



SAFE DRONES FOR INACCESSIBLE PLACES

The Elios 3 for the Nuclear Industry

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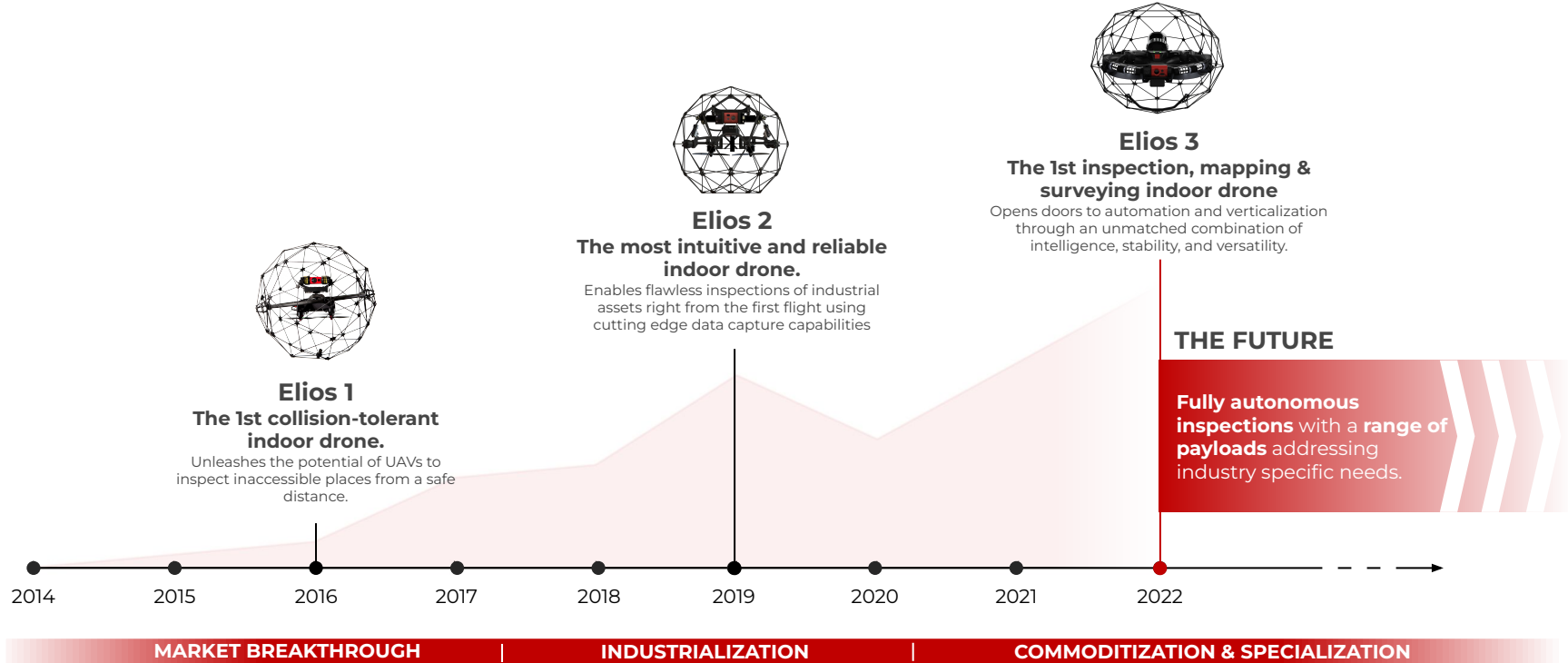


Our journey started in **2011...**

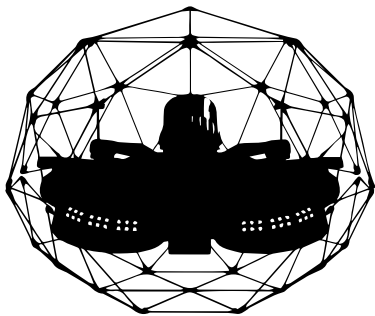
No more Humans doing
dangerous inspection jobs



From a pioneer of drone-enabled inspection to a global industrial leader.

