



**Innovation in the atmosphere**







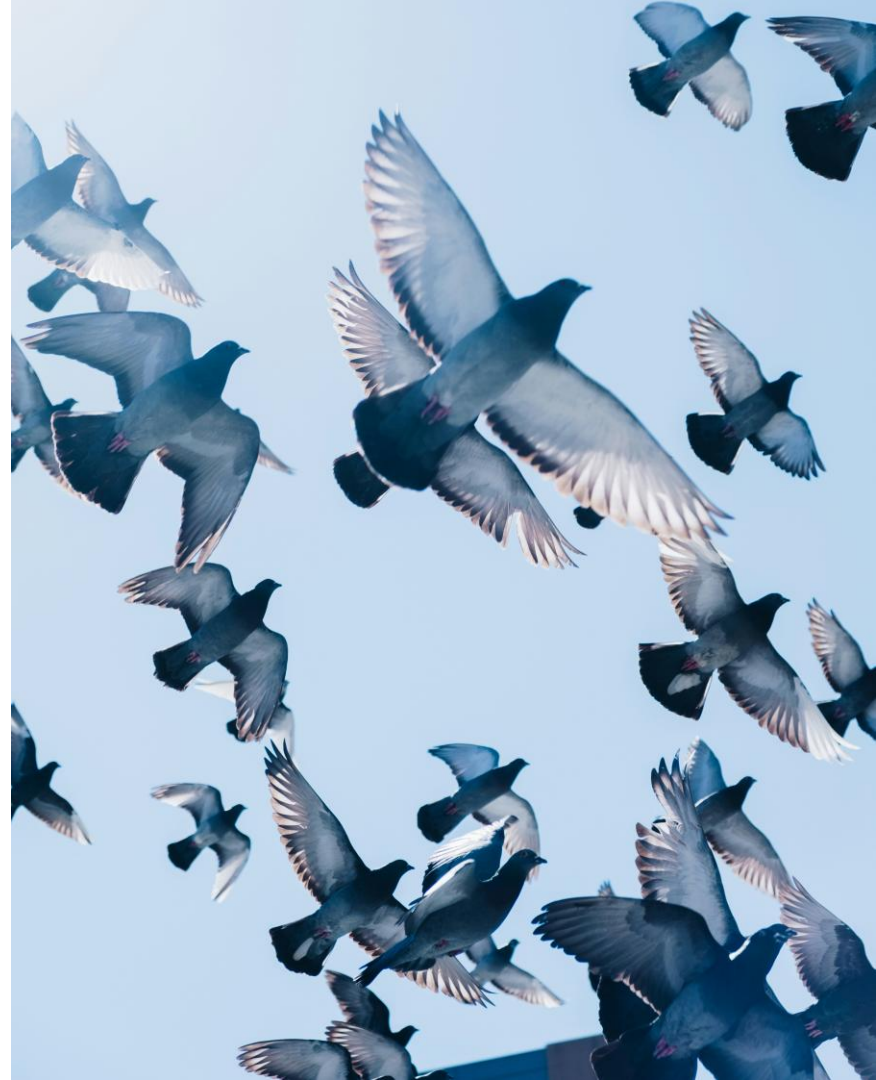




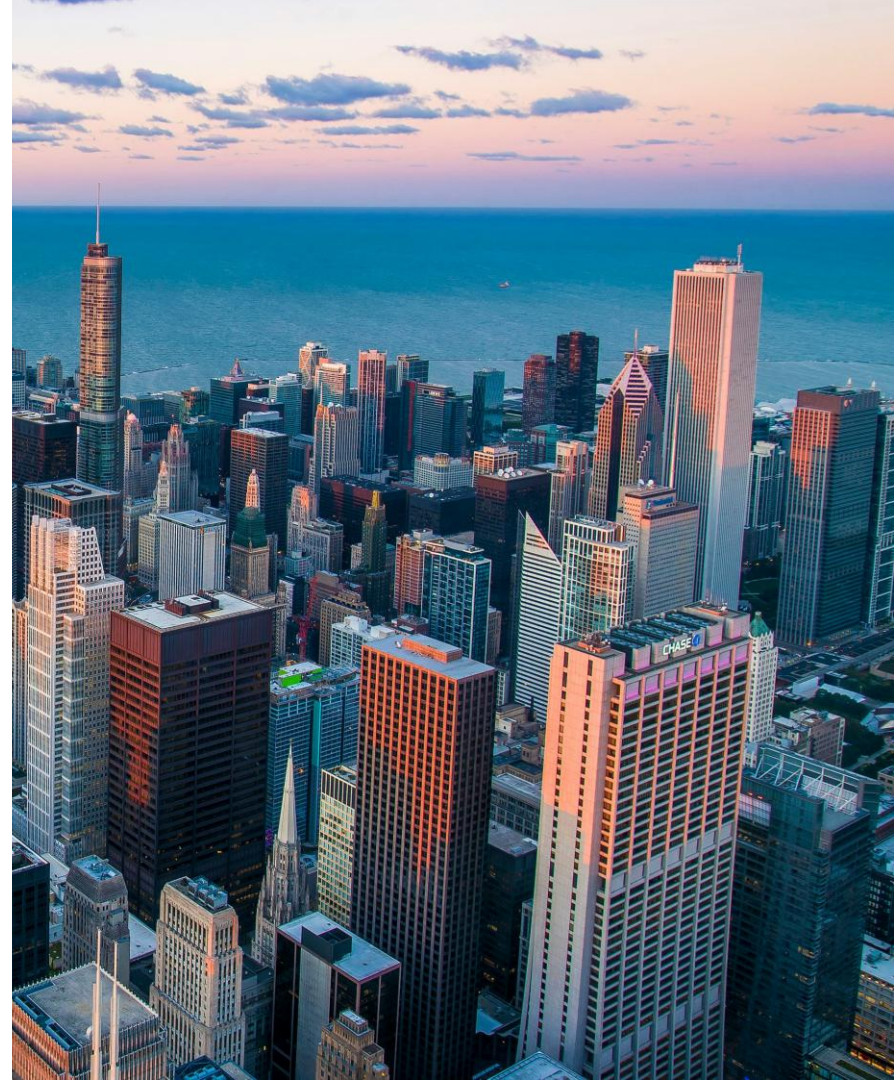
- Parcel and Food Delivery
- Medical Supply Transport
- Aerial Photography
