



# Auterion for Inspection

The smarter, more efficient way to scale critical infrastructure inspection.



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# Auterion at a Glance.

We care about providing enterprise with an ecosystem of software-defined drones, payloads, and third party applications within a single easy to use platform based on open-source standards.

**60+**

People

**51%**

Contribution to PX4

**1 million+**

Drones using PX4, the kernel of Auterion OS

**1**

Only standard mandated by U.S. government

# We enable drone operations to scale

## Multiple Vehicles, One System

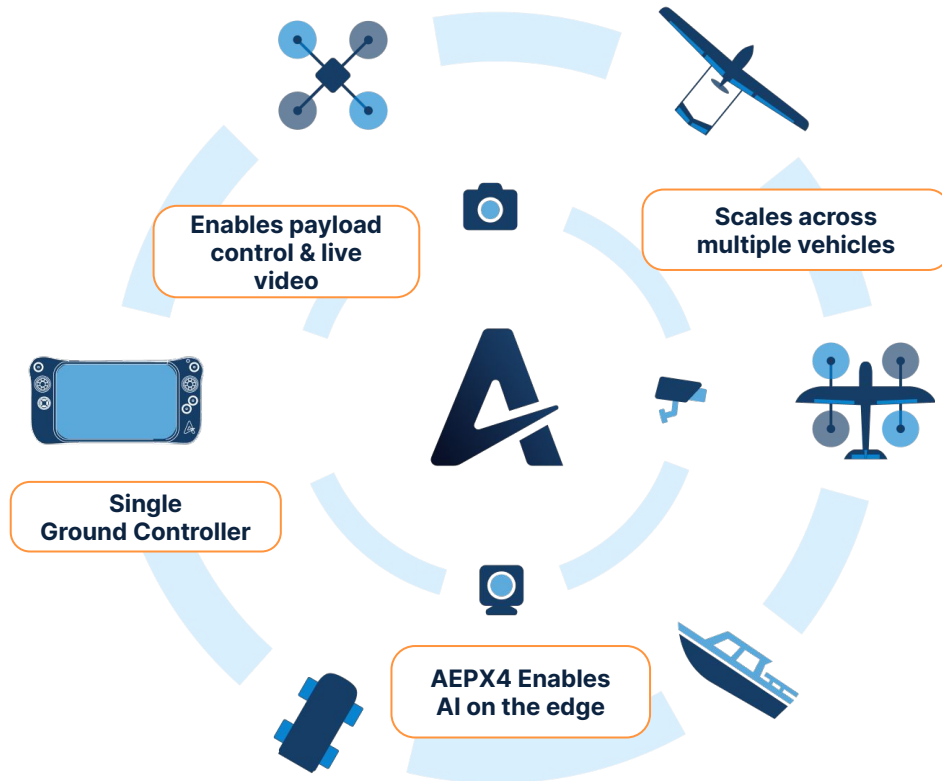
Access to a variety of hardware options without changing systems or workflows.

## Interchangeable Payloads

An ecosystem of payload that can be swapped in minutes.

## Connected and Open

Connected from the field to the back office by the cloud and expandable with apps and integrations



# Why Auterion for Inspection?

- Integrate data, real-time video and thermal imagery into your existing applications and workflows
- Automate flight operations and compliance
- Make quicker, smarter decisions while keeping subject matter experts in the office