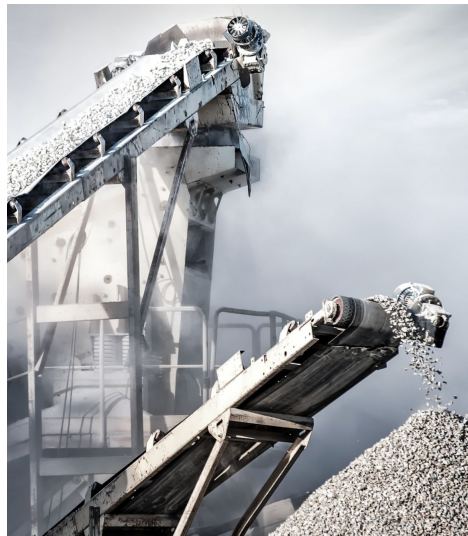


2,500+ drones shipped
400,000+ flights
30,000+ flight hours
2M+ Points of Interest



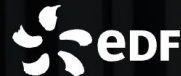
Across the most challenging industries

Chemicals, Cement, Maritime, Infrastructure & Utilities, Mining, Oil & Gas, and of course Nuclear and Power Generation....



1400+ customers
50+ resellers
140+ employees

**They're trusting our products for
their visual inspection work**



A full-stack solution for indoor inspection in challenging environments



Elios 3

Enhanced visualization



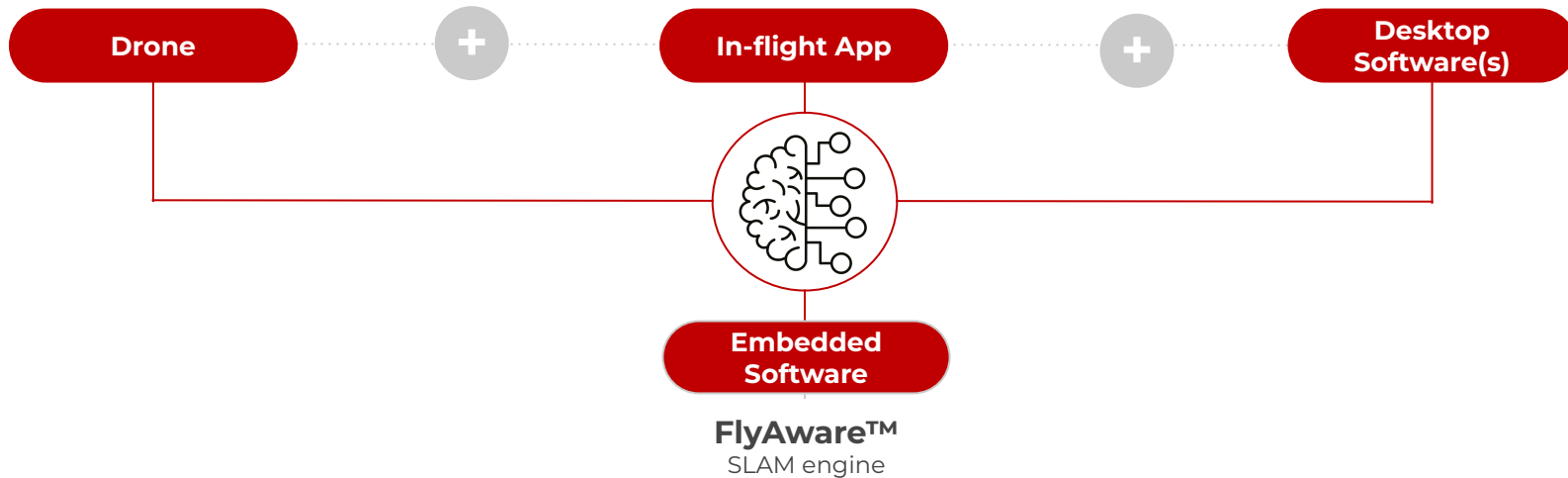
Cockpit

Live stream piloting



Inspector 5

Data analysis

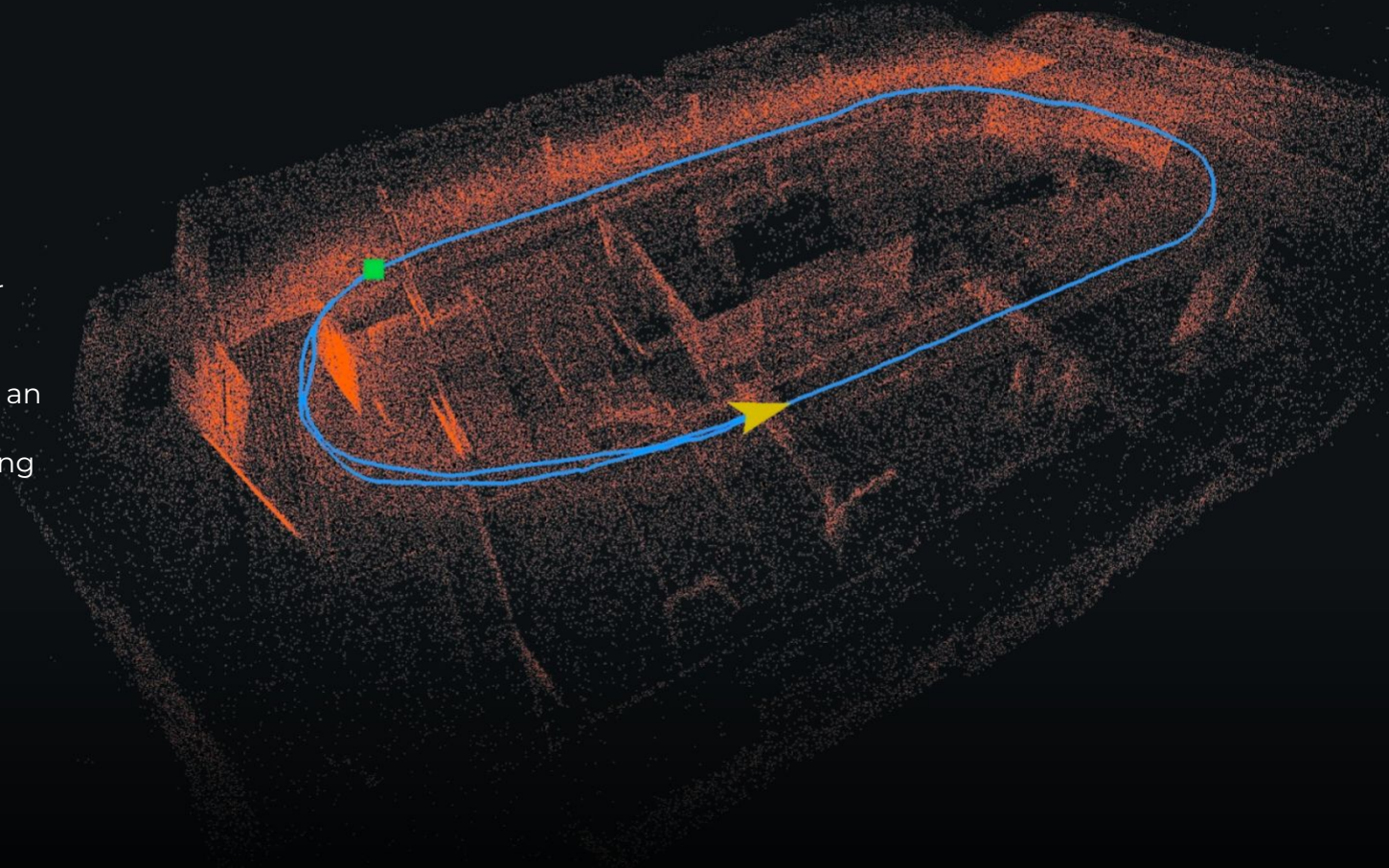




FLYAWARE™ SLAM ENGINE

Powered by FlyAware™.

