



Ultimate outputs

A regulatory framework for use by other local authorities so that the whole UK can unlock the value of urban drone use

Defining necessary future drone trials









Pre-workshop briefing – online
23rd April

Context setting
Share use cases
Overview of airspace regulation
Introduce draft regulatory framework
Brief for workshop

Participant prep

Add important missing use cases

Read draft regulatory framework

Workshop 8th May Coventry

Identify areas where regulation is good, adequate, lacking Required actions for improvement

Output

Regulatory framework with shortcomings identified and required actions to address









Agenda

10:00-10:30	Registration and coffee	
10:30-10:35	Welcome to Coventry city council	Umutcan Erdogan, Transport Innovation Officer, Coventry City Council
10:35-10:40	Introducing Midlands Aerospace Alliance	Andrew Mair, Chief Executive, Midlands Aerospace Alliance
10:40-10:50	Objectives, agenda	
10:50-11:40	Breakout 1.1	Identify areas of good regulation, gaps and areas needing development
11:40-11:55	Check how it's going	
11:55-12:30	Breakout 1.2	Potential solutions and stakeholders
12:30-13:00	Lunch	
13:00-13:35	Breakout 2.1	Identify areas of good regulation, gaps and areas needing development
13:35-14:15	Breakout 2.2	Potential solutions and stakeholders
14:15-14:45	Review output and next steps	









OUTPUT









Planning

CURRENT FRAMEWORK

- · Each of England, Wales, Scotland and Northern Ireland have a 'plan-led' system overseen by the country's Secretary of State responsible for national policy, guidance and a framework for local planning. The four countries' policies are, respectively,
- o England National Planning Policy Framework
- o Scotland National Planning Framework 4
- o Wales Planning Policy Wales
- o Northen Ireland Policy Statement for Northern Ireland (SPPS)
- · Planning policy for any given area is set out in a Local Development Plan developed and overseen by the relevant Local Planning Authority (LPA)
- Aviation matters within Local Development Plans are assessed against the UK wide Aviation Policy Framework
- The planning policy hierarchy is summarised as
- o National aviation policy
- Aviation Policy Framework 2013
- Jet Zero Strategy 2022
- o National planning policy
- Mational Planning Policy Framework (for the country)
- Planning Practice Guidance (for the country)
- o Spatial Strategy
- o Local Development Plans

WHAT AREAS ARE GOOD?

Smaller

Infrastructure

installation e.g.

drone in a box -

requirement

largely no planning

No guidence for There is not specific No Permitted whenplanning Use Category required or not

WHAT GAPS ARE THERE?

Development rights

infrastructure at

logistics centre

e.g. drane

LPAs are not expected No mechanism for to be cognisent of sefeguerding avation regulation but airspace of drone may need to be ports that are not involved in corridor 'Aerodromes' planning

AREAS REQUIRING DEVELOPMENT

Consideration of Opportunity to Routes could be future proofing for incorporate drones trens-authority drones in 108 mandatory need for coordination inspection requirements

Case studies to Consultation by LPA form guidance to encourage nublic/madia reaction - using 'public good' use cases first

LPA involvement in determining routes as part of the risk essessment

LPA dynamic data Future requirement for transport hubs provision to CAA for temporary ready to accomodate restrictions (AIP) drones in Local e.g. events Development Plans

Guidance and Planning expert to case studies passess whether addition Use Category developed by Planning experts

hubs

appropriate or possible application of PD rights

WHAT NEEDS TO HAPPEN?

WHO NEEDS TO BE INVOLVED?

Could central Govn' Capture the mandate inclusion of requirements for requirements in local future that would be development plans required in transport

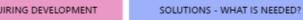












Building Regs

CURRENT FRAMEWORK

- The Building Act 1984 is the most wide-reaching law controlling building in England and Wales. It sets the enforcement powers.
- The Building Regulations 2010 go into more detail about building work.
- Building work generally includes building new buildings, making buildings bigger, altering buildings and changing what they are used for. It is highly lightly that the installation of drone infrastructure will fall into one of these categories.
- The Building Safety Act 2022 amends the Building Act 1984 in the case of Higher-Risk Residential Buildings (HRRB) in the wake of the Grenfall Tower tragedy and could have implications for drone infrastructure installed on or around HRRBs.
- HM Government has published a Manual to the Building Regulations in two volumes. Volume 1 is a high level guide to the building regulations system and Volume 2 provides more detailed guidance.

