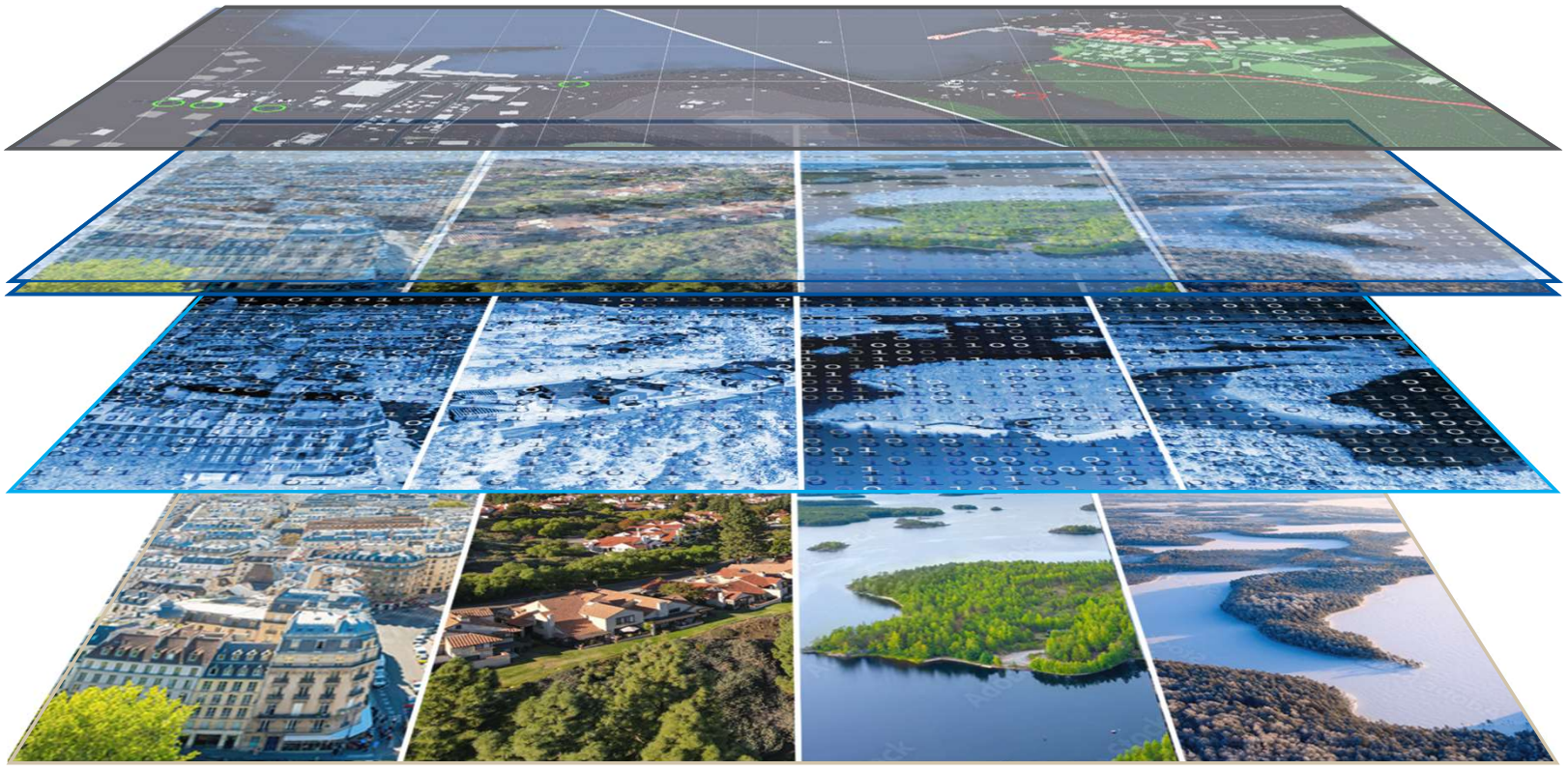

For more secure societies

eALLIANCE

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eALLIANCE provides solutions to global challenges

Global challenges

Development of defence technologies is currently **significantly behind** civilian technologies