FlyAware™ is the unique combination of computer vision, LiDAR technology, and a powerful NVidia graphic engine. Acting as an indoor GPS, it builds real-time 3D maps enabling the drone to sense its surroundings instantaneously.





ELIOS 3

Indoor drone



RAD

Payload



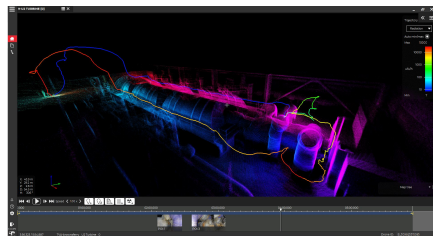
Surveying

Payload



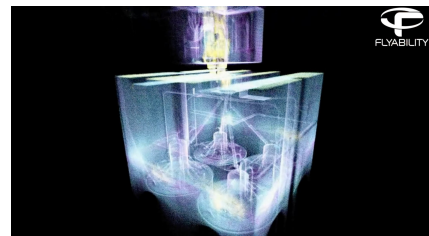
UT

Payload



Example use cases:

Radiation survey of a turbine deck



Waste storage mapping



Condenser inspection and thickness measurement



FLYABILITY



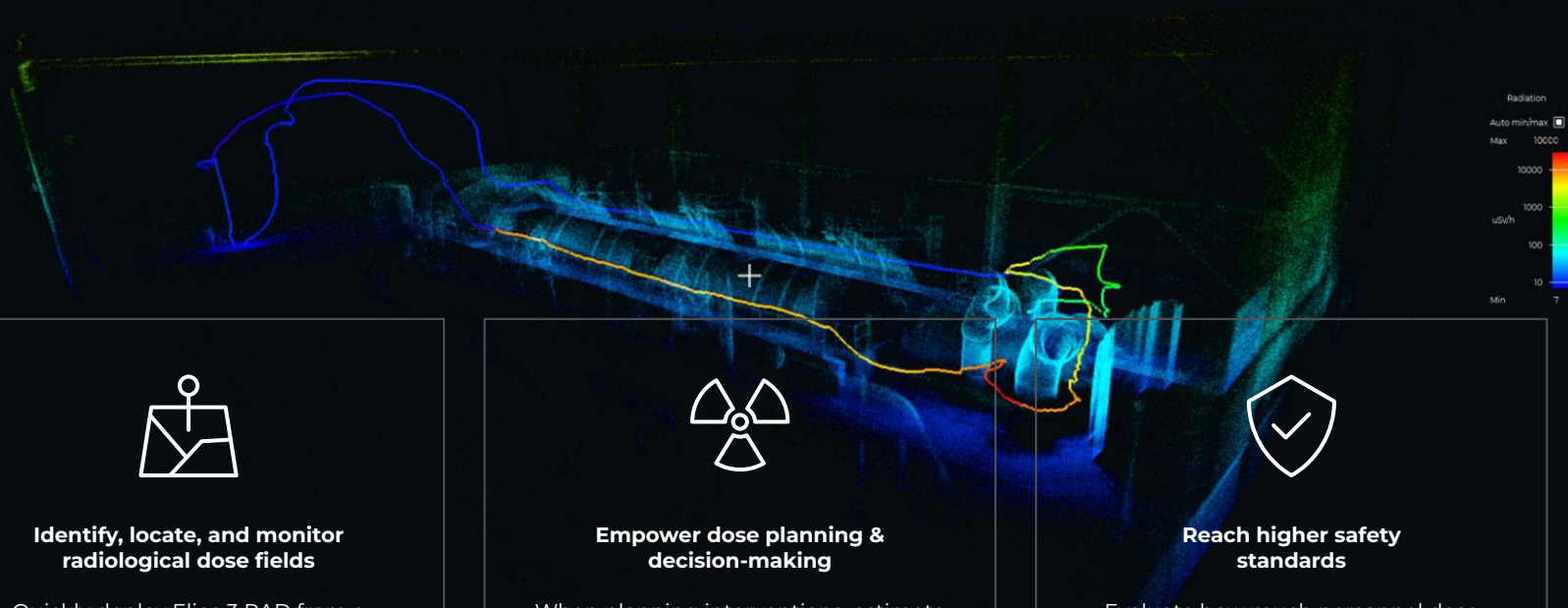
MIRION
TECHNOLOGIES

ELIOS 3 RAD PAYLOAD

**Remote radiation detection and
localization
powered by Mirion Technologies.**

Perform fast & accurate radiation surveying of indoor spaces without human exposure

Get a clear picture of radiological conditions while keeping your workers out of harm's way



Identify, locate, and monitor radiological dose fields

