,
Cybersecurity Lead, Egis
Aviation

Cyber Safety Task Force (CSTF)

- Diverse group, ~20 experts world-wide
- Safety and security, including its underlying culture, is not an established state, but something that needs to be pursued continuously

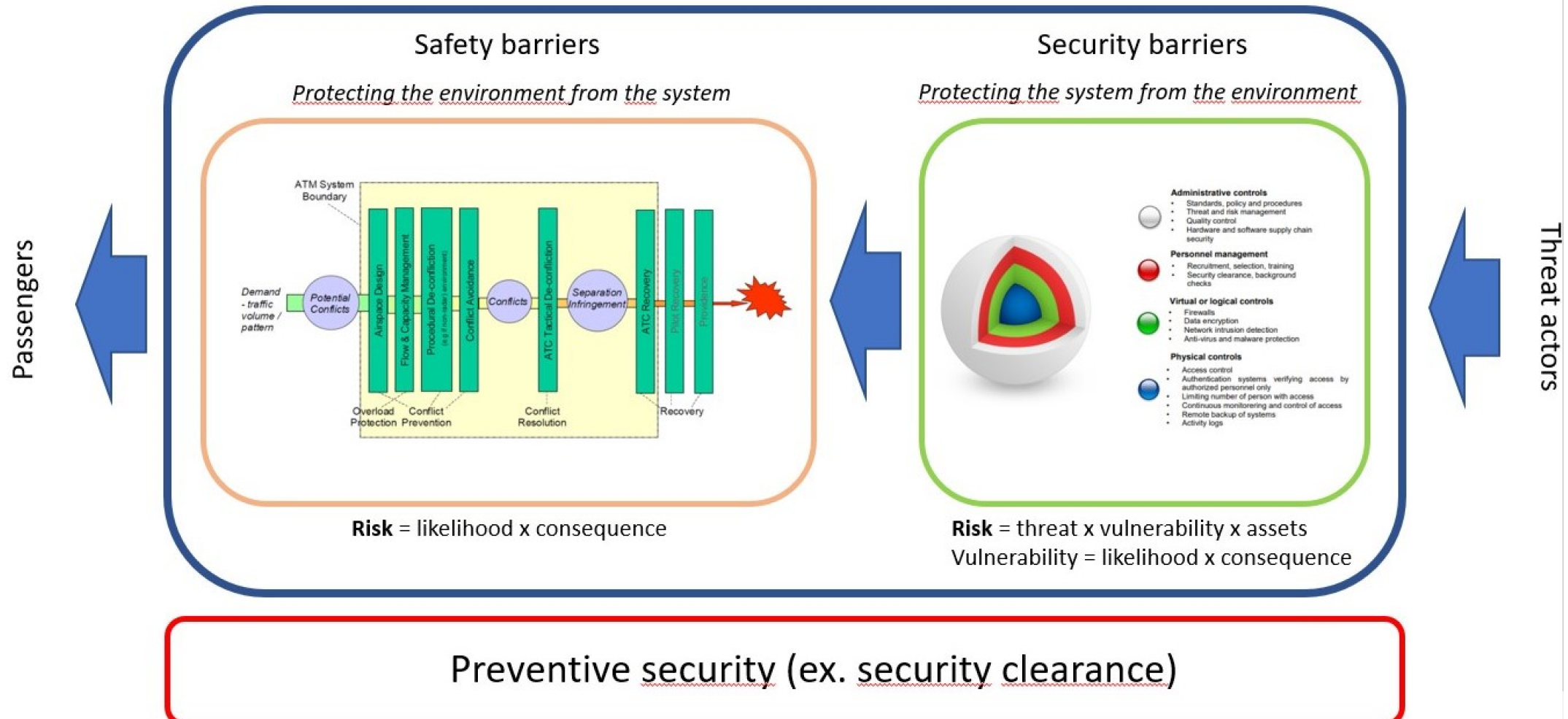


Workshop Objectives

- Discuss approaches to effective implementation of cybersecurity risk management measures for ANSPs and ANSP Supply Chain
 - Use of CANSO CSTF resources
 - Share lessons Learned and Recommended Practices
- Identify further actions / initiatives for the CSTF or other CANSO WGs to follow up

