

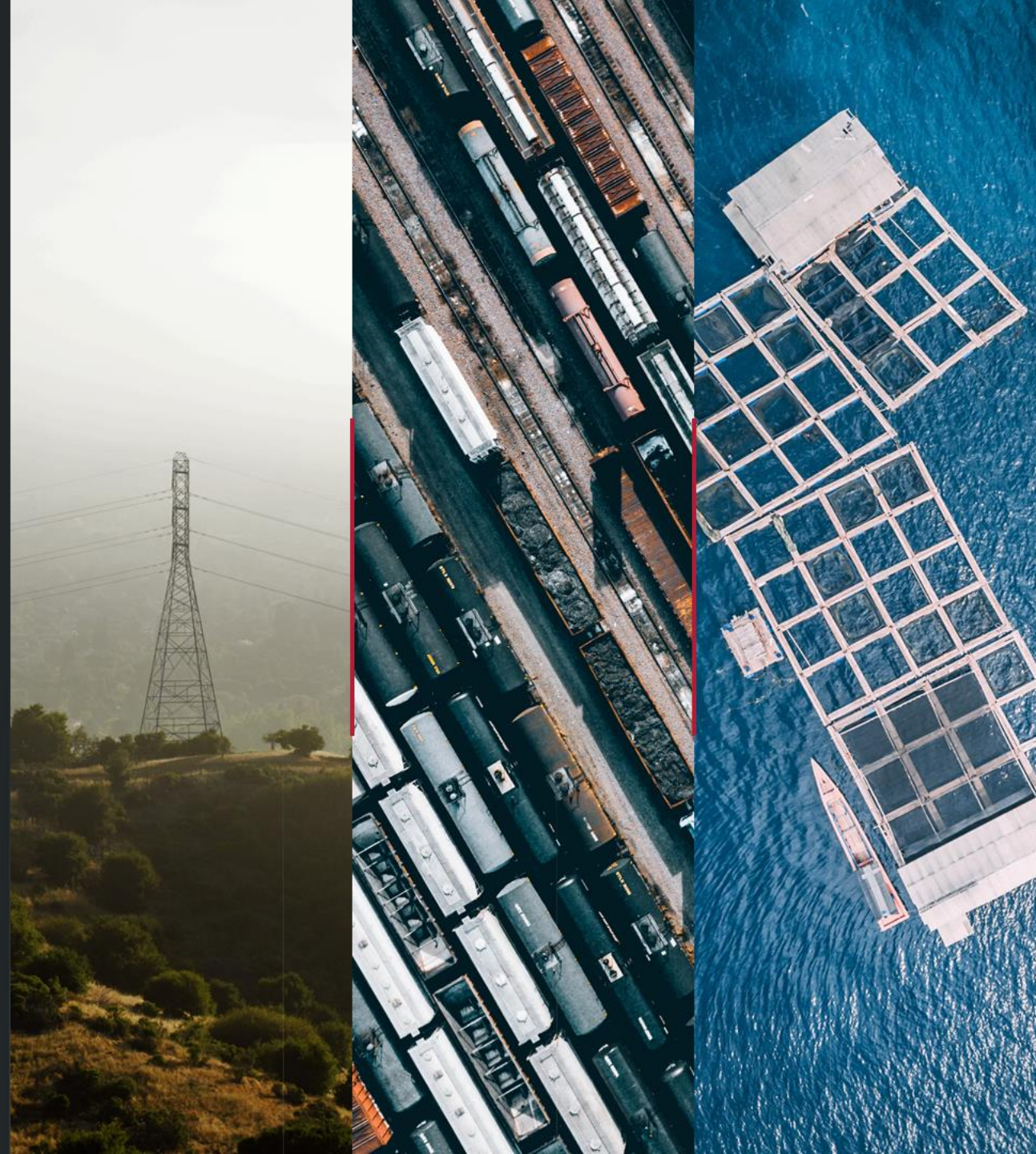
Koncepty autonomních služeb s využitím dronů

DRONE GOES INDEPENDENT

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Drones have come through rapid developments in the past few years. From
a gadget for tech geeks that could barely fly to the solution applied in many industries.

The most common usage is monitoring. From power lines, railway tracks to increased risk areas and even nuclear power stations. These areas can finally be inspected at lower risk.



FANTASTIC! BUT...

Five years of improvement hasn’t already brought the solution to one critical issue - working time of drone. A typical flight time reaches up to 25 minutes. In case of a large area, things get complicated.