**Auterion**



**Auterion**

**Drones don't do inspection,  
software does.**

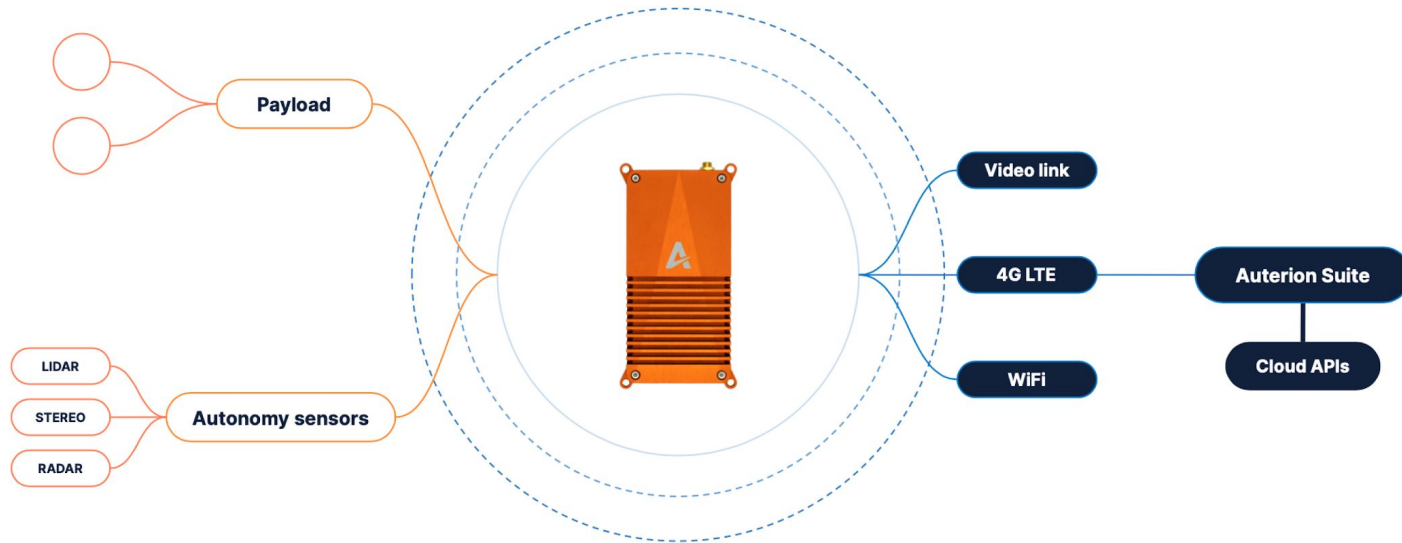
# Inspection Workflow





<https://youtu.be/ufOOvDLfCpk>

# Skynode: Enable the Auterion software platform





# Access an ecosystem of payloads

**SONY**



**R10C**

20.1 MP  
Lens options



**QX30U**

30x Zoom  
Integ. Lens



**A7R IV**

Full-frame  
Lens options

 **WORKSWELL**



**WIRIS Security**

30x Optical  
800x600 IR

**NextVision**  
STABILIZED SYSTEMS LTD



**Colibri 2**

20x Zoom  
640x480 IR

# Get closer with confidence

- Collision prevention and obstacle avoidance to safely inspect hard to reach places while avoiding accidents
- Mitigate human errors
- Interchange cameras and sensors to match inspection type

**Auterion**



# A platform for apps on board

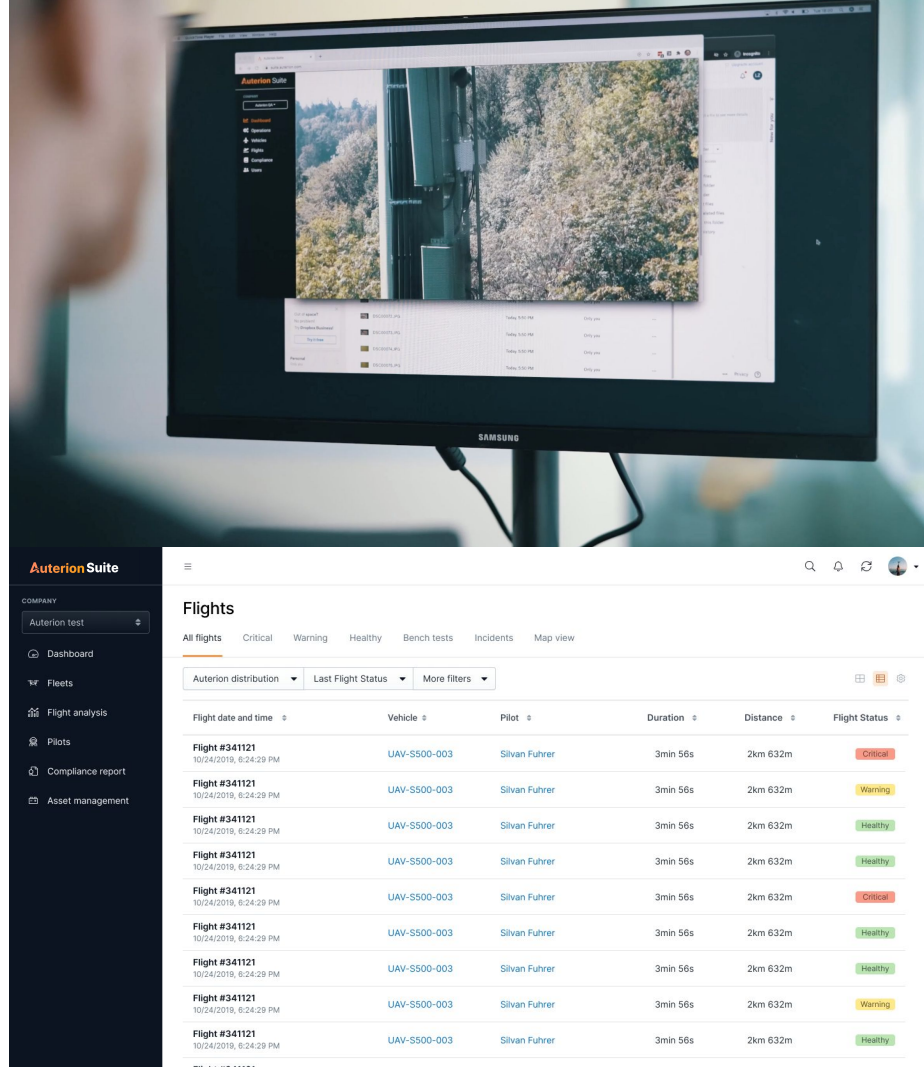
- Use third party apps
- Deploy your own code in a container
- Leverage AI on the edge



