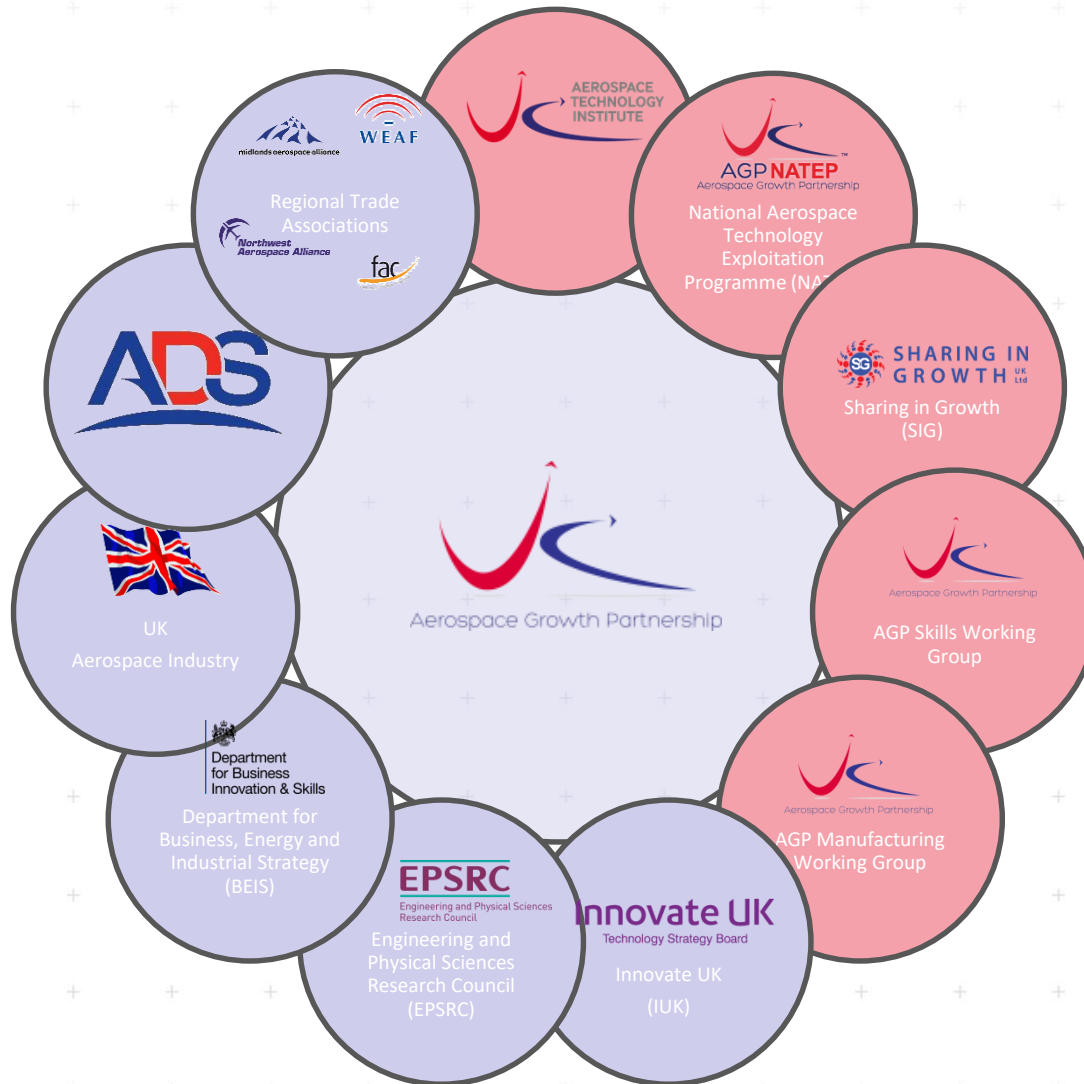




AGP, ATI and Amy Johnson

The AGP



The ATI

- The Aerospace Technology Institute (ATI) is the objective convenor and voice of the UK's aerospace technology community
- We define the UK's national aerospace technology strategy
- We work closely with Government and industry to direct joint Government and industry funding of **£3.9Bn** into aerospace R&T projects that align with the strategy
- We lead international technology engagement in aerospace for the UK
- We are a non for profit company, owned by UK Government and UK Industry