Lack of joint interoperability between the defence and civil platforms is limiting the development

There is an urgent need for rapidly **reducing greenhouse gas emissions** in the defence sector

eALLIANCE addresses identified **challenges** and combines knowhow across the **civil-defence spectrums**

Challenges for Finland

Finnish defence sector is at risk of falling behind in the digital development, resulting to **missed business opportunities** for Finnish industries

Further **cooperation opportunities** for civil and defence technology companies are required

Dependencies on **external supply chains** and **technologies** are undermining the overall concept of comprehensive security in Finland

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The eALLIANCE
ecosystem for more secure societies

The eALLIANCE ecosystem will develop and integrate digital solutions across civil, security and defence technologies for introducing disruptive technologies for highly integrated mobility platforms.

It will combine civil and defence knowhow in the digital technologies for increased interoperability and GHG savings in the defence sector, generating new turnover.

eALLIANCE mission
is to integrate disruptive digital solutions across civil, security and defence technologies for more secure societies.

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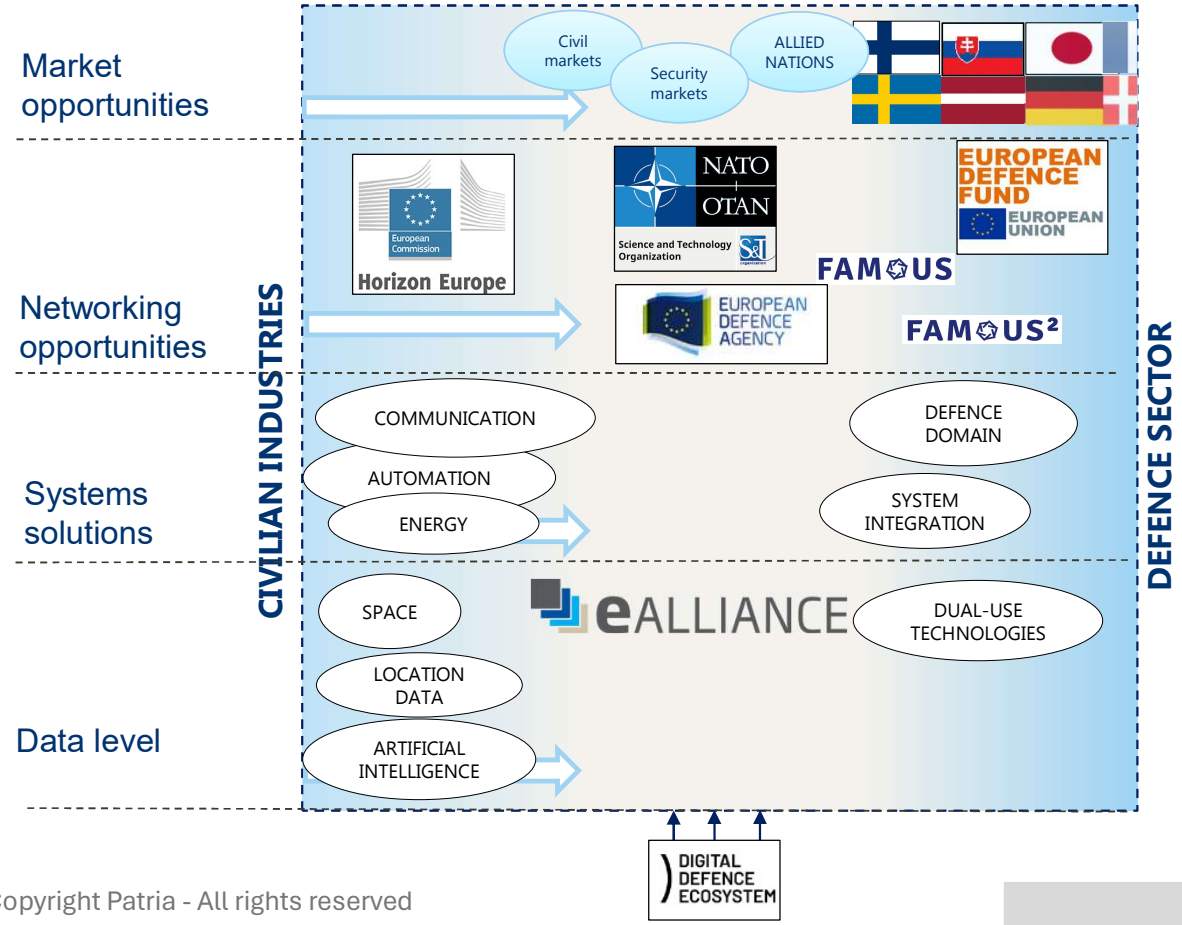
eALLIANCE's overall impact is explored on four levels

