



Socio-economic impact assessment of the ARTES 4.0 programme

Case study portfolio

European Space Agency

13th December 2024

EPTOS ARTES Core Competitiveness

Electric Propulsion Transfer Optimization Software

- A complete flight dynamics product for optimal satellite orbital transfer using electric propulsion, supporting full-electric and hybrid strategies



LEVERAGING ESA'S SUPPORT

- Verification of user requirements through ESA's connections with commercial GEO satellite operators
- Technical advice and user feedback provided through regular meetings
- €200K project with 50% ESA funding
- Supported TRL development of a product to satisfy market demand



COMMERCIAL SUCCESS & GROWTH

Incorporated into launch and early phase orbit application of flight dynamics solution



3-4x growth in engineers from 2014-2024

€500K ESA funding to pursue project OPEPOR



Solution is part of GMV COTS *focusleop*

EXPANDING EUROPEAN CAPABILITIES & COLLABORATION

- Development of knowledge, roadmaps and experience in Romania
- A consortium of space partners including Swiss, Estonian and Portuguese contributors developed as a result of this ESA collaboration

TECHNOLOGY

APPLICATION

END-TO-END SYSTEM



