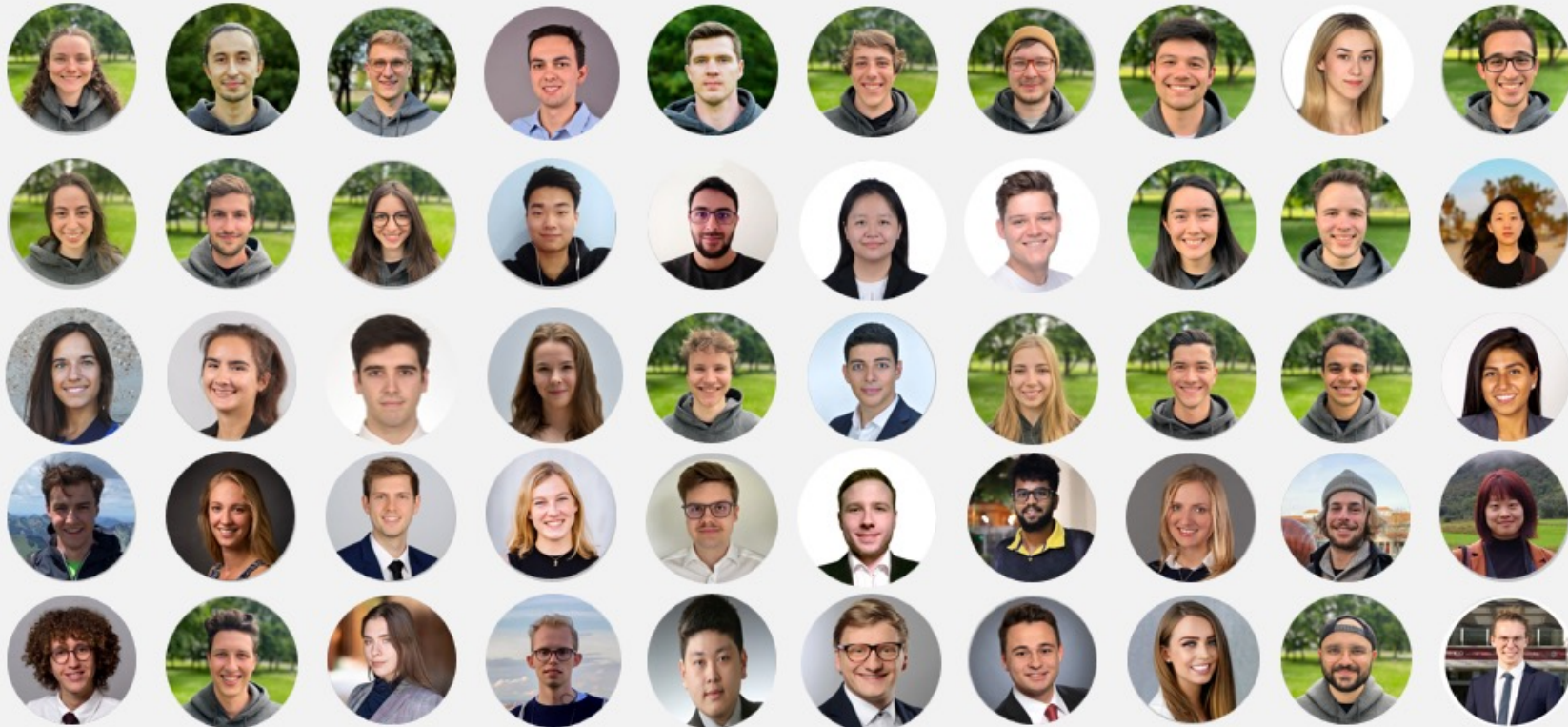


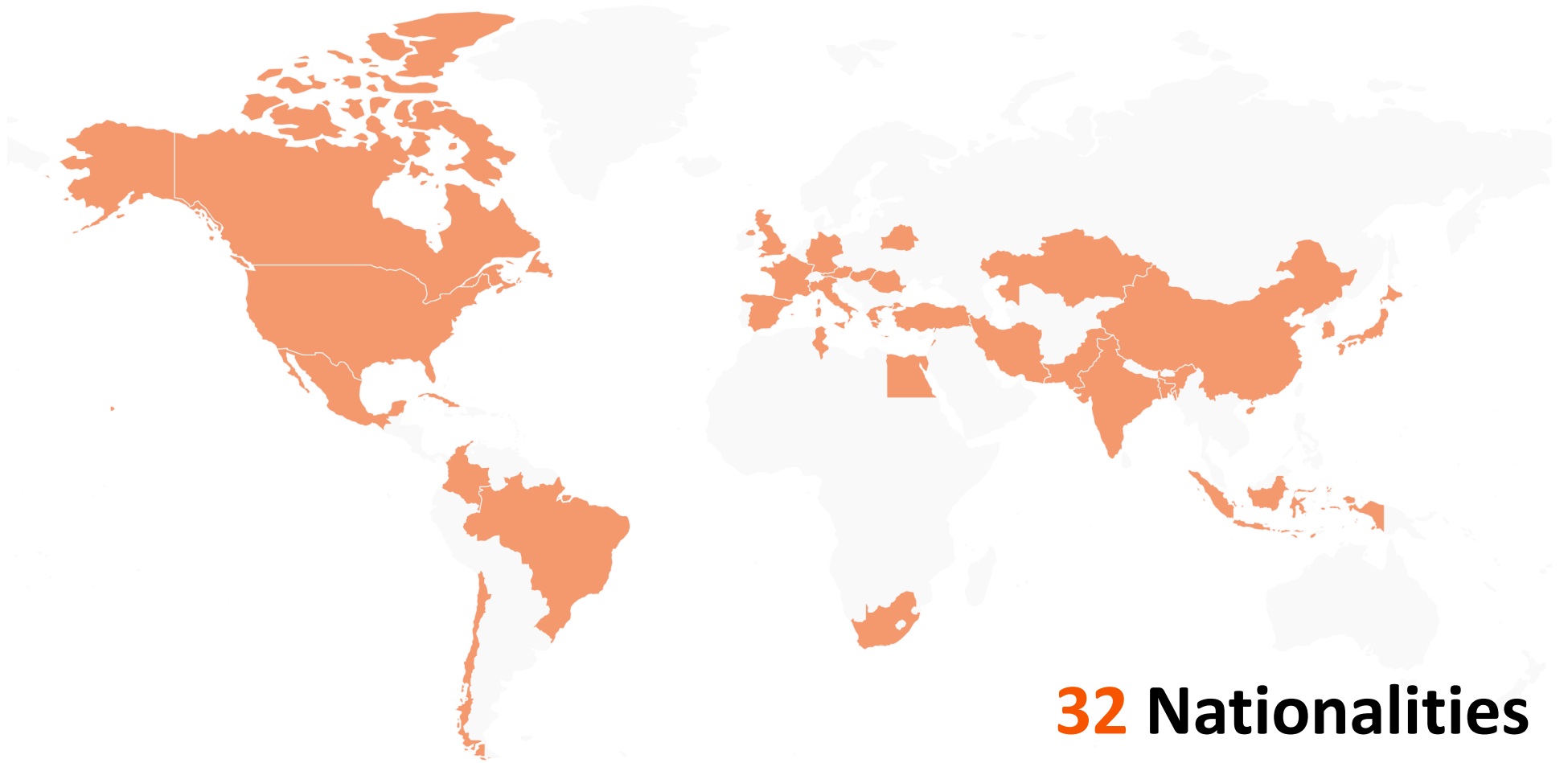


| Agenda

- ▶ Introduction of HORYZN
- ▶ Mission Pulse the Defibrillator Drone
- ▶ Next Project – Mountain Rescue Drone Ecosystem
- ▶ What we need

