# **TIEXTS** FLYABILITY



ELIOS 3

# DIGITIZING THE INACCESSIBLE



**INDUSTRY 4.0** 

# GET READY FOR A NEW ERA OF INTERNAL INSPECTION AND MAPPING

Drone-based inspection is not a technology of the future, it is a necessity for today's digital fast-paced world. With the 4th industrial revolution in motion, organizations are looking to deliver digital transformation of their industrial processes, while cutting costs and bettering workers' environments. Elios 3 helps industrials effortlessly achieve these goals by bringing their inspections and mappings to the next level.

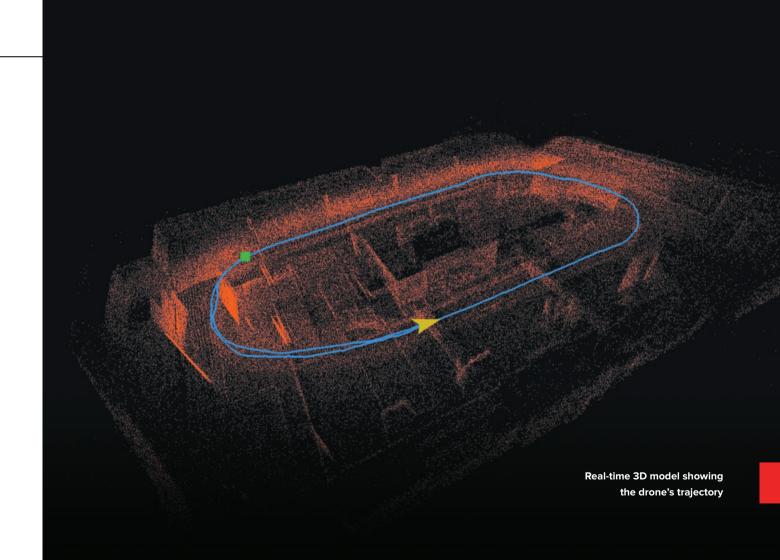




# MUCH MORE THAN A FLYING CAMERA, ELIOS 3 IS A POWERFUL DATA-HARVESTING TOOL

Relying on the power of computer vision and LiDAR mapping, Elios 3 is a versatile indoor drone opening doors to a world where performing systematic inspections does not require months of training, reporting is done intuitively on a 3D model of your asset, and situational awareness is built into the piloting app.









Stabilization system using VIO cameras and LIDAR



## 3D Live Map

#### Flawless locational awareness.

The embedded LiDAR constantly scans the surroundings to build a high-density point cloud map. This map is displayed instantly in the Cockpit App, empowering pilots with exceptional locational awareness. A real-time 3D view of the drone's trajectory and environment provides crucial data:

## Always know where you are.



The drone's position is located precisely so the pilot can easily decide on the optimal route to safely return home.



#### Assess inspection coverage.

Cumulative mapping data shows the completeness of the map so you can instantly assess your inspection coverage.





## **3D Reporting**



### Understand where to focus your maintenance efforts.

From data capture to decision making, Inspector 4.0 and Elios 3 work hand in hand to provide operational continuity, boosting your efficiency through every step of the inspection process.

Thanks to Elios 3's LiDAR, reporting is done intuitively on a 3D model of your asset. Points of interest captured in flight are readily available in a high density point cloud offering a faster, more accurate, and more reliable data localisation system.

