

A large Air France airplane, specifically a Boeing 777, is shown from a low angle, parked at an airport gate. The aircraft's blue and white livery is clearly visible, along with its four engines and the distinctive Air France logo on the tail. A mobile airbridge is connected to the plane's rear door, and a ground crew member in a yellow vest is visible near the aircraft's rear.

*Innovation at Dutch Customs*



***Pushing Boundaries – The Next Steps!***  
***Smart Enforcement – Smooth Logistics***



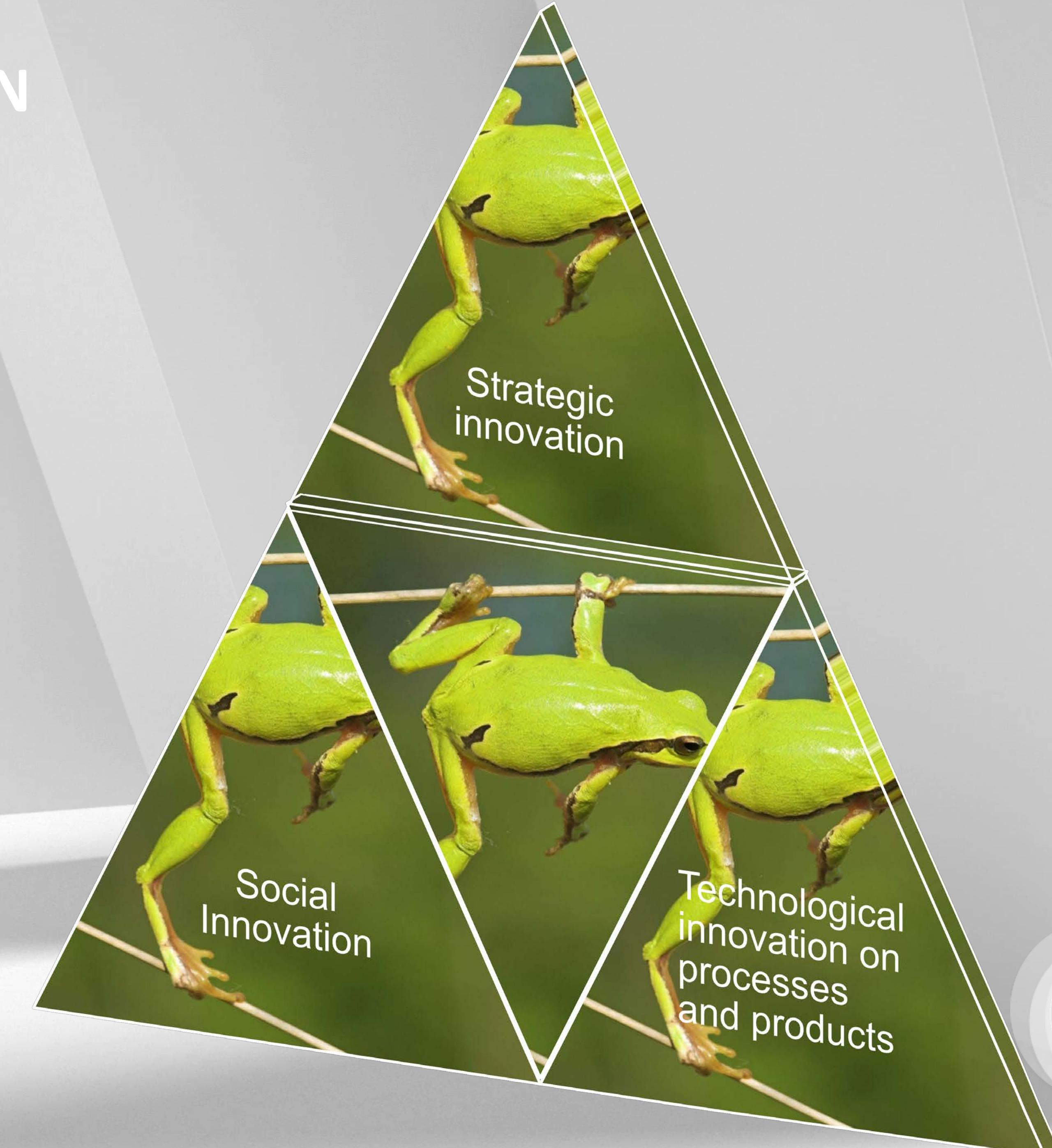
## **Mission:**

- **Guarantee**
  - \* **a solid collection of duties and taxes at import (and export)**
  - \* **safeguarding the society against direct threats for humans, flora, fauna and environment**
  - \* **controlling prohibitions and restrictions concerning (product) safety, health, environment and economy**

