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Background:	Information Technology + Literature
Equals:	Science Fiction



Perspective...

# Why would we want drones?

- Faster Access to Critical Services (e.g. Medical Deliveries)
- Reduced Road Congestion and Pollution
- Increased Services in Underserved Areas
- Improved Public Safety and Emergency Response
- Job Creation and Innovation Ecosystem Growth



## But

For there to be improvements to an infrastructure

There must be an infrastructure

# The beginning:

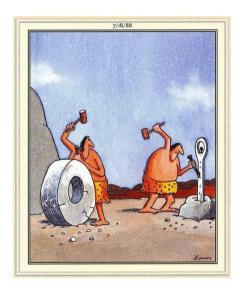
A bar A beer An Englishman Hubris\*

\*refers to excessive pride, overconfidence, or arrogance, often leading to a downfall.



## Where to start?





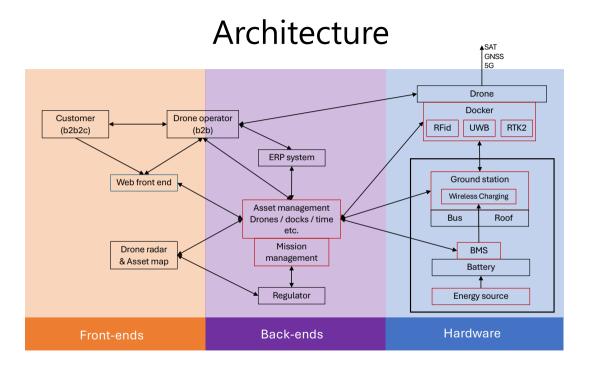
Drone ecosystems and dedicated, shared infrastructure for drones in cities and rural areas is currently **non-existing**.

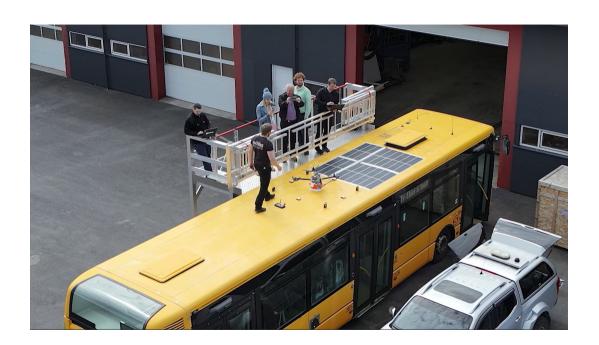
A small part of the **To-do** list:

- Innovative landing technologies
- Innovative communication technologies between drone, dock and the rest of the world
- Innovative energy harvesting and wireless charging
- Innovative Infrastructure Architecture

# So, we started with technology



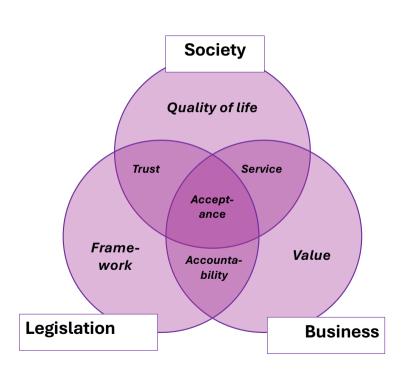




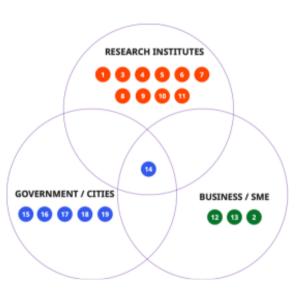
## Conclusion:

**Technically**, we can probably do this

But what about everything else?



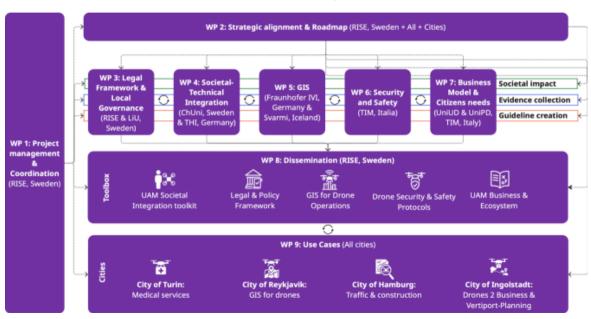
## So, we put together another Team...



- RISE (Sweden)
- Fraunhofer IVI (Germany)
- Technische Hochschule Ingolstadt (Germany)
- Politecnico di Turino (Italy)
- Chalmers University of Technology (Sweden)
- Chalmers Next Labs (Sweden)
- Linköping University (Sweden)
- University of Macerata (Italy)
- University of Udine (Italy)
- University of Padua (Italy)

- 2 TIM (Italy)
- Svarmi (Iceland)
- Straeto (Iceland)
- CRIAQ (Canada)
- City of Ingolstadt (Germany)
- 16 City of Reykjavik (Iceland)
- City of Torino (Italy)
- City of Odense (Denmark)
- City of Hamburg (Germany)

# The Project



### The Use-Cases



### City of Turin: Medical services

This use case focuses on the rapid and efficient delivery of critical medical supplies, such as organs, blood, and medication, within the urban environment. This addresses the urgent need for expedited logistics in healthcare, demonstrating the life-saving potential of IAM.



#### City of Reykjavik: GIS for drones

This use case centers on developing and validating advanced Geographic Information System (GIS) capabilities tailored for drone operations. This includes precise 3D mapping, airspace management, and dynamic routing, crucial for safe and efficient novigation in complex urban topographies.



### City of Hamburg: Traffic & construction

This use case investigates the application of drones for monitoring urban traffic flows, assessing construction site progress, and conducting infrastructure inspections. This aims to enhance urban planning, reduce congestion, and improve efficiency in large-scale city development.



### City of Ingolstadt: Drones 2 Business and Vertiport-Planning

This use case focuses drone services, above all cargo and logistics, demonstrating the potential and operational feasibility. Furthermore, we will focus the planning of an vertiport in Ingoistadt and glance on the challenges and obstacles that may exist for a City.

# Ok, yeah, fancy, but what about...?



# That's it.

Questions?