# **TEXXIS** FLYABILITY





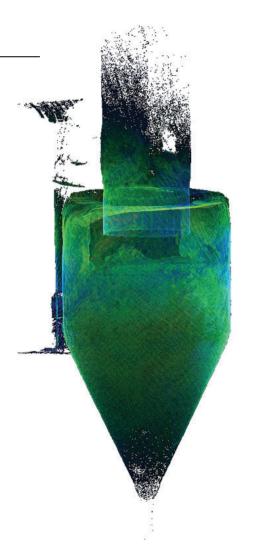
# **3D Surveying Solution**



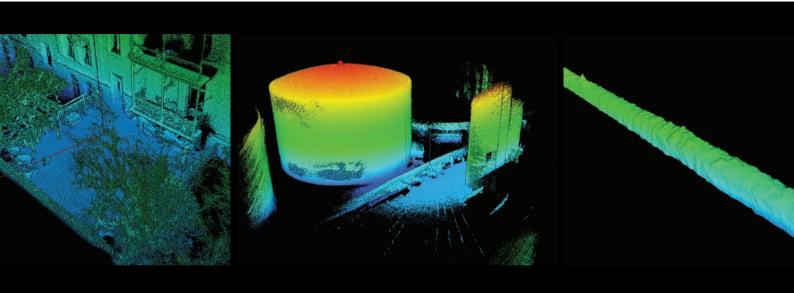
### **Survey-Grade Point Clouds.**

Thanks to an integration with GeoSLAM software suite, Elios 3's LiDAR data can be processed to build survey-grade 3D models of your asset enabling surveyors to map the truly inaccessible.



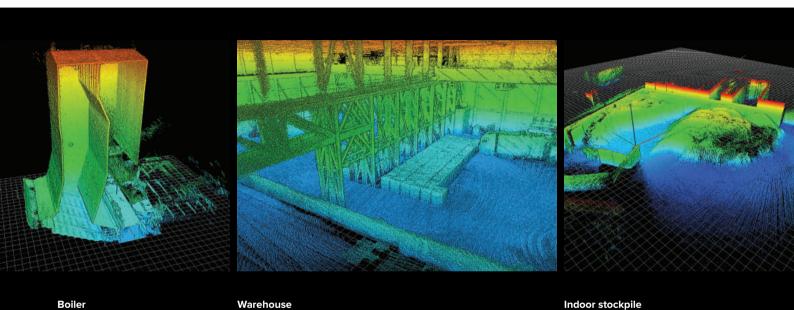


3D model of a cyclone in a cement plant created with GeoSLAM Connect



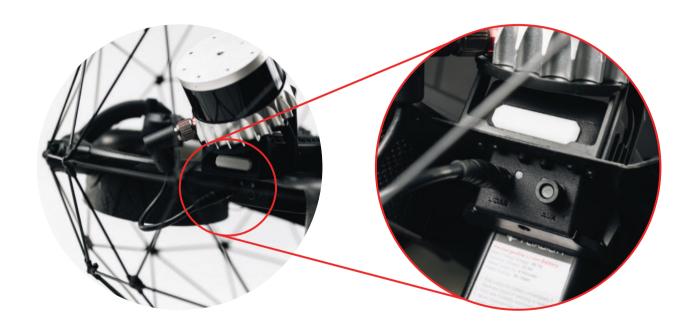
Building facade Storage tank Gallery in an underground mine

# **nexis** • FLYABILITY



Examples of 3D models created with GeoSLAM Connect in various industrial environments

# **TEXXIS** FLYABILITY



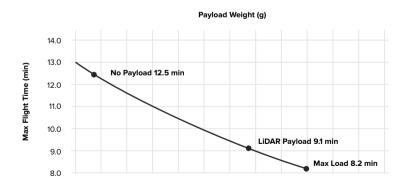




### Do it all in one go.

The Elios 3 offers up to 12.5 minutes of flight time\* so you can go the extra mile in every single flight. With a new insert & lock mechanism battery manipulations are easier than ever.

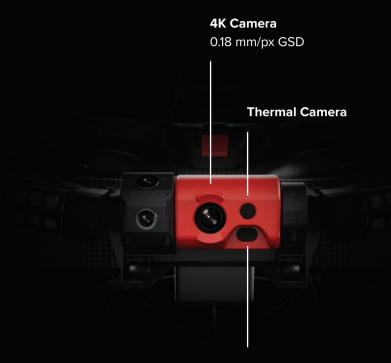
\*Flight time without a payload mounted on the payload bay.