Additionaly, someone has to:

- Be within easy reach of drone and take control
- Land the drone correctly
- Turn off the drone and change the battery
- Turn on the drone
- Upload a mission and verify if the drone took off successfullyt



WHAT DOES IT MEAN?

- Despite the high level of today's technology, we are still unable to conduct a fully automatic drone mission.

- What's the point of drone monitoring if someone needs to follow and service it anyway?

- In every monitoring attempt, the first limit is the flight time.



WHAT CAN YOU DO ABOUT IT?

WHAT IF WE TOLD YOU WE ALREADY DID?

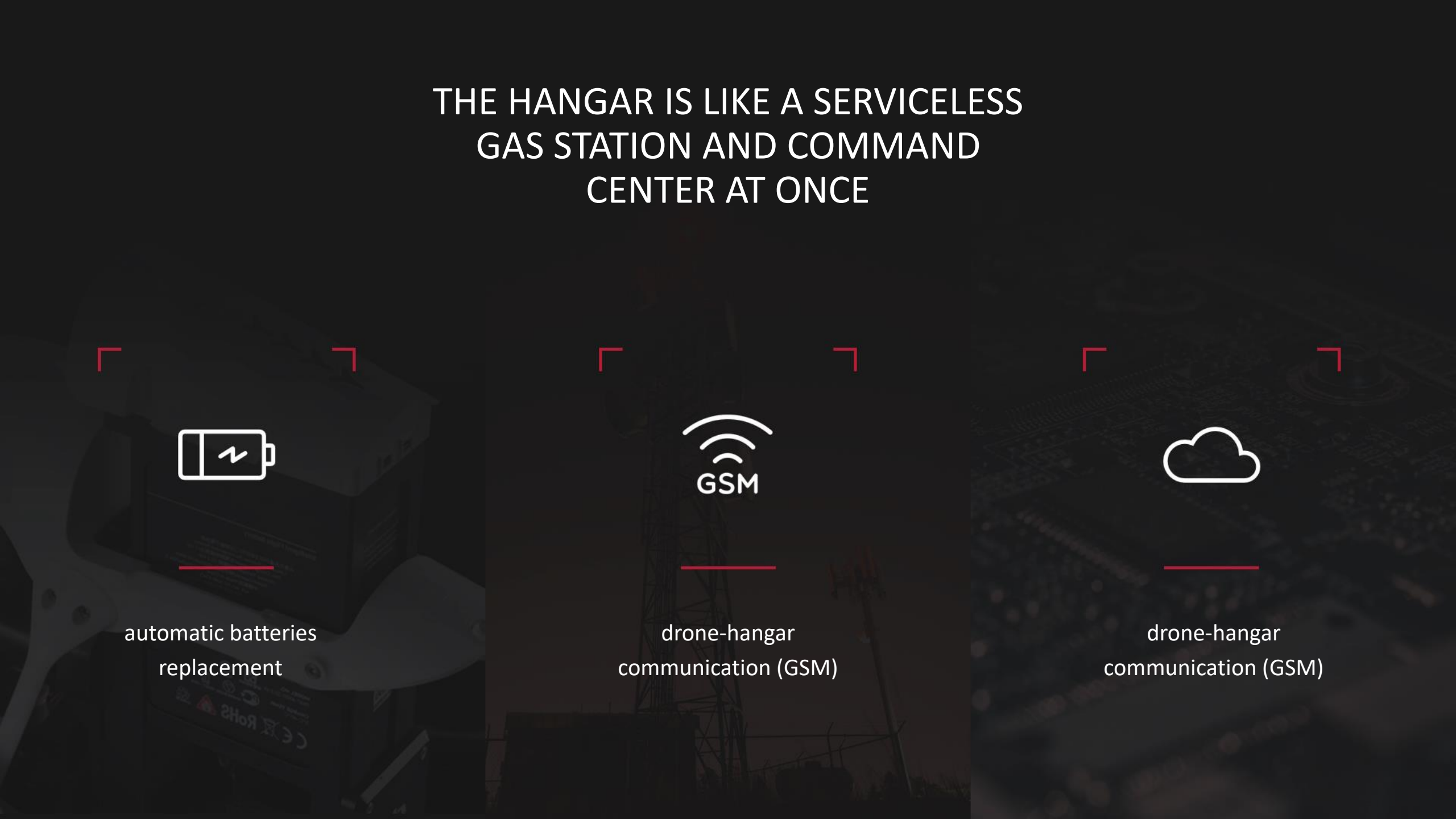
MACHINE REPLACES HUMAN

Dronhub is a system of autonomic hangars that exclude human's involvement into drone missions. What does it mean?

