Future Flight -
a green, distributed aviation market

Gary Cutts
Future Flight Challenge Director
Investor Webinar
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New market opportunities from better connectivity

Consumer Vision 2030
How the future aviation environment will benefit consumers in 2030

Drones
Unpiolated, non passenger carrying vehicles varying in size from small to large

Delivery Convenience
Distribution and delivery services are rapid, convenient and within each reach for everyday goods and services

Supporting Services
Drones support emergency services and perform complex inspections / operations

Increased Acceptability
Drones operations are quiet, safe and acceptable as part of day-to-day life

Advanced Air Mobility
Electric vertical take off and landing vehicles that provide short journeys for up to 10 people

Reduced Congestion
Efficient use of airspace reduces ground congestion (especially in urban areas)

Increased Consumer Choice
Allowing consumers to choose between cost and environmental efficiency

Reduced Journey Time
Average journey times significantly reduced

Regional Air Mobility
10+ person electric, hydrogen or hybrid aircraft providing short-medium range hops between fixed locations

Improved Connectivity
Rural and traditionally disconnected regions form part of a highly distributed transport system within close proximity

Seamless Journeys
Existing transport infrastructure is integrated as part of a seamless end-to-end transport network including ticketing

Improved Affordability
Operations are affordable and widely available for the general public

Benefits to the UK Economy
Predicted 7.8% increase in GDP and 828,000 jobs supported by 2030

Increased Sustainability
Operations are electric or hydrogen based, minimising the environmental impact

Improved Accessibility
Improved access to services and employment opportunities for those with reduced mobility
The markets include...

...faster medical deliveries and disaster relief

...last mile deliveries to your door

...remote maintenance reducing HSE risks

...integrated transport systems

...better connectivity ‘town-pairs’

...green flight connecting remote rural locations

but they are evolving continuously
This represents a whole new ecosystem...

..being accelerated to deliver early, real-world use cases with huge market potential
The ≈£110m FFC investment in UK industry is forecast to generate £400m+ co-funding.
Future Flight Projects and Companies showing the way

- 78 projects completed and underway culminating in ambitious 2024 showcase demonstrations
- 200+ unique organisations - largely SMEs, tech companies and start-ups

Flying taxis hub opens in Coventry for demonstrations

A hub for future vehicles like air taxis and delivery drones is opening to the public for demonstrations. Over the next month, the Air-One mini-airport site in Coventry will host demonstrator flights and outline how to control aircraft.

UK set to have world's biggest automated drone superhighway

A UK government-backed consortium is looking to develop technologies that could revolutionise sub-regional aviation and begin testing a highly automated, multi-rotor flight-control system as early as next July.

Atkins teams with Vertical Aerospace and Virgin Atlantic for Heathrow eVTOL test

Atkins and Vertical Aerospace have partnered with Virgin Atlantic for an eVTOL test at Heathrow. The test comes ahead of a £105 million ($133 million) grant under phase 3 of the UK’s Future Flight Challenge (FFC) initiative.

Project Heart pushes ahead with sub-regional plans as phase 3 funding kicks in

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By Dominic Perry | 10 July 2022

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It’s closer than you think…

Future Flight Roadmap

**Development**
- Services are developed and simulated, unlocking a path to certification and social acceptance

**Demonstration**
- Services are demonstrated in real-world, large-scale and integrated activities with strong value propositions

**Industrialisation**
- Services become more commercially viable, fostering investment. Increased levels of production brings costs down

**Scaling**
- Services scale up and become more geographically distributed as demand and social acceptance increases

**Service Based**
- Fully integrated Mobility-as-a-Service operations provide seamless, sustainable and rapid transport for all

Present Day

2024

2026

2028

2030