| 81 Members





32 Nationalities

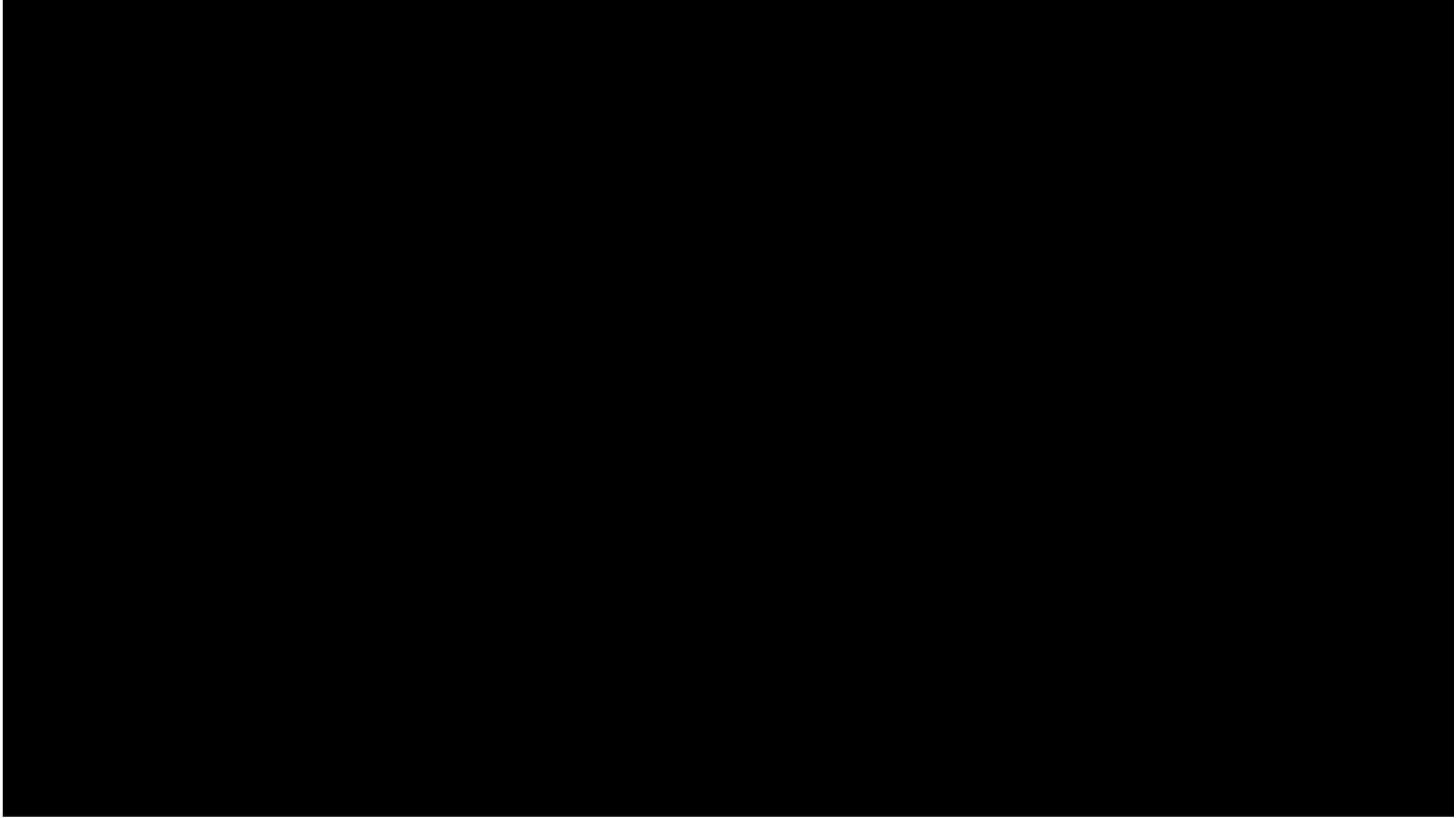


18 Prototypes

First Project:

Silencio GAMMA





Second Project:

Mission Pulse



| 1 Goal

Saving lives with drones.

