

Advanced Air Mobility for Resilient Cities



Patrik Thollander
Professor
Högskolan i Gävle



Aishwarya Raghunatha
PhD student
Högskolan i Gävle and
Independent Business Group





Advanced Air Mobility

- Before: Surveillance, monitoring, military reconnaissance
- Today: Complementary freight and passenger transport solution

The Advanced Air Mobility Ecosystem

**Urban Air Mobility
(UAM) Market Study-NASA,
2018**

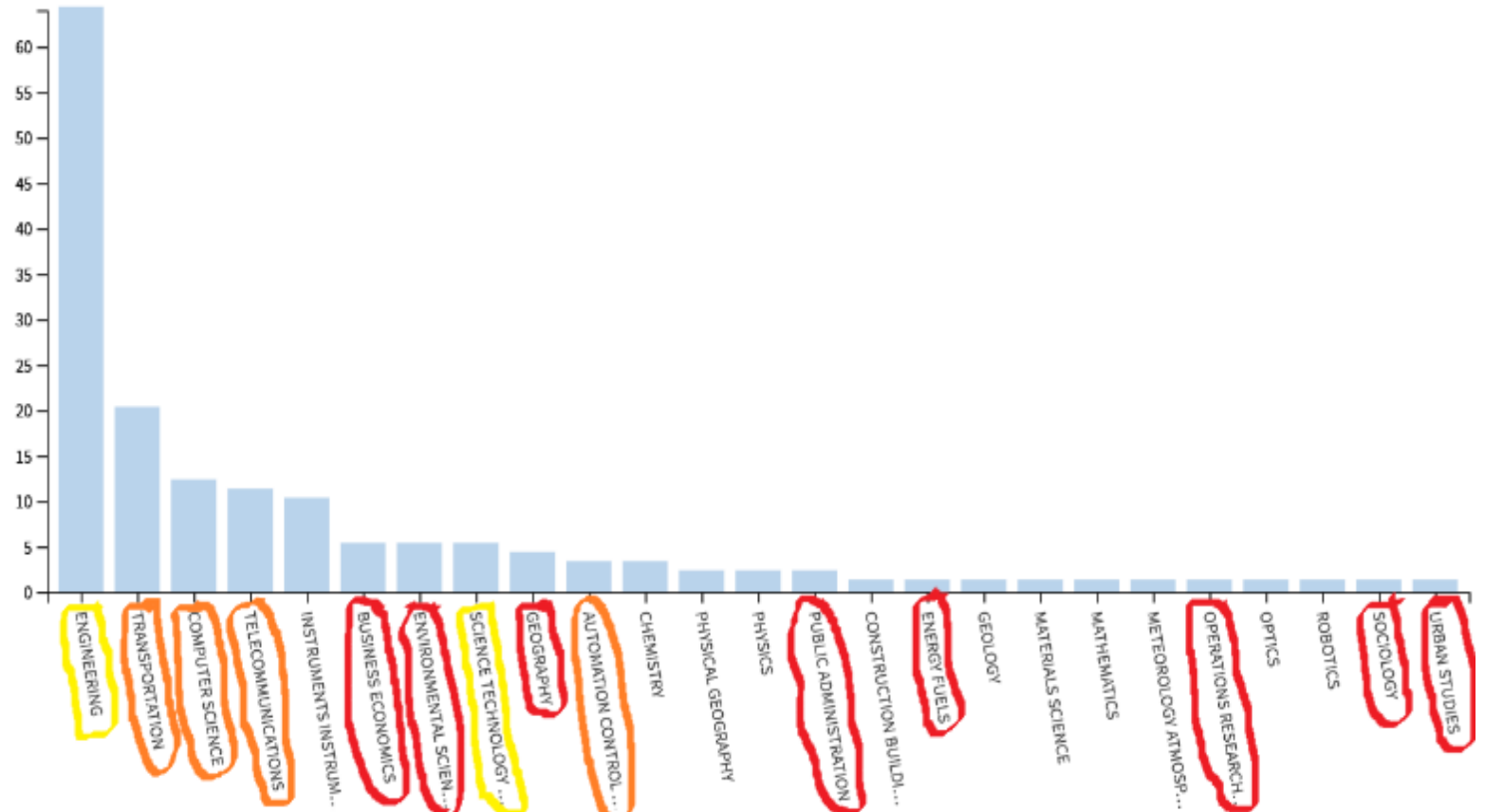
Current landscape

🔍 So far, major focus on Technology

🔍 For implementation:

- Energy
- Environmental studies
- Public administration
- Sociology
- Urban studies
- Business economics

Time to involve all stakeholders





Research Gaps

- Infrastructure- technical assimilation and cost benefits
- Energy- implications for the regional energy systems design
- Environment- noise, visual impact, environmental impacts
- Social sustainability- safety, security, accessibility, affordability,
- Regulations- local regulations to guide and govern the specifics

Feasibility for up-scale implementation of AAM systems



Ongoing research



Study on gaps in regulations

ICAO, EASA, Transportstyrelse, and LFV

Local AAM regulation gaps- Safety, Airspace, Infrastructure, Security, Market, Social aspects

New national authority for AAM?

Tack för att du lyssnat, tveka inte att höra av dig!

Patrik.thollander@hig.se

A.Raghunatha@ibg-sweden.com