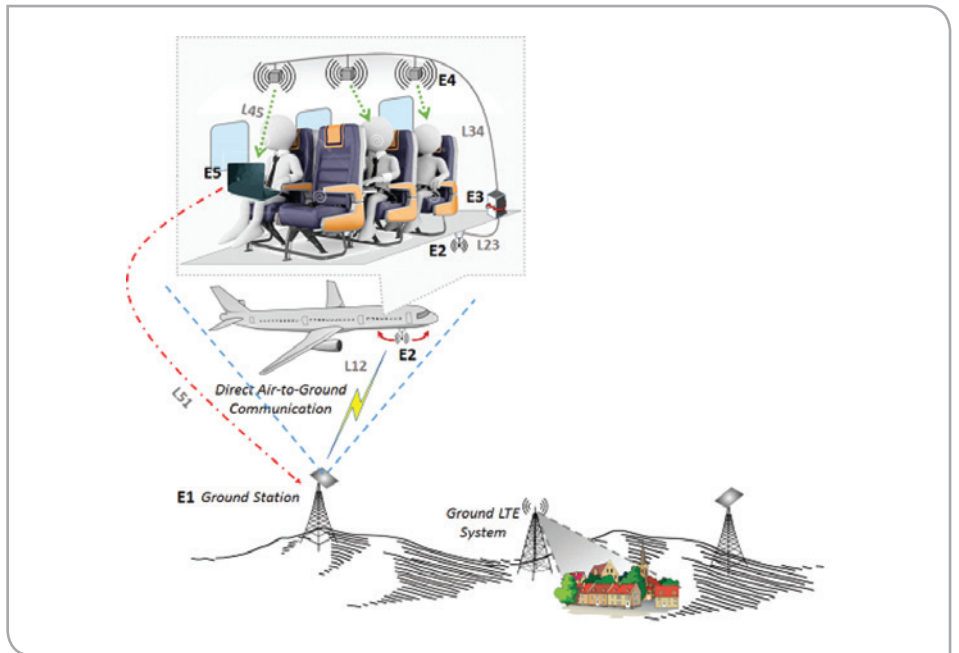
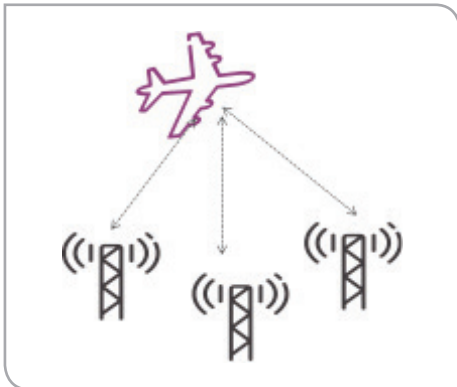


ICARO-EU

Digital Infrastructure

ICARO-EU



Seamless gate-to-gate mobile broadband connectivity for aircraft passengers

ICARO-EU is an integrated gate-to-gate direct air-to-ground communications system that seamlessly connects network infrastructures of flying vehicles/platforms with the ground cellular networks to provide broadband services and cellular coverage to aircraft passengers.

Today passengers do not have the possibility to use their mobile phones for broadband connections when they are on board the aircraft. Few airlines provide WiFi access after the take-off but this technology shows low performance when the number of user per access point connection is high.

ICARO-EU aims to provide gate-to-gate aircraft connectivity integrated through high capacity DA2GC system with ground cellular networks. It will enable high speed broadband simultaneously to all passengers in the aircraft flying in Europe giving users choice of using LTE and/or WIFI and the chance to walk gate-to-gate without losing connectivity.



Key Success Factors/USPs

- Seamlessness: Mobile broadband service will not be interrupted from gate to gate, nor require user intervention to maintain connectivity
- Performance: 2-3 Mbps per customer, 400 Mbps per aircraft
- Direct air-to-ground connectivity with advanced radio technologies



Target Markets

- Telecommunications equipment vendors will provide DA2GC components to aircraft vendors
- The aircraft vendor as the business champion of this activity will integrate the ICARO-EU system and its customers will be airline companies
- The ICARO-EU system allows mobile operators to extend their business and provide new services



Status/Traction

- ICARO-EU has developed a business model in 2016 since the relation between actors and the value chain is complex, and it is necessary to have consensus between partners on these issues
- Ericsson as telecommunications vendor will provide radio connectivity equipment to Airbus
- Airbus as business champion will coordinate the integration of the ICARO-EU system and provide it to airline companies



Road Map

2017

- Integrated DA2GC, cellular network, satellite connectivity system with Quality of Service (QoS) enhancements

2018

- Flight tests



Team

Çiçek Çavdar, ICARO EU Activity Leader
cavdar@kth.se

With partners Airbus, Create-Net and Ericsson



Looking for

- Customers: Airline companies
- Enablers: Novel radio technologies, standardisation activities for spectrum harmonisation within EU
- Partners: Aircraft antenna design experts/companies

ICARO-EU



Contact us here:

+46 87 90 43 30

ICARO

c/o ELECTRUM 229
Isafjordsgatan 22
164 40 Kista
Sweden