- Surveying and Mapping
- Crop Monitoring
- Security and Surveillance
- Air pollution monitoring



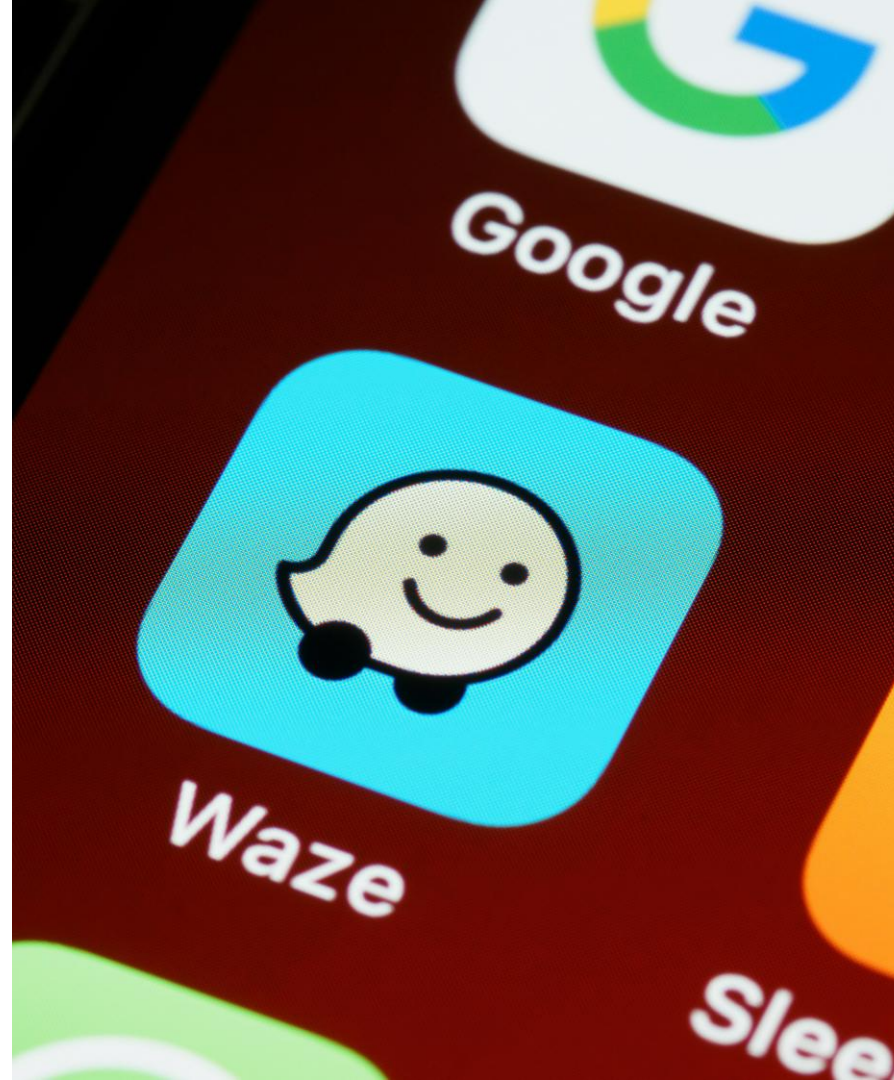
Do not take into account  
wind advantages