**At the same time:**

**Contribute to the countries' competitiveness**

# SUPERVISION – FACILITATION

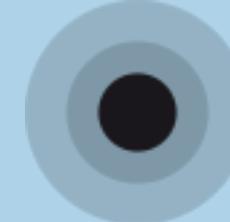


## Developments:

2007

8.000.000

*IT customs transactions*



2017

180.000.000

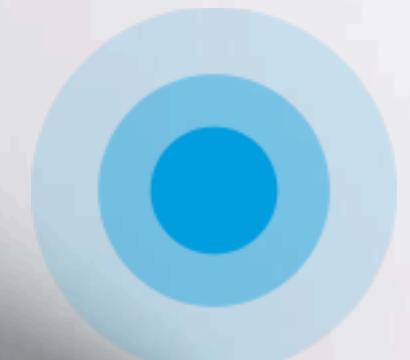
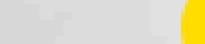
*IT customs transactions*

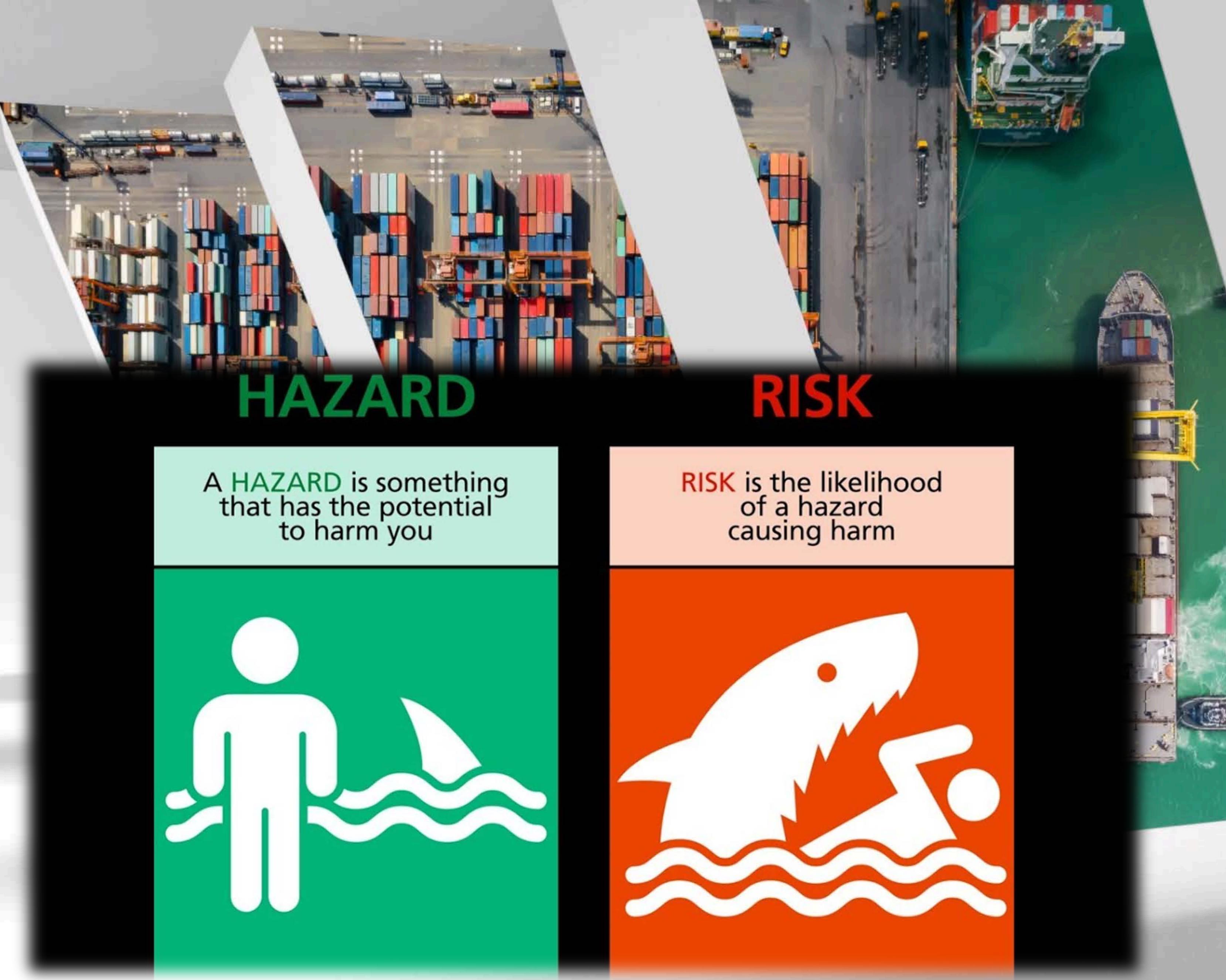


2021

350.000.000 ???