# Cloud-connected for complete visibility

- Drones powered by Auterion are cloud-connected
- Access all data from footage to flight statistics in real time
- Monitor every detail of your drone fleet on any device with a single web application
- Run multiple missions across locations from one platform

**Auterion**



The image shows a person viewing a Samsung monitor displaying the Auterion Suite web application. The monitor shows a live video feed of a drone in flight over a forest, with a data overlay at the bottom. Below the monitor, a laptop screen displays the Auterion Suite interface, showing a 'Flights' table with columns for flight date, vehicle, pilot, duration, distance, and flight status.

| Flight date and time                     | Vehicle      | Pilot         | Duration | Distance | Flight Status |
|--|--------------|---------------|----------|----------|---------------|
| Flight #341121<br>10/24/2019, 6:24:29 PM | UAV-S500-003 | Silvan Fuhrer | 3min 56s | 2km 632m | Critical      |
| Flight #341121<br>10/24/2019, 6:24:29 PM | UAV-S500-003 | Silvan Fuhrer | 3min 56s | 2km 632m | Warning       |
| Flight #341121<br>10/24/2019, 6:24:29 PM | UAV-S500-003 | Silvan Fuhrer | 3min 56s | 2km 632m | Healthy       |
| Flight #341121<br>10/24/2019, 6:24:29 PM | UAV-S500-003 | Silvan Fuhrer | 3min 56s | 2km 632m | Healthy       |
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# Ensure compliance with each flight

- Prepare the mission with the pre-flight planning checklists
- See no-fly zones near you and real time traffic
- Download the compliance reports per pilot or airframe from Auterion Cloud Insights anytime
- Integrate data into a single process no matter which vehicles have been flown

**Auterion**



**AuterionSuite**

- Dashboard
- Insights
- SkyOps
- Data
- Analytics
- Compliance**
- Pilot licenses
- Flights report
- Assets
- Users

**Compliance reports** 1 Nov 2019 - 13 Nov 2019 Compliance report

Fleet health **68%** Pilot compliance **76%** +2.5% ↑

26 **26** 822 **15** 29h **251km**

Issues: 1 critical, 1 Pilot, 5 safety issues, 1 checklist issue, Total flight time: +18h, Total flight distance: +151km

| Flight date and time                       | Vehicle                         | Pilot                     | Location                     | Flight Status |
|--|---------------------------------|---------------------------|------------------------------|---------------|
| Flight #341121<br>10/24/2019, 6:24:29 PM   | UAV-S500-003                    | Silvan Fuhrer             | Zurich, Switzerland          | Healthy       |
| Distance<br>144m                           | Flight controller<br>PX4_FMU_V5 | Checklist<br>Ready to fly | Flight Modes<br>P, T, RTL, L |               |
| Flight time<br>5min 12s                    | Auterion PX4<br>v1.9.2-1.2.21   | AGS version<br>v1.2 alpha | Checks<br>                   |               |
| + Flight #341121<br>10/24/2019, 6:24:29 PM | UAV-S500-003                    | Silvan Fuhrer             | Zurich, Switzerland          | Healthy       |
| + Flight #341121<br>10/24/2019, 6:24:29 PM | UAV-S500-003                    | Silvan Fuhrer             | Zurich, Switzerland          | Healthy       |
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# Connected to your enterprise workflow



**Auterion**

**Drones don't do inspection,  
software does.**

Providing you the most flexible ecosystems  
of vehicles, payloads, and apps.

# The best multi-use enterprise drone system

## Freefly Astro

- Made in the U.S.
- Created for the enterprise
- Skynode on board
- More at [auterion.com/astro](https://auterion.com/astro)





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**Thank you!**

**[auterion.com](https://auterion.com)**