

ADACORSA

Airborne data collection on resilient system architectures

Short overview of the project

# ADACORSA – Why – what – how

ADACORSA is a project to develop sensor and communication technologies for drones, with the strategic aim of:

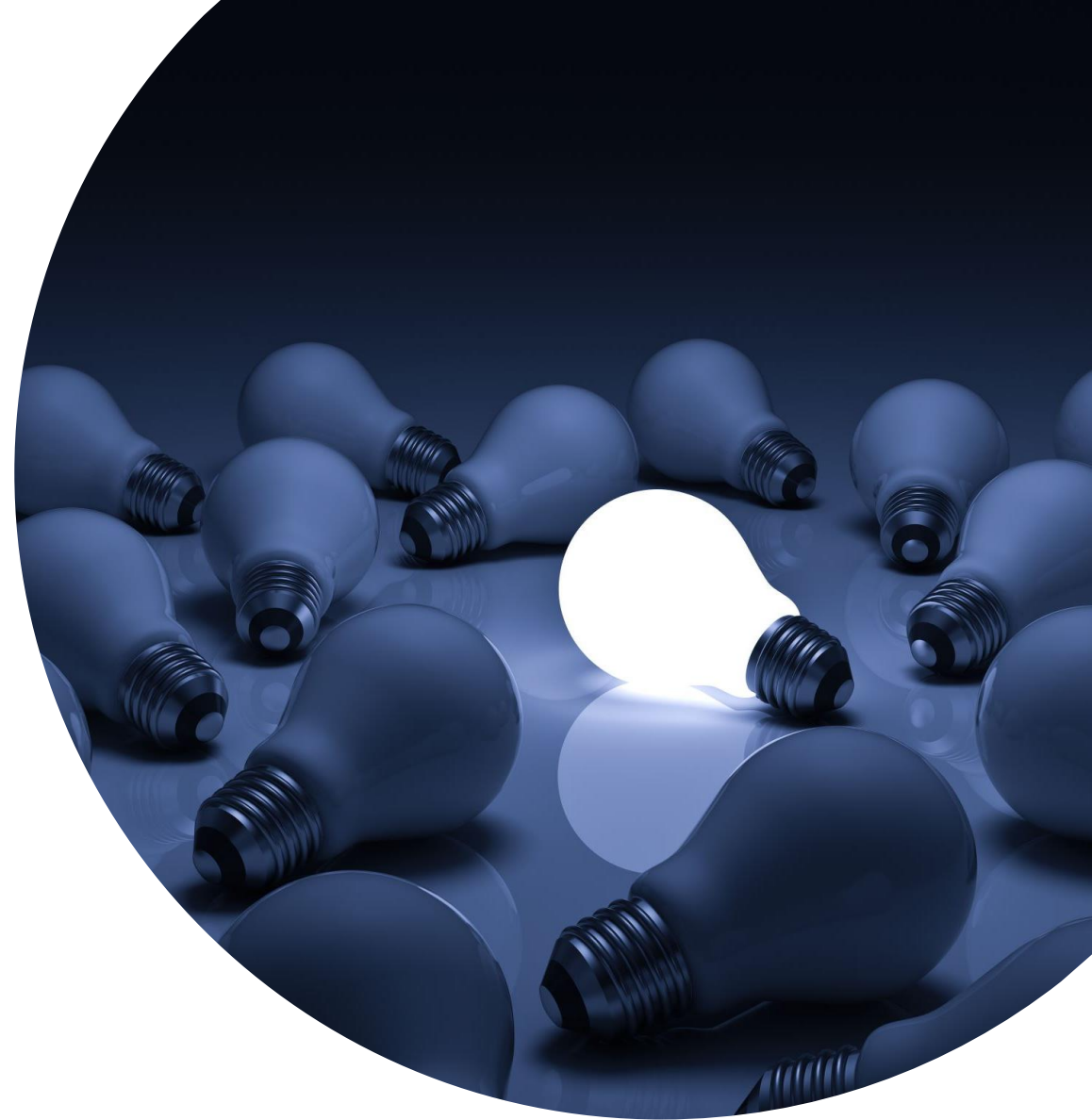
- Helping unlock potential in long-range drone operations
  - Beyond visual line of sight
- Contributing to higher public and regulatory acceptance of drone use
  - More robust and reliable technologies
  - Better sensors via fusion and more reliable communications via integration of data links
- Further strengthen integration of automotive and drone industry
  - World-class sensors from automotive industry
  - Commercial off-the-shelf data communication technologies and services
  - Design for automotive-style efficient production of components and subsystems
- Align with new and upcoming European and world-wide regulations for drones
  - Focus on the Specific Category via approvals under the SORA procedure
  - Technical focus on components and systems for mitigation of air risk in higher air risk classes



# Project vision

Provide European technology to render drones as a safe and efficient component of the mobility mix, with differentiated, safe and reliable capabilities in extended beyond visual line of sight (BVLOS) operations.

