

PRESS RELEASE

PERUN

Launch from Central Air Force Training Range in Ustka

System Validation
& Research Payloads

Mission
Overview



SpaceForest Announces Next PERUN Rocket Test – Launch from Central Air Force Training Range in Ustka Planned for Autumn 2025

Gdynia / Poland, October 6, 2025

SpaceForest announces the third test flight of the PERUN suborbital rocket, scheduled for autumn 2025 from the Central Air Force Training Range in Ustka, Poland. The mission, conducted under the Boost! programme in collaboration with the European Space Agency (ESA), will aim to reach a partial nominal altitude and marks another milestone in the development of Polish and European space technologies including the expansion of offerings in space transportation.

The mission's objectives include validating the rocket systems, integrating payloads with the launch platform, and conducting scientific and technological experiments under real launch and suborbital flight conditions. This flight will also achieve the first of four milestones under the Boost! contract with ESA, supporting the expansion of European space transportation capabilities.

Launching from a Polish range is an important step in developing advanced rocket technologies in Poland. The event also raises public awareness of the country's space sector potential and demonstrates that SpaceForest's safety procedures meet the highest international standards, recognized by both the Ustka range authorities and the European Space Agency. The mission will also provide critical experience for future launches from international platforms.

Key Mission Objectives:

- **Demonstration of PERUN's launch and safety procedures**
- **Execution and recovery of scientific experiments during suborbital flight**
- **Validation of payload integration with the rocket**
- **Verification of the thrust vector control system**
- **Demonstration of the onboard safety system with instant mission abort**
- **Study of physical launch and flight conditions, including vibration and acceleration**

Mission Details:

- **Launch window:** Autumn 2025
- **Location:** Central Air Force Training Range, Ustka, Poland
- **Payload:** Scientific and test equipment prepared by academic, research and commercial partners

Research Payloads

For the first time in Polish space technology history, research payloads and experiments will fly on a domestically developed rocket. The test will provide an opportunity to study the effects of launch and suborbital flight and to verify the integration quality of experiments with the payload section after laboratory qualification.

Payloads Include:

- **THOR** - study of acceleration effects on biological culture media
- **Lab-on-a-chip** - cultivation of living bone cells in microscale biological systems
- **RESQ-Stab** - testing the stability of the RESQ™ cuff compression force under suborbital flight conditions
- **AstroFarms Kombucha** - research on SCOBY cultures in suborbital flight conditions
- **Toraf Seeds** - study of germination under extreme launch and flight conditions
- **PLUTONIC** - testing an alternative time receiver **using** the 225 kHz radio signal under suborbital flight conditions.
- **SpaceForest Advanced Electronics** - verification of durability and quality of space-grade components
- **Commercial payloads** - demonstration and promotional activities

Join Upcoming PERUN Missions

SpaceForest invites scientific institutions, research teams, and technology companies to collaborate on experiments in future PERUN rocket flights. Upcoming missions provide a unique opportunity to test technologies and conduct research in real launch and suborbital flight conditions, including microgravity and near-space environments.

More information about rocket: perunrocket.com

Central Air Force Training Range, Ustka

Central Air Force Training Range in Ustka is a protected military facility located on Poland's central Baltic coast. It features a 20-kilometre safety zone and dedicated airspace, ideal for safe rocket launches and payload recovery from the Baltic Sea.

With these conditions and the support of the range command, Ustka is emerging as a natural location for a Polish spaceport, potentially becoming a strategic hub for suborbital launches in Central Europe. This offers the opportunity to diversify Europe's network of launch sites and provide cost-effective access to space for universities, institutions, and companies in the region.

SpaceForest – Polish Technology in Service of Space Exploration

SpaceForest, a private technology company based in Gdynia, Poland, has been operating since 2004. The company specializes in advanced rocket, radar, and microwave technologies, as well as the design and production of space-grade electronics.

PERUN suborbital rocket, fully developed in Poland, is a reusable launch vehicle created with support from the European Space Agency (ESA) and the Polish Space Agency (POLSA).

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Press Materials: spaceforest.pl/media

PERUN Community Shop: shop.perunrocket.com