*IT customs transactions*





# *Challenge*

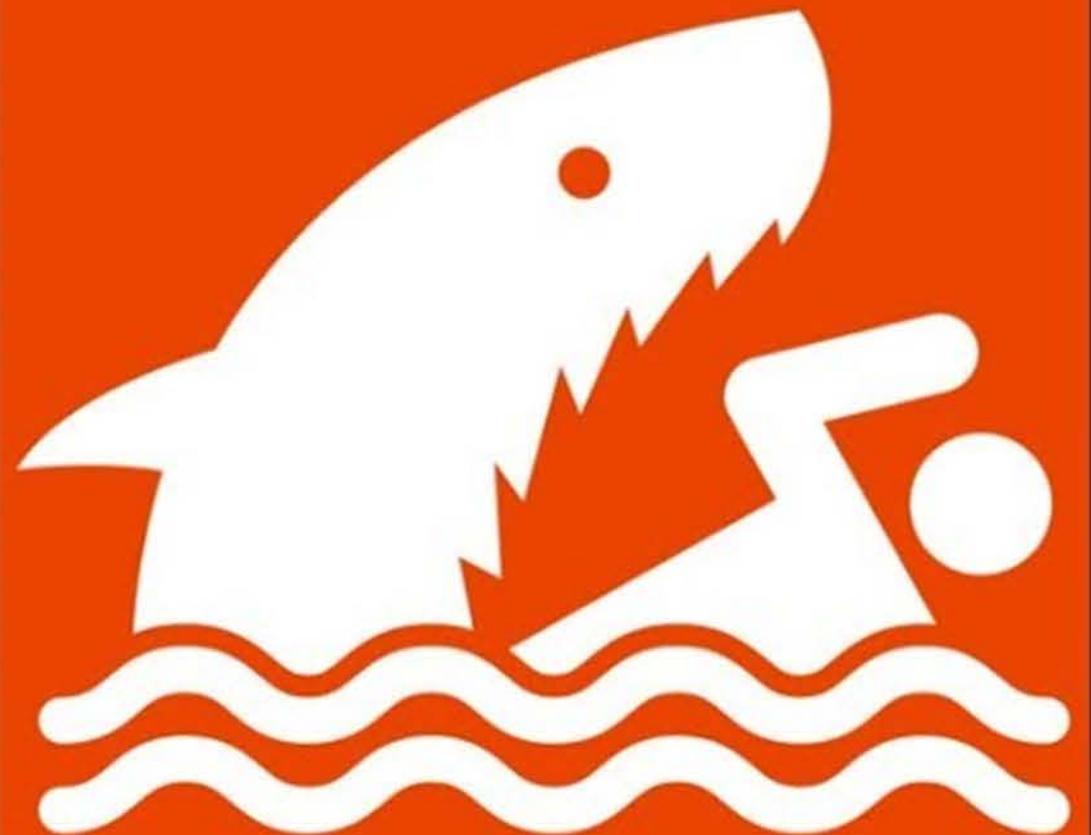
## **HAZARD**

A **HAZARD** is something that has the potential to harm you



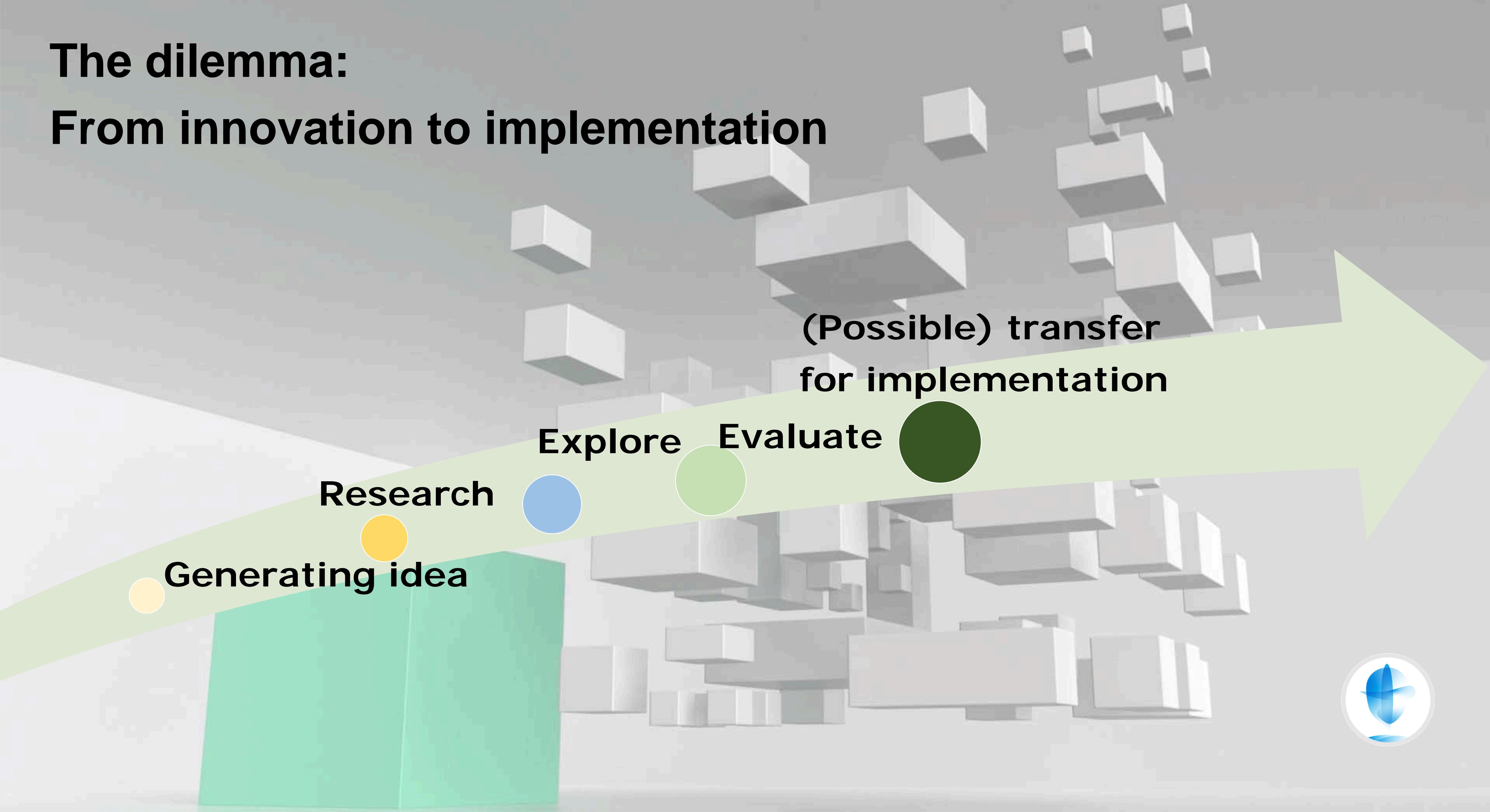
