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# **ARESIBO Kick-off**

**General presentation**

**Contract N°833805**

***This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 833805***



# **ARESIBO objectives (1)**

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- **RIO-1: Integrated situation awareness and improved perception for field and C2 operators through intuitive AR interfaces.**
- **RIO-2: Better human-robot collaboration via Dynamic UxV swarm intelligence for optimised surveillance.**
- **RIO-3: Secure the network connectivity between the field units and the C2 via Intelligent Hybrid Networks and Edge Computing.**

# **ARESIBO objectives (2)**

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- **RIO-4: Help operational units familiarize with new IT tools by means of serious games.**
- **RIO-5: Cross-platform interoperability of data-, user- and network-interfaces and contribution to standards**

# **ARESIBO objectives (3)**

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- **RIO-6: Holistic decision making based on Situational Awareness, Assessment and Forecasting tools.**
- **RIO-5: Cross-platform interoperability of data-, user- and network-interfaces and contribution to standards**

# **ARESIBO objectives (U0)**

- **UO-1: User requirements definition, end-user evaluation and validation.**
- **UO-2: Effective use of (limited) resources.**
- **UO-3: Illegal border crossings and other illegal activity are exposed and illegal border crossers will be captured.**

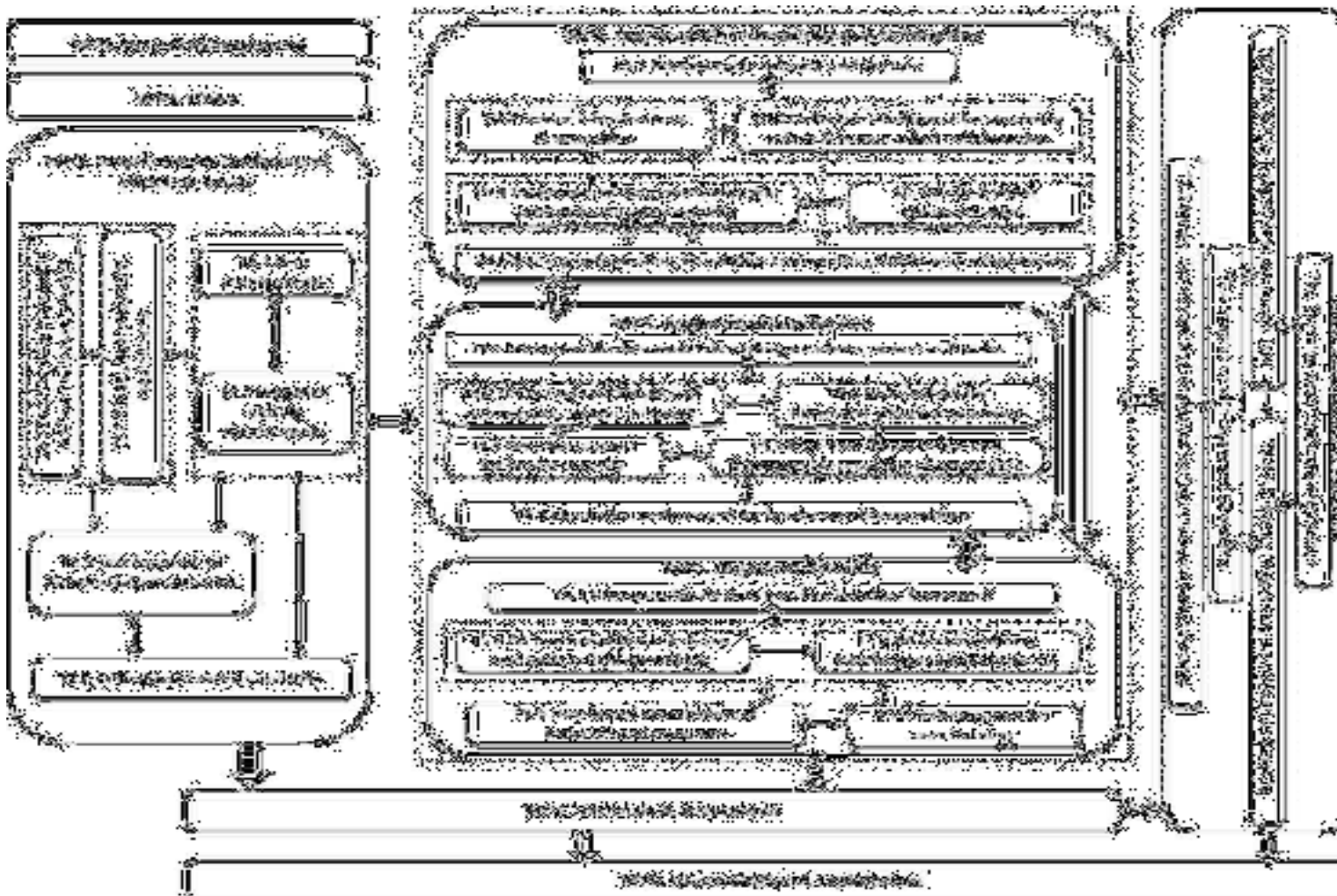
# **ARESIBO objectives (IMO)**

- **IMO-1: Dissemination and collaboration.UO-2: Effective use of (limited) resources.**
- **IMO-2: Exploitation and sustainability model.**
- **IMO-3: Increased perception of security by EU citizens.**
- **IMO-4: Ensuring that the technologies developed within ARESIBO are accepted by citizens and are compliant with the current legal framework, in terms of respect of privacy and citizens' fundamental rights.**

# **ARESIBO objectives (IMO-ctd)**

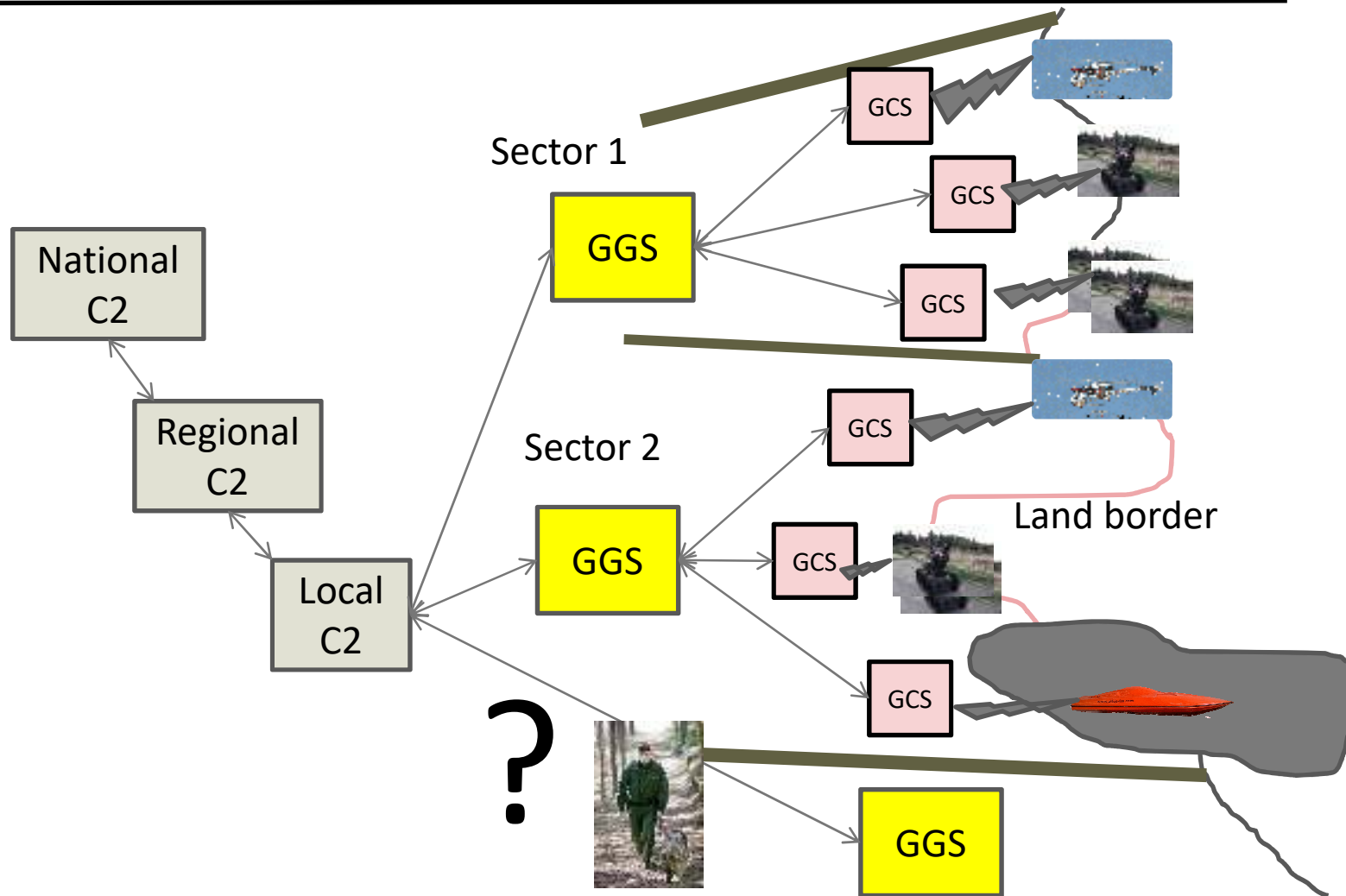
- **IMO-5: Effective cross-border cooperation and management by stimulating cross-border dialogue**