To reach the vision, the available technologies will be explored. This includes the option of transferring and extend automotive sense and control technologies, as well as commercial off-the-shelf communication technologies, applying innovative security features to reach adequate safety levels for modern unmanned aviation.



# Project mission

- Develop technologies for operations beyond visual line-of-sight
  - Regulatory framework: EASA Specific Operations Risk Assessment (SORA)
- Develop technologies that contribute to increased trust in civilian drone operations
  - Higher reliability of data and communications increase trust
  - Increased trackability of drones and transparency of operations
- Bring relevant automotive technology to the drone industry
  - Cost-effective and tested on ground
- Leverage European primacy in automotive technologies and strengthen industry's capability in cross-domain technologies



# Motivation for the European ECS industry

Long-range drones is an important topic for European competitiveness:

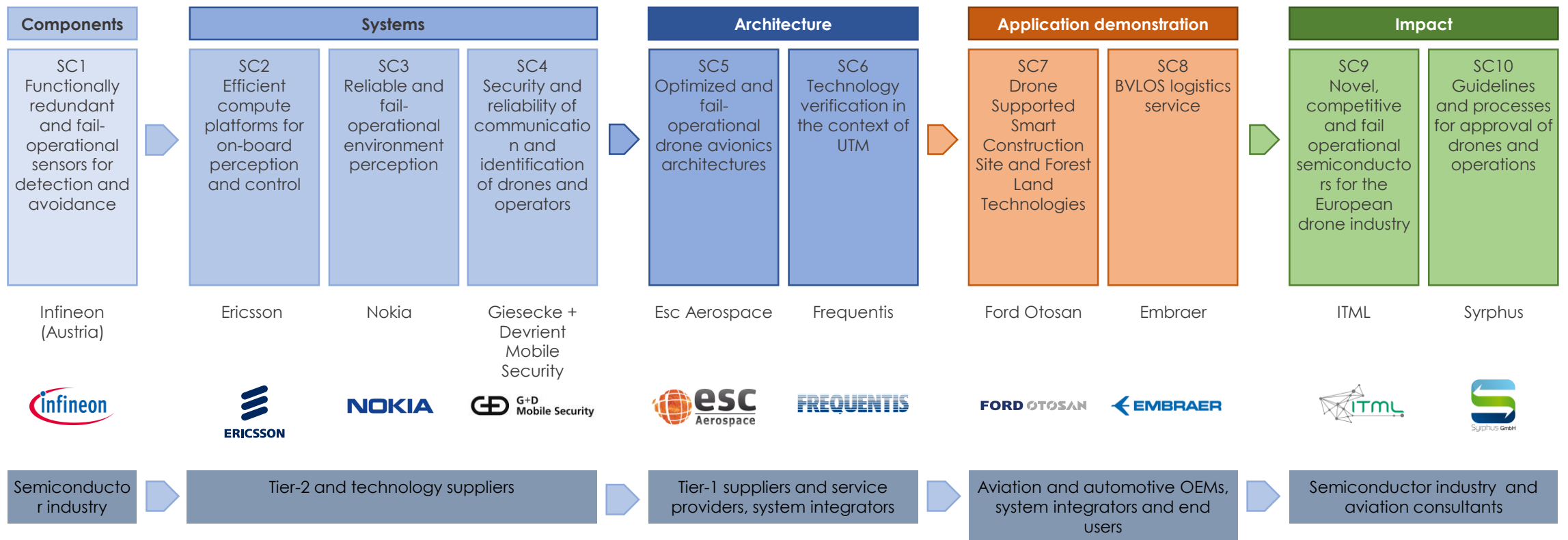
- Urban air mobility is gaining acceptance among European cities
  - Supported by certified drones and common regulations
  - Mobility of goods, e.g., parcel delivery up to 5 kg
- Drones are the fastest-growing aviation market segment
- Untapped economic potential in long-range operations to be unlocked
- Competitive manufacturing requires automotive-style supply chains
- Europe has the right mix of research, manufacturers and regulators



# Participating countries



# ADACORSA – Supply chains + leading partners



# Contact information

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