



Socio-economic impact assessment of the ARTES 4.0 programme Case study portfolio

European Space Agency ^{13th} December 2024

GRASP ARTES Core Competitiveness

Long-standing collaboration with ESA accelerating growth for Danish antenna modelling company

- Revolutionising antenna design process using fast RF prediction models

LEVERAGING ESA'S SUPPORT

- Long-lasting partnership delivering 10 successful ARTES projects from 2011-2023
- ESA framework supports the integrated development of technology across multiple projects
- **De-risking technology**, facilitating new and riskier projects
- Access to broad sector insights, technical expertise, customer data, access to facilities, and satellite models

TICRA

"Without ESA, TICRA as we know it would not exist."

COMMERCIAL SUCCESS & GROWTH

100% employment increase 2015-2021







Fast revenue growth since 2019



Clear correlation between increased annual company revenue and Danish subscription to ARTES

SIMPLIFYING ANTENNA DESIGN

TECHNOLOGY

- Simultaneous analysis of reflectors and feed chains, reducing development time and enhancing performance
- Single-tool solution for end-to-end radio frequency design, crucial for space-borne reflector antennas
- Fast modelling and high accuracy optimisation to meet space industry requirements

APPLICATION > END-TO-END SYSTEM

