

PERIVALLON 

PERIVALLON Project Presentation

Dissemination level: Public



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PERIVALLON

Protecting the **Eu**Ropean territory from organised **enV**ironment**Al** crime through **inteLL**igent threat detecti**ON** tools



24 Partners



12 Countries



Total Budget
€5,708,322.50



EU Contribution
€4,670,653.75





36 Months
Start date:
1/12/2022

Topic: HORIZON-CL3-2021-FCT-01-09: Fight against organised environmental crime - HORIZON IA

PERIVALLON Consortium

Interdisciplinary consortium involving **24 partners** from **12 EU and non-EU countries**

 **5 End-users** (LEAs & Border Guards)  **3 Authorities** Regional/National



 **6 Academic/Research** partners



 **7 SMEs**



 **1 Industry partner**  **1 EU Agency**  **1 Foundation**



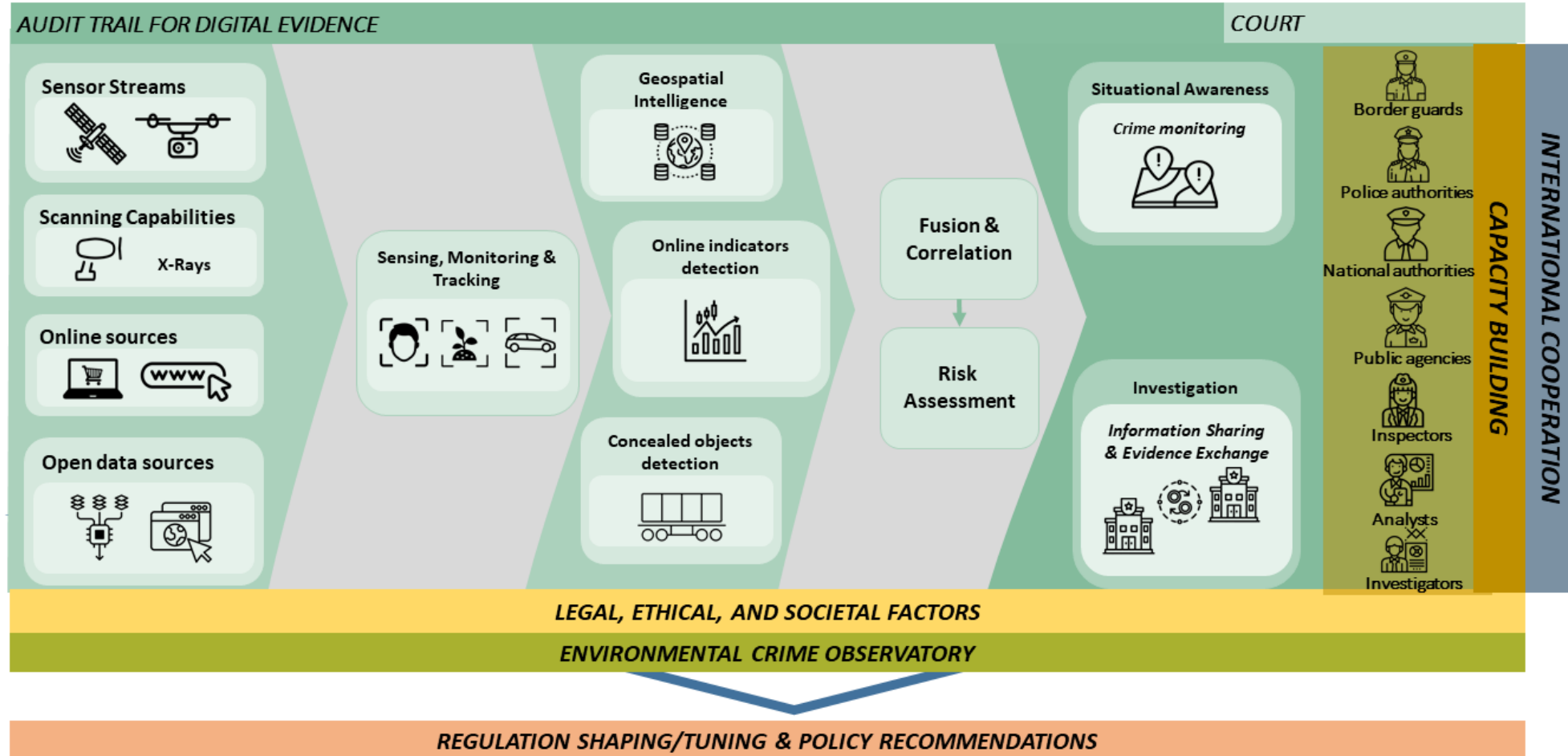
Ambition

To develop an environmental crime
detection and investigation platform
at the forefront of technological
innovation

To improve capacity building and
international cooperation of security
practitioners through enhanced
investigation processes



PERIVALLON concept





Main objectives (i)

01: Provide a rich suite of advanced AI-based geospatial intelligence and remote sensing solutions to improve the detection and investigation capabilities of European Police, Border Guard, National, and Regional Authorities to tackle organised environmental crime in a more efficient and effective way

02: Develop improved AI-based extraction, analysis, and correlation technologies to identify illegal environmental crime activities by detecting irregularities in (online) data generated across the processing, shipment, and trafficking ecosystem for waste management and refrigerant trading

03: Develop a trustworthy, transparent, and easy-to-use environmental crime monitoring platform that collects court-proof crime evidence and provides decision support by fusing heterogeneous data for identifying patterns, assessing the likelihood of criminal activities, and forecasting trends



Main objectives (ii)

04: Enable improved cooperation between European police authorities, border guards and other national authorities and international actors through secure and transparent information exchange

05: Promote continuous evaluation, improvement, and training over the developed tools and solutions in order to enhance uptake of new technologies for existing and emerging capability gaps

06: Improve the intelligence picture of organised environmental crime across Europe, while also supporting the shaping and tuning of policy regulation

07: Exploit PERIVALLON's main results by exploring their wider use, sustainability, and business feasibility, collaborate with relevant projects and initiatives to enforce advanced research and support further results uptake opportunities, and communicate the project results to raise citizen awareness.

