Our challenge is to transit to a zero net pollution world within a 20 years frame.
Disaitek solution

UAVs & Ground-based monitoring

- Quickly
- At global scale
- Cost-effectively
- Reliable

Waste pollution
GHG emissions
Carbon removal monitoring
Air pollution
DISAITEK CORE TEAM

Advisory Board Member
Elise COLIN
PhD Physics
ONERA research director

Co founders
Anthony GRAVELINE
CEO
Ex CEO / CIO / Chairman

Gregory CHATEL
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Flavien VANSYGEL
PhD Physics

Rodrigo RIVEIRA
PhD Climate Physics

Thibaud RICHARD
PhD Physics
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ACHIEVEMENTS SO FAR

Two world-first technologies developed:

- Advanced Deep Learning for the detection of variable period exoplanets
- Platform that automates the detection of fly-tipping and illegal landfills with very high resolution imagery and advanced AI

Major deal signed in May:

- SCSNE: Monitor progress and environmental impact
  - 110 km² length, 175 millions m³ of soil excavated, 10 years program.
  - Saving more than 5 millions truck a year on European roads.
  - Carbon offset under 9 years.
The problem we address

- Environmental (soil, air, groundwater, streams, CH4 emissions, biodiversity) (1)(2)
- Public health (harmful substances, contaminated drinking water, etc.) (3)
- Social (citizen stress)
- Economic (loss of jobs in the waste management sector, depollution costs, loss of taxes, unfair competition ...)(4)
- Organized crime funding (4)

(1) Annex III / Waste atlas report 2014
(2) Using satellites to uncover large methane emissions from landfills
(3) UN Vienna 2022 / Combating Waste Trafficking / A guide to good legislative practices
(4) Mapping the risk of serious and organised crime infiltrating legitimate businesses
Waste problem at European level

« Waste crime » is one of the four main crimes against environment (Europol) and a pillar within European ECA (Environmental Compliance Assurance) program (1)

Illicits revenus generated by diverting away waste from legal system account for an averaged estimation of 9 billions a year in Europe (2)

ECA program leverages three axis : Promotion, Monitoring and Law enforcement

EU considers earth observation as one of the 9 means to fight against environmental crimes (4)

(2) Mapping the risk of serious and organised crime infiltrating legitimate businesses
(3) UNEP / Interpol – The rise of environmental crime
(4) EU actions to improve environmental compliance and governance
DISAITEK TRANSITION PLATFORM
Illegal dumping and illegal landfills

How we innovate

USE OF VERY HIGH RESOLUTION (50cm)
We detect as small as 5m²
High resolution (10m) only detects as small as 300m²

AUTOMATE DETECTION
Exhaustive view of the information.
Base public policy on data

DETECT AS SOON AS POSSIBLE
Detect before situation being uncontrollable in illegal landfills

EVALUATE ENVIRONMENTAL RISKS
Underground water and water streams / forest resources / sensible installations

INVESTIGATION CAPABILITIES
Fraud against Classified Installation for the Protection of the Environment Policy Body (ICPE / IPPC)

DIGITIZE PROCESSUS
Collaboration process / Photos and relevant documentation / Quotation

ANALYZE
Illegal waste flows and stock / Budget consolidation / Collaboration efficiency
DISAITEK TRANSITION PLATFORM Customers