HyLight

Sustainable aerial inspections

Automated airships for infrastructure monitoring

Inspections are inefficient

Carbon footprint → 1 tonne CO2eq/h

Not data driven → visual inspection

Expensive

5 M km
Pipelines

75 M km
Power lines

HyLight

Tailored for inspections

Sustainable → 0 CO2eq/h in flight

Data driven → multispectral sensors

Cost effective

Long-Range Automated Hydrogen Airship

The only solution without compromise

	Helicopter	Quadcopter	Plane drone	HyLighter
Flight time	2h - 5h	20min-1h	45min – 7h	+10h
Speed range for data collection	0 - 14 m/s	0 - 10 m/s	minimum 17 m/s	0 - 10 m/s
Stationary flight	✓	✓	✗	✓
Range	200km - 300km	1km - 5km	5km – 300km	350km
Payload	600 kg - 1000 kg	0,1 kg – 3 kg	0,1 kg – 5 kg	10 kg
Aerial risk	High	High	High	Low
Ground risk	High	High	High	Low
Carbon footprint in flight	1T CO2e/h	0	0	0

Better knowledge, less outages

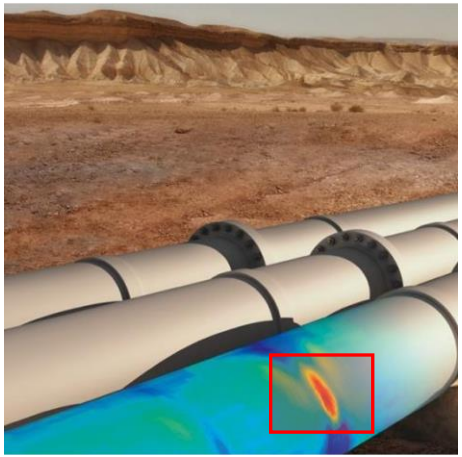
Provide details of weaknesses on the grid