| Every **second** counts



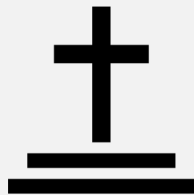
115.000

People suffer cardiac arrest in Germany every year



11min

Average response time of an ambulance

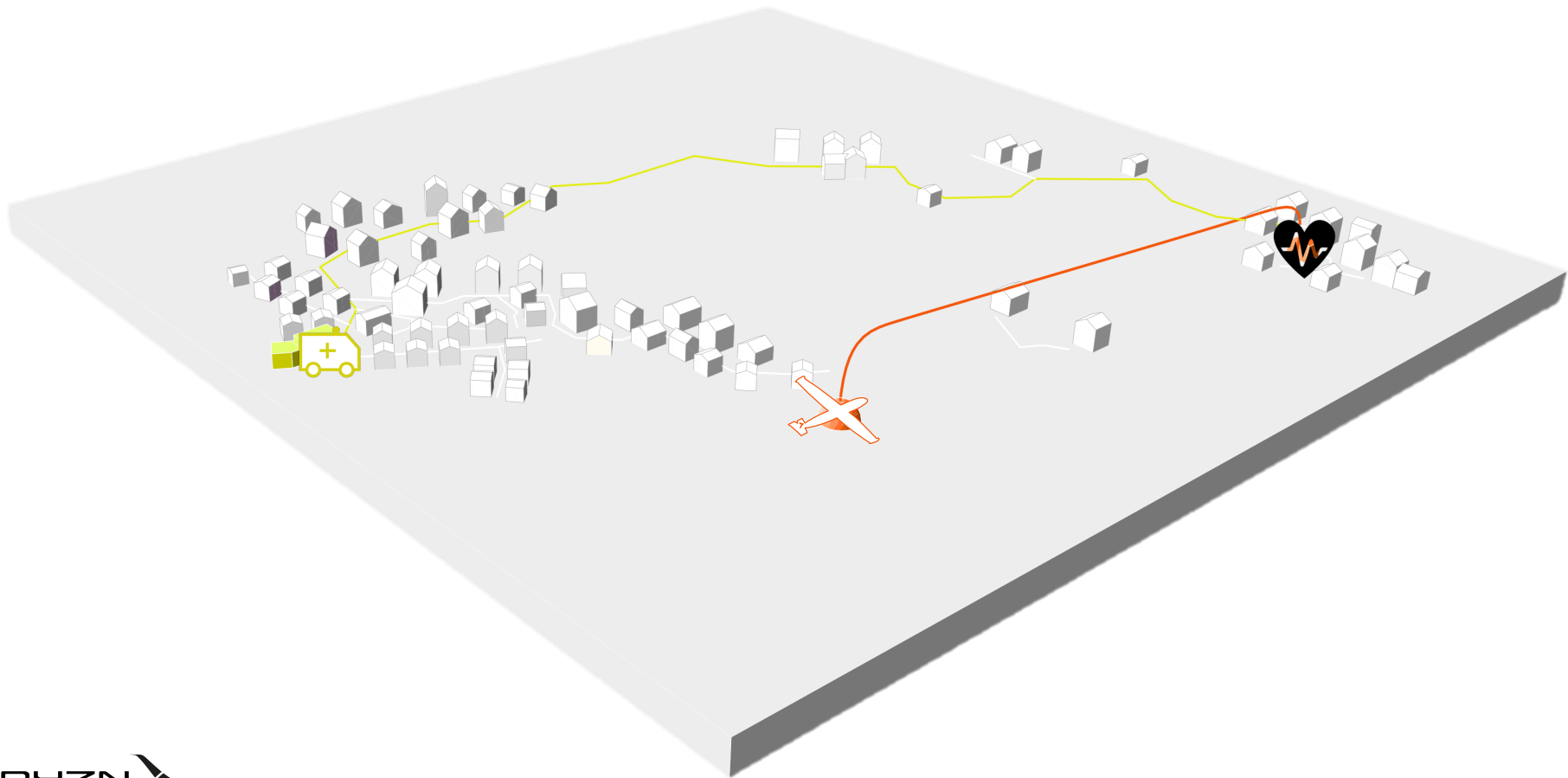


89%

Patients do not survive

The **first eVTOL** defibrillator transport in Germany

eVTOL UAV (electrical Vertical Take-Off and Landing Unmanned Aerial Vehicle)



