

Composite Airframe COMP-AIR

Project proposal for the FP7 3rd call
AAT.2010.1.1-2. Aerostructures
Coordination Action (CSA-CA)

Presentation of Corvus Aircraft Ltd.

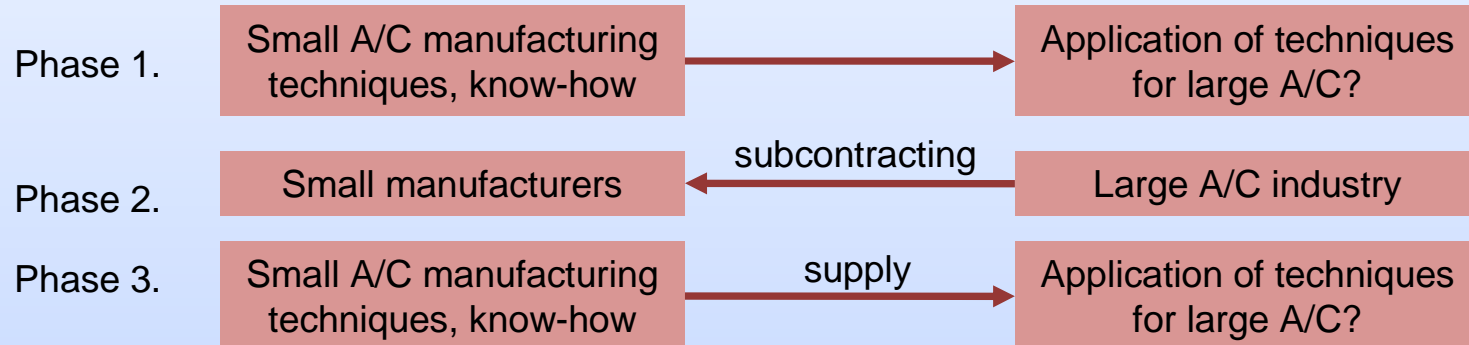
- ***Corvus Aircraft Ltd*** is the leading general aviation aircraft producer of Hungary (staff: ~50, technology: pre-preg)
- Development of light aircraft, made of fibre reinforced composite materials. Complete design, manufacture and test of structure, aerodynamics and electricity. Installation of engine and avionics.
- Types produced: Corone, Phantom, Phantom (retractable gear), Racer



Project topic: AAT.2010.1.1-2. Aerostructures

- Call text:
Advanced concepts and technologies for increased and optimised use of light-weight metallic, composite materials, including metal laminates, in primary structures; advanced concepts and techniques for application of 'smart' materials, multi-functional materials, micro and nano-technologies; aero-elasticity, 'smart' structures and morphing airframes
- Comp-Air concept: Mapping the potential technology transfer from the small aircraft manufacturing to the large aircraft industry in order to be able to join the supply chain
- Topic/domain: composite structures

Project idea



- Expected achievements:

1. Common solutions for small composite suppliers (and independent small aircraft manufacturers) to integrate their know-how in the supply products
2. Cost-efficient solutions for the large manufacturers to subcontract composite parts production to European composite manufacturer SMEs
3. Exploration of further possibilities how the GA factories may become suppliers of larger aircraft manufacturers (supplier programs and quality management issues)

Needs

- Actual consortium structure:
 - Corvus Aircraft (manufacturer, Hungary)
 - REA-Tech Ltd. (aerodynamics and structures R&D, Hungary)
 - Slot Consulting (dissemination, servicing partner, Hungary)
- We need:
 - Composite manufacturers, part manufacturers
 - Large aircraft manufacturers
 - Universities and research centres in the field of composite structures and production processes

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