Spot vegetation near lines

Spot heat points on the electrical lines

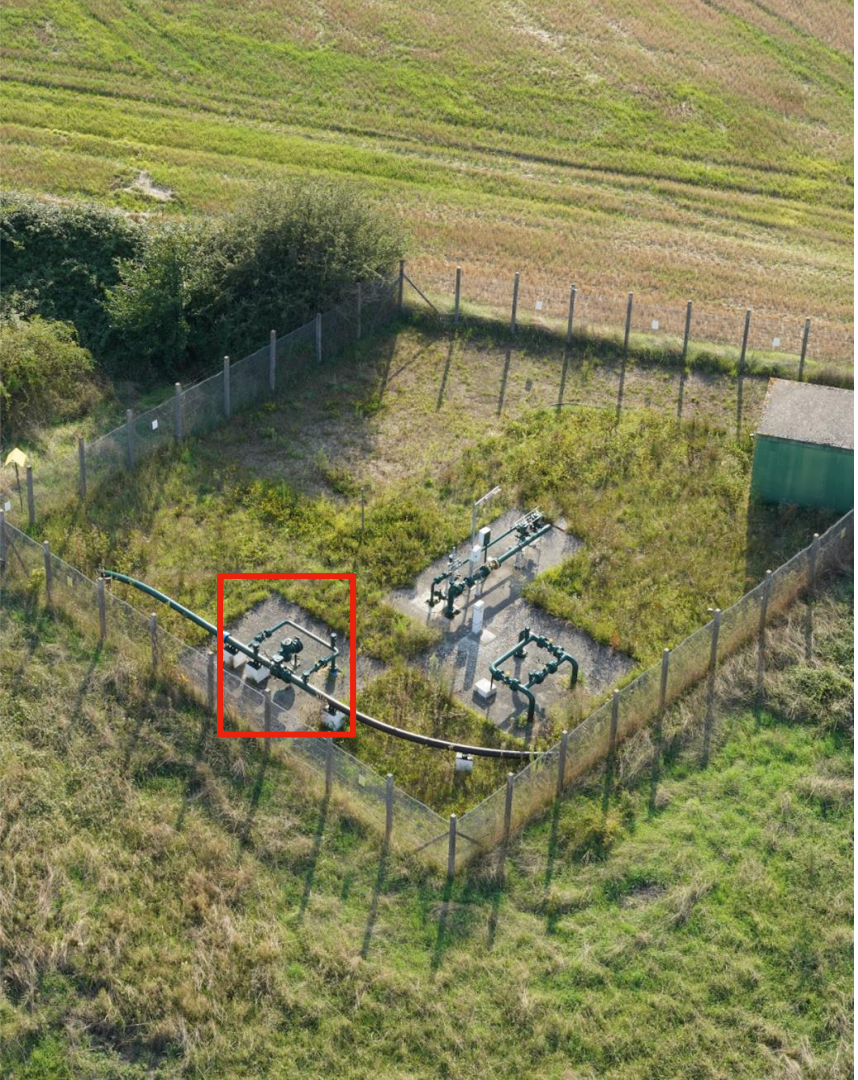
Better knowledge, less outages

Spot methane leaks



Spot third-party interferences

Spot landslides



Technical specs: HyLighter 35

Range	350 km
Payload capacity	10 kg
Cruise speed	25-35 km/h
Size	10 m long 2 m diameter

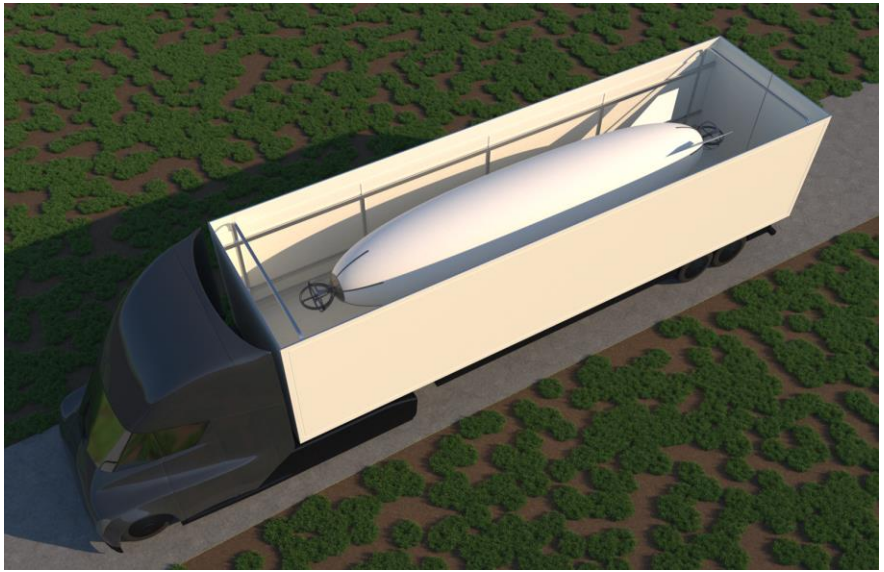
Our flight at the Milano Innovation District (authorized by ENAC)

Designed for optimal operations

We transport the fully operational HyLighter to take off point.

10 minutes to start the operation.

We do not require any infrastructure for take off and landing.

