

**PRODUCTS AND SYSTEM SOLUTIONS**

**Overview Applications**

**Navigation  
& Surveying**

**Stabilization  
& Control**

**Automotive**

**Defence**

**GNSS Denied**

**Gravimetry**

**Drilling**

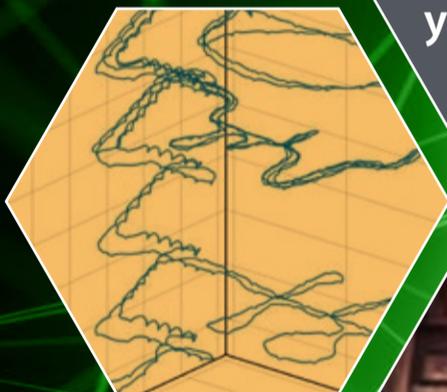
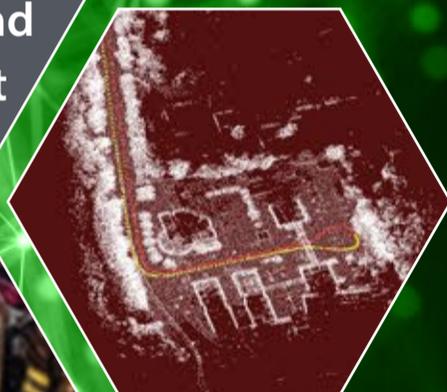
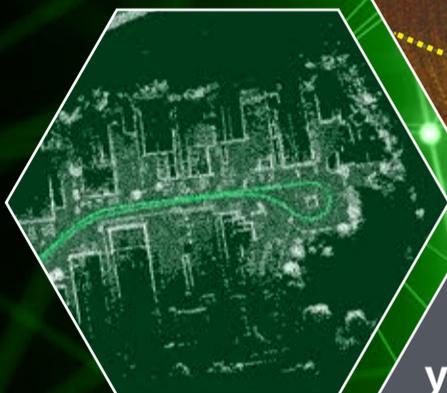
