



# Resilience and safety management

## Scales, ways forward, challenges

Corinne Bieder



# Content

- What phenomena does the SMS address?
- Risk management: ways forward and limitations
- Safety beyond risks : research and regulatory challenges



# Content

- What phenomena does the SMS address?
- Risk management: ways forward and limitations
- Safety beyond risks : research and regulatory challenges



# Can SMS address all phenomena?

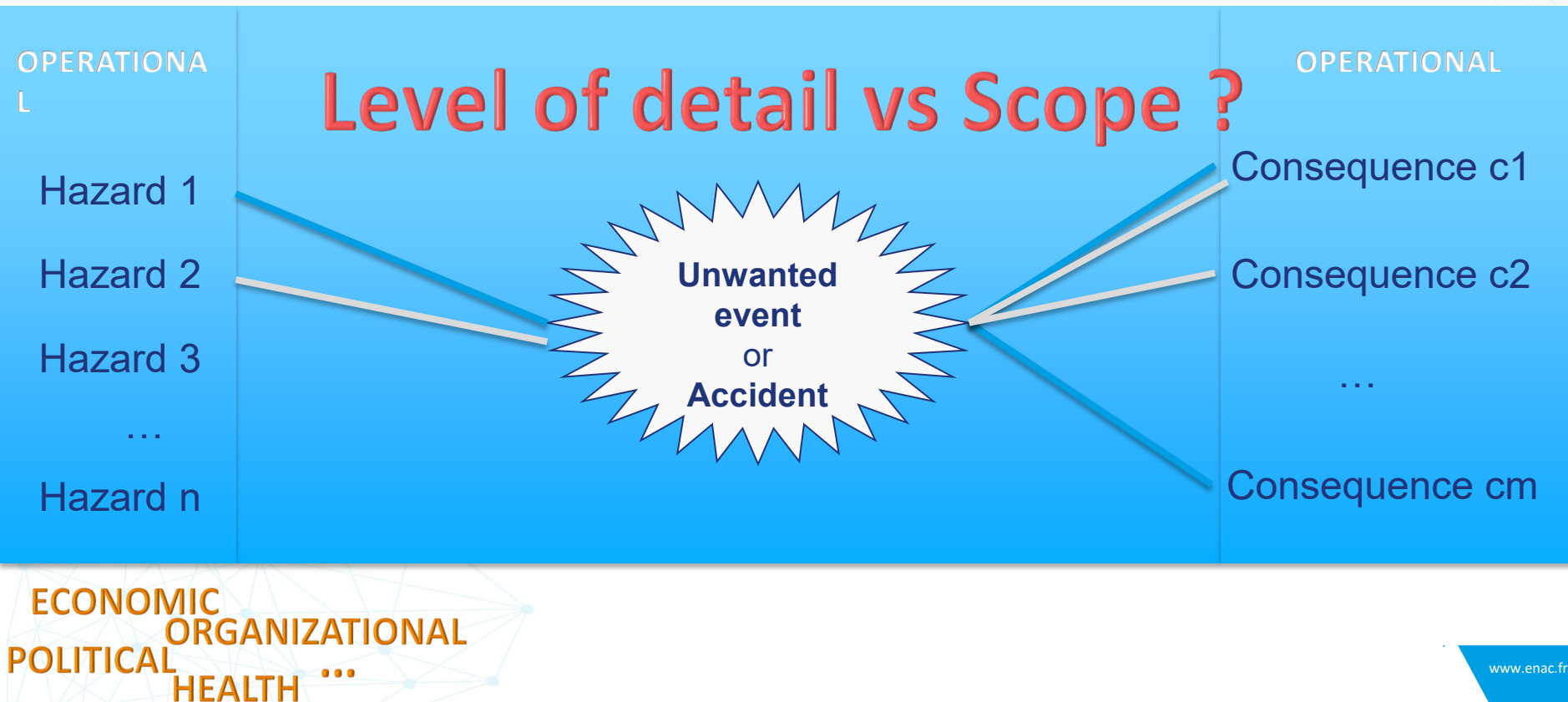
## ***Safety***

The state in which risks associated with aviation activities, related to, or in direct support of the operation of aircraft, are reduced and controlled to an acceptable level.