eALLIANCE will help to **bridge** the technology **gap** between **civil industries** and the **defence sector** in Finland.

The impacts will be explored on several levels, from **data level** all the way to domestic and **international market opportunities**.



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eALLIANCE key objectives

- Bring forth a digital systems-of-systems concept that enables tailored solutions, integrating emerging and disruptive technologies with existing solutions.
- Introduce ways to increase the sustainability of military platforms by introducing new digital solutions, simulation environment and vehicle performance & usage optimization methods.
- Provide a unique ecosystem for creating digital platforms enabling agile digital integration of multiple mobility solutions on both civil industries and the defence sector - a first of its kind in Finland and internationally.
- Promote Finnish state-of-the-art knowhow and result-oriented approach for international defence exports.
- Introduce innovative SMEs to the defence sector and defence projects, which are traditionally difficult to enter from the outside.

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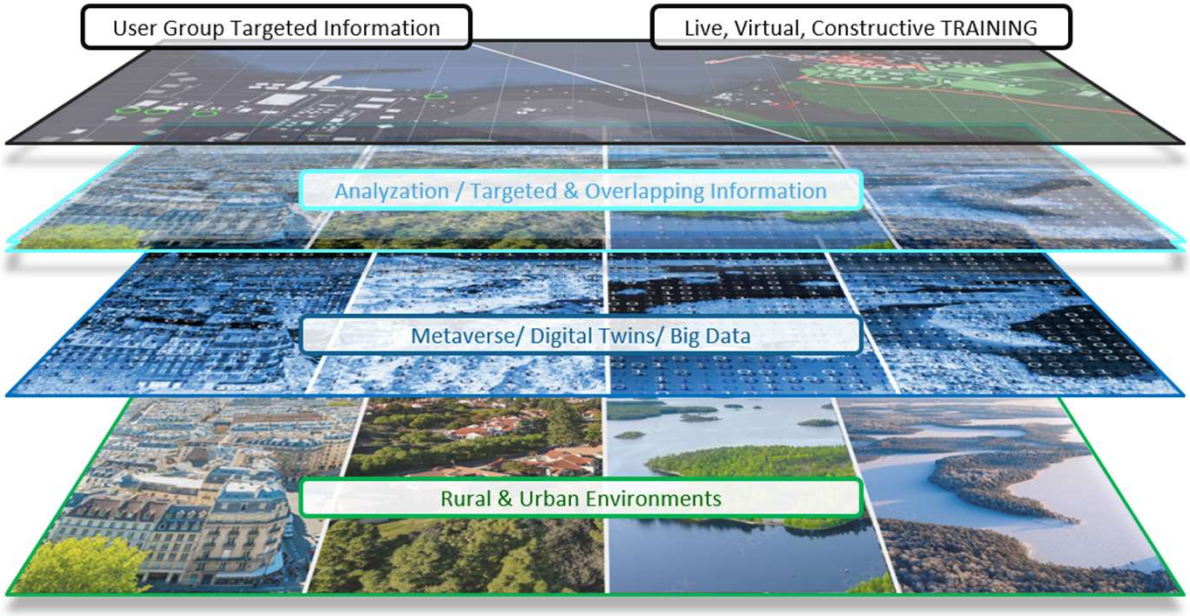
eALLIANCE develops solutions for holistic metaverse

The result of the collaboration between Patria and partners in eALLIANCE:

Integration of different vehicle systems and multiple data sources into a metaverse for advanced data sharing and processing, enabling convergence of systems



