

KEY FACTORS GEBLERTOOTH

- 1. REGULATORY AND LEGAL
- 2. INFRASTRUCTURE
- 3. ENVIRONMENTAL IMPACT
- 4. PUBLIC SAFETY AND SECURITY









KEY FACTORS - QUESTIONS

GEBLERTOOTH

REGULATORY AND LEGAL:

 What are the current Civil Aviation Authority (CAA) regulations governing drone deliveries and vertiports, and how do they impact local planning?

INFRASTRUCTURE:

 Where are the most suitable locations for vertiports, considering safety, proximity to delivery hubs, and public acceptance?

ENVIRONMENTAL IMPACT:

 What will be the environmental impact of vertiports and drone deliveries, including noise pollution and effects on wildlife?

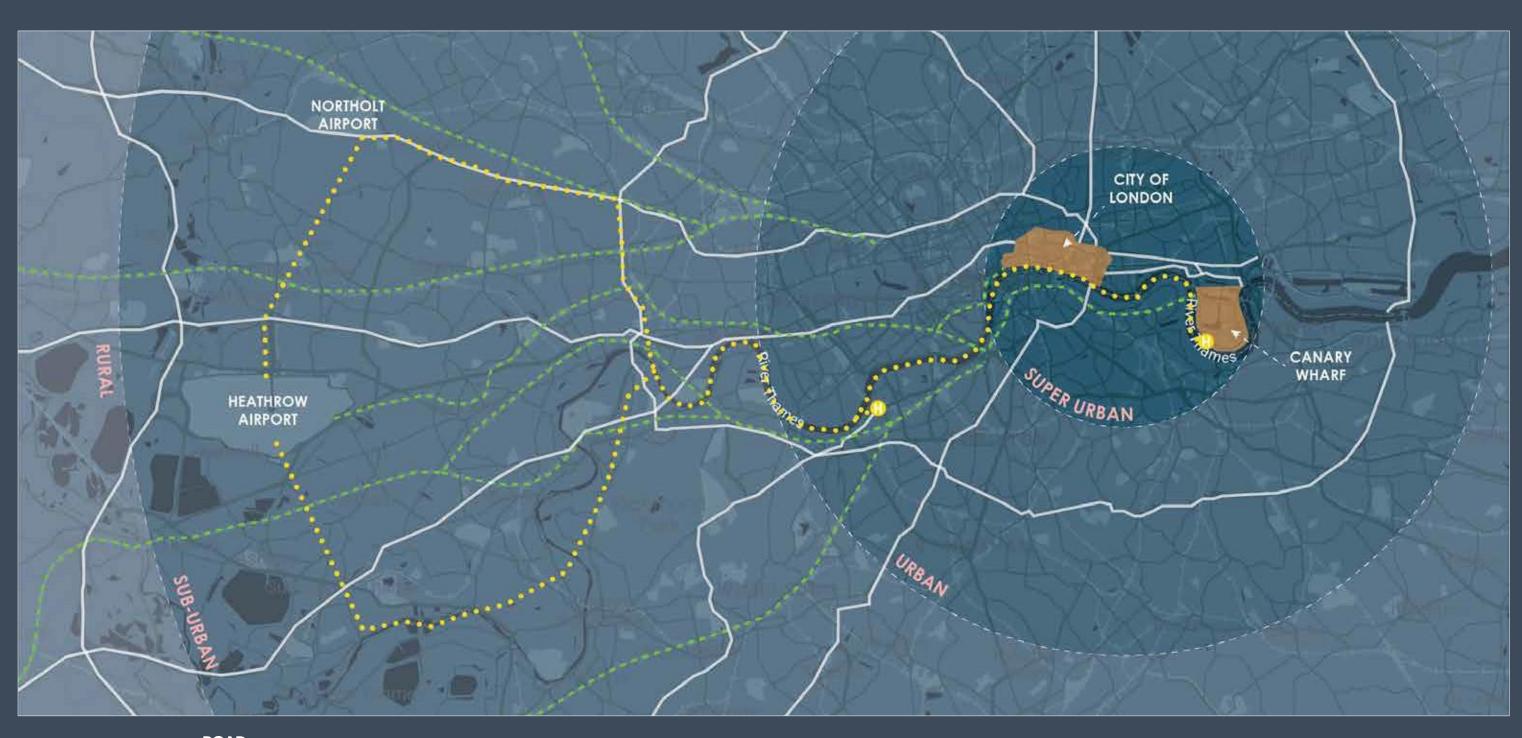
PUBLIC SAFETY AND SECURITY:

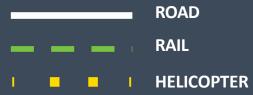
- What safety measures and protocols need to be in place to prevent collisions and manage risks?
- What emergency response plans do we need in case of accidents or drone malfunctions?