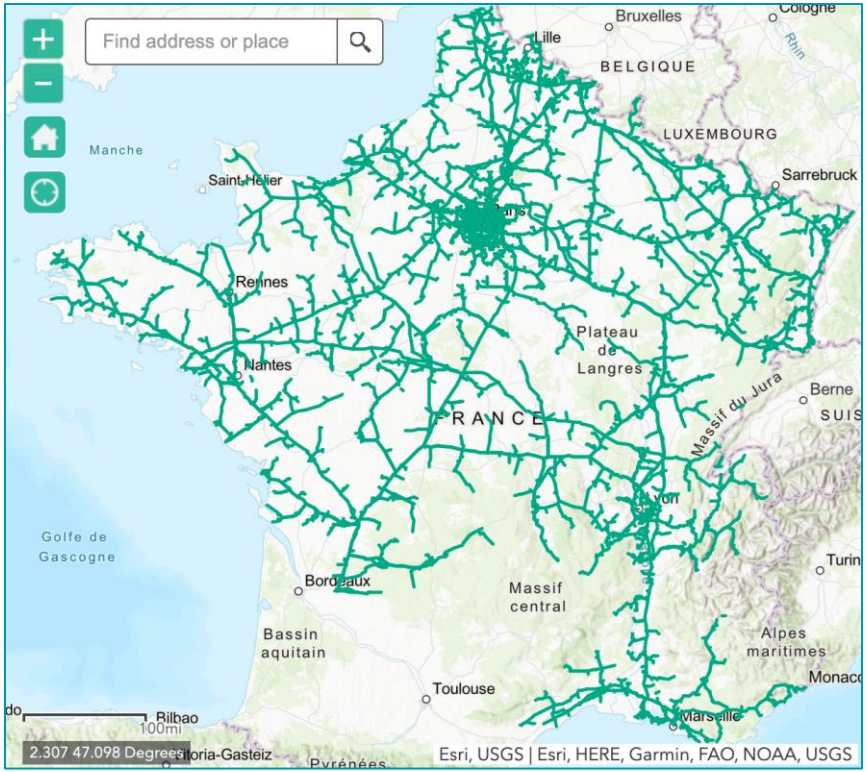


Flight efficiency: case study

1 HyLighter can fly over
350 km in 1 day.

The pipeline transmission system of GRTgaz stretches over
32,500 km of length.

We need **93 days** to cover the entire network of GRTgaz with
1 HyLighter.



Our solution is reliable

Accelerators

Berkeley SKYDECK

Agence de l'Innovation pour les Transports

Y

R&D support

ULB

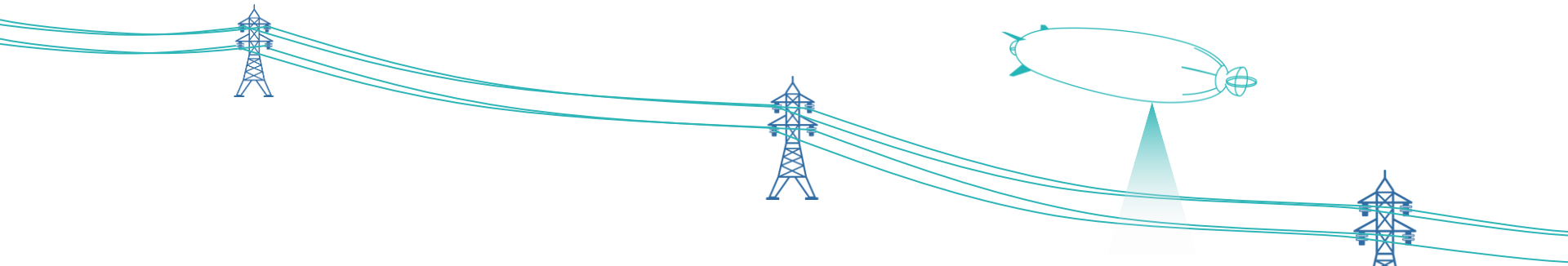
INSA INSTITUT NATIONAL DES SCIENCES APPLIQUÉES LYON

Supports

Systematic Paris Region Deep Tech Ecosystem

bpifrance

ENEDIS L'ELECTRICITE EN RESEAU



Join us for the flight!

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Appendix

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Testing HyLight tech on your assets

Inspection as a service: experimentation of HyLight tech through a POC.

1. Organization of ops

We settle on 3 things

Goal: type(s) of data to collect.

Size and place: length of infrastructure (usually between 25km to 60km) and location.

Budget: the usual cost is between 30k€ and 80k€ depending on size, location and data type. It is adaptable.

2. Data collection

HyLight deals with obtaining flight approval from the National aviation authority.

HyLight operates the flight and gather the data.

Optional: we can organise a communication campaign during flight day. The aim could be to communicate about your company's efforts in transforming O&M to reach carbon reduction targets (and re-state those targets).

3. Data delivery

HyLight transmits a report on the data collected.
Your company will be able to compare the data quality & precision of HyLight with your current method.

You will be able to make a decision to organize larger operations. And will be among the first to benefit from our industrial scale solution.

HyLight solution cost at industrial scale

We are aware of the importance of cost.
That is why, directly at the launch of our industrial scale operations (not pilot projects or PoCs), we will be at the same price or lower compared to the cost of helicopters.

Then, the deployment of our solution, as well as the optimisation of our technology will allow us to reduce the cost of more than half the cost of helicopters. Our target is **below 15€/km**.

We will also be able to collect more insightful and valuable data. Thus, allowing your company to decrease failures, leaks and maintenance costs.