Quickly deploy Elios 3 RAD from a convenient area to better understand radiological conditions.



Empower dose planning & decision-making

When planning interventions, estimate the total dose workers will be exposed to and identify hot spots to minimize human exposure.



Reach higher safety standards

Evaluate how much personnel dose exposure was avoided over time by leveraging Elios 3 RAD's cumulative dose measurement.



KEY FEATURES

Much more than a flying dosimeter, Elios 3 and the RAD payload form a powerful radiation surveying tool.



The Elios 3 + Mirion RAD Payload provide Comprehensive In-Flight Radiation Readings



Flyability's Inspector Software enables Post-Flight Radiation Analysis, Localization, and Reporting



The Elios 3 RAD Payload is Powered by Mirion Technologies, based on Mirion's proven RDS-32™ handheld radiation survey meter



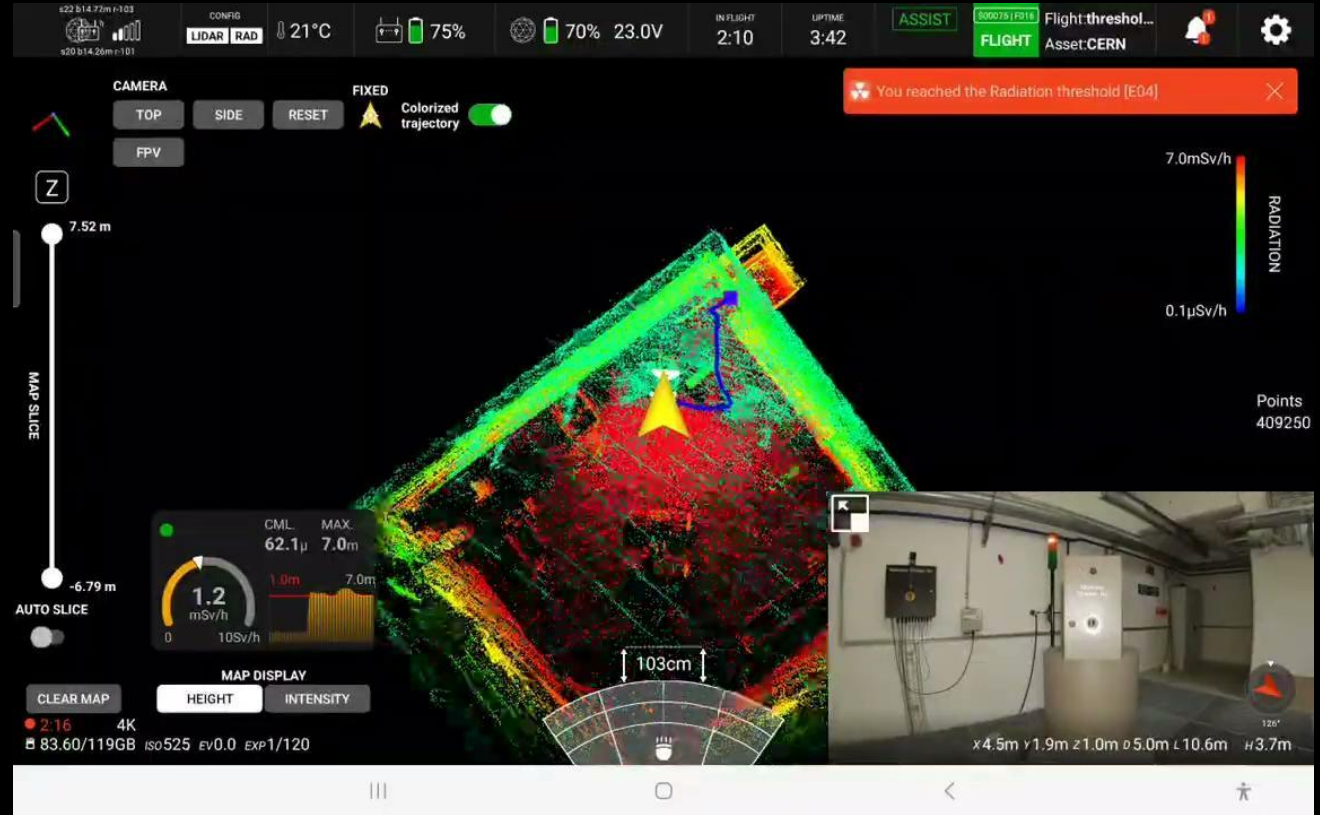
The Elios 3 has been successfully tested at 10,000 R/H with up to 4,000 R of cumulated dose*