HEATHROW TO CITY OF LONDON







USE CASES

GEBLERTOOTH

PAX	SUPER-RURAL	RURAL	SUB-URBAN	URBAN	SUPER-URBAN
ТҮРЕ		COMMUTERS	COMMUTERS	COMMUTERS EVENT GOERS TAXI DELIVERY	COMMUTERS EVENT GOERS TAXI DELIVERY
MODE	SPOKE	SPOKE	HUB & SPOKE	HUB & SPOKE	HUB & SPOKE
FREQUENCY	LOW	MID	MID	HIGH	VERY HIGH
OTHER	MAIL PHARMA FRESH FOOD SMALLS GENERAL FREIGHT SURVEYS MONITORING	MAIL PHARMA FRESH FOOD SMALLS GENERAL FREIGHT LOGISTICS LINK SURVEYS MONITORING	MAIL PHARMA FRESH FOOD SMALLS GENERAL FREIGHT SECURE LOGISTICS LINK SURVEYS MONITORING	MAIL FRESH FOOD SMALLS PHARMA SECURE LOGISTICS LINK SURVEYS MONITORING	MAIL FRESH FOOD PHARMA SURVEYS MONITORING
MODE	SPOKE	SPOKE	HUB & SPOKE	HUB & SPOKE	SPOKE
FREQUENCY	LOW	MID	HIGH	HIGH	MID
	SUPER-RURAL	RURAL	SUB-URBAN	URBAN	SUPER-URBAN



CONSTRAINTS

GEBLERTOOTH

	SUPER-RURAL	RURAL	SUB-URBAN	URBAN	SUPER-URBAN
POPULATION DENSITY	VERY LOW	LOW	MODERATE	HIGH	VERY HIGH
ECOLOGY RATING	VERY HIGH	VERY HIGH	MODERATE	LOW	VERY LOW
LIGHT & SOUND POLLUTION	VERY LOW	LOW	MODERATE	HIGH	VERY HIGH
WEATHER EXPOSURE	VERY HIGH	HIGH	MODERATE	MODERATE	HIGH
THREAT TO LIFE SAFETY	VERY LOW	LOW	MODERATE	HIGH	VERY HIGH
SURFACE ACCESS	VERY LOW	LOW	MODERATE	HIGH	VERY HIGH
FURTHER DEVELOPMENT IMPACT	VERY LOW	LOW	HIGH	VERY HIGH	HIGH
UTILITY PROVISION	VERY LOW	LOW	VERY HIGH	VERY HIGH	HIGH
	SUPER-RURAL	RURAL	SUB-URBAN	URBAN	SUPER-URBAN

^{*}Scale describes nature of provision, not degree of impact

RURAL

SMALL AIRFIELD

USE CASE:

- Mail, parcel and medical deliveries
- Chilled food shipments
- Pax movements

INFRASTRUCTURE REQUIREMENTS:

- FATO and clearance zones
- Aircraft stands and taxiway areas
- Aircraft refuelling
- Aircraft storage and maintenance
- Airfield equipment
- Consignment storage and shipping
- Operations and management suites
- Pax suites
- Fire support
- Utilities

