

SW Future Flight Innovation Zone (FFIZ)

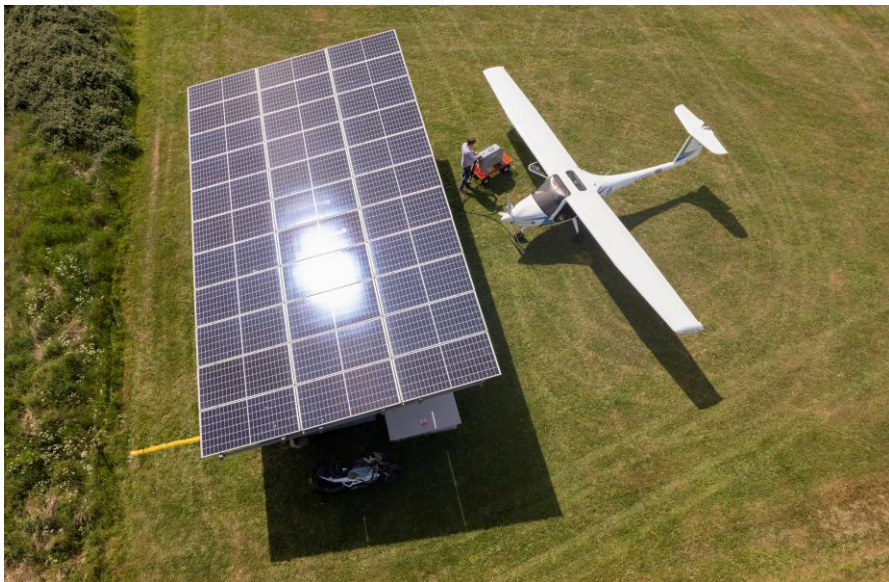


Somerset
Council



UK Future Flight
Innovation Zone

The Catalyst for Change



Future Flight Innovation Zone

Leveraging Assets

- Airports
- Airfields
- MRO
- iAero
- Academic excellence
- Manufacturing capability
- Skills for the future providers
- Links with collaborative Organisations - CPC / Met Office et al
- Local Authorities



Future Flight Innovation Zone - Capabilities

Our emerging test hub will be a 'living lab demonstrator'.

- A test location for sustainable aviation including hybrid, electric and hydrogen flight
- A test location for integrated airspace
- A location for developing skills and training engineers on future flight technologies
- A regulatory testing ground to help aircraft developers certify their systems
- Innovation and sustainability providing increased opportunities for collaboration between universities, engineering design hubs, MRO, airports and energy
- Development and proving of ground infrastructure that is critical to enabling the future of flight
- Demonstration of air and ground integration
- Facilitating options for later commercialisation, manufacturing and upscaling

Aerospace & Aviation

- Wing design
- Fuel systems
- Landing gear
- Avionics
- Thermal systems
- Whole aircraft design & test
- Air/gas systems
- Electrical systems
- Flight trials
- Composites
- Gas turbines
- Advanced propulsion
- Digital technologies
- Simulation
- Ground & flight testing

Electrical Power

- Solid state control
- Actuation
- Battery storage use
- Electrical motors
- Marine propulsion
- Auto and land power systems
- Ground & flight testing

Emerging Zero Emission Clusters

- Hydrogen
- Production and transmission
- Aircraft fuel cell systems
- Storage
- Ground support
- Transport
- Ground & flight testing

Future Flight Innovation Zone Programme

FFIZ Delivery

- £233K Programme funded from Local Growth Deal
- Dedicated CAA Sandbox to support up to 4 future flight technology developers
- 40 days dedicated Innovation Advisor Support
- Infrastructure Fund
- Capacity Building and Technical Support.

- But we are struggling to allocate the funding.
- We need a re-think on what we should be delivering to accelerate the growth of future flight technologies in this region.
- Which is where we need your help.

Advanced Air Mobility presents an opportunity to revolutionise public transportation, offering significant travel-time savings with improved connectivity, resulting in potential socioeconomic benefits valued at £2.1 billion annually for the UK1 . The building blocks for this future aviation revolution will be centred around automation, autonomy, and electrification, with benefits including reduced road congestion, load alleviation on existing surface transport modes, and new multi-modal trip options — all while maintaining the course for net-zero emissions. Source PWC Advanced Air Mobility economic Assessment 2023