Dronhub manages all drone flight and maintenance issues because it services the UAV entirely autonomously.



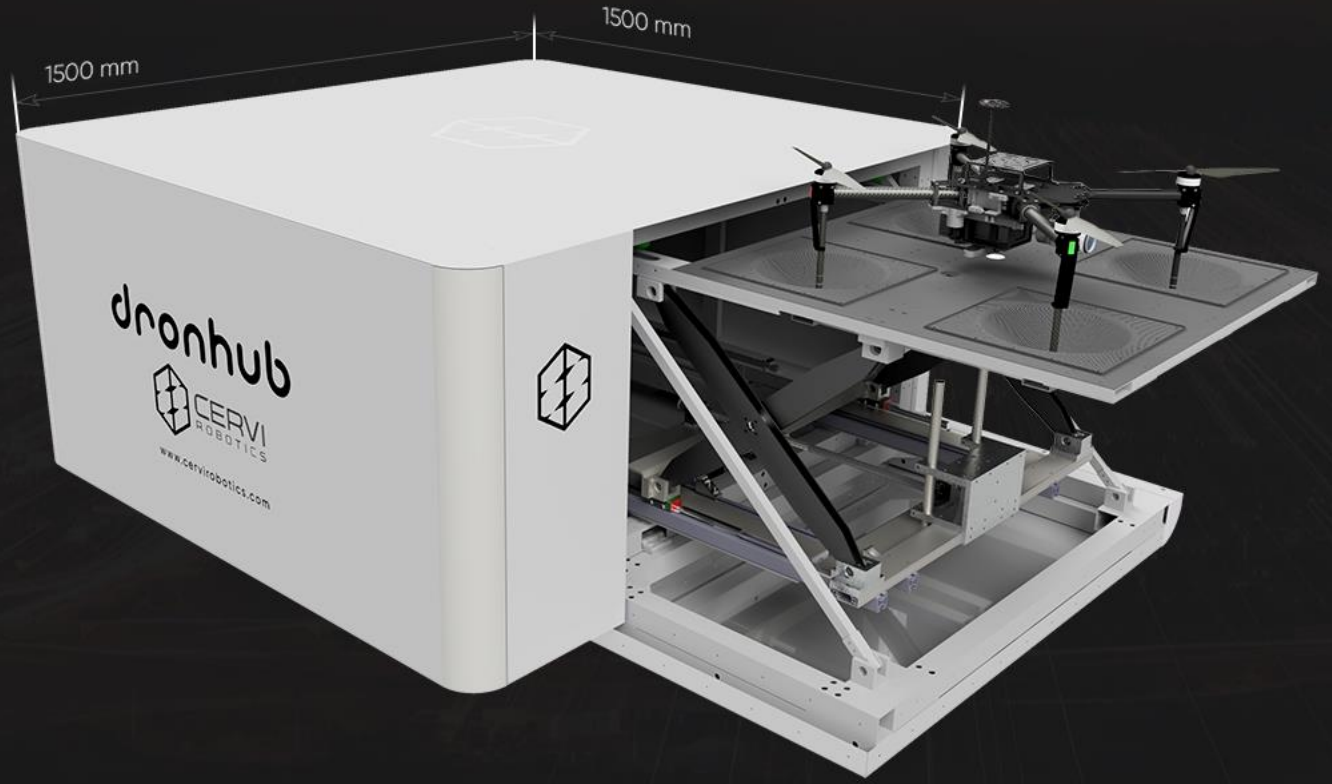
THE HANGAR IS LIKE A SERVICELESS GAS STATION AND COMMAND CENTER AT ONCE



automatic batteries replacement

drone-hangar communication (GSM)

drone-hangar communication (GSM)



casting resistant to extreme
weather conditions

the consumption
of energy is low

drone-hangar
communication (GSM)

WHAT DO COMPETITIVE SOLUTIONS OFFER?

- drone storing system
- end-to-end solution
- custom drone
- battery charging system





WHAT DID WE DO DIFFERENT?

COMPATIBILITY

We prepared our solution to fit as many models of industrial drones as possible. You have many possibilities of application, no matter the equipment you use.