# ARESIBO WBS

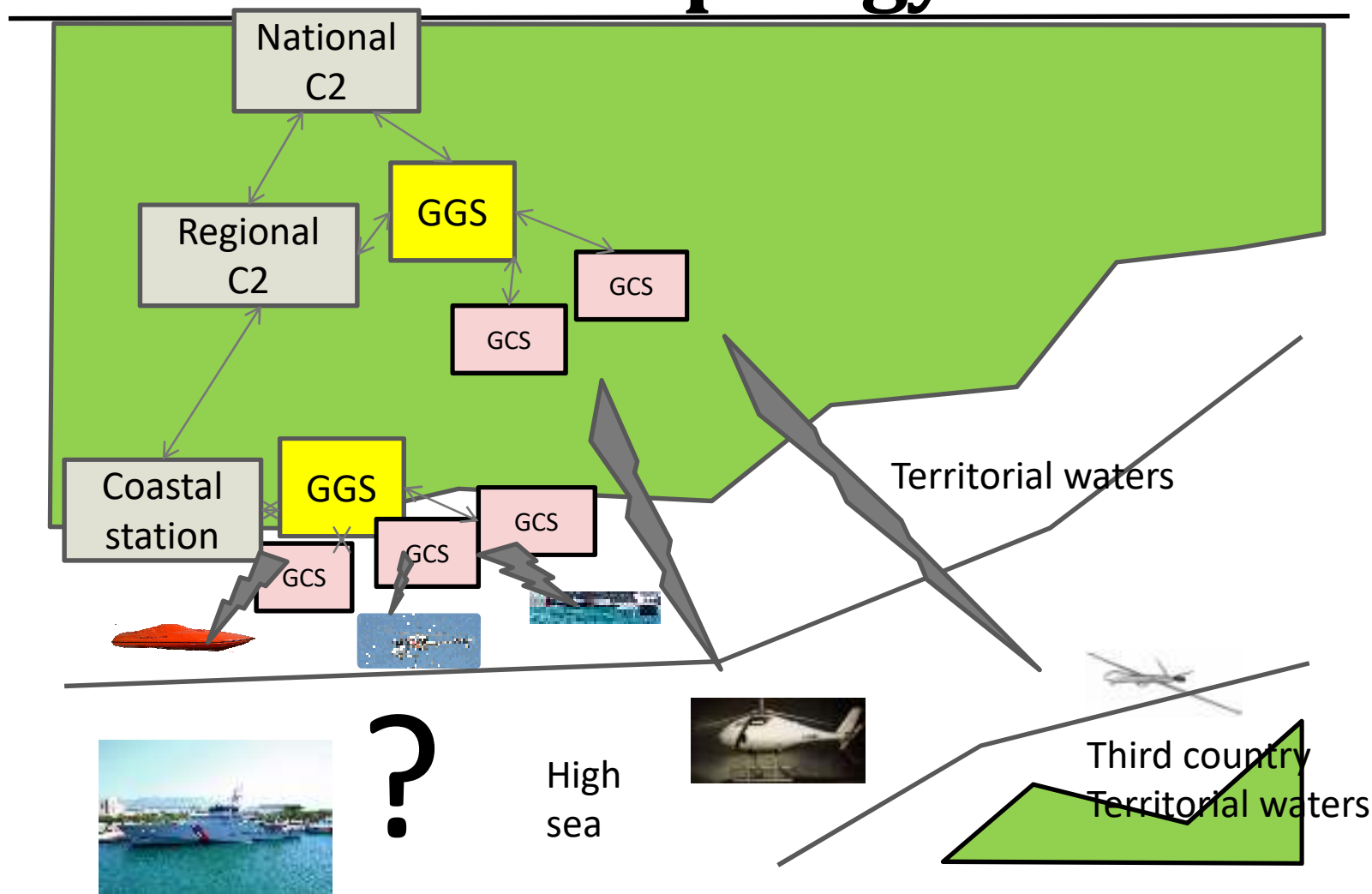




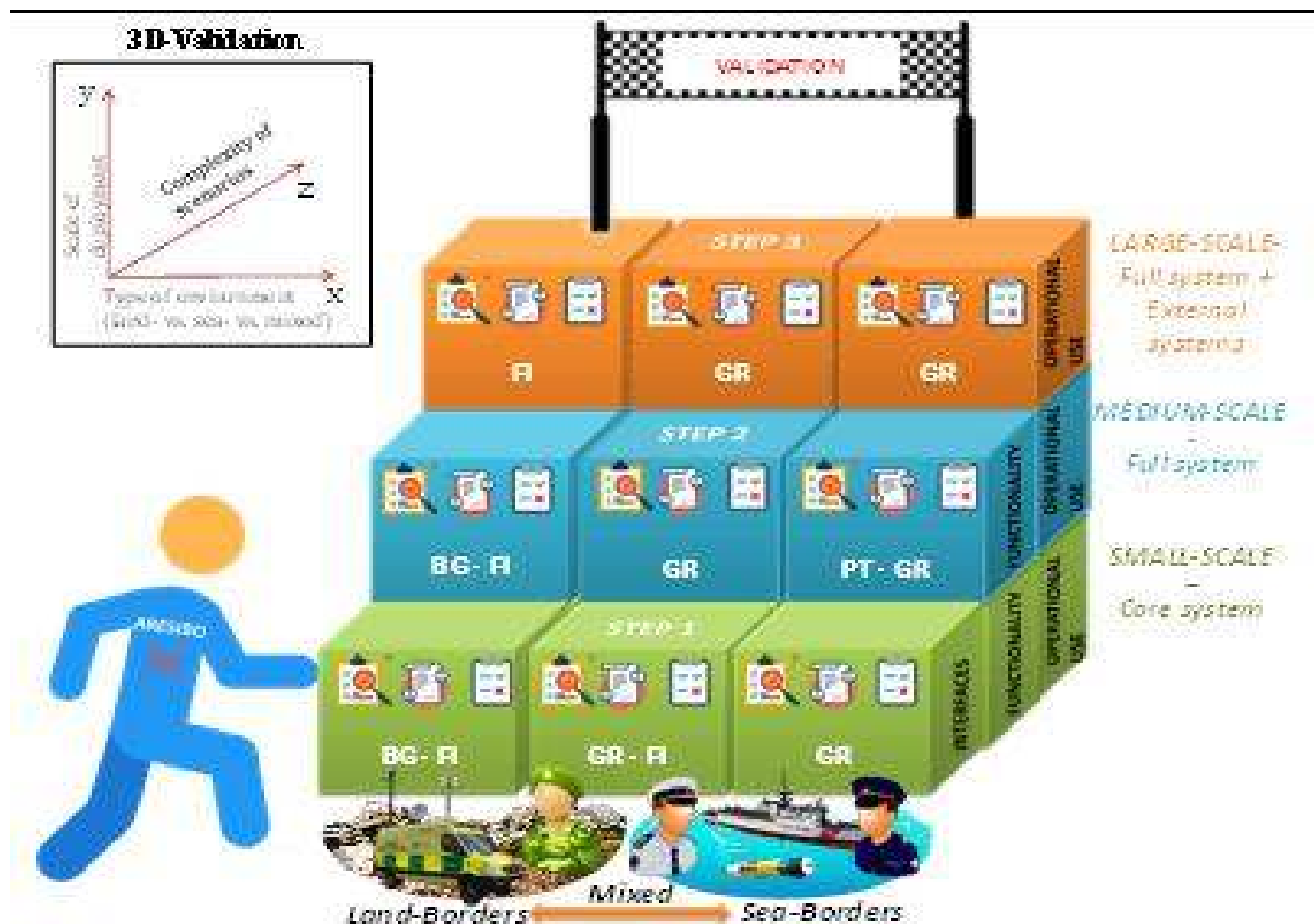
# Green border topology



# Blue border topology



# ARESIBO step by step approach



# ARESIBO definitions

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- ARESIBO is not a system: it is an additional capability implemented in an existing system
- For the project there are 2 main aspects:
  - Develop a C2 system mock-up (what could be a SOTA Border surveillance today regardless of budget)
  - Integrate in this system the AR capabilities)
- The whole assembly (legacy systems + ARESIBO C2 + AR capabilities) constitutes the Border guards C2

# ARESIBO: C2

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Planning (strategic/operative level)

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Tasking (tactical level)

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Current-Ops monitoring (tactical level)

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