

An aerial photograph of a city, likely Stockholm, showing a dense urban landscape with numerous buildings, streets, and green spaces. A semi-transparent rectangular box is overlaid in the center of the image, containing text. The text is in a black, sans-serif font. The background shows a mix of older, multi-story buildings and more modern structures, with a river visible in the lower right corner.

Kims presentation
EUROCONTROL UAM 4 FEBRUARI

ABOUT THE COMPANY

Our Success Story

*Success is not final,
failure is not fatal:
it is the courage to
continue that counts.*

Winston Churchill



Founded in 2007

Independent Consulting Limited was founded in 5th May 2007. Since its establishment we completed over 60 projects within the Air Traffic Management, Airport and transport sector.



Independent Business Group formed in 2014

Independent became Independent Business Group with the introduction of a new management team. Since then sales has increased and IBG expanded its market to cover Europe, Middle East and Asia.



Subsidiaries established

To further expand Independent the management team took the strategic decision to establish more venture. In 2016 IBG formed Independent Academy Limited in Hong Kong with main focus on supplying training services and courseware. IBG Europe AB was formed 2018 in Sweden.



Headquarter moved to Sweden 2020

2020 a new partner joined the Swedish entity and name changed to Independent Business Group Sweden AB. IBG headquarters was relocated to Norrköping, Sweden from Hong Kong.



Trusted by



Stockholm
Norrköping HQ

www.ibg-sweden.se



CORUS - Inter-city autonomous flight between Linköping and Norrköping (50 km)

- eVTOL flight between two municipalities
- Seamless transition two UTM Systems (one per city)
- Autonomous flight 50km
 - One actual (LiU and Industry)
 - Mixed with virtual flights (LiU)
- Vertiport in city and airport environment
- Definition CONOPS intercity UTM (LFV)
- Flight (s) Start Linköping Science Park and ends Norrköping Airport (NRK)





Politics and governance: The Paris Agreement

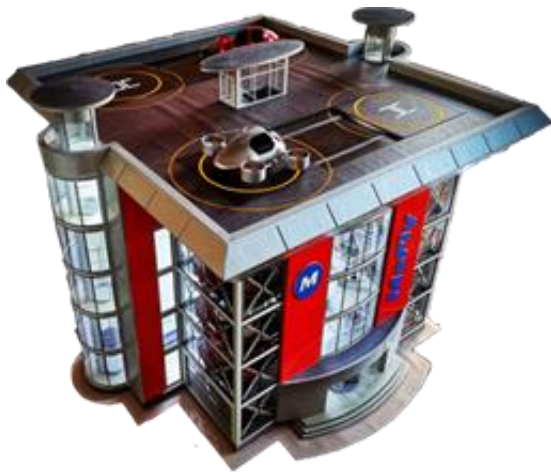


Migration policy
2,7 billion people



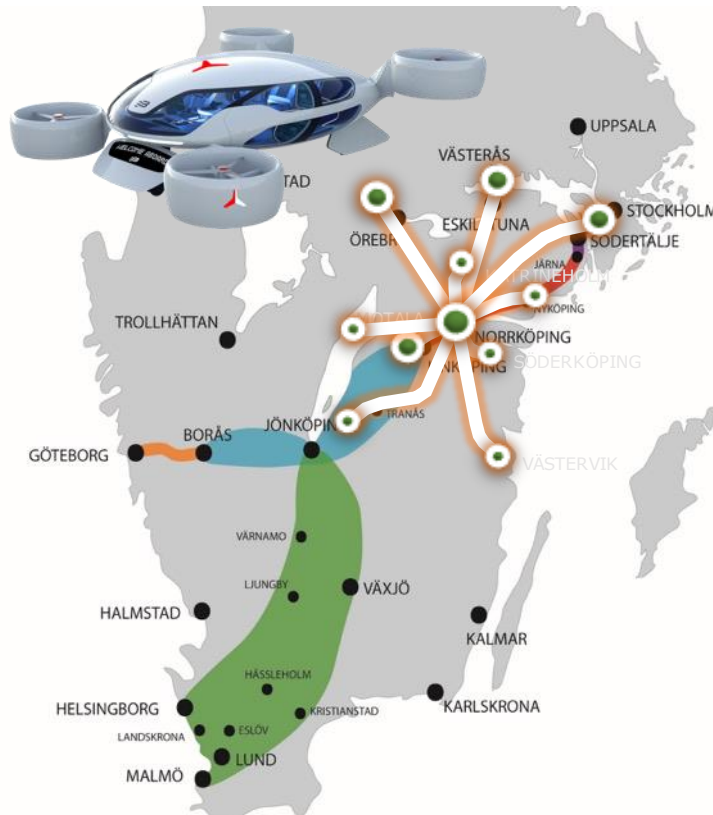
Technological driving force
Digital revolution

Innovations change how we need to plan transport and logistics



Over half of Sweden's population within a 200km radius of Östergötland...