## **RISK**

**RISK** is the likelihood of a hazard causing harm



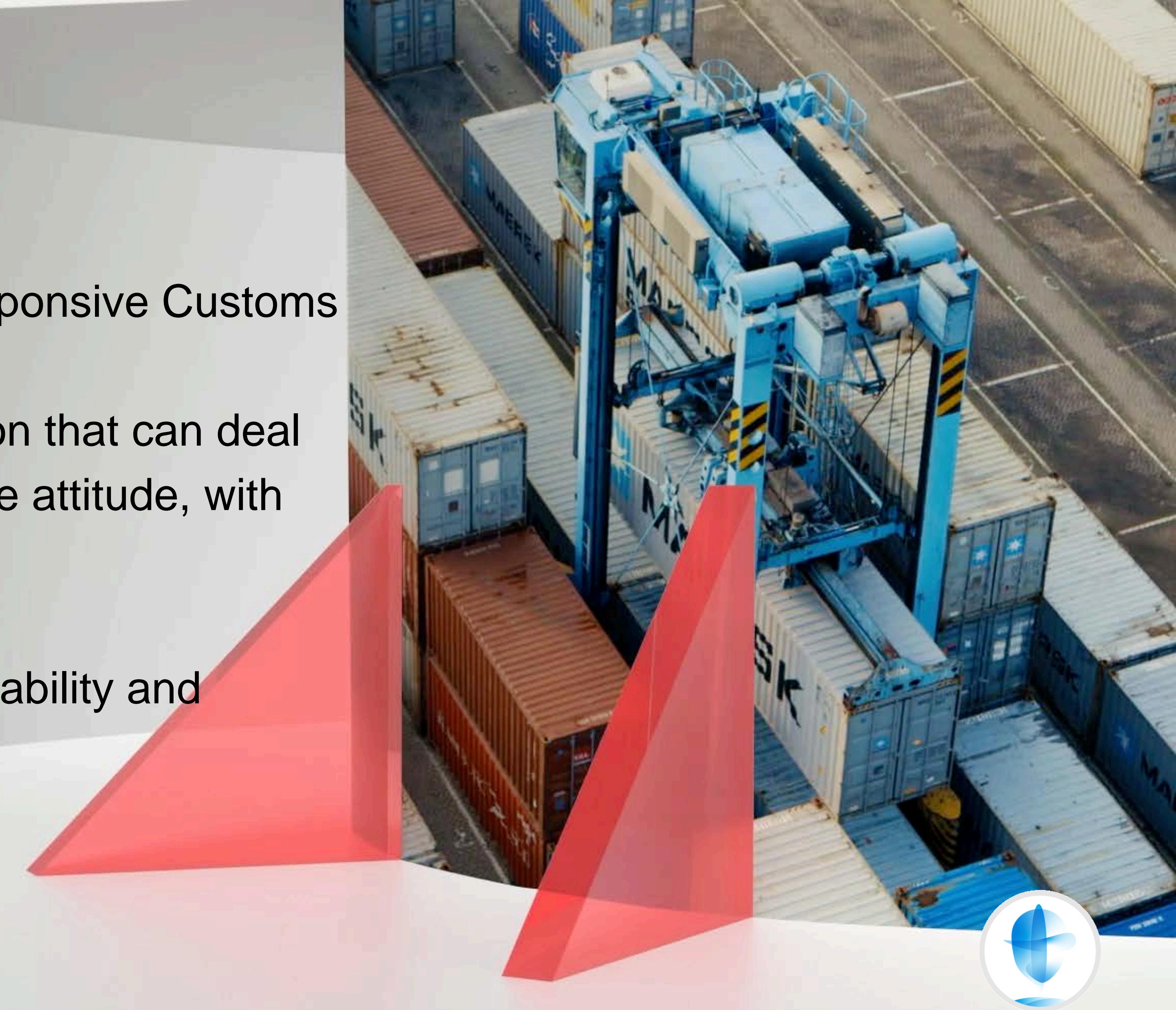
# **FROM IF-THEN SELECTIONS TO ALGORITHMS**

# The dilemma: From innovation to implementation



# Vision on innovation

- Innovation must contribute to a responsive Customs
- This means a Customs Organization that can deal with all challenges from a pro-active attitude, with resilience and adaptability
- More attention for increasing adaptability and innovative power of Customs.



