



# **Socio-economic impact assessment of the ARTES 4.0 programme**

## **Case study portfolio**

European Space Agency

13th December 2024



# Hybrid Connex ARTES Space for 5G

Digital Ambulance of the Future, a joint NHS and commercial technology partnership

- Relieving pressure on the emergency health service by connecting ambulances to satellite communications



## LEVERAGING ESA'S SUPPORT

- €5.7 million of ESA funding to create the first prototype ambulance
- Supports the integration of 4G, 5G, and satellite networks into the technical infrastructure
- Access to ESA's 5G/6G Hub to showcase prototypes



*"This demonstrates how the ARTES 5G/6G Strategic Programme supports very innovative technology solutions while having a significant societal impact"*



## TECHNOLOGY SUCCESS

Pilot study at East of England Ambulance Service NHS Trust



Cellular connection in 88% of situations where stable connection not achieved previously

Consortium with NHS AGEM, Livewire, Satellite Applications Catapult and Vodafone



## EXPANDING NATIONAL CAPABILITIES & COLLABORATION

- Enables real-time communication between paramedics and healthcare specialists
- Reducing inefficient use of assets and poor communication to relieve pressure on the UK's national health service
- Significant improvements to ways of working, costs and patient care
- Positions the UK as a leader in leveraging space technology for real-world applications

TECHNOLOGY

APPLICATION

END-TO-END SYSTEM