(Source: www.eastsweden.se)



Changes we foresee

Urban Air Mobility – Intercity flights or even Urban Flights will drastically change the role of conventional airports.

The fossil free and autonomous flights will now start and end its route at vertiports flying suburb to suburb.

Domestic conventional flights will be replaced by eVTOL's or Air Taxis.

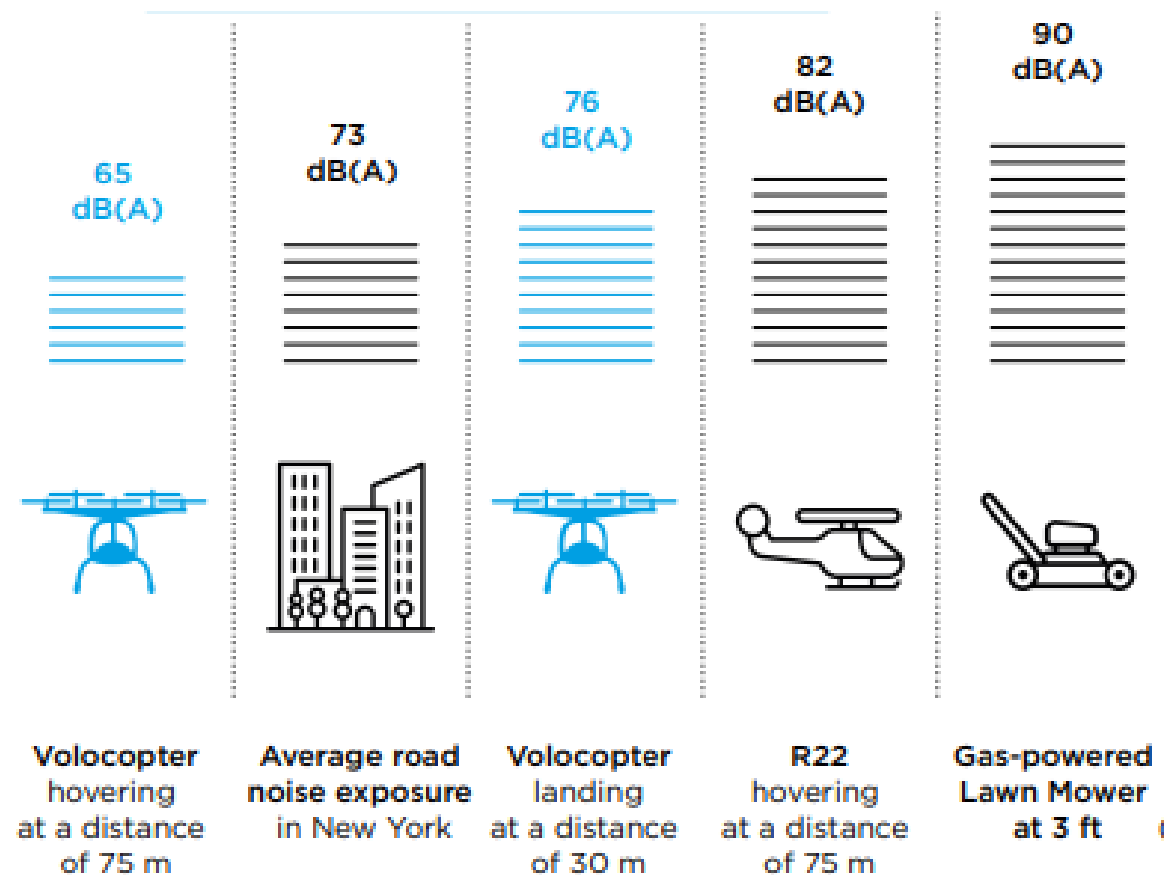
Logistics and transportation options will increase with Urban Air Mobility. This will change where we choose to live and work.



Urban Planning: Where? How? What?

- **Regulations:** New rules = first time for the transport agencies to interpret rules – Municipality regulations
- **Flight path:** Safety, Security, Noise/Environment and controlled vs uncontrolled airspace
- **Infrastructure:** Vertiport, Charging/refueling stations, Power Supply, Communication (e.g. 5G)
- **Multimodal transport:** Complementing and feeding traffic to existing transport hubs
- **Logistics:** First and last mile delivery, postal services

Noise Pollution



The critical vertical Take-off and landing phase at a ground based vertiport brings eVTOL closer to a populated urban areas with a higher noise footprint. This will impact vertiport locations from a noise perspective during Urban Planning

LEVEL IN DECIBELS	EVERYDAY EXAMPLE
110dB+	Jet engine at about 100m
100dB	Jackhammer (pneumatic drill) at close range
80dB+	Loud highway noise at close range
70dB+	Louder traffic
60dB	Quiet traffic noise.
50dB	Louder conversation.
40dB	Quiet conversation.
30dB	Birds flying by.
20dB	Watch ticking.
10dB	Rustling or falling leaves.

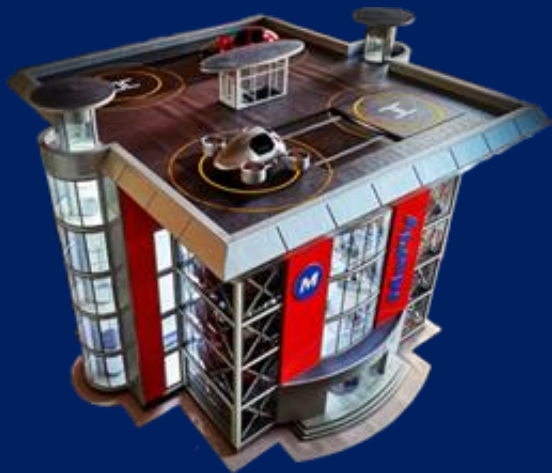
I:G



Visual Pollution



One size does not fit all



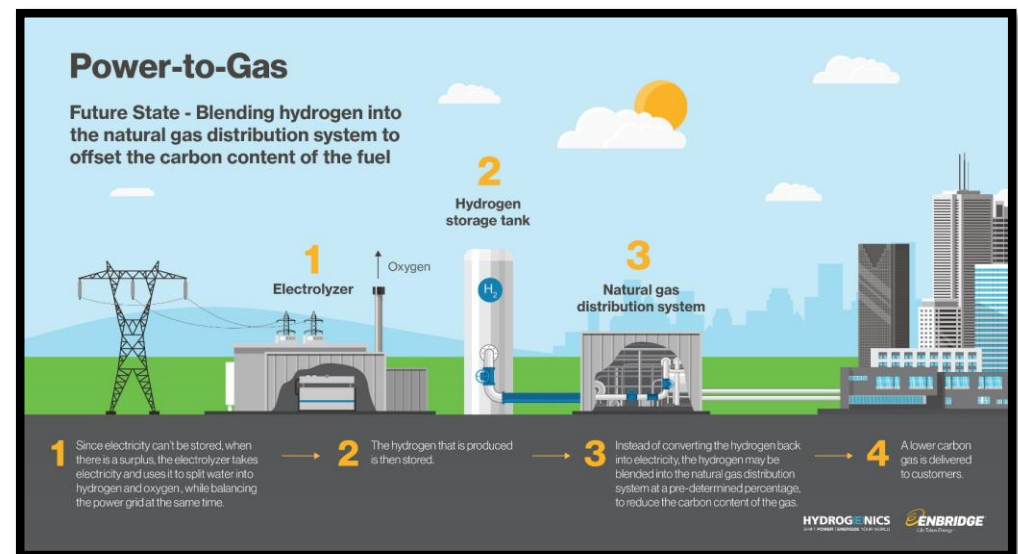
Vertiports

I:G



Charging / Refuelling

- Hydrogen Fuel Cells?
- Electric on Battery?
- We need to plan for both...





Thank You...



UIC²

UAM (Urban Air Mobility) Initiative
Cities Community

UIC² Manifesto on the Multilevel Governance of the Urban Sky

Cities and regions already supporting
as of Wednesday 27th January 2021



Hamburg

City of  Enschede



REGION
Nouvelle-
Aquitaine



Górnoląskie
- Zagłębiowska
Metropolia



Stadt Ingolstadt

OULU

stadt aachen



Gemeente
Amsterdam

Liège

Regionalmanagement
NordHessen



City of
Ljubljana



THE CITY OF TAMPERE



NORRKÖPING



Ayuntamiento de Málaga

Área de Gobierno de Innovación y Digitalización