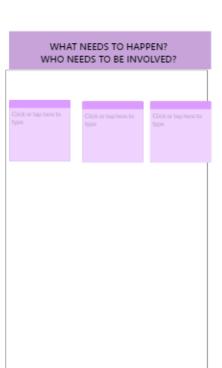
WHAT AREAS ARE GOOD? Thought not likely to apply in take-off and tanding. Click or tap here to type

WHAT GAPS ARE THERE? The current fire protection regg adequate for chraging and stronges of U I on batteries or hydrogen and stronges of U I on batteries or hydrogen and stronges of U I on batteries or hydrogen and stronges of U I on batteries or hydrogen and stronges of U I on batteries or hydrogen and the second of U I on batteries or hydrogen and the second of U I on batteries or hydrogen and the second of U I on batteries or hydrogen and the second of U I on batteries or hydrogen and the second of U I on batteries or hydrogen and the second of U I on batteries or hydrogen and the second of U I on batteries or hydrogen and the second of U I on batteries or hydrogen and the second of U I on the second of U I on



AREAS REQUIRING DEVELOPMENT

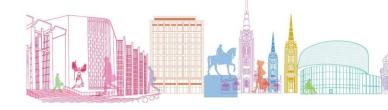












Environmental Protection

CURRENT FRAMEWORK

WHAT AREAS ARE GOOD?

WHAT GAPS ARE THERE?

AREAS REQUIRING DEVELOPMENT

SOLUTIONS - WHAT IS NEEDED?

WHAT NEEDS TO HAPPEN?
WHO NEEDS TO BE INVOLVED?

The section below provides an overview of domestic and international regulatory frameworks which relates to environment protection in relation to the CAA and Environmental Agency within the United Kingdom. As there is no set Environmental Act' towards drone aviation within urban environments it is not intended that this should be taken as the only policy/legislation which applies to environmental protection.

- The Environment Act 2021' Provides a legal framework for environmental governance and brings in measures for the improvement of the environment in relation to waste, resource efficiency, air quality, water, nature and biodiversity, and conservation. It does so by providing the Government with powers to set new binding targets, including for air quality, water, biodiversity and waste reduction. The Department for Environment, Food and Rural Affairs (DEFRA) published these targets in 2022 after consultation.
- The UK is a founding member of the International Civil Aviation Organisation's (ICAO) Committee on Aviation Environmental Protection (ICAEP). As the UK is a founding member the operator must adhere to ICAO and 'Standards and Recommended Practices' SARPs for uniformity in regulations, standards and procedures.
- CAEP established assists the ICAO Council in developing new policies and SARPs in relation to aviation noise, emissions and other environmental impacts. The ICAO Council subsequently reviews and adopts CAEP recommendations, including amendments to the SARPs, and in turn reports directly to the ICAO Assembly where the main policies on environmental protection are defined. The UK is represented in ICAO and CAEP by the "Department for Transport" (DfT), while the CAA and other specialists are nominated by the UK to CAEP's technical working groups.
- Nature Conservation (Scotland) Act 2004. The Bill for this
 Act of the Scotlish Parliament was passed by the Parliament
 sith May 2004 and received Royal Assent on 11th June
 2004. An Act of the Scotlish Parliament to make provision in
 relation to the conservation of biodiversity; to make further
 provision in relation to the conservation and enhancement of
 Scotland's natural features; to amend the law relating to the
 protection of certain birds, animals and plants; and for
 connected ourposes.
- Byelaws apply to many areas of the UK that specifically restrict the use of drones for the protection of wildlife.



