Airbus R&T and innovation ecosystem and infrastructure
Network effects in transportation systems

MORE DEMAND

MORE DRIVERS

FASTER PICKUPS

MORE GEOGRAPHIC COVERAGE / SATURATION

LES DRIVER DOWNTIME

LOWER PRICES
Digital ride sharing platforms created transportation giants all over the world.
On-demand meals is their next battlefield, powered by the same transport network effects.
Bike sharing in China is scaling and taking share of the on-demand mobility market.
Container shipping revolutionised global trade, but here operators integrated vertically
UPS also integrated vertically and today is the largest transportation company in the world.
We expect UAM to start simple, with limited network effects, but scale to complete networks over time.

Source: Dr. Jean-Paul Rodrigue, Dept. of Global Studies & Geography, Hofstra University, New York, USA.
Our experience from operating in Sao Paulo gives us the first data points for network evolution.
Airbus UAM vision: Multimodal integrated mobility service

Link: https://youtu.be/-FseeVy7uvU
Skyways: Urban logistics “system of system” in Singapore
Vahana: Single (or potentially two seat) autonomous tilt-wing
City Airbus: 4 seat multi-rotor, optionally piloted
Voom: On-demand helicopters in Sao Paulo...
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Airbus’ complete UAM portfolio across all major systems
We build, partner and invest

Build (examples)
- DeckFinder
- Skyways
- Altiscope
- Vahana
- City Airbus

Partner (examples)
- COUNTRY GARDEN
- UNIFLY
- AIRMAP
- SIEMENS
- ITALDESIGN
- BESTMILE
- CABIFY

Seed invest (examples)

Upstream
- Ground infrastructure
- Urban ATM
- eVTOL systems

Downstream
- eVTOL OEM
- Fleet management
- B2C
And we work on all the major design configurations in the emerging UAM design space

Source: Bauhaus Luftfart
Like with autonomous cars, we pursue a dual track incremental and leapfrog approach to autonomy.
We are partnering with EASA to kick off the certification of autonomous systems

Framework for the Certification of More Autonomous Systems

Memorandum of Understanding between EASA and Airbus

24 July 2017
Airbus is also supporting Europe’s Sesar JU in U-Space design and development

Link: https://youtu.be/adxTq_i-lj0