

Patria

Research and Technology Solutions

Reliable customer-oriented and field testing based problem solving research services



SUSTAINMENT SOLUTIONS

PROTECTED MOBILITY



SUSTAINMENT SOLUTIONS



DEFENCE AND WEAPON SYSTEMS



EXTREME SURVIVABILITY

Finland is known for high technology and extreme resilience. The harsh nature and limited resources have pushed us to learn and innovate efficiently. Thorough preparation for the future is the backbone of our culture.

Patria has grown from its Finnish heritage to a modern and international defence and technology company with over 100 years of experience. We use resources wisely, create innovative solutions and build intelligent systems that provide extreme survivability in any condition. We work with our customers throughout the entire lifecycle to ensure maximum value. Honest and straightforward co-operation is at the core of our work.

We build exceptional partnerships that last through critical operations. That's what it takes when you stand for your sovereignty.

Trust us, we have been there.

MISSION READINESS

Optimize your fleet availability with our intelligent maintenance and engineering services, and advanced digital solutions.

Our extensive experience across various platforms, and our commitment to your fleet on land, in the air and at sea, ensures ultimate fleet availability and mission readiness.

Innovative data solutions and services, with insightful visualizations and analytics, enable real-time, comprehensive situational awareness and a powerful mission control.

We know what it takes to keep your fleets optimized and mission ready!

Patria - Extreme conditions embedded.

Patria offers customer-oriented, problem-solving, and field testing-based research services that help customers derive value from technology solutions in their programs and procurements.

Patria's research experts have strong understanding of digital signal processing, machine learning, data analytics, and electronic warfare. Patria has over 20 years of experience in different modern technology research programmes.

Research programmes related to radar, acoustic, optics, electronic warfare and AI will begin from formalization of the research problem and will end to reports and demonstrations. Selected research results can be further refined and transformed into customer-specific technology solutions.

Patria's passive sensor product family is the proven statement of our ISTAR technology know-how. Our research group has experience from public research to very high security classification research.

Patria has premises to support separate security classification levels. As part of Finnish research ecosystem Patria has an active role in national co-operation with other companies and topic related universities.

Patria is also a trusted European defence innovator with a strong footprint in EU and NATO research cooperation, actively contributing to major EDA and EDF programmes and participating in numerous large multinational consortia – including some where Patria also holds a leading role.

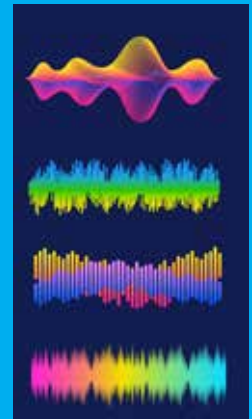
Electromagnetic Spectrum Dominance

Skills based on Patria products

- New surveillance capabilities
- Passive radar
- Electronic intelligence
- Electronic support measurements
- Electronic warfare and passive operations

Research continuum on

- Air surveillance planning
- System performance modeling and CONOPS
- Radar cross section modelling
- Radar signal processing
- Physics and kinematics modelling
- Sensor fusion



End-to-end research capabilities from analysis to operational support

Acoustic research in sea domain

- Multi-decade experience from theoretical analysis to product deliveries to all set of questions

Operational analysis

- Self-implemented simulation capabilities from strategic planning to debriefing

Cyber intelligence research

- Modern rapid flow of unstructured information requires modern approaches in data processing

Electronic warfare domain

- Customized RF and EO test systems for prototyping, research, HWIL and training

Behavioral sciences

- Human-Machine-Interfaces (HMI)
- Service Design and Situation Awareness Oriented Design (SAOD)
- Science and Technology Studies (STS)



Multidomain autonomous systems and AI

Unmanned systems

- Mission management systems
- Mission simulations and CONOPS
- Route planning
- Robust navigation
- Counter-UAS
- Swarming
- Computer vision and edge AI

Intelligent systems

- RF emitter classification and recognition using deep learning
- Acoustic based recognition
- Machine learning based video analysis
- Anomaly and threat detection in cyber intelligence



Patria

When if is not an option.

www.patriagroup.com