identification of regulations not relating to drone aviation



















Electrical Safety/Inspection

CURRENT FRAMEWORK

- The Electricity at Work Regulations 1989: This regulation requires that all electrical systems, equipment, and installations are maintained to prevent danger. This includes regular inspections to ensure that they are safe to use.
- The Health and Safety at Work Act 1974:
 This regulation places a duty on employers to
 ensure the health and safety of their
 employees while at work. This includes
 providing a safe working environment, which
 requires electrical inspections to be carried
 out regularly.
- The Management of Health and Safety at Work Regulations 1999: This regulation requires employers to assess and manage the risks associated with their work activities. This includes identifying and controlling risks associated with electrical systems and equipment, which require regular inspections.
- The Provision and Use of Work Equipment Regulations 1998: This regulation requires that all work equipment, including electrical equipment, is suitable for its intended use and is maintained in a safe condition. This includes regular inspections to ensure that equipment is safe to use.
- The Wiring Regulations (BS 7671:2018+A2:2022): This standard sets out the requirements for the design, installation, and maintenance of electrical systems in the UK. It requires that electrical installations are inspected and tested at regular intervals to ensure that they are safe to use.

WHAT AREAS ARE GOOD?

Certification
processes which
are required for
drone system
depending on size of
batteries

WHAT GAPS ARE THERE?

Fire hazrada due to Electrical Storage of uncontained Infrastructure for electronical equipment / battery atorase Enshanced Scalability and for drone charging Intergration for maintenance of electrical aquipmenet equipment

AREAS REQUIRING DEVELOPMENT

Updateing regulations to current date Innovation within technology - 5G and storage due to electrical equiperment

Defining of the regulations preventing overlap-defining low pressu of current regulations

SOLUTIONS - WHAT IS NEEDED?

mendments to CSCk or tap here to Click or tap here to type

WHAT NEEDS TO HAPPEN? WHO NEEDS TO BE INVOLVED?

Click or tap here to type Click or tap here to type









Privacy & data Protection

CURRENT FRAMEWORK

WHAT AREAS ARE GOOD?

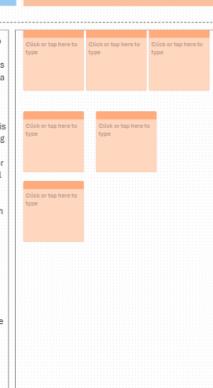
WHAT GAPS ARE THERE?

AREAS REQUIRING DEVELOPMENT

SOLUTIONS - WHAT IS NEEDED?

WHAT NEEDS TO HAPPEN? WHO NEEDS TO BE INVOLVED?

The Civil Aviation Authority's remit is limited to safety and does not include concerns over privacy, though advises that pilots using drones with cameras should be aware of relevant Data Protection Regulation. The Drone and Model Aircraft Code offers multi-faceted advice regarding respecting people and their privacy The Information Commissioner's Office (ICO) is an independent body responsible for upholding information rights. The ICO recognises that drone flight can involve collecting, using and/or sharing personal data, and poses the potential for collateral intrusion. The ICO distinguishes between hobbyists and professional or commercial flyers, describing compliance with data protection law (e.g., provision of privacy information, undertaking a Data Protection Impact Assessment) and asserting that where required, drone pilots must comply with the Surveillance Camera Code The Biometrics and Surveillance Camera Commissioner advise that the use of drones with cameras by 'relevant authorities' is covered by the Surveillance Camera Code. The



Dealing with "Content Creators"	No existing provisions for segregation of operational and personal data.	How do you differentiate between images captured via smartphones on the ground and drones in the sky? Answer you can't!
STREAM STATE STREAM STATE	Note that	ordered voter, believed voter
A multi-regulatory authority that can deal between safety and privacy, simply washing hands by the CAA of not my problem is hard to do	Ai-The earlier point about overwatch' unintended capture is interesting too, eg. unwanted intustion - as this relates to the potential misuse of private information	Capture, storage and clistribution of unintended information, for example where a drone doing Building Safety Inspections capture images of bystanders.
Notice traces	THE REAL PROPERTY.	National Internation
NO - CO-CT respect of patenness generally, chiefmenting that the information of commissioners in Chicara source or privacy contriguents extrement hottopists and included or or approximation using deciment information or commission purposed. "This is not the claim for the country that the claim for the country of the claim for the country of papers, appearing, contribudy."	Should there be a difference between hobbyists and professionals, given the CAA doesn't treat them differently	Where is the data stored, EU/UK/overseas (AJ)









Code is not technology specific, rather is

of Investigatory Powers Act 2000.

principles based and applies to the use of surveillance cameras in public places. It encourages other operators and users of surveillance camera systems to adopt voluntarily. The code specifies that covert surveillance by public authorities is not covered and is instead regulated by Regulation

Electronic Communications

CURRENT FRAMEWORK

WHAT AREAS ARE GOOD?