*(see: [How Much Radiation Can The Elios 3 Handle? Testing at a DoE Site](#))

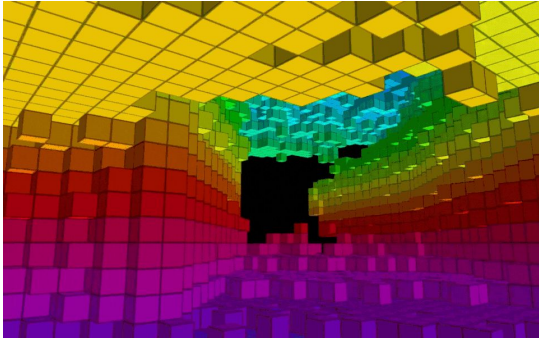
Comprehensive in-flight radiation reading

Instant reading. No exposure.

Get an instant reading of current and cumulative dose rate along with max recorded value and measurement history to understand measurement trends and help you find high radiation sources.



Recent product launches



Return to home and repeat flight

Automation for peace of mind and repeatability

Colorization and more on Inspector Online

Improved sharing and collaboration features, SOC2 cybersecurity compliance, etc



High capacity battery

Extended flight time



Tether power unit

Continuous power



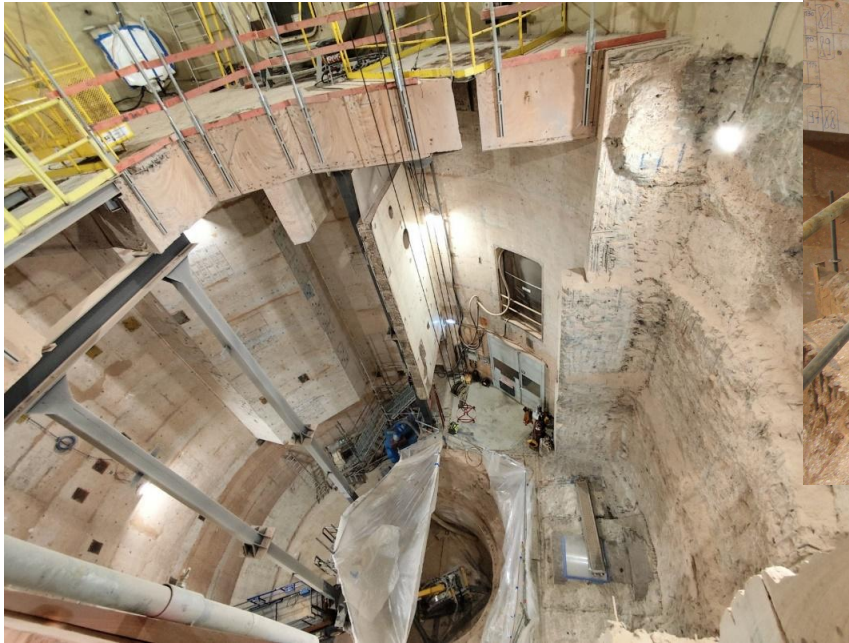
+250 km

of cumulated
autonomous RTH flights
in the most complex
environments

0 crashes

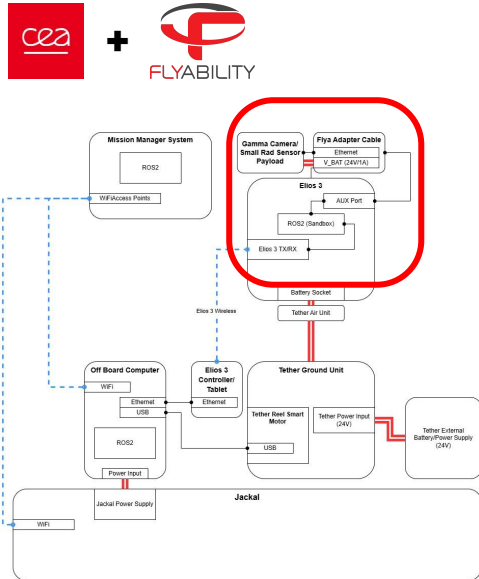
Elios with RAD Payload at SCK

**BR3 – nuclear reactor
(Undergoing demolition)**



Flyability and CEA collaboration in XS-ABILITY

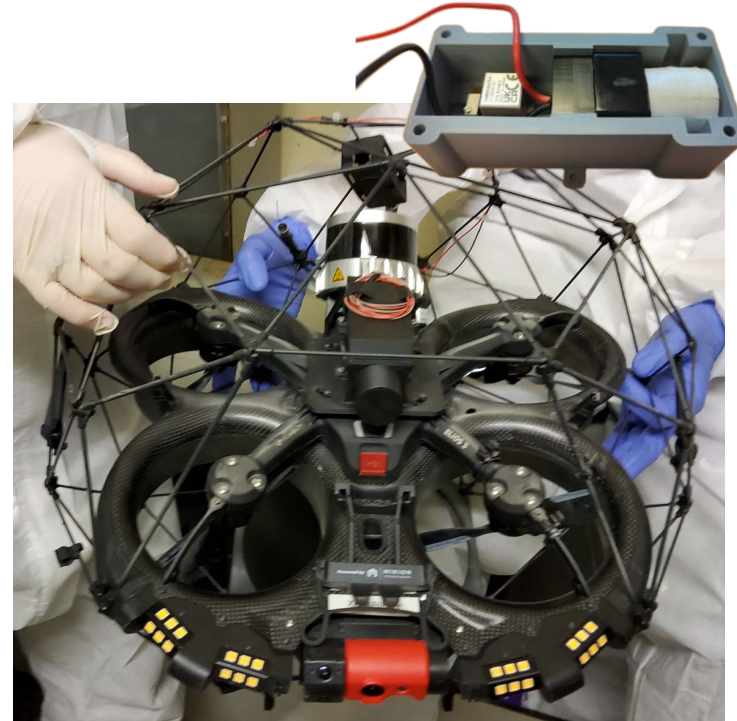
WP3 Nuclear embedded instrumentation and associated algorithms



Lightweight Nanopix3 (<300 g)