ATI Mission & Goals:

Through strategic investment in differentiating technologies,
secure the full economic potential of the UK aerospace sector

Technology Investment



Provide Technology
Leadership



Maximise funding
impact

Institute Impact



Develop Sector
Partnerships



Elevate the UK's
International Profile

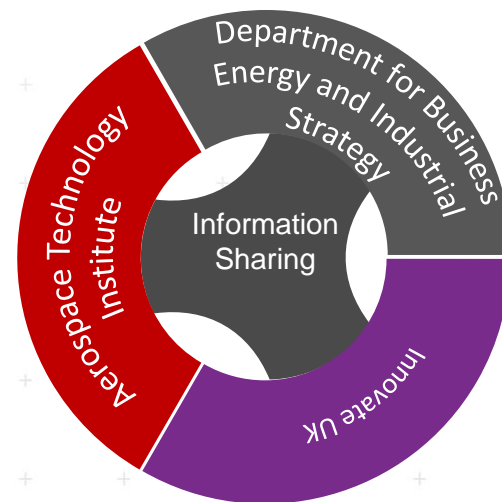
Vision for UK Aerospace

To ensure the UK...

- Is a global leader in:
 - + civil aircraft **wings**
 - + large civil aircraft **engines**
 - + complex aircraft **systems**
- Is providing **differentiated technologies** and **competitive supply** for associated sub-systems and components
- Is **positioned to lead** new architectures and technologies in civil aviation

UK Aerospace Programme roles

- **BEIS** holds the budget and has ultimate decision making responsibility for how it is used
- **Innovate UK** deliver the programme: manage contracts, pay grants and monitor results
- **ATI** shape the programme through independent strategic advice and industry engagement, to deliver maximum economic impact



UK Aerospace Industrial Strategy



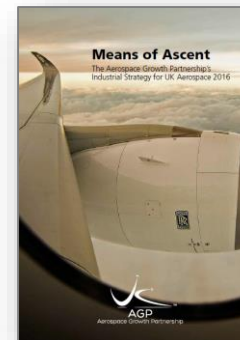
2012



2013



2014



2016



2015



2017





Four strategic technology themes

Aircraft of the future



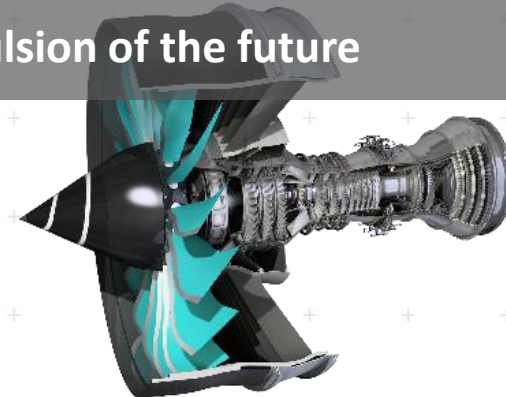
Smart, connected and more electric aircraft



Aerostructures of the future



Propulsion of the future



The Amy Johnson Challenge



The Amy Johnson Challenge

..... a candidate for ISCF Wave 3 funding

The Amy Johnson Challenge will unlock new aviation markets worth over \$675bn to 2050 through demonstration of aviation systems incorporating low environmental impact, autonomous air vehicles and airspace management by 2025, transforming connectivity, boosting UK exports and productivity and enriching our lives through higher mobility.

The Amy Johnson Challenge

This challenge will create a forward-thinking aviation transportation system model demonstrating the requirements, technologies and infrastructure of electric and autonomous aircraft to create new products and services for UK and international markets improving mobility and promoting clean growth



No aviation system globally
can fly and operate this future capability

To be in the future, the UK must lead, globally

The Amy Johnson Challenge



e-Vehicle Design & Integration Technologies

Autonomy Technologies

No Pilot

Single Pilot

AI Air Traffic Management System

Economic
Impact

Environmental
Impact and
Sustainability

Human Impact
and social
acceptance

The Amy Johnson Challenge

Future Air Transport & Services as a System of Systems

Infrastructure
Systems

Novel Air
Vehicle Designs

New models of
airspace
management
and
anticipatory
regulation

New operating
models for
users and
commercial
operators of air
services