# **TEXXIS** FLYABILITY



# Supercharging data quality



**Distance Sensor** 

# Supercharging data quality



Unobstructed 180° FoV

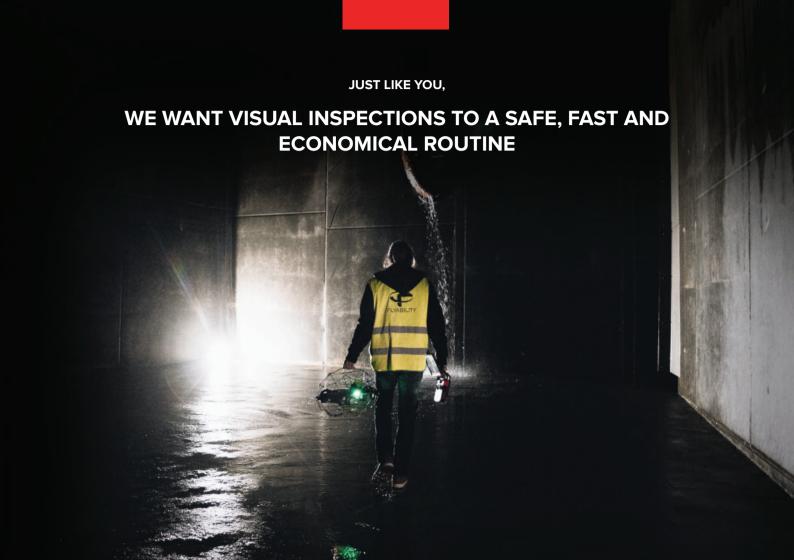
# Ingenious lighting system



# **Oblique Lighting**

Detect pitting, cracks, or build-ups









## **ABOUT FLYABILITY**



Flyability is a Swiss company building solutions for the inspection and exploration of indoor, inaccessible, and confined spaces. By allowing drones to be used safely inside buildings, it enables industrial companies and inspection professionals to reduce downtime, inspection costs, and risks to workers. With hundreds of customers in over 50 countries in Power Generation, Oil & Gas, Chemicals, Maritime, Infrastructures & Utilities, and Public Safety, Flyability has pioneered and continues to lead the innovation in the commercial indoor drone space.

#### **HEADQUARTERS**

#### OTHER OFFICES

FLYABILITY SA Route du Lac 3 1094 Paudex Switzerland

USA:

1001 Bannock St Suite 436 Denver, CO 80204 303-800-4611

#### China:

200082 Shanghai, Yangpu District. Huoshan Road, No.398 EBA center T2, 3f, Room 121

### OTHER OFFICES

#### CONTACT

#### **FOLLOW FLYABILITY**

Singapore:

36 Carpenter St. #02-01, Carpenter Haus, Singapore 059915

+41 21 311 55 00 info@flyability.com www.flyabilty.com

Facebook: @flyability.elios Linkedin: /company/flyability/

Twitter: @fly\_ability Youtube: Flyability

# nexis

# **ABOUT NEXXIS**

Nexxis is an innovative technology and service provider, offering end-to-end bespoke robotic or remote visual solutions for customers around the world.

With offices in Australia, the U.S. and Asia, Nexxis supplies an extensive range of leading-edge inspection, testing and measuring equipment for a variety of applications in the oil and gas, mining, renewables, space, shipbuilding, transportation, manufacturing, construction and defence sectors.

Nexxis also offers a world-leading engineering service specialising in tailored solutions to address industry challenges and offers research and development, rapid prototyping and manufacturing, education, training and support.

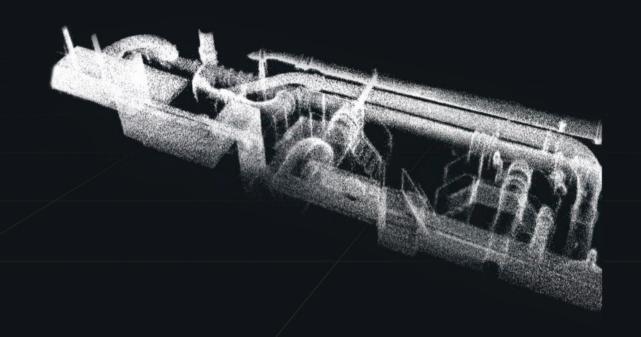
#### **ADDRESS**

#### CONTACT

35 Peel Road O'Connor 6163 Western Australia +(08) 6245 6326 nexxis.com.au

# THE ULTIMATE INDOOR DRONE FOR INSPECTION, MAPPING AND SURVEYING

Quickly turn asset data into digital insights, with Elios 3 - the first mapping and inspection indoor drone, offering an unmatched combination of intelligence, versatility and stability.



**Web** flyability.com