Case Study – Avinor ANS

ATM functional system (people, procedures, equipment)



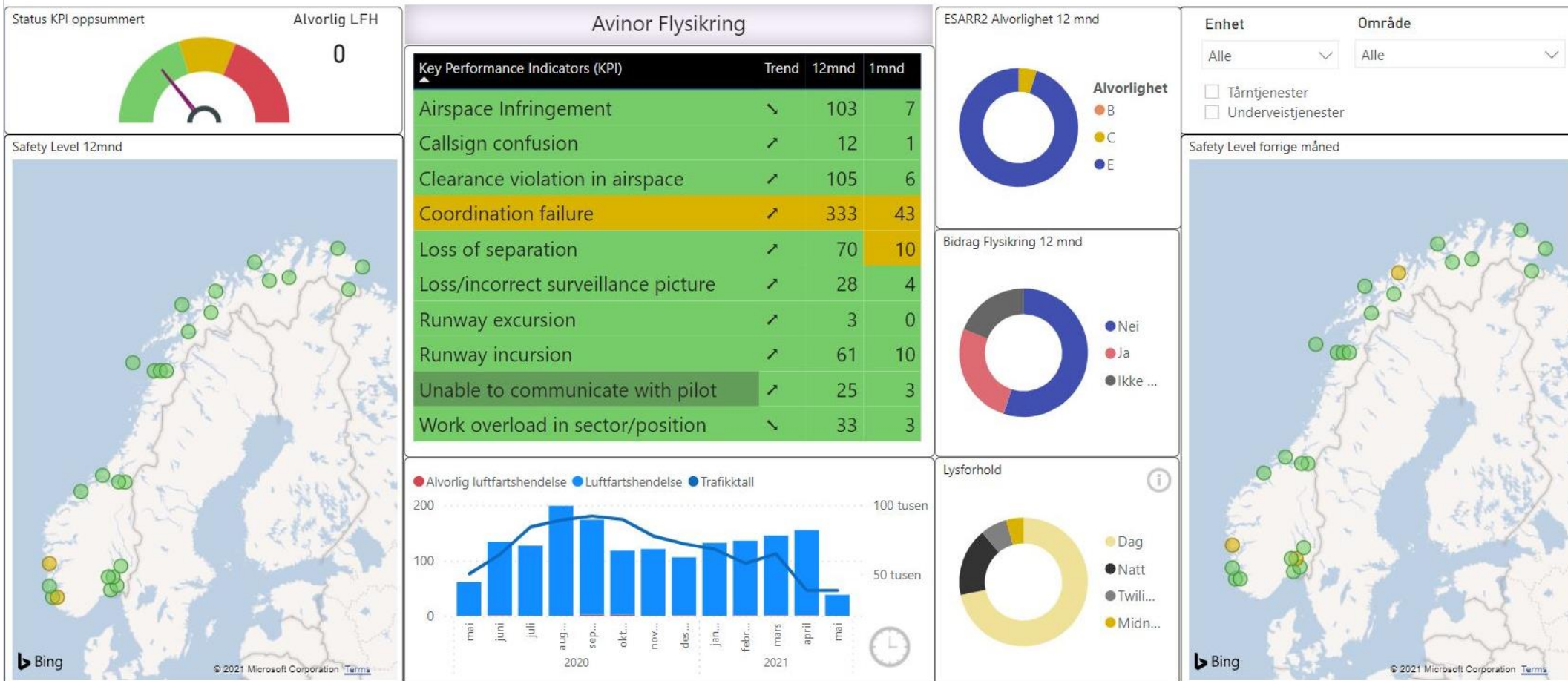
Case Study – Avinor ANS

DASHBOARD FLYSIKRING

SAFETY LEVEL KPI FO

FS Security, Flysikkerhet og Beredskap

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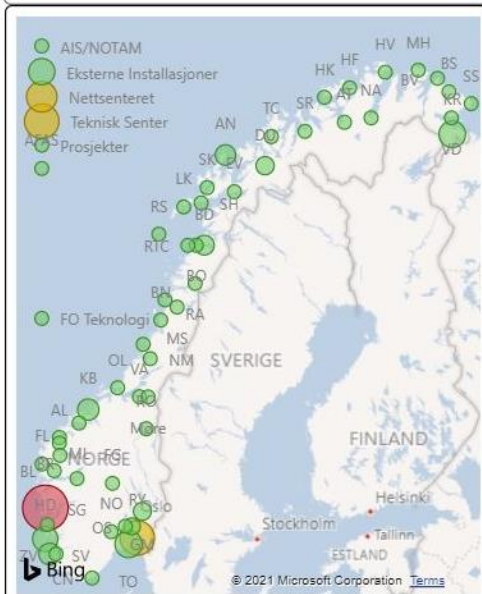
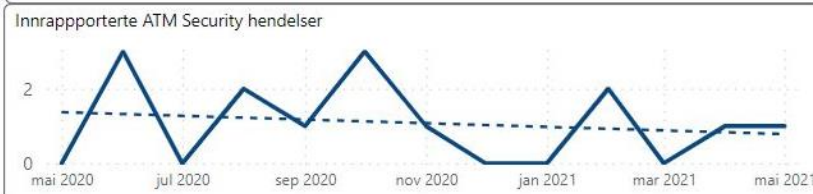
Case Study – Avinor ANS

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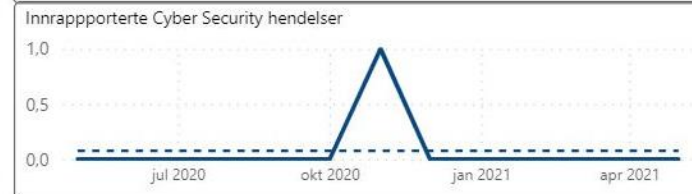
AVINOR FLYSIKRING - SECURITY

FS Security, Flysikkerhet og Beredskap

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Avinor	
ATM Security	
Bevisstgjøringskampanje	4 dager
Revisjonsavvik	2 stk
Securityavvik	3 dager
Securitykrav	69 stk



SEC kategori	
Cyberkrav	54 stk
Securityavvik	0 dager
Sårbarhetsvarsler	90 dager

Status Sårbarhetsvarsler		
Gruppe	Ant.	Dager
Datakom	3	4,33
IT-Drift Røyken	5	11,40
Kom- og infosystemer	3	33,67
Tårnsystemer	101	100,20
Underveissystemer	4	11,50

Status Systemer	
System	
AIMS Core	
AIMS Legacy	
A-SMGCS	
NORWAM	
Remote Tower Services	
Stamnettanalyse	

Discussion Point 1

- What could be a cost effective and beneficial method for implementation of an ANSP cyber security management system?
 - Outsource to an external supplier to implement and manage on the ANSP's behalf
 - Use an existing IT security framework as a basis for development
 - Integrate it into an existing risk management approach (e.g. safety)
 - Others?

Discussion Point 2

- What are some of the main pitfalls / challenges when implementing a cyber security management system?
 - Lack of senior management engagement
 - Lack of competent internal resource to implement / manage it
 - Lack of integration with other risk management approaches / policies (stove piping / silo approach)
 - Organisational barriers to integrated risk management
 - Use of approaches/tools that are not suited to operational technology environments

Discussion Point 3

- How to ensure a holistic approach to cyber security as an integrated part of the safety management system?
 - Outsource to an external supplier to implement and manage on the ANSP's behalf
 - Use of existing IT security personnel
 - Develop cyber security competence scheme for existing personnel with operational technology experience
 - Combination of the above



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