2-3 HOURS

This is the time of charging the batteries in a standard industrial drone after 20-30 minutes flight.

UP TO 2 MINUTES

This is the time of charging the batteries in a standard industrial drone after 20-30 minutes flight.

HOW DOES IT WORKS

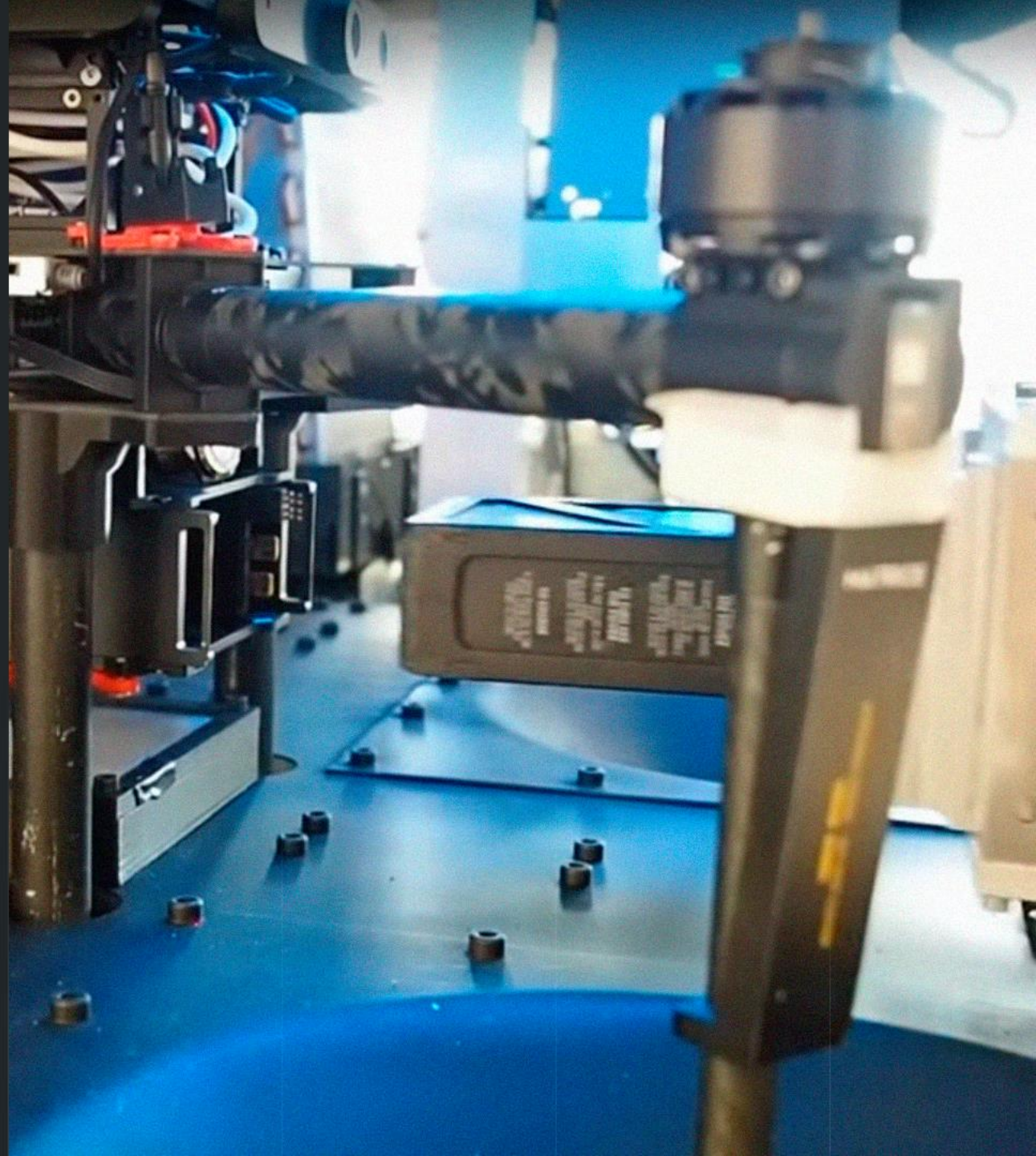
Every hangar is equipped in 8 batteries. When the drone arrives, hangar changes its flat batteries to fully charged ones. The batteries stock allows for constant supply for a drone.



