



H2020 - 740689



HEIMDALL: From Theory to Practice in PPDR Dr. Tomaso de Cola (DLR)

Community of Users (CoU) Workshop
15th September 2020, *via webex*



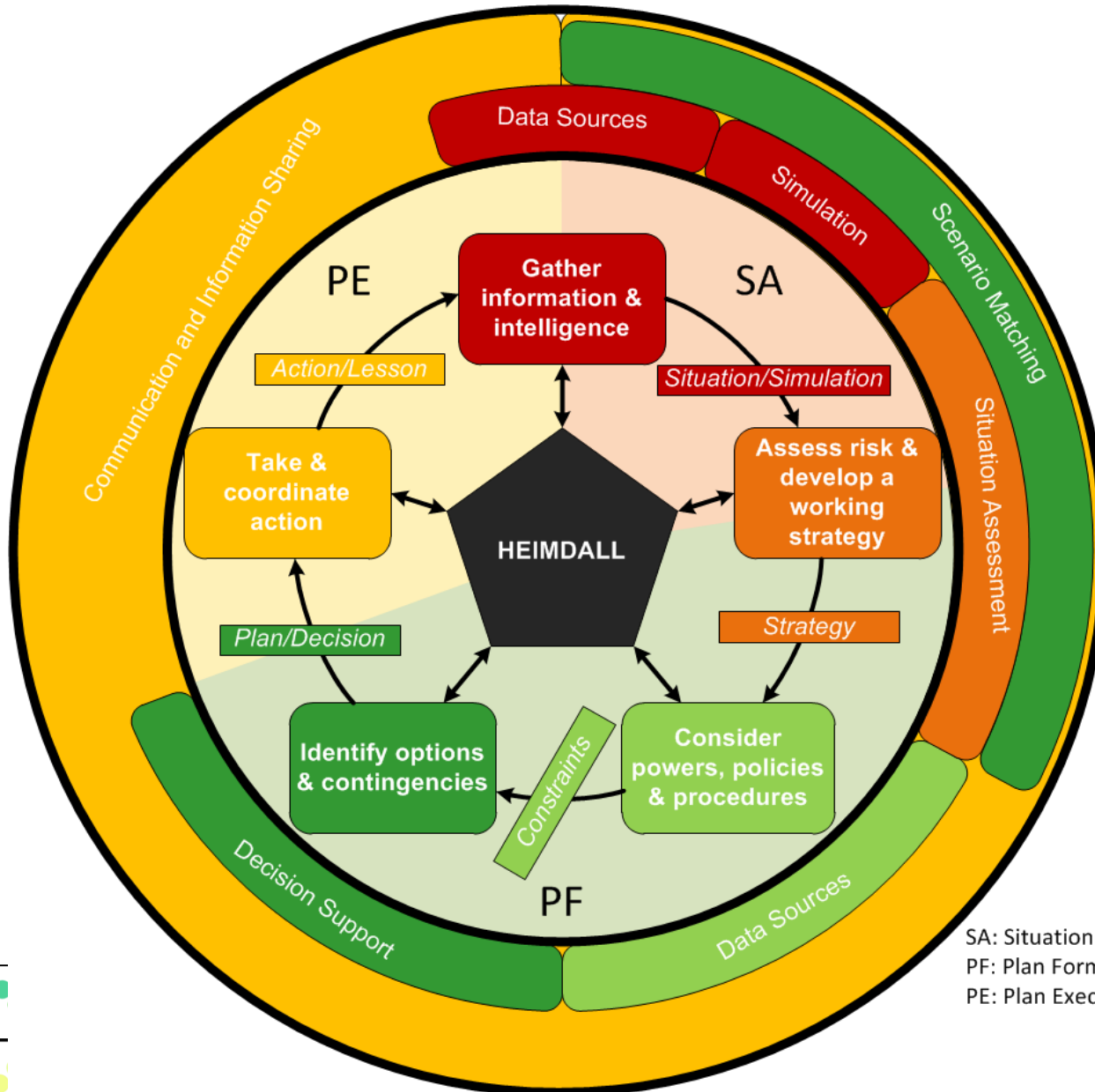
Overview

- HEIMDALL
 - ➔ **Multi-Hazard Cooperative Management Tool for Data Exchange, Response Planning and Scenario Building**

- Main objectives:
 - ➔ Develop services and products for response planning and scenario building
 - ➔ Integrate those in a multi-hazard platform
 - ➔ Interlink multiple actors
 - ➔ Demonstrate the system prototype in an operational environment