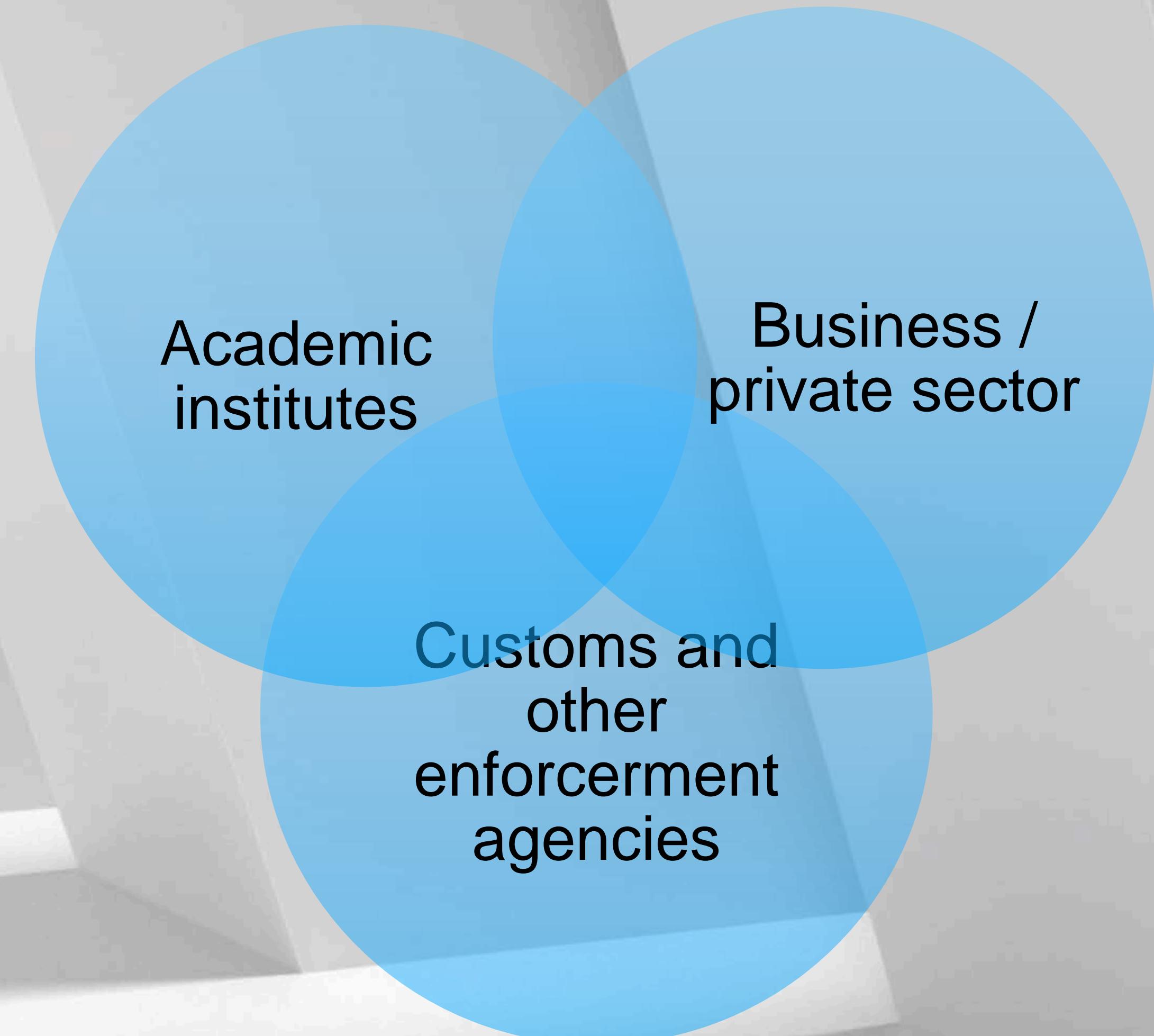
# Innovation with whom and how?

Stakeholders:

External: Triple Helix

Internal: Coordination Group Innovation

- Lead: CIO
- Board of Customs
- National Targeting center
- Business Support
- Regional offices



# Innovation toolbox

the cooperation  
partners

the pace of an  
innovation

about the  
competences

financing of an  
innovation

## Innovation Channels

- *Internal funds*
- *European Union - Horizon 2020*
- *Top Sector Logistics – Netherlands organisation for Scientific Research*
- *Incubators & Accelerators*
- *Internship and applied research*
- *Hackathon*
- *Innovative vendor management*