LET'S DO SOME MATHS

Supposing average drone flight is about
20 minutes, the drone needs 3 batteries per hour (3x20 min). Charging the flat battery takes 1 hour. What does it mean?

The supply of 6 batteries is enough to allow the drone to fly for almost 24/7!



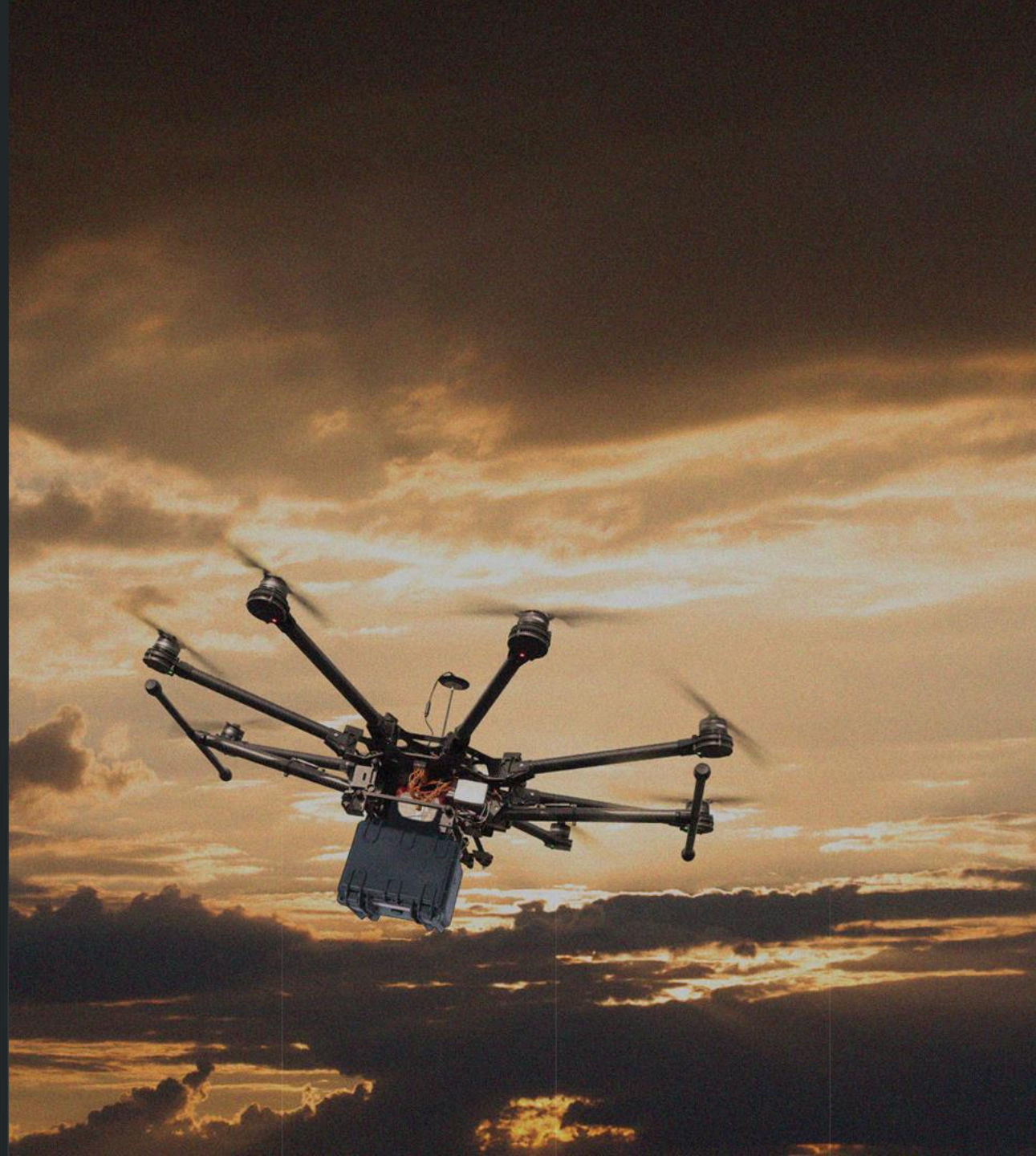


CONCLUSION?
DON'T CHARGE, CHANGE!

ELIMINATION OF MENTIONED OBSTACLES GENERATES UNLIMITED USE CASES. EXAMPLE? LET'S TAKE A LOOK AT AMAZON.



How about package transport done by drones? By creating a network of Dronhub hangars, Amazon could provide drone shipping within 1000 km from its warehouses!



