

Patria



For more secure societies

**eALLIANCE provides
solutions to global challenges**



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 greenhouse gas 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.

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

- 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.
- 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.

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.

Market opportunities

Networking opportunities

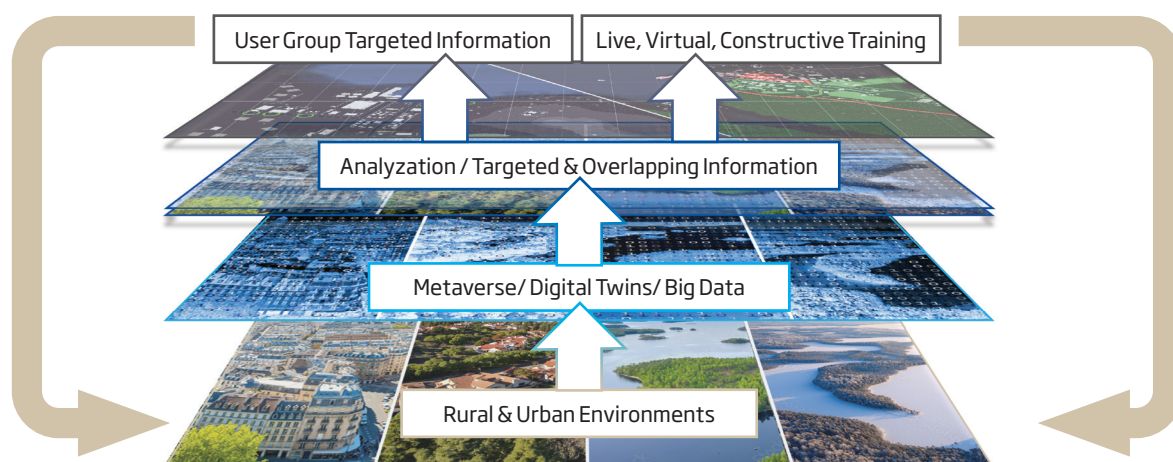
Systems solutions

Data level

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.



Civilian and defence sector companies joined forces in technological expertise

Boosting exports through partnerships

Patria's eALLIANCE ecosystem brings together technology expertise across the civilian and defence sectors on an unprecedented scale. This joint development programme seeks increased security and new breakthroughs in international markets.

The defence sector is one of the fastest-growing industries in the world today. While Finland possesses strong know-how in defence technology, companies in the civilian sector also have much to offer in the development of new innovations.

From these starting points, last spring, defence and technology company Patria launched the eALLIANCE ecosystem, which is a collaboration between civilian and defence sector companies on an unprecedented scale to develop new digital solutions.

The ecosystem enables large companies and SMEs to collaborate on innovative defence and dual-use technologies.

Lead company programme to boost exports

eALLIANCE is an ecosystem co-funded by Business Finland and consists of joint development projects by the different participants. Development projects within the eALLIANCE ecosystem are connected by the goal of creating transformative digital solutions to enhance information exchange and build digital environments.

New applications for civilian use

Different digital environments are an important theme in the eALLIANCE ecosystem. They offer opportunities for enhancing and optimising the logistics of military equipment, for example. It is possible to create digital twins of vehicle fleets and related systems, which can then be used for combining information from other sources. This makes it possible to monitor and optimise the vehicles' movements and condition.

In the development projects, ways to improve the off-road capabilities of vehicles using digital solutions are also being investigated. For example, by analysing and modelling previously collected data, the vehicle operator gains more detailed information about the terrain in the area of operations and can map the most appropriate route.

These types of digital solutions can also be used in civilian applications. They can improve the mobility of forestry machines in off-road conditions while taking the environment into consideration, for example.

SMEs benefit from Patria's networks

Patria is a strategic partner of the Finnish Defence Forces and in recent years, the company has grown rapidly in international markets. This growth has been accelerated especially by new orders for Patria's armoured vehicles.

Patria's international experience and networks are also available to Finnish SMEs.

The ecosystem is opening doors to newcomers to the industry and teaming up to create solutions that succeed in the global markets. Patria's networks also help other Finnish companies get a foothold in international R&D projects and supply chains.

Patria is closely involved in industrial participation in NATO member countries, for example. The company has also long been involved in many multinational R&D projects funded by the EU.

A good example of these is the joint European Future Highly Mobile Augmented Armoured Systems (FAMOUS) project for developing the technologies, performance and ground combat capabilities of future armoured vehicles. Finland serves as the leading country and Patria as the industrial co-ordinator in the initiative of nine countries and around 35 companies.

During the eALLIANCE programme, which is set to extend until 2028, Patria will significantly increase its investments in product development by nearly 100 million euros. Overall, the initiative is estimated to increase investments in research, development and innovation in Finland by as much as 200 million euros.



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For more information
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Patria - Extreme conditions embedded.

Patria

When if is not an option.