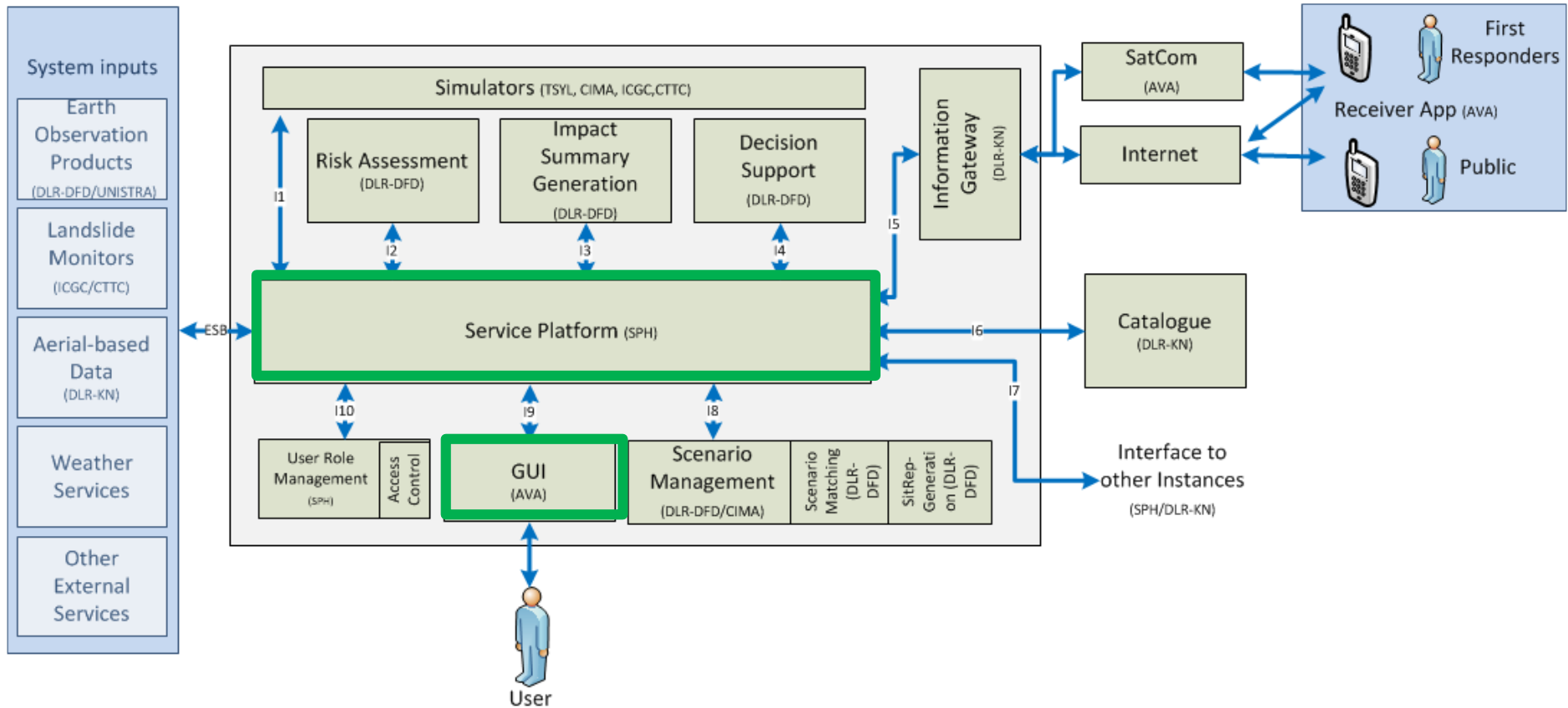


HEIMDALL Concept



SA: Situation Assessment
 PF: Plan Formulation
 PE: Plan Execution

HEIMDALL Architecture



Multi-hazard Cooperative Management Tool for Data Exchange, Response Planning and Scenario Building

HEIMDALL Usecases

Hazards:

- Fire
- (Flash) Flood
- Landslides

Cascading effects:

- A flood triggering a landslide
- A landslide blocking rivers and increasing the probability of floods
- A forest fire damaging a dam increasing probability of floods
- A landslide damaging high-voltage power lines increasing the probability of wild fires

Operation modes:

- Preparation mode
- Response mode



Demonstrations

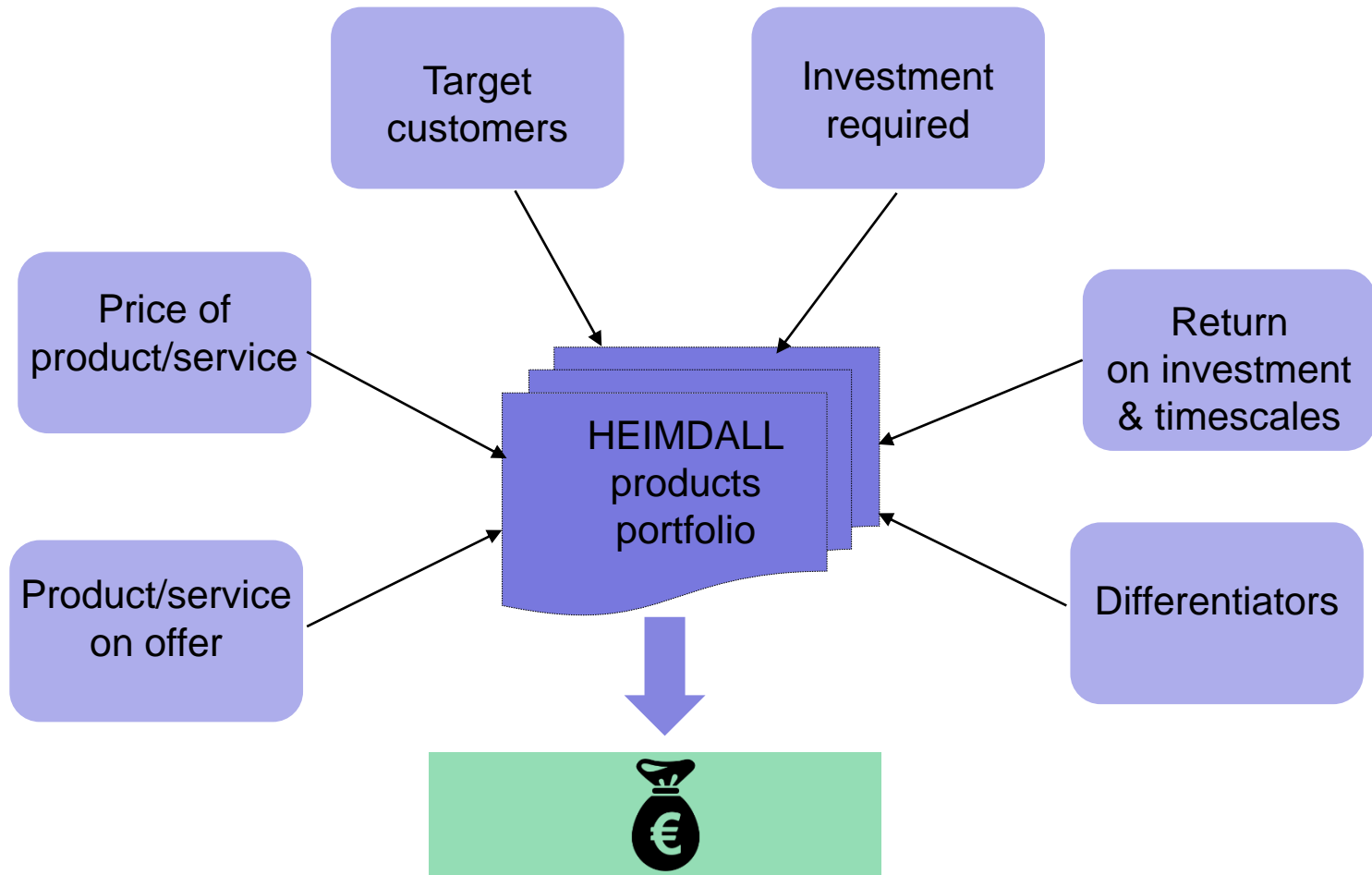
- Release A: Wild Forest Fire (October '18, SFRS)
- Release B: Landslides (April' 19, CIMA)
- Release C: Flash flooding (October' 19, FBRR)

- **Final Demo: Multiple events (January '21, Girona/online event)**

- Training:
 - Early October: CRI
 - November/December: INT



HEIMDALL Exploitation



Exploitation beyond HEIMDALL

- Requirements to move HEIMDALL from a prototype to a commercial system:
 - **Service provider**
 - Incorporation and constitution of suitable commercialization organization
 - Management of Intellectual Property
 - Location of incorporation and justification
 - Investment to sustain business whilst costs outweigh sales



Thank you for the attention!

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