HOW DO YOU KNOW DRONEHUB IS FOR YOU?



WE DEDICATE OUR SOLUTION TO THE THREE MAIN GROUPS OF RECIPIENTS:



subjects monitoring large areas



subjects monitoring small areas



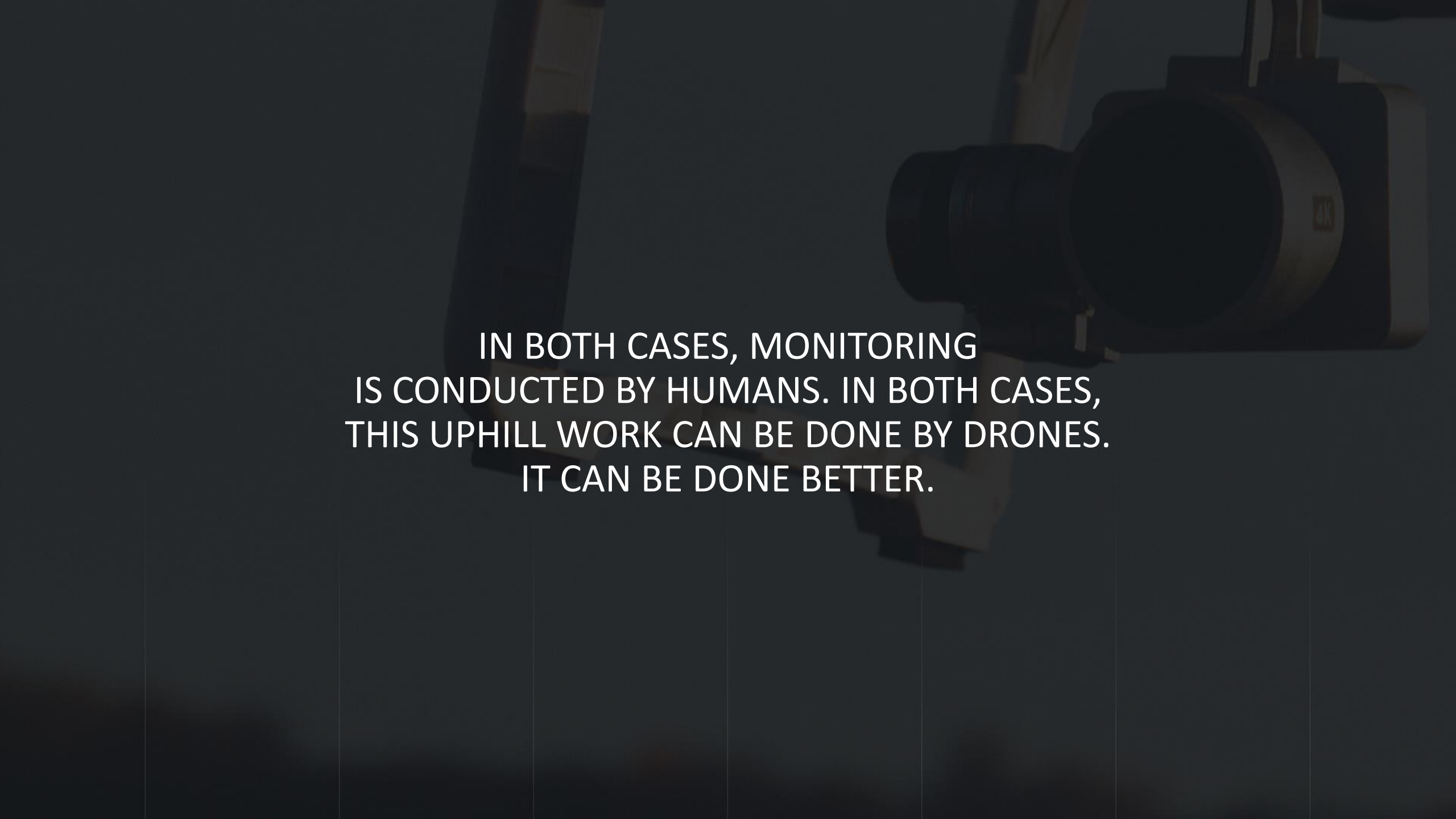
subjects that own drone parks

MONITORING OF LARGE AREAS

Deutsche Bahn owns 41,315 km of railway lines only in Germany. 70% of them demand constant monitoring.