| 3x higher survival rate

70%

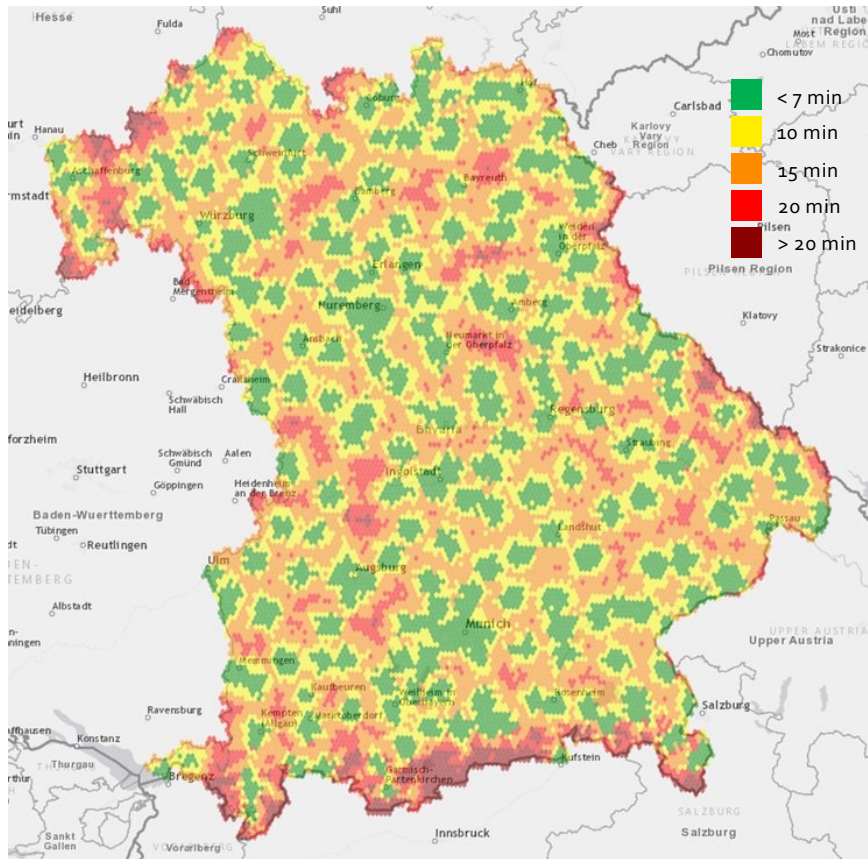
Survival chance of all people who have a shockable rhythm