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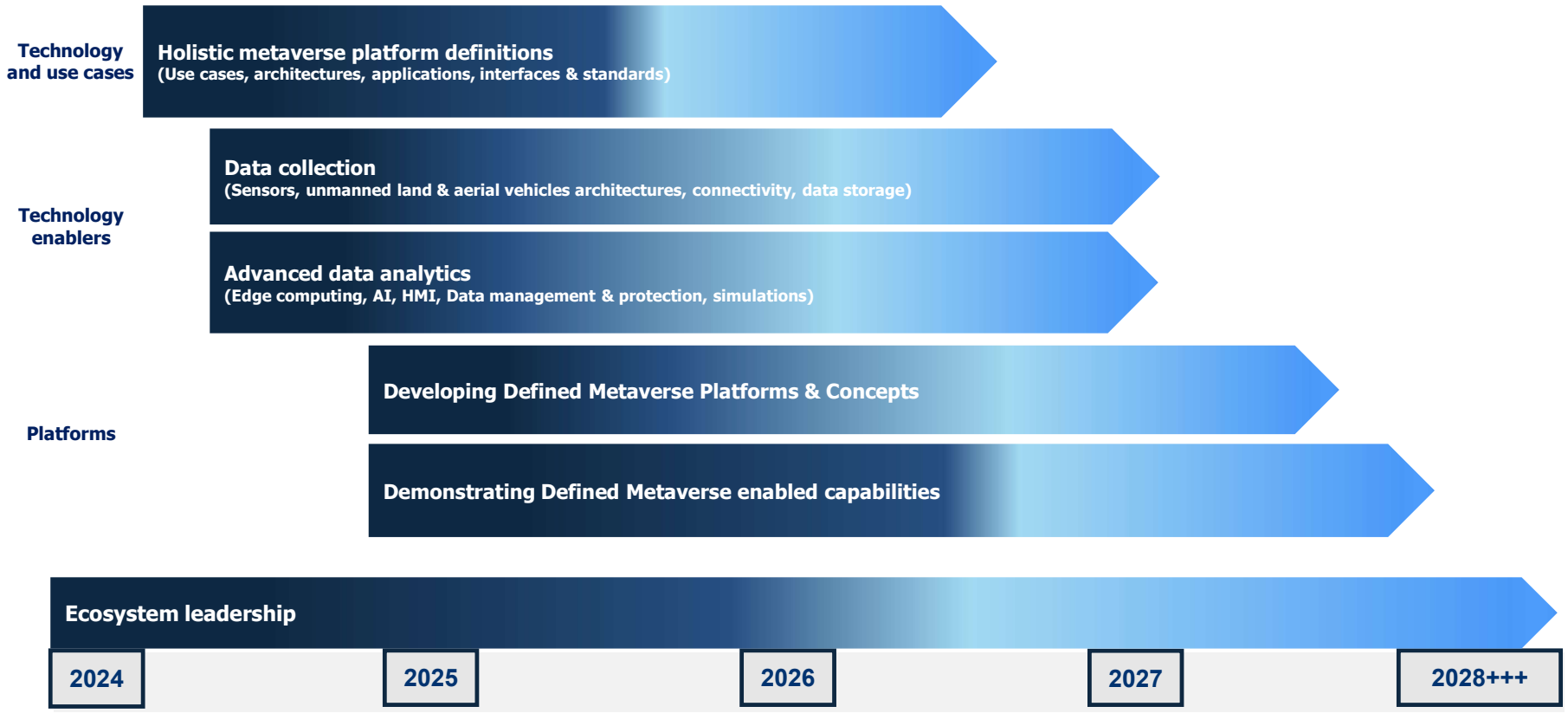
eALLIANCE roadmap 2024 - 2028



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Key benefits of the eALLIANCE programme

eALLIANCE will

Be an ecosystem with over 30 partner companies.

Bring together large established companies and agile SMEs in developing.

Enable nearly 200 M€ increase in combined R&D expenditure for the ecosystem partners.

Improve the possibilities of the Finnish companies to enter international defence markets and create opportunities for international export.

Create innovative digital solutions for defence and dual-use applications including various technologies such as virtual twins, user interfaces, metaverse and live-virtual-constructive environments, fleet management and optimization, AI, edge computing as well as 5G and 6G.

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