(ICAO, 2018, Doc 9859)

## What risks and what relation to operation?

# In practice....

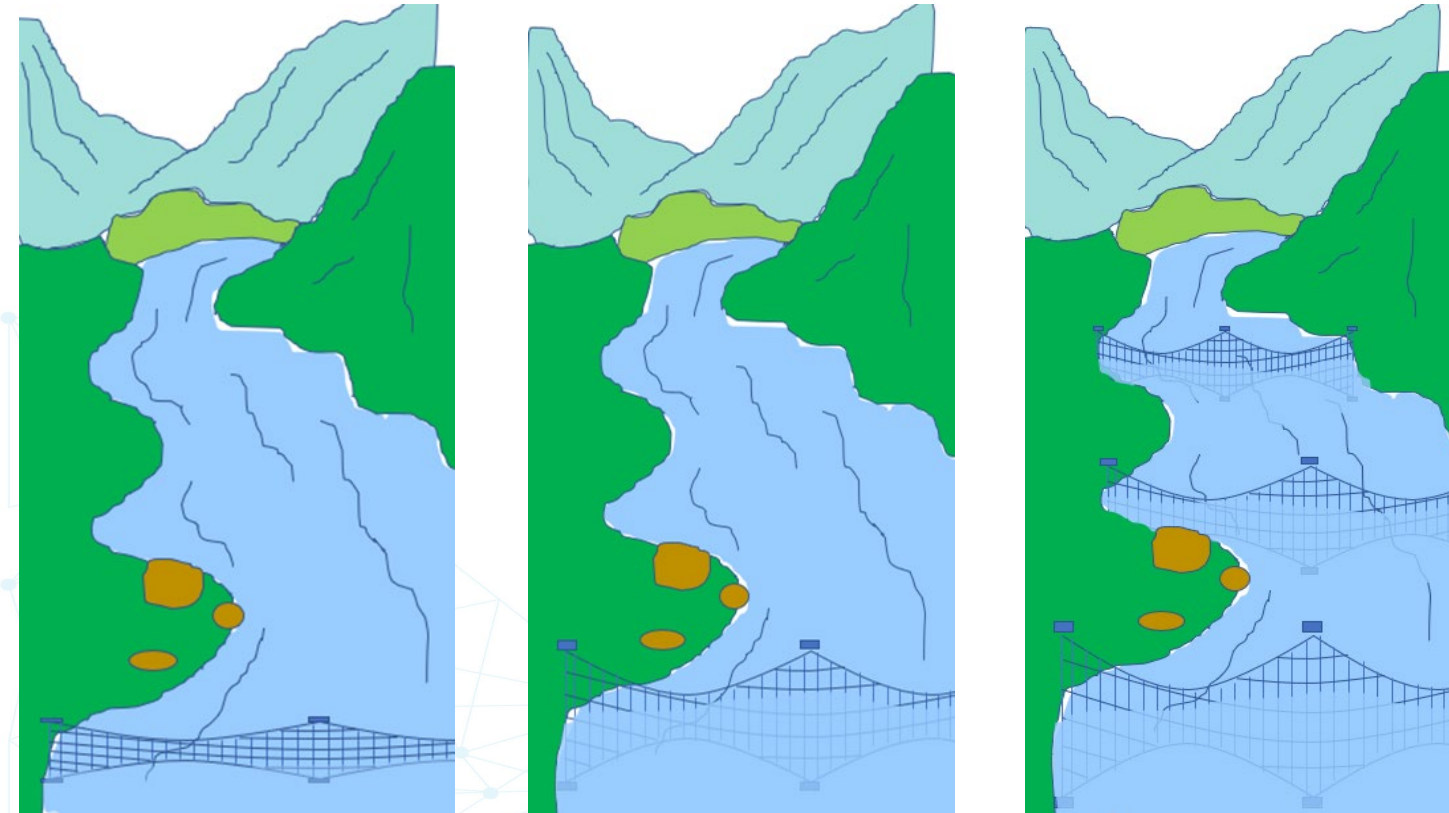




# Content

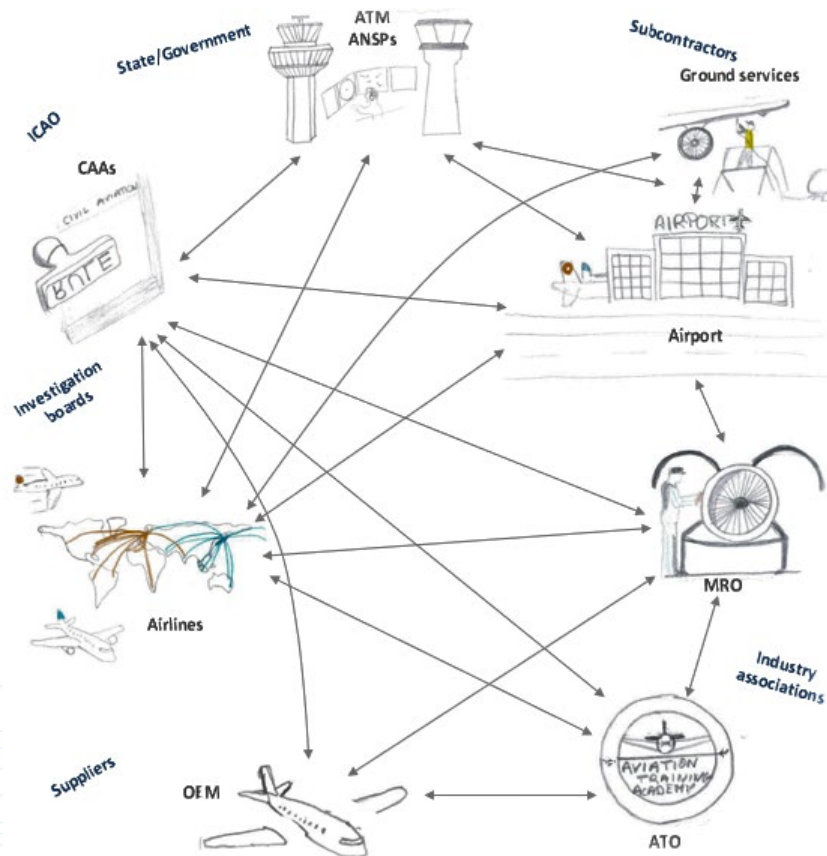
- What phenomena does the SMS address?
- Risk management: ways forward and limitations
- Safety beyond risks : research and regulatory challenges

# Extending the nature and scope of 'risks' considered



© Copyright 2022  
C. Bieder  
CRC Press

# Addressing the risks at the interfaces



© Copyright 2022  
C. Bieder  
CRC Press



# More inclusive ways of performing risk analyses



Possible ways also to reach beyond compliance?