PERIVALLON Pilot Use Cases



PUC1: Illegal waste disposal detection
(IT, EL, SE)



**PUC2: Intentional dumping of
polluting substances in land and water**
(IT, BE)



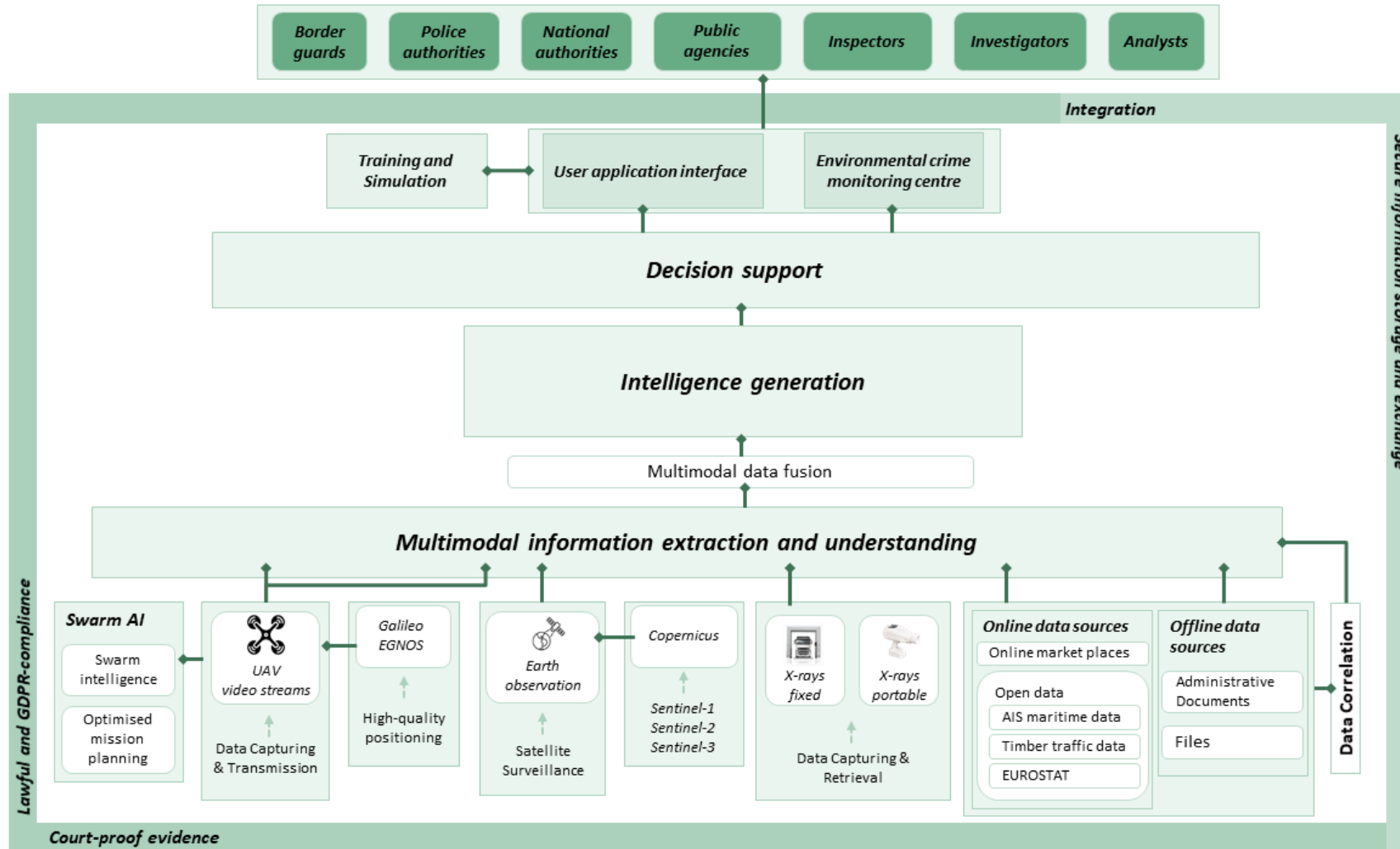
**PUC3: Transnational illegal trafficking
of waste electronic and electrical
equipment (Europe towards Sub-
Saharan countries)**



**PUC4: Illegal trade in ozone-depleting
substances & HFCs** (RO)



PERIVALLON Architecture



PERIVALLON Stakeholder Network

Stakeholder Network coordinated by Hellenic Police:

- ❖ To establish a broad dialogue with multiple stakeholders on the solutions proposed in the project
- ❖ To collect input on expectations as well as feedback on the results developed
- ❖ To inform on the progress of the project and actively engage in project activities (workshops, demonstrations, etc.)

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<https://www.linkedin.com/company/perivallon-he>



https://twitter.com/PERIVALLON_HE

PERIVALLON's WEBSITE



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Thank you!



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