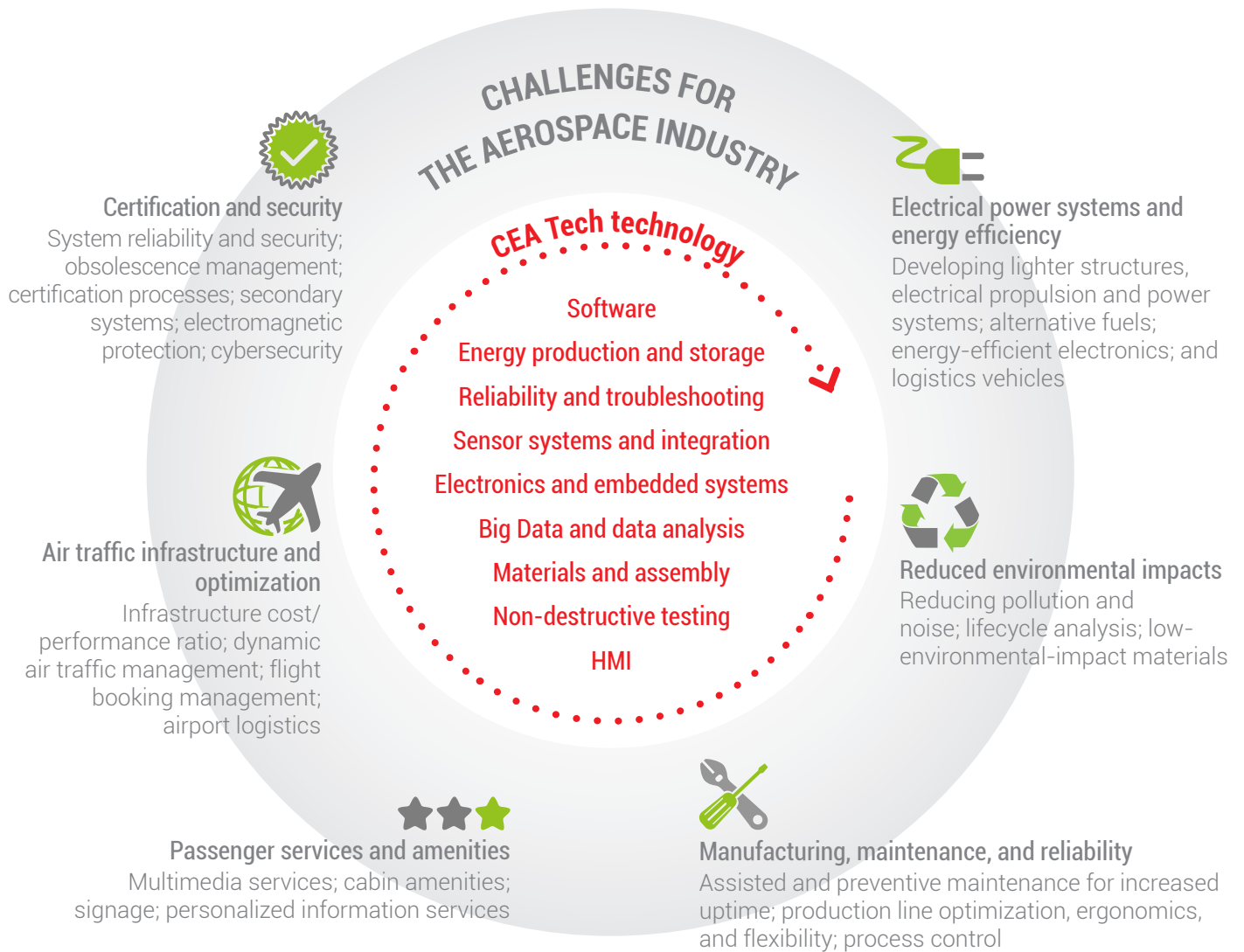


FROM RESEARCH TO INDUSTRY

cea tech

CEA TECH SERVICES FOR THE AEROSPACE INDUSTRY

Technology for the challenges facing the aerospace industry:



CEA Tech can help the following businesses:

- Aircraft and aircraft component manufacturers
- Airlines
- Certification organizations
- Airport and infrastructure operators
- Logistics companies



Here are some of the ways CEA Tech can support your development:



***Energy production,
recovery, and storage***

Energy production systems (batteries, fuel cells, energy recovery systems); charging equipment; electric propulsion systems

Energy-system management

Reducing the consumption of auxiliary systems; optimizing and balancing energy systems (such as propulsion)

***Electronic components and
architecture***

Integrated circuit and system architecture (RF, digital, near-sensor, GaN-based power electronics); secure-circuit design; low-power electronics; systems-on-chip

***HMI (virtual and
augmented reality, OLED)***

Flight instrument panels; pilot assistance systems; augmented vision systems for maintenance; multimedia interfaces for passengers; low-power displays; training interfaces

Non-destructive testing

Manufacturing-defect and wear detection

***Heterogeneous sensor
integration and management***

Monitoring aircraft mechanical structures; measuring environmental indicators and pollution; seating comfort

Materials and assembly

Reducing the weight of structural components to reduce costs; improved material properties (thermal, mechanical, etc.)

Cable diagnostics

Onboard troubleshooting or on-ground maintenance of electrical cable networks

***Embedded software and
systems design***

Software security and reliability; fault detection; electronic components for embedded systems

Vision systems (IR, THz)

Passenger and baggage scanning and security

Robotics and cobotics

Operator assistance for loading and unloading

***Data analysis and
expert systems***

Predictive maintenance; engine monitoring; air-traffic monitoring

...

...