# Solution roadmap

- Artificial Intelligence

- Distributed Ledger Technology

- Internet of Things

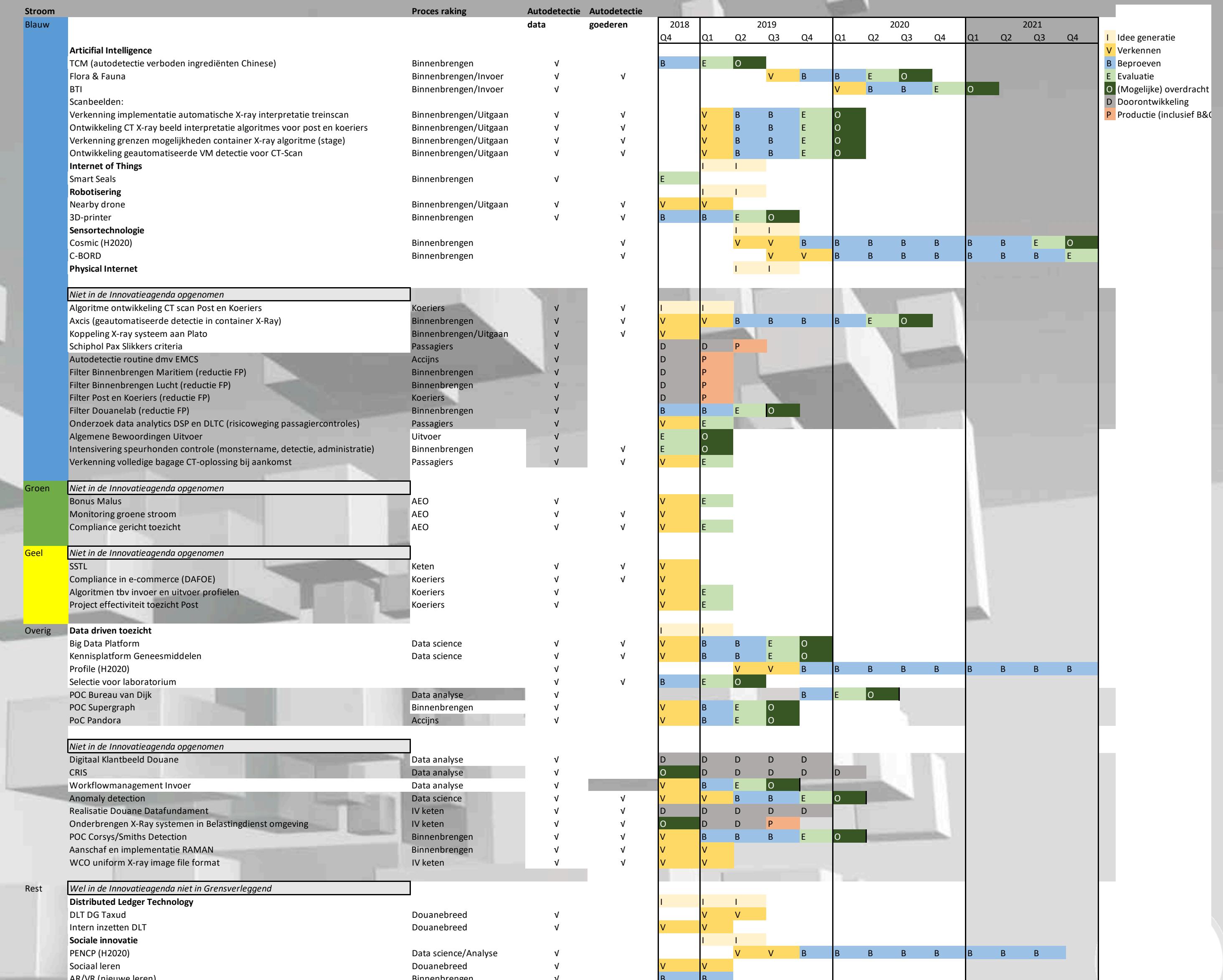
- Data driven supervision

- Robotization

- Sensor technology

- Social innovation

- Physical Internet



# Dutch innovation

## Smart Risk Selection at the Dutch NTC

- based on big data
- using innovative filtering methods
- shared with other government agencies



*Dutch innovation:*

*Rotterdam Maritime Mainport Netherlands:*

- *Customs*
- *Food & Consumer product Safety Authority*
- *Harbor authorities*
- *Human Environment & Transport Inspectorate*

**One stop shop**



An aerial photograph of a massive cargo ship sailing on a bright blue sea. The ship is densely packed with thousands of shipping containers in various colors, including white, blue, red, and green. The perspective is from directly above, showing the ship's long hull and the wake it creates in the water.

*Thank you for your attention*

*Frank Heijmann*

*Head of Trade Relations Customs NL*

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***Smart Enforcement – Smooth Logistics***