# Unknown-unknowns

No matter how detailed the scenarios,  
they won't address all the daily contingencies

Known

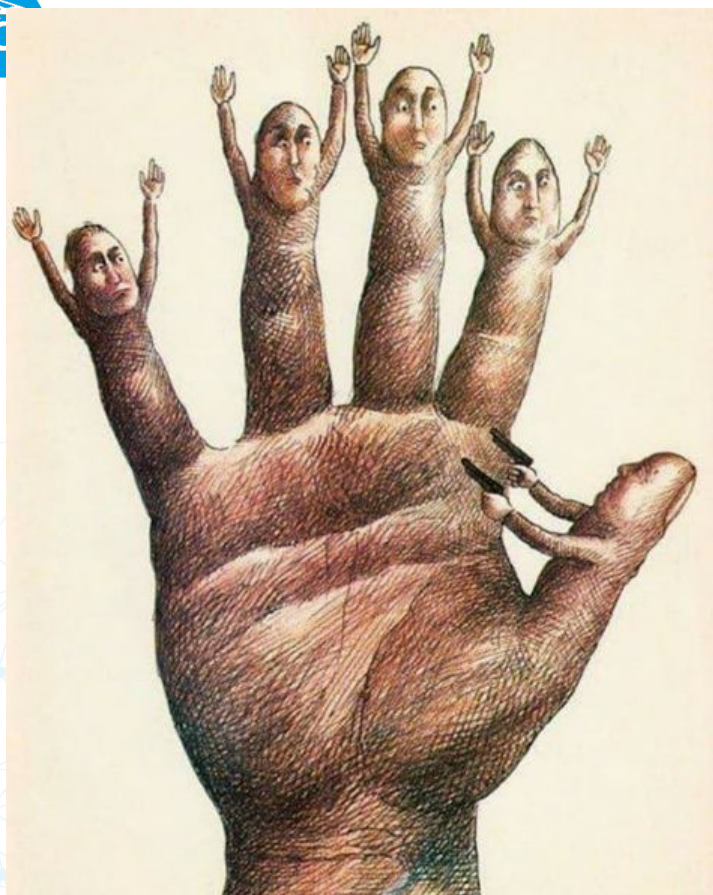
Knowable

**ADAPTATION NEEDED**



# Content

- What phenomena does the SMS address?
- Risk management: ways forward and limitations
- Safety beyond risks: research and regulatory challenges



Roland Topor







To what extent can the need for adaptation be taken into account  
in the current safety governance regime?

A decorative network pattern of light blue lines and dots is located in the bottom left corner of the slide.

# Thank you