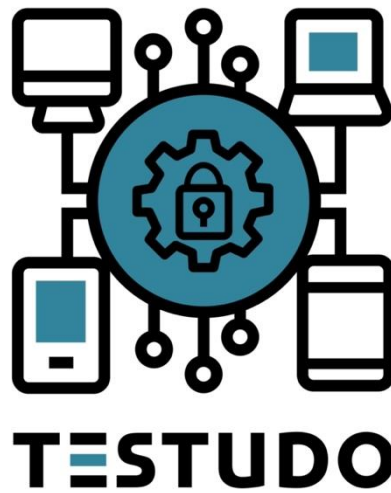




TESTUDO

HORIZON-CL3-2022-INFRA-01- Grant Agreement No. 101121258

AUTONOMOUS SWARM OF HETEROGENEOUS RESOURCES IN
INFRASTRUCTURE PROTECTION VIA THREAT PREDICTION AND PREVENTION

Beyond TESTUDO: Turning Project Results into Lasting Impact



TESTUDO is a project funded by the European Commission under the Horizon Europe Programme (HORIZON-CL3-2022-INFRA-01) under Grant Agreement No. 101121258.

As TESTUDO approaches the final stages of its implementation, attention is increasingly turning to a key question: how can the project's results continue to create value after its completion?

Throughout the project, TESTUDO partners have developed technologies, tools, methodologies and knowledge to support the protection and resilience of critical infrastructure. Exploitation planning has been integral to this work, helping the consortium explore how these results could be further developed, adopted and used beyond the project.

For TESTUDO, exploitation encompasses several forms of continued use, ranging from further research and technology transfer to operational adoption and potential commercial applications. The aim is to link the project's achievements to opportunities to address practical needs and to contribute to the longer-term protection of critical infrastructure.

1. From Exploitable Results to Key Exploitable Results

The TESTUDO exploitation process began by identifying and assessing results developed throughout the project. Partners assessed their potential for continued use, considering technological maturity, intended users, and prospects for further development.

The consortium also examined how complementary results could contribute to broader solutions. This work has informed the identification of Key Exploitable Results across areas including situational awareness and decision support, advanced visualisation, autonomous monitoring, detection technologies, and cybersecurity.

Bringing related capabilities together helps clarify how individual research outputs could contribute to a more comprehensive response to operational needs. It also supports developing value propositions that explain the potential benefits of these results to prospective users.

The portfolio reflects TESTUDO's modular approach. Some results may progress independently, while others may offer greater value when combined with complementary technologies. Future development will depend on maturity, intended application, and further validation requirements, recognising that different results will follow distinct pathways towards uptake.

2. Combining Individual and Joint Exploitation

TESTUDO considers both individual and joint pathways for utilising its results.

- **At the individual level**, partners are exploring how the results of their participation can support activities beyond the project. Depending on the organisation and the result, these pathways may include further research, technology transfer, integration into existing products and services, commercialisation or operational use. Methodologies and know-how can also inform future research and innovation. This approach allows partners to build on their expertise and pursue opportunities suited to the results they have developed. It also recognises the contribution of



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knowledge assets, which can retain value through reuse and adaptation even when they do not lead directly to a commercial product.

- **At the joint level**, the consortium has explored opportunities to combine complementary technologies. For critical infrastructure operators, the value of an individual tool also depends on how effectively it integrates with existing systems and supports operational needs. Capabilities in monitoring, detection, situational awareness and decision support may therefore benefit from coordinated development and integration. Joint exploitation offers a potential route towards more integrated solutions, subject to further development and appropriate collaboration arrangements. It can also provide a basis for continued cooperation between partners as new research and application opportunities emerge.

3. Building Pathways Towards Uptake

Identifying promising results is a step towards their future use. Exploitation planning also considers what may be needed to move them closer to adoption. Priorities include understanding potential users' needs, refining the value each result offers, and identifying opportunities for further development and validation. Alongside technical performance, future uptake may depend on practical considerations such as compatibility with existing systems, usability, and suitability for the intended operational environment.

Engaging with prospective users can help clarify these requirements and guide the next stages of development. It can also help partners assess where additional evidence or adaptation may be needed before a result is ready for wider use.

Depending on the outcome, next steps may include further testing, pilot activities, technology transfer, or follow-on research and innovation projects. These pathways will evolve as technologies mature and opportunities arise. Any wider application across critical infrastructure sectors would need to take account of the specific requirements of each setting.

The aim is to support informed decisions on where and how TESTUDO results can deliver practical value, while maintaining a realistic view of the work required to progress from research outputs towards adoption.

4. Creating Impact Beyond TESTUDO

TESTUDO's exploitation strategy aims to ensure that the knowledge, technologies and collaborative relationships developed during the project continue to generate value after the funded activities end. For some results, this may mean progress towards market deployment or operational adoption. For others, it may involve further research, integration into future solutions, or reusing knowledge and methodologies. These outcomes reflect the diversity of the project's results and the varied ways in which research can contribute to practice.



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Continued collaboration can support this process by maintaining connections among technology developers, researchers and potential users. Building on these relationships offers opportunities to refine results, explore new applications and carry lessons from TESTUDO into future initiatives.

The shared objective is to build on TESTUDO's achievements and to support their longer-term contribution to safer, more resilient critical infrastructure in Europe.



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