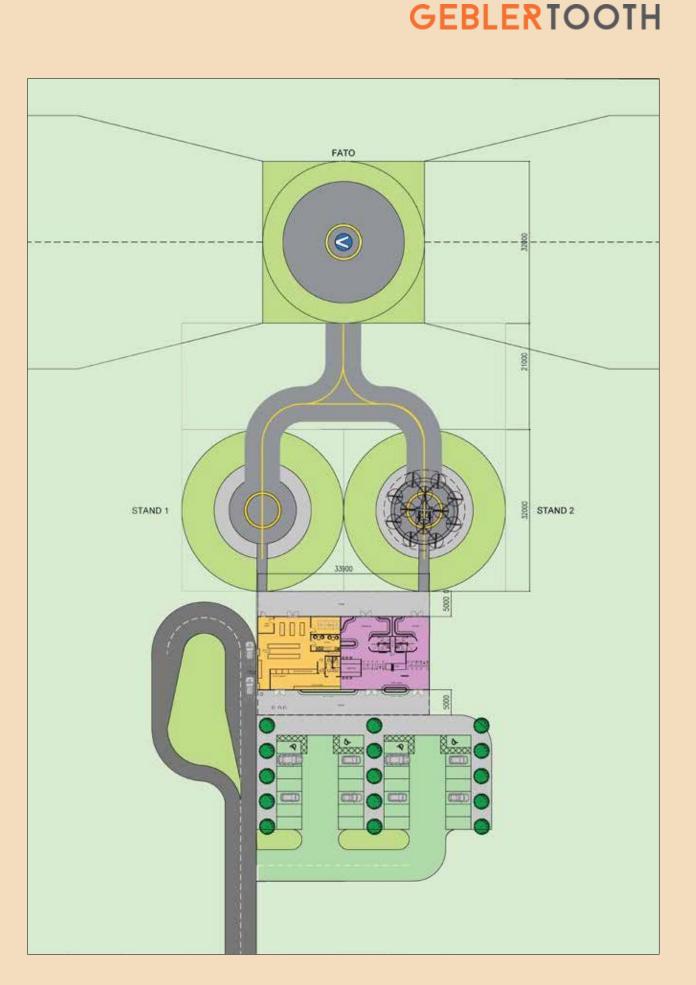
FREQUENCY:

• Limited / unscheduled / infrequent

CONSTRAINTS:

- Weather exposure
- Prevailing wind
- Noise and light pollution
- Ecology
- Proximity to surface access
- Availability of utilities













SUB-URBAN

GEBLERTOOTH

INDUSTRIAL PARK, BROWN FIELD CAR PARK, RETAIL PARK

USE CASE:

- Mail, parcel and medical deliveries
- Chilled food deliveries
- Final mile logistics link
- Pax movements

INFRASTRUCTURE REQUIREMENTS:

- Multi FATO and clearance zones
- Aircraft stands and taxiway areas
- Aircraft refuelling
- Aircraft storage and maintenance
- Airfield equipment
- Consignment storage and shipping
- Operations and management suites
- Fire support
- Surface access
- LandscapingUtilities

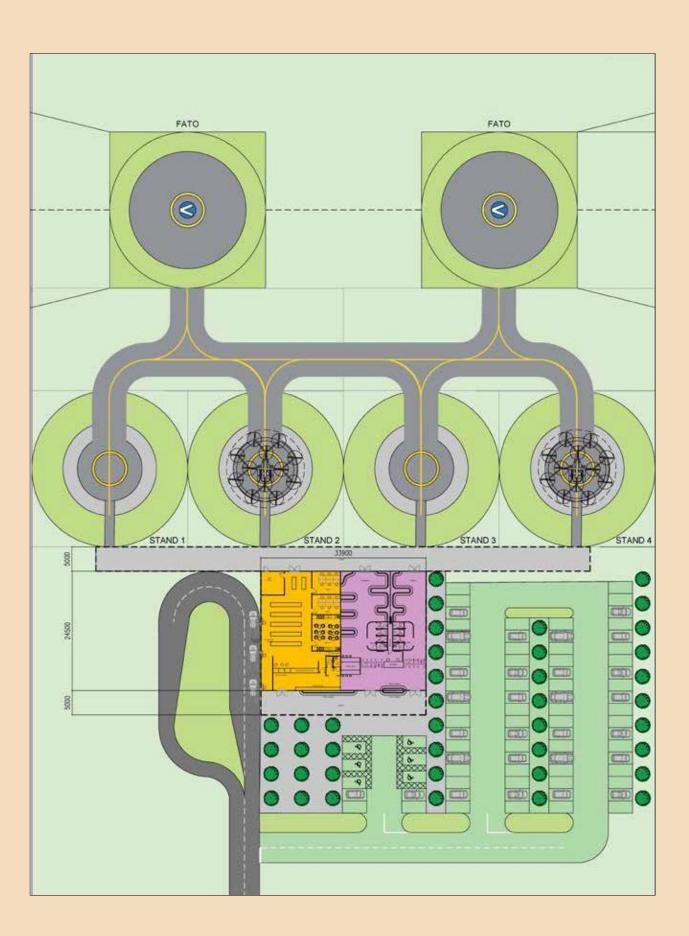
FREQUENCY:

- Cargo: Frequent /unscheduled
- Pax: Infrequent

CONSTRAINTS:

- Prevailing wind
- Noise and light pollution
- Proximity to surface access
- Availability of utilities
- Disruption caused by future growth
- Proximity to significant population













SUPER URBAN

GEBLERTOOTH

USE CASE:

- Mail, parcel and medical deliveries
- Chilled food shipments
- Pax movements

INFRASTRUCTURE REQUIREMENTS:

- FATO and clearance zones
- Aircraft stands and taxiway areas
- Aircraft refuelling
- Aircraft storage and maintenance
- Airfield equipment
- Consignment storage and shipping
- Operations and management suites
- Pax suites
- Fire support
- Surface access
- Landscaping

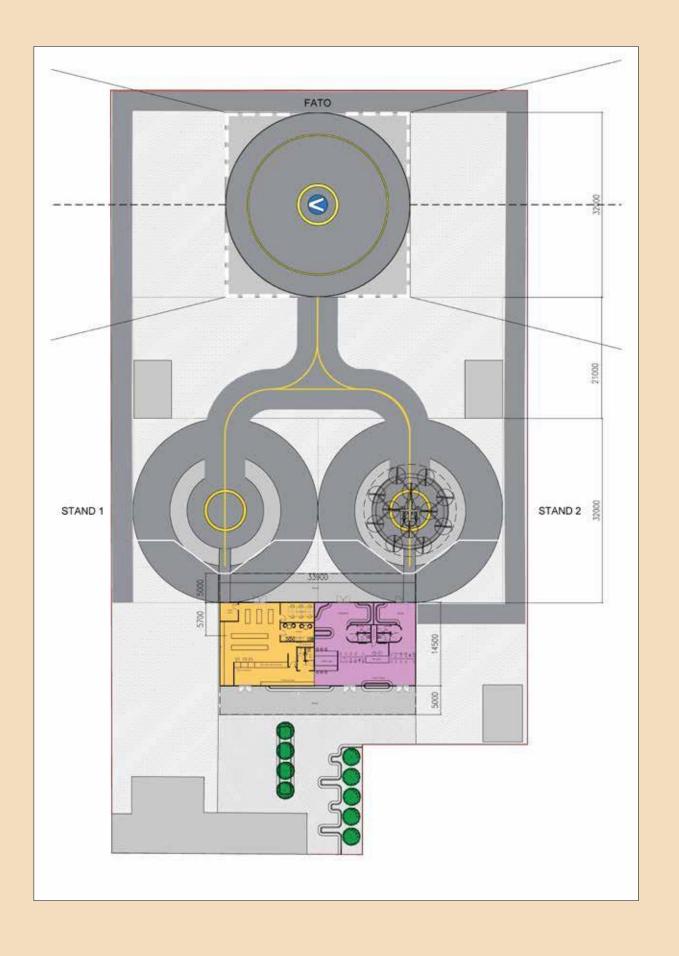
Utilities

FREQUENCY:

- Cargo Frequent/Unscheduled
- PAX Frequent

CONSTRAINTS:

- Weather exposure
- Prevailing wind
- Noise and light pollution
- Surface access modes and quantum
- Availability of utilities
- Fire Suppression
- Proximity to significant population
- Intensity of use
- Disruptions caused by future growth











WHAT YOU NEED TO CONSIDER



When councils are considering droneports and vertiports in the UK, the following key factors need to be taken into account.

1. REGULATORY AND LEGAL FRAMEWORK:

- Civil Aviation Authority (CAA) Regulations
- Planning and Land Use Permissions
- Air Traffic Management

2. INFRASTRUCTURE REQUIREMENTS:

- Vertiport Location
- Facilities Design and Standards
- Integration with Existing Transport Systems

3. ENVIRONMENTAL IMPACT:

- Noise Pollution
- Carbon Footprint
- Wildlife and Ecosystems

4. SAFETY AND SECURITY:

- Collision and Risk Management
- Data and Cybersecurity
- Emergency Response Planning

5. COMMUNITY IMPACT:

- Job Displacement vs. Creation
- Accessibility





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