Do not use the optimal  
route in urban areas



There is currently no app as reliable as Waze for drones





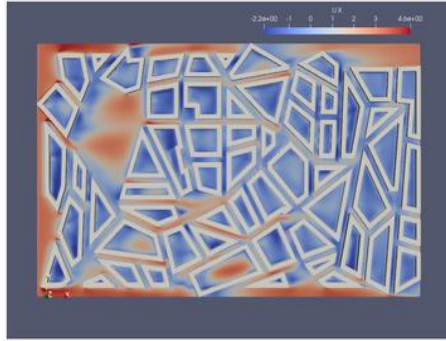
# Smart air navigation app for drones

- Calculate wind effective optimal route
- Up-to-date wind data
- Support flying between buildings
- Knowing safety distances in advance
- Adjustments for each drone type
- Save energy and time

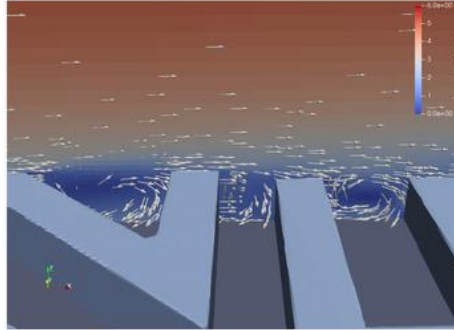


# Deep Tech

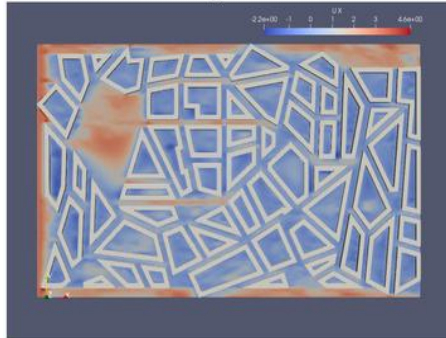
Using Machine Learning to Predict Wind Flow in Urban Areas  
(BenMoshe et al. 2023)



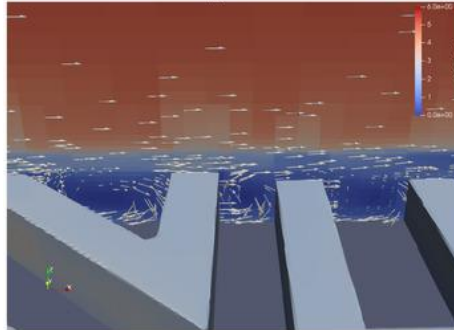
(a)



(a)



(b)



(b)



# Target market

Global Drone  
Market Size

**>\$30  
Billion**

(2025)

Potential Customers

- Delivery Companies
- Municipalities / Medical / Security
- Drone Manufactures
- Photographers, Farmers, Surveyors



# Business Model

- Freemium for amateurs
- Commercial licensing (SaaS) for companies
- API for drone systems
- Collaboration with manufacturers/control systems



