



# Socio-economic impact assessment of the ARTES 4.0 programme

## Case study portfolio

European Space Agency

13th December 2024



# NPT30-I2-1U ARTES Core Competitiveness

## French SME ThrustMe becomes world leader in sustainable electric thruster technology

- Demonstration of world's first solid Iodine electric propulsion system for improving sustainability of the space ecosystem




### LEVERAGING ESA'S SUPPORT

- Essential technical expertise and guidance
- Critical funding for qualification, testing and demonstration
- Facilitated workshops that accelerated development, and offered specialized insight and collaboration
- Amplified visibility within space industry through networking initiatives, connecting with potential customers and partners

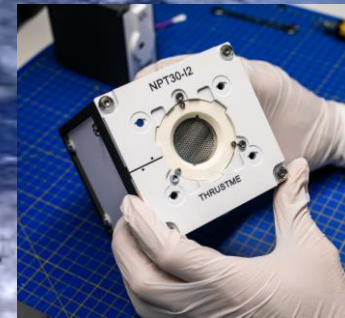
*"The NPT30 system has exceeded our expectation in every aspect. Its compact design, high efficiency, and ground-breaking use of iodine as a propellant have provided us with a reliable and sustainable solution for our satellite constellations"*  
- Major Satellite Constellation Client.

### COMMERCIAL SUCCESS & GROWTH

-  In-orbit demonstrations Dec 2020 and Jan 2021
-  Secured ESA GSTP contract
-  Awarded CNES SME label in 2022
-  >250 orders received, 30 global clients
-  Ramped production to industrial scale
-  150 systems delivered, 85 launched

### PIONEERING SUSTAINABLE SOLUTIONS

- Solid Iodine is cheaper, more abundant, and safer than pressurized gasses for electric propulsion
- Development of important technology for extending mission lifetimes, and for end-of-life removal preventing space junk accumulation in growing space industry
- Simplifying integration with satellites – prefilled propulsion system complete with subsystems



TECHNOLOGY

APPLICATION

SERVICE



THE EUROPEAN SPACE AGENCY



