

CAA Innovation Hub **Global Urban Air Summit 2019**

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**The CAA launched the Innovation Hub in
April 2019**

**Creating an environment
where innovation in aviation
can be explored and flourish
in line with CAA core
principles**



The Innovation Hub offers **three services**

1. Gateway to **make it easier for aviation innovators** to work with us as regulators

2. Sandbox to **maximise regulatory readiness** by enabling the exploration and testing of Innovation concepts in a safe space.

3. Regulatory Lab. to **anticipate and respond to complex emerging aviation challenges** in order to shape the future regulatory landscape.



Shaping the future of air travel

The Innovation Hub is exploring a range of innovation themes that will contribute to shaping the future of air travel

1. Urban Air Mobility
2. Beyond Visual Line of Sight (BVLOS) UAS Operations
3. Unified Traffic Management (UTM)
4. Electronic Conspicuity
5. Automated Decision Making



Our work in Urban Air Mobility

Leading the EASA / EUROCAE sub-Working Group on VTOL airworthiness.

Partnering with Volocopter to explore how a UAM demonstration flight can take place in the UK in 2020 this will provide a pathway for others to follow in future.

Developing a road-map for how commercial level demonstration flights can take place in the UK prior to type certification. This will allow the many other regulatory issues to be explored without waiting for TC's which could take years.



Our work in Urban Air Mobility

Developing a set of specific **risk analysis tools** to help industry map out the various forms of risk which UAM could present not just limited to safety but focusing also on consumer protection, the environment and other key challenges which need to be explored.

Through our innovation gateway we provide a **one-stop-shop for UAM developers** to approach us in order to get answers on the UK regulatory landscape. This is helping us build strong relationships with developers who are entering the ecosystem.



We are learning fast



Transforming our Organisation

The CAA is becoming **more responsive and agile**

We are **collaborating** in a way that has not been done before, internally and externally

Adjusting our Operating Model

The Sandbox aligns with the CAA's approach to **Performance Based Regulation** – a unique approach embraced by innovators

Frameworks are being developed to **enable innovation activities** whilst conditioning innovators towards the potential for more stringent regulatory requirement

Understanding the market

Industry has welcomed our services

Innovators are ambitious, they want to be involved in the Sandbox. But, not all of them have the same **level of regulatory readiness**

The industry values **shared learnings** over active participation to the Sandbox

Understanding the regulatory challenges

We are refining our understanding of the **key regulatory challenges and questions that need to be unlocked**, working with innovators to ensure continued public protection

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