# Competitors



Basic, not suitable for the city, no wind support

# Legal Protections

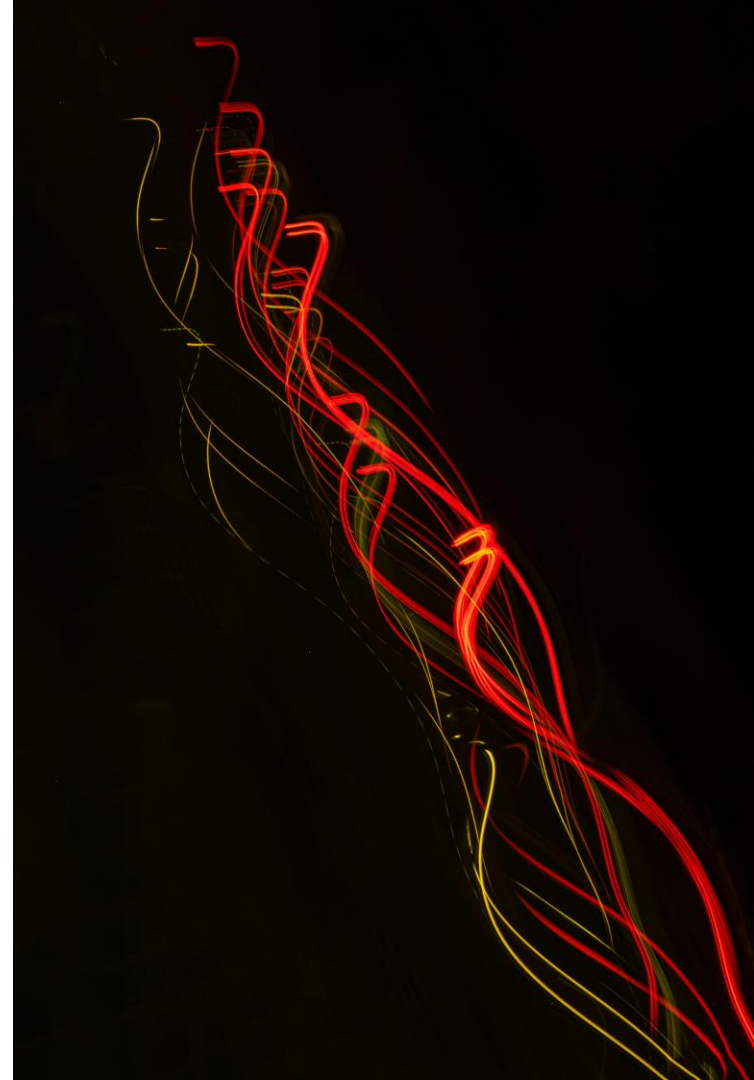
**A patent cannot be registered because of previous publications, but:**

- No need to register a patent if you do not disclose the core code or calculation method.
- It is difficult to reproduce a complex algorithm / machine learning / combination of GIS layers in real time
- The more we use and accumulate unique information, we can create an asset that cannot be copied
- The “Waze” effect
- The more users you have, the more market power you gain
- The former have strategic partnerships that create a barrier to entry for competitors



