



University of Rijeka, Faculty of Maritime studies

PROJECT ACRONYM AND TITLE: Development of an Intelligent Digital Sextant (RIDS)

FUNDING PROGRAMME: Operational Programme Competitiveness and Cohesion 2021-2027 (IRI S3 – Increasing the development of new products and services arising from research and development activities)

PERSON RESPONSIBLE: David Brčić, PhD, Associate Professor

FINANCIAL DATA

Grant Amount	Overall funding assigned to PFRI
238.710,08 €	29.426,32 €

SUMMARY

The project focuses on developing the first autonomous navigation device based on digital celestial navigation that operates completely independently of GNSS. This effectively addresses the risks of satellite signal disruption and jamming, ensuring significantly higher safety and resilience in maritime navigation. The main objective of the project is to strengthen the capacity of Croatian small and medium-sized enterprises (SMEs) for the development and commercialization of high-tech products, which is achieved through the development and validation of an intelligent digital sextant with moving parts (TRL 8). This innovative product will ensure a higher level of navigation safety and enable the company to position itself successfully in the international market. The project targets B2B and B2C groups, and its key business contribution lies in opening a new market niche, increasing revenue and exports, and strengthening the company's long-term competitiveness.

Start date	End date
01.06.2026.	01.06.2028.

PARTNERSTVO

Br.	Partner organization	Country	Role
1.	STOTZ MEHATRONIKA d.o.o.	Croatia	Lead partner
2.	University of Rijeka, Faculty of Maritime Studies	Croatia	Partner
3.	KIBERNETIKA d.o.o. for production and trade of electronic components and devices	Croatia	Partner

WEBSITE: /



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ADDITIONAL INFO:

PFRI project team members:

- David Brčić, PhD, Associate Professor
- Alen Jugović, PhD, Full Professor
- Đani Šabalja, PhD, Associate Professor