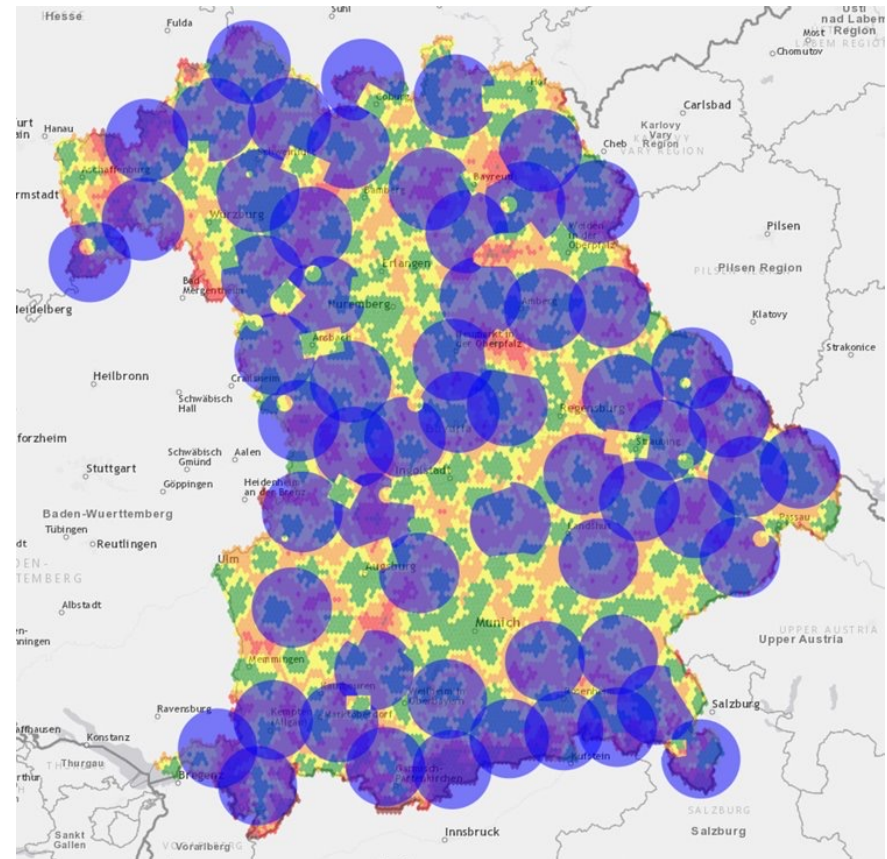
Reduction of long-term neurological sequelae
due to early shock delivery