## Connection to work plane

- Experimental field
- Models testing
- Models improving





The world use more and  
more energy





High dependence on  
polluting or imported energy



Solar panels

only during the cloudless days  
and not during the nights

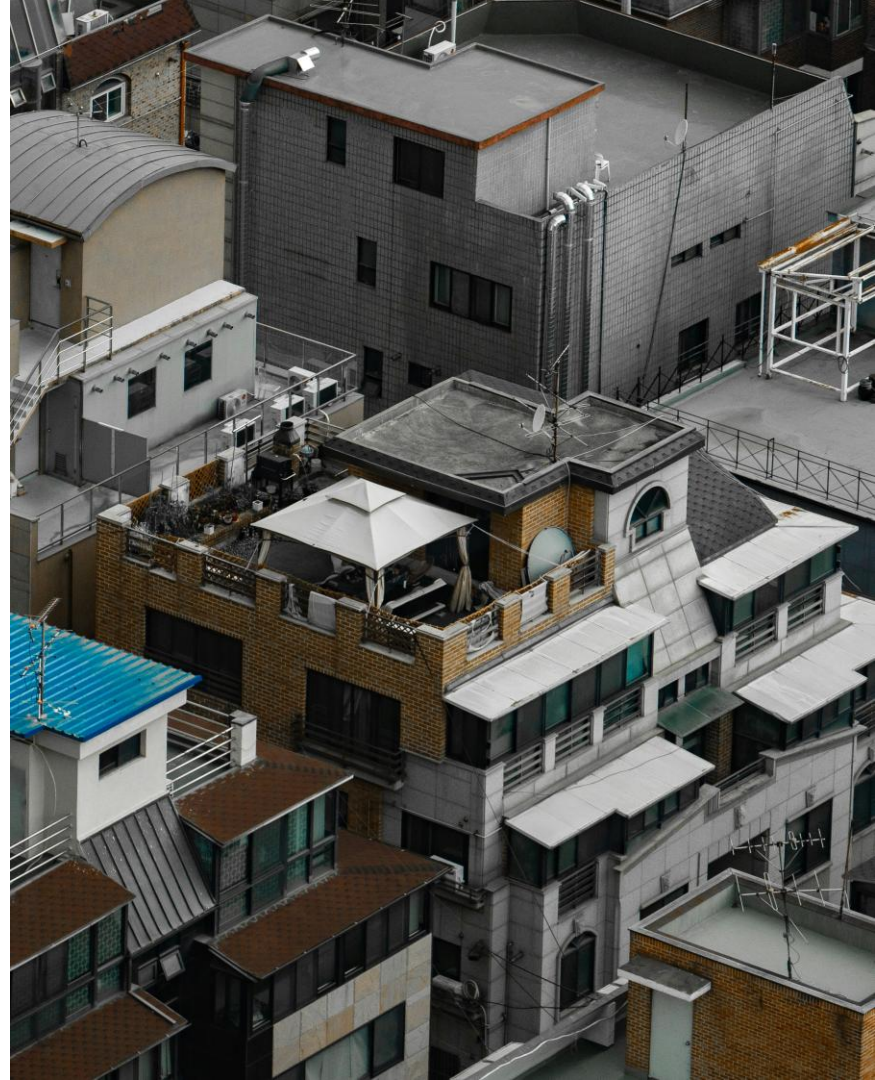


Lack of an efficient and local  
solution for renewable electricity  
production in urban areas





Roofs in urban areas are not utilized for energy production

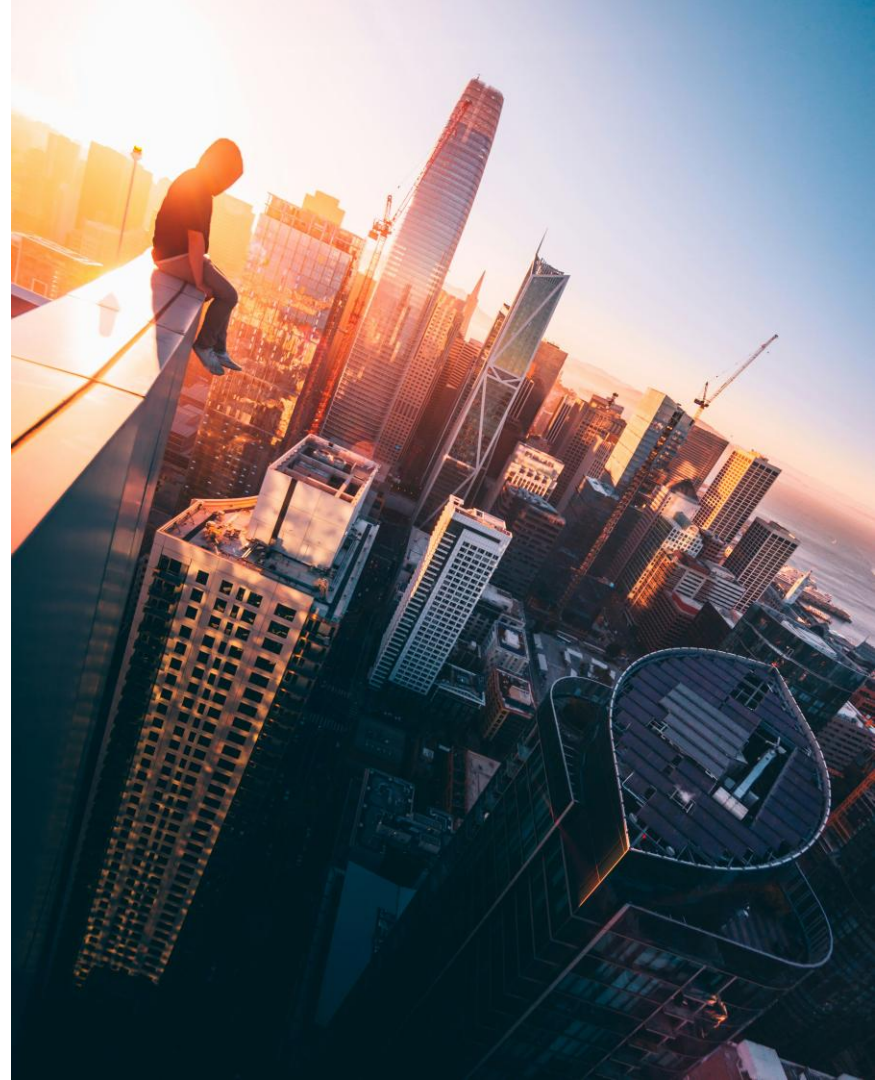




Many cities aim for zero  
emissions by 2030–2050



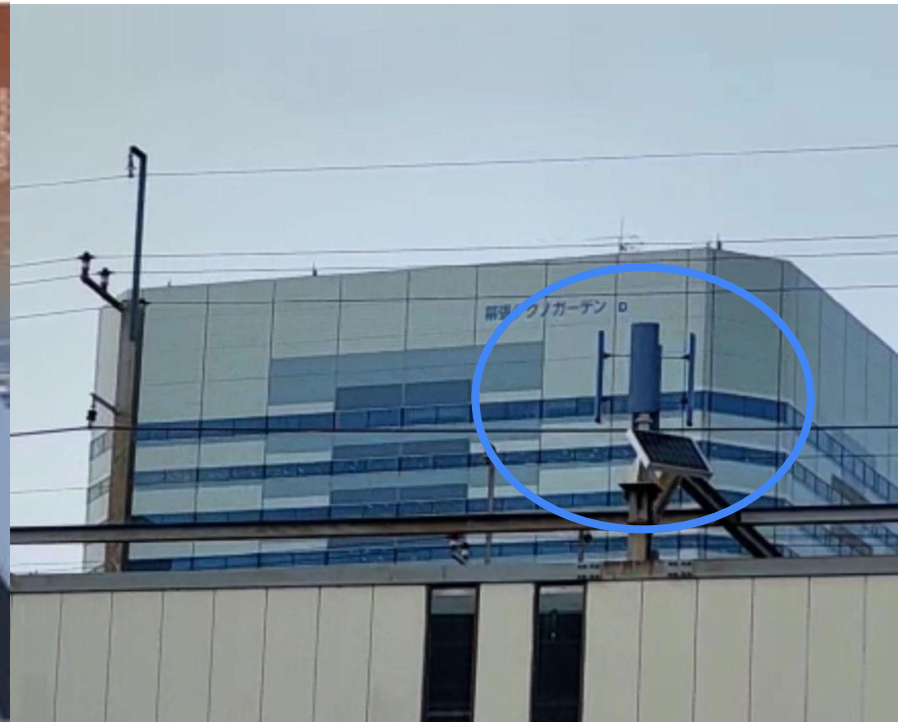
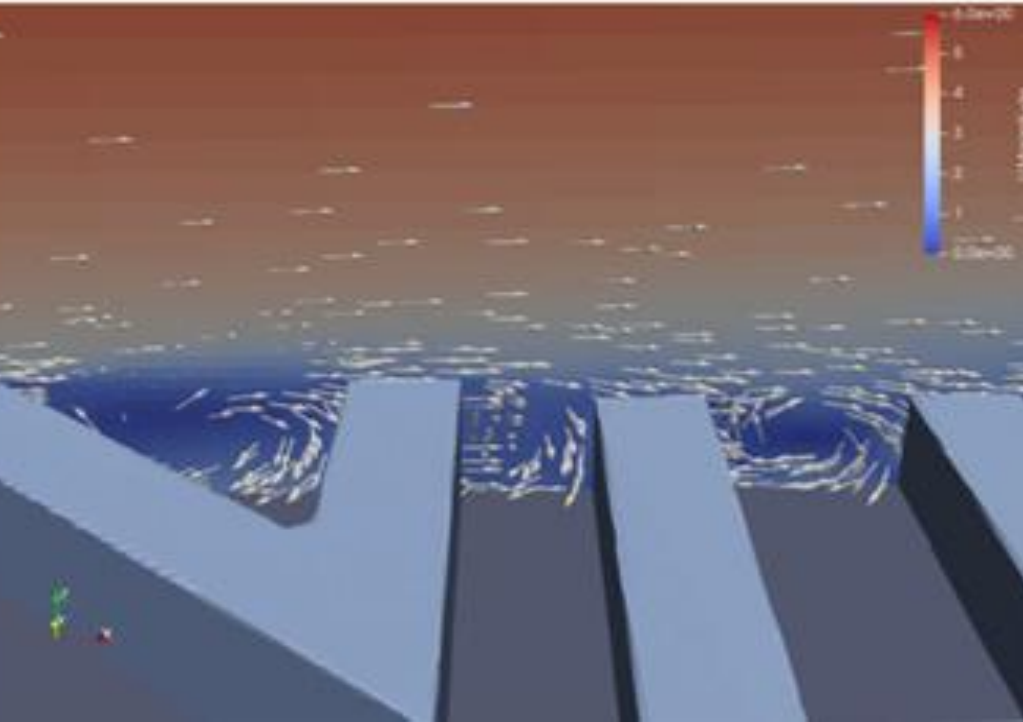
There is enormous potential for  
wind in urban heights



An incorrect location will result in  
an inefficient turbine



# Urban wind turbine





## Why now?

- Regulation supports green energy
- Rising electricity prices
- Smart technologies
- Trend of "smart" cities
- Urban public buildings
- Green building projects
- Local authorities
- Private building owners



## Target market

Size of the urban  
renewable energy market:

**Billions,  
growing  
rapidly**



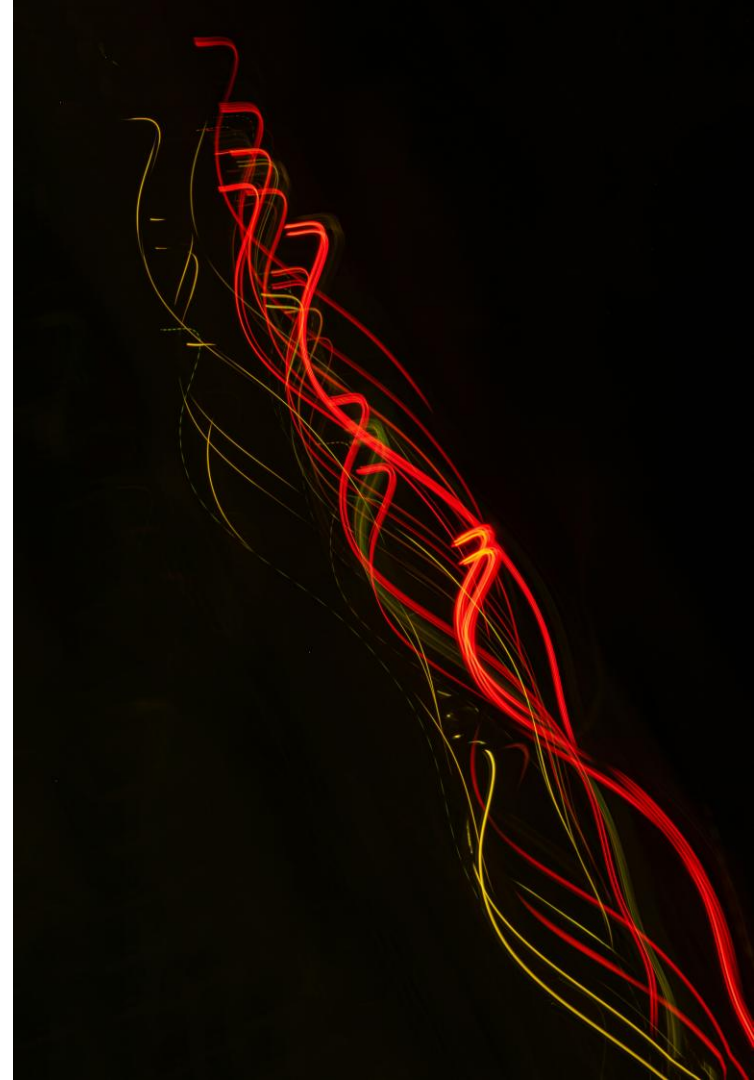
# Business Model

- Software/website for optimal wind turbine location.
- Collaborations with turbine installers, green organizations / the Ministry of Public Health / municipalities
- Energy production forecast for installed turbines



## Connection to work plane

- Experimental field
- Models testing
- Models improving





# Nir BenMoshe

- Physicist, Applied Mathematics Department, IIBR
- PhD in atmospheric science (Cloud Physics)
- PostDoc, Princeton University
- h-index 11, 1146 citations
- Former Breezometer Chief Scientist (acquired by Google for ~250M USD)
- Expert in atmospheric flow