The length of the border between Poland and Ukraine is about 529 km long. FRONEX monitors it whole, 24/7.

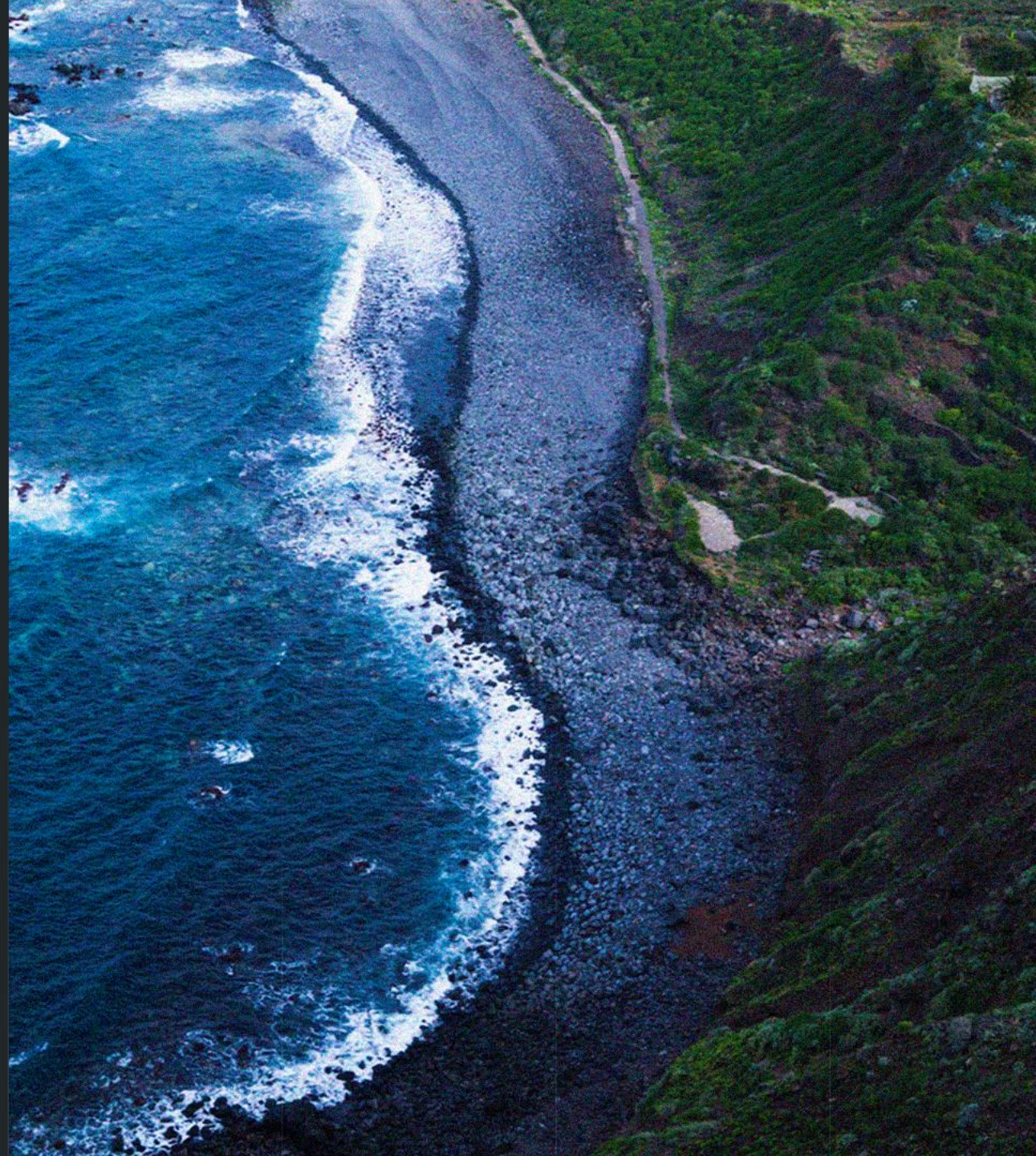




IN BOTH CASES, MONITORING
IS CONDUCTED BY HUMANS. IN BOTH CASES,
THIS UPHILL WORK CAN BE DONE BY DRONES.
IT CAN BE DONE BETTER.

One drone can monitor up to 30 km
of the route before changing batteries.

Placing Dronhub hangars in strategic points allows
for effective monitoring of chosen
area 24/7.