| 60 drones to half the response time

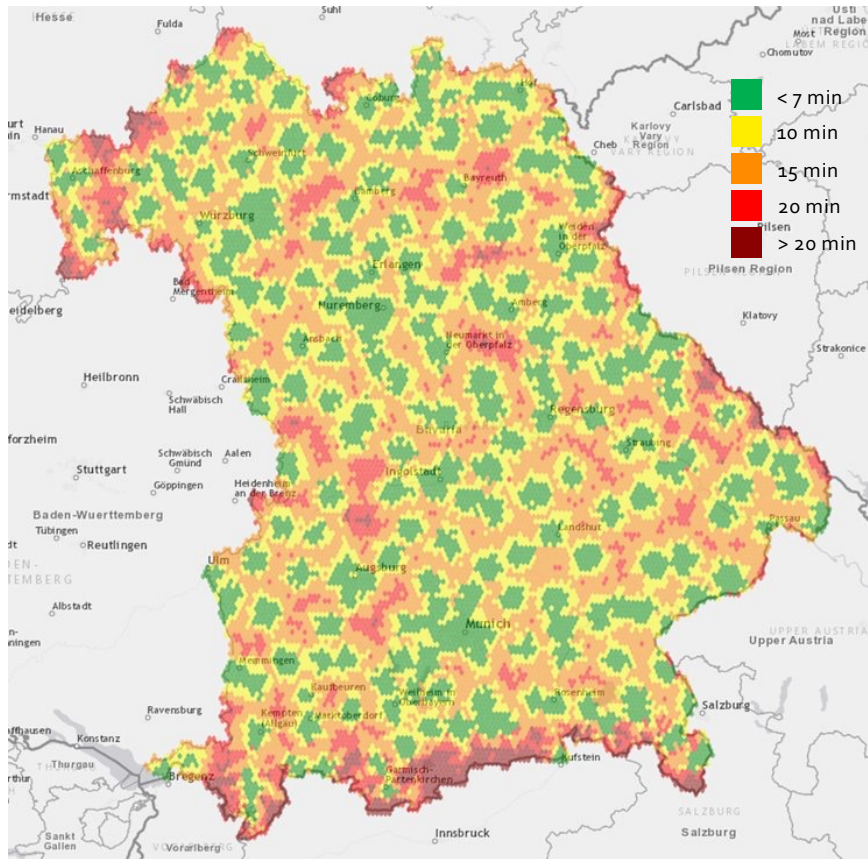


Response time ~11 min

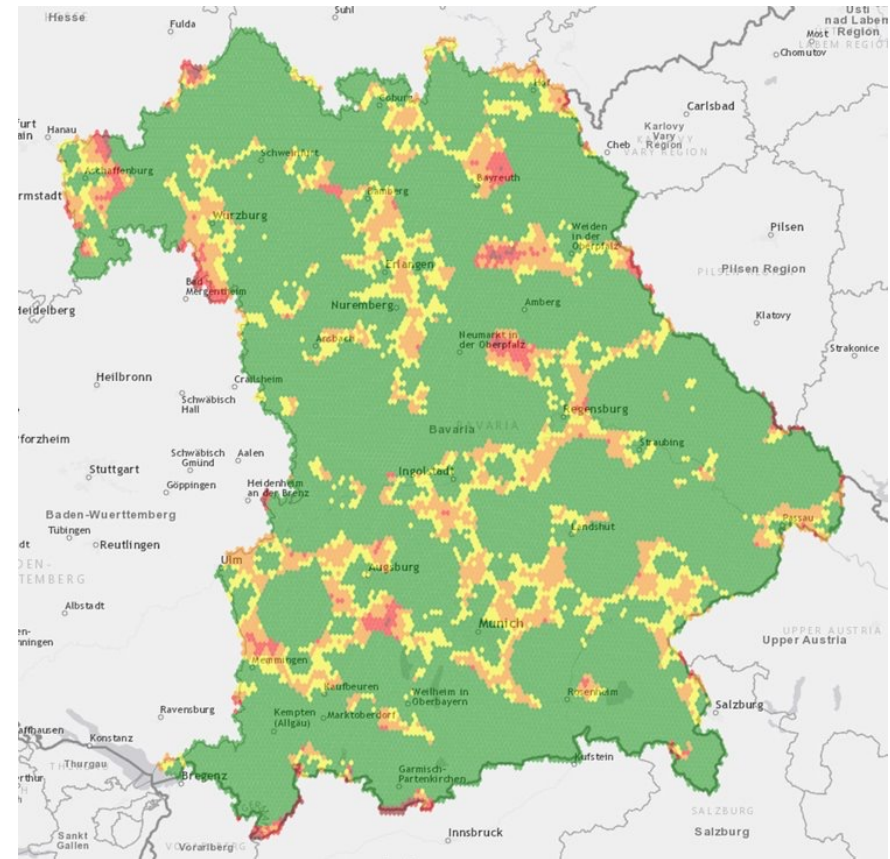


Response time ~5 min

| 60 drones to half the response time



Response time ~11 min



Response time ~5 min



Next Project



Develop a novel drone technology to improve the safety and operational performance of mountain rescue workers.

The Problem

Search for patients



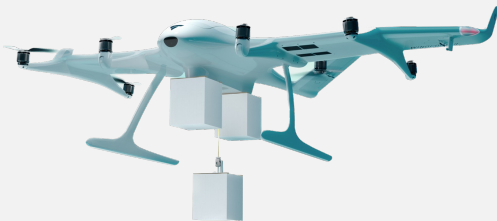
"Eye in the Sky" Investigation



Communication and diagnosis of patients



Transport of rescue supply



Navigation for lost mountaineers



Drone-aided communication networks



The Problem

No efficient drone solution exists for mountain rescue applications from fixed A to undefined B

Various and complex requirements



Payload



Operational
radius



Always ready
for use



Parallel
operations



Low space
requirement

Available solutions



Individual
Systems



Fixed A to
fixed B



Slow



Big differences
between systems



Not
customizable

Modular **Drone EcoSystem**

Various and complex requirements



Payload



Operational
radius



Always ready
for use



Parallel
operations



Low space
requirement

Available solutions



Individual
Systems



Fixed A to
fixed B



Slow



Big differences
between systems



Not
customizable

Modular drone ecosystem optimized for mountain rescue applications



Our Goal



Fast in all phases



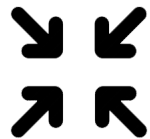
Cost-effective



Modular and sustainable



Efficient



Space-saving



Reliable

Challenges



Loss of signal



Collision avoidance



Weather conditions

What we need



Cooperation with mountain rescue services to develop a modular drone ecosystem for mountain rescuers.

Stay in touch



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