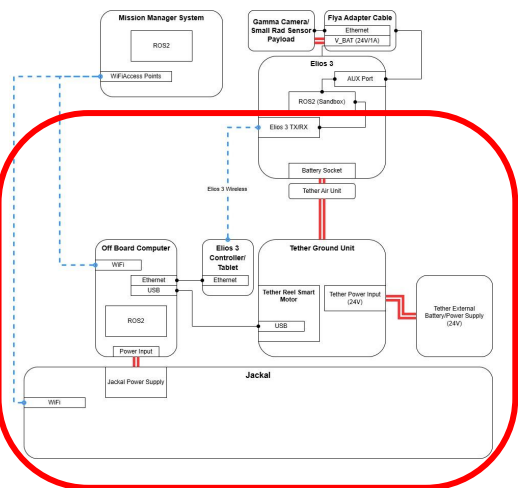
Small multi radiation detector ($\ll$ Lightweight Nanopix3)



Flyability and IFE collaboration in XS-ABILITY

Elios 3 and Tether + Jackal Ground Robot

WP4 Multi-Robot Platform Integration and Deployment

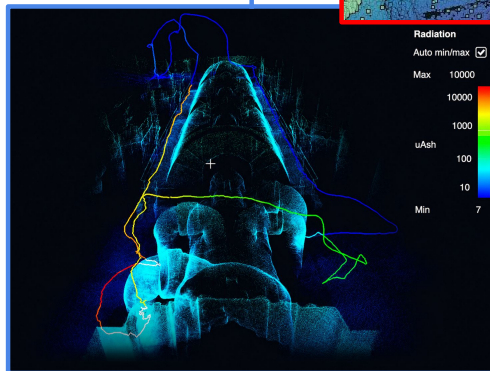
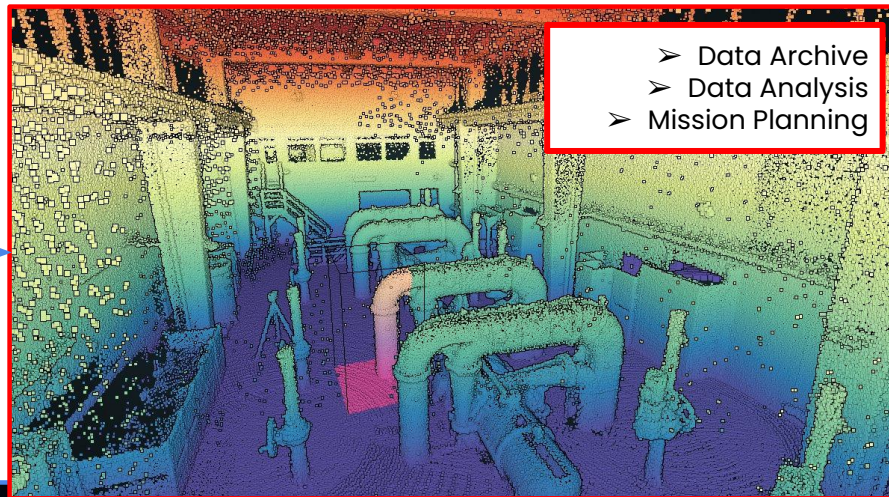


VTT and Team collaboration in XS-ABILITY

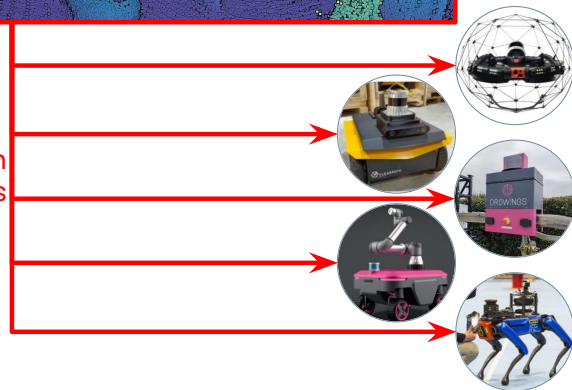
WP5 Data fusion and Radiological mapping with AI-based mission scheduler

VTT

- 3D Maps
- Location Data
- Sensor Data



- Inspection Plan
- Task Allocations





Thank you & happy flying!

— Your Flyability team —