MONITORING OF SMALL AREAS

Security companies, factories, ski resorts, rescue companies - for the needs of these subject one hangar with one drone is enough to provide a high level of monitoring of the whole property

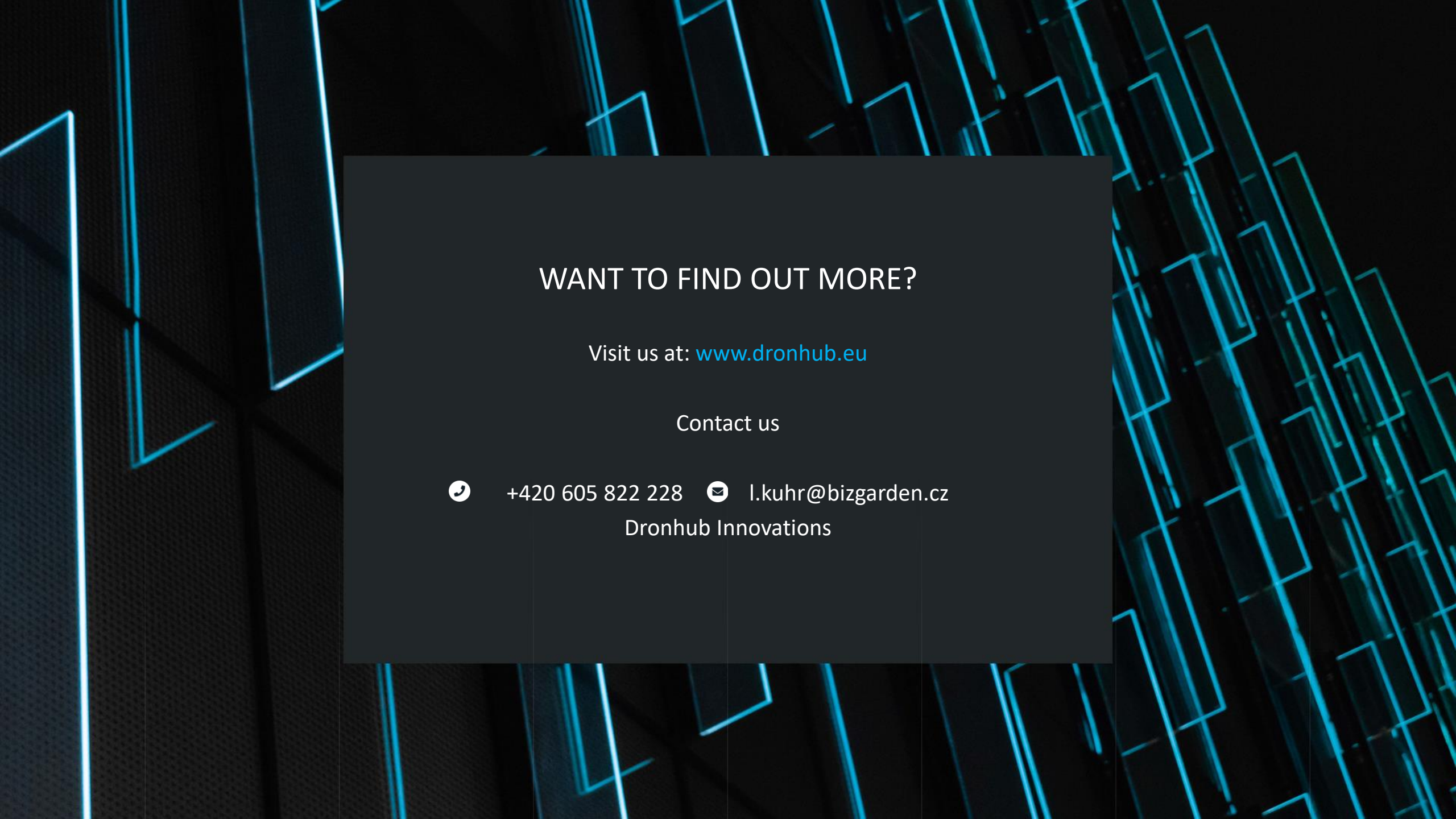


DRONE PARKS APPLICATION

Do you already have your fleet of drones?
Is the place of storing them a struggle?
Dronhub is for you!

Keep your machines safe and well maintained.
Solid construction provides the highest level
of service, so your drones are ready to
use any time.





WANT TO FIND OUT MORE?

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Dronhub Innovations