

KeplerKoord Pitch Presentation

RPCS (Real Coordinate Projection System)



TEAM



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Where do we come from?

- **Presentation at the ECOMAT Centre**, ARIANE 6 Programme of the European Space Agency, (Bremen, Germany. 2024).
 - **Paper at the IX International Congress of Dual-Use Technologies**, (Seville, Spain. 2024).
 - Presence at the **Space Tech Expo Europe** (Bremen, Germany. 2024).
 - Consolidated as a New Space Startup, round table "***New Startups for the New Space***" at the Transfiere FYCMA Forum, (Malaga, Spain. 2025).
 - **The pre-NATO Summit event**, "Securing the Future: Innovation for Resilience" (Netherlands, The Hague. 2025).
 - Submission to the European Commission's **EIT Raw Materials Mining** Programme (Brussels, Belgium. 2025).
 - Winners of the **Andalucía Road Show** 2025 startup contest. Granada, Spain. 2025).
 - Presentation at the Dual Technologies Vertical at **Alhambra Venture**.
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Where do we come from?

- We reached the semifinals of the Shanghai Global Talents startup competition (Shanghai, China, 2025).
 - We were invited by Foreign Comparative Testing to present our RPCS technology (US, DoW, 2025).
 - Inclusion in the Spanish port ecosystem through State Ports and the Directorate General of the Merchant Marine (Madrid, Spain, 2026)
 - Port of Almeria designated as a port for the implementation of RPCS technology. (Almeria, Spain, 2026)
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Where do we come from?

- Invited to provide feedback on the European Space Agency's technology harmonization program in (2026):
 - Embedded avionics systems
 - Ground station technology
 - On-board computers, data handling systems, and microelectronics
 - On-board software
 - Radiation environment and effects

Where we were invited to comment on each of the above topics:

5. State-of-the art in Europe
 6. Technology trends and transfer opportunities
 7. Mission needs and market perspectives
 9. Roadmap
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Where do we come from?

NATO SUMMIT, The Hague, Netherlands



Winners of the Andalusia Startup Competition



What problem do we solve?

Modern navigation and autonomous systems rely on coordinate frames and GNSS, which become unreliable in environments where satellite signals are unavailable, degraded, interfered with, falsified, or geometrically limited. Therefore, underground mines, tunnels, densely populated urban areas, indoor industrial facilities, Arctic operations, aviation, and defense systems depend on combinations of GNSS, INS, SLAM, radar, and local Cartesian coordinate systems.

These technologies can provide accurate measurements, but on their own, they do not solve the underlying reference frame problem: maintaining a consistent spatial frame across different sensors, operational areas, and environments without GNSS coverage. Local systems can accumulate drift, conventional map projections introduce scale and geometric distortions, and transitions between local and global reference frames create interoperability issues.

Customer

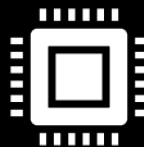
Our primary customers are organizations that operate systems where accurate, resilient, and interoperable positioning and trajectory information is mission-critical.

Our initial customer segments include:

- Satellite operators and constellation managers.
 - Space traffic management and space situational awareness providers.
 - Aerospace and aircraft manufacturers.
 - Defense organizations and defense technology integrators.
 - GNSS, PNT, and navigation system providers.
 - Earth observation and geospatial intelligence companies
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GPS

(3D)



Is your GPS 100% secure and accurate?

- Integrity?

- Resilience?

- Interoperability?

Customer Experience?

+ 2,028.8 M\$

**Aviation losses in
2023**

Integrity

Electronic Warfare: Jamming & Spoofing

- Deliberate blocking of the GPS signal

Relevant International Notice:

“Von der Leyen's plane suffers GPS interference “

www.bbc.com/news/articles/c9d07z1439zo



President of the EU Commission

Environmental factors

- **Solar Storms: Block the atmosphere**
 - **Orbital design: GPS is not present at the poles**
 - **Underground: Indoor mining does not have access to GPS**
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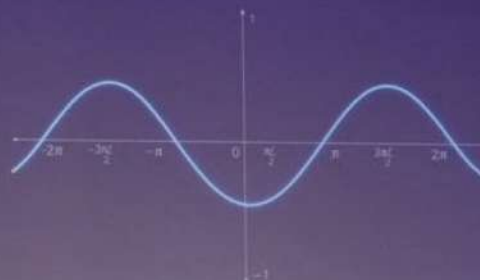
Resilience

NEW
SPACE & SOLUTIONS

and rotation processes? Well, that's
what we got.

RPCS

$$T_{(\text{Tierra})} = f(\pi)$$



Donde te contamos
lo que el New Space
hace por nosotros

II EDICIÓN
MIL C
MIL C
MIL C

NEW
SPACE & SOLUTIONS

AUDITORIO
CARTAYA

Donde te contamos
lo que el New Space
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Keplerkoord solves the century-old problem of cartographic projections with a new geodetic model

Earth 3D



Earth 2D (Map)



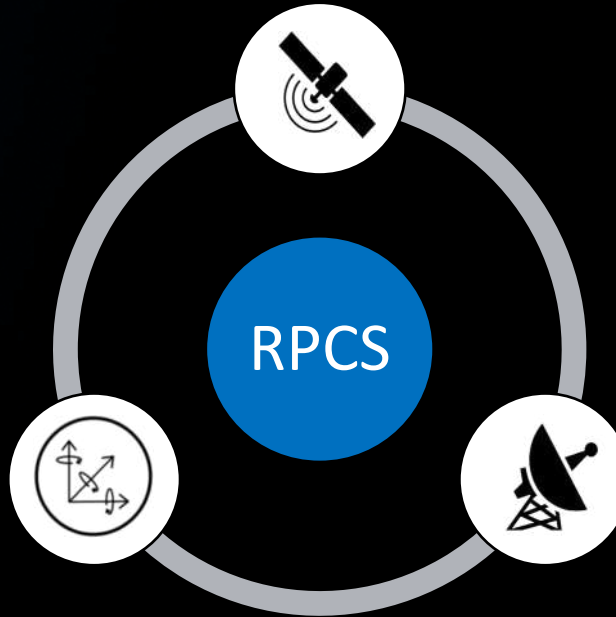
Real Coordinates



Real distances

Interoperability

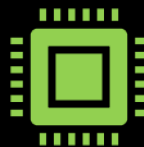
Synergy



Multi-source verification: Cybersecurity

A fail detected in GPS is supplemented by radar & inertial system

GPS + RPCS



KeplerKoord

Thank you very much

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