WHAT GAPS ARE THERE?

AREAS REQUIRING DEVELOPMENT

SOLUTIONS - WHAT IS NEEDED?

WHAT NEEDS TO HAPPEN? WHO NEEDS TO BE INVOLVED?

- The United Nation's International
 Telecommunications Union (ITU) maintains the Radio
 Regulations which contracting States, including the
 UK, are required to ensure compliance with.
- The UK electronic communications regulatory framework is mainly contained within:
- o the Communications Act 2003
- o the Wireless Telegraphy Act 2006
- This domestic legislation governs the regulation of the telecoms markets, guarantees basic user rights, and sets out the powers and duties of the Office of Communications (Ofcom) as the national regulator, including how radio spectrum in the UK is managed.
- The EU Common Regulatory Framework is implemented through the above legislation.
- European Electronic Communications Code (EECC) - was adopted by the EU in December 2018 with EU countries applying the new directive to their national law by 21 December 2020.
- The UK transposed the European Electronic Communications Code (EECC) Directive into UK law ahead of the transposition deadline of 21st December 2020.
- The Electronic Communications and Wireless
 Telegraphy (Amendment etc.) (EU Exit) Regulations
 2019 is secondary legislation made in February 2019
 to ensure that the UK telecoms regulatory framework
 remained operable when the UK left the EU.
- The Radio Equipment Regulations 2017: Great Britain, applies to radio equipment supplied in or into Great Britain
- The Radio Equipment Regulations 2017: Northern Ireland, applies to radio equipment supplied in or into Northern Ireland
- CAA Under agreement with Ofcom and the Ministry of Defence, CAA is the band manager for several sets of radio spectrum frequencies



















Carriage of Dangerous Goods

CURRENT FRAMEWORK

WHAT AREAS ARE GOOD?

WHAT GAPS ARE THERE?

AREAS REQUIRING DEVELOPMENT

SOLUTIONS - WHAT IS NEEDED?

WHAT NEEDS TO HAPPEN? WHO NEEDS TO BE INVOLVED?

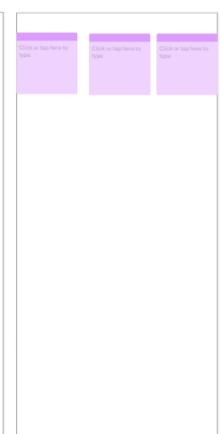
- "The global principles governing the safe transport of DG by air are described in Annex 18 to the Convention on International Civil Aviation (the Chicago Convention)
- These broad principles have been amplified into the detailed 'Technical Instructions for the Safe Transport of Dangerous Goods by Air' (Doc 9284)
- These technical instructions are reproduced in the Dangerous Goods Regulations (DGR) published by the International Air Transport Association (IATA)" GROTE et al 2021
- EU Regulation (EU) 2002/2786 was retained (and amended in UK domestic law) under the European Union (Withdrawal) Act 2018 and amended by the CAA's Air Navigation (Dangerous Goods) Regulations 2002
- CAP2248 Fundamentals: Carriage of Dangerous Goods by Remotely Piloted Aircraft Systems gives guidance for carrying dangerous goods falling within UN3373 Biological Substances, Category B as cargo
- In 2023, the CAA published CAP2555 Guidance on the Carriage of Dangerous Goods as Cargo for UAS/RPAS Operators in the Specific Category – note that this is guidance rather than regulation



the seat	the set	10th total
If an operator notifies a Local Authority of cerriage of DG, what do they do with it?	Apperent lack of trust with some stakeholders e.g. eir embulance	Every local authority set up differently, drone issues could be with planning or other dept.

that was		
CAA sign-off on	Click or tap here to	Click or tep here to
case-by-case basis.	type	type
How does it		
become routine?		

Click or tap here to	Click or tap here to	Click or tap here to
type	type	type











Other areas identified to be covered by the framework

Health & Safety







