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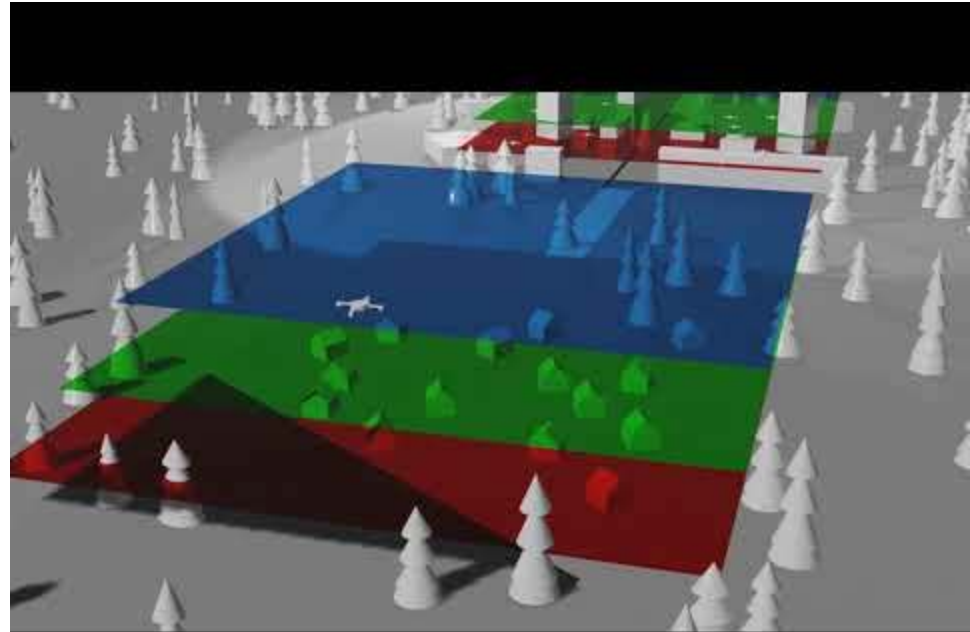


ECOLE NATIONALE DE L'AVIATION CIVILE

Smart Cities & Urban Air Mobility

ENAC + LiU collaboration

- Visits in both directions by students (undergraduate, graduate, PhD) and professors
- Joint publications in top international venues
- Collaborating on:
 - Unmanned aerial vehicles in Smart City airspace
 - Performance-based navigation for drones
 - Risk assessment for urban air transport
 - Design of economic mechanisms for Smart City operations
 - Transport subsidising



But...

But...
No funding :(

Urban Air Mobility, anyone?



Artwork by **NASA**

<https://www.nasa.gov/press-release/nasa-uber-to-explore-safety-efficiency-of-future-urban-airspace/>

Phased Research Approach

Phase 1 – Near-Term

Mapping standard mission profiles to key risk variables



Phase 2 – Mid-Term

Planned mission profiles:
Incorporating tools into flight planning to minimize risk



Phase 3 – Far-Term

Active mission profiles: Using enhanced automation to identify flight risks in real-time

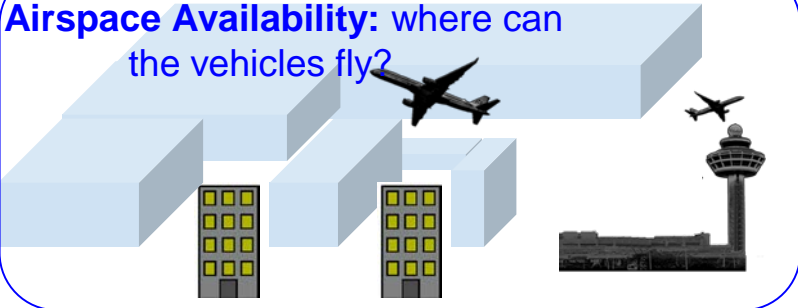


Pre-Approval

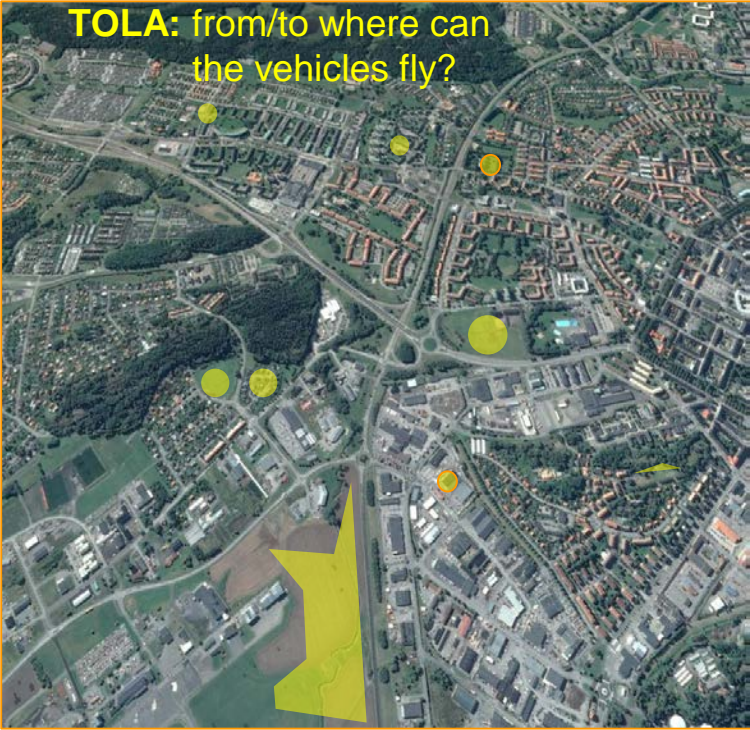
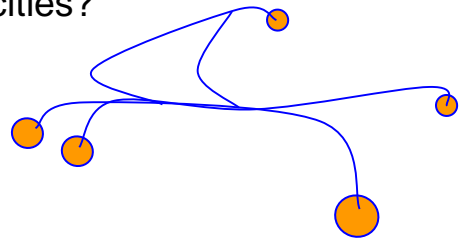


Real-time Approval

Airspace Availability: where can the vehicles fly?



Network design: how to connect air to ground, what are the capacities?



Proposed joint research
(funding opportunities sought)



Who if not leading Swedish and French
air traffic researchers?

li.u LINKÖPING
UNIVERSITY
[Academic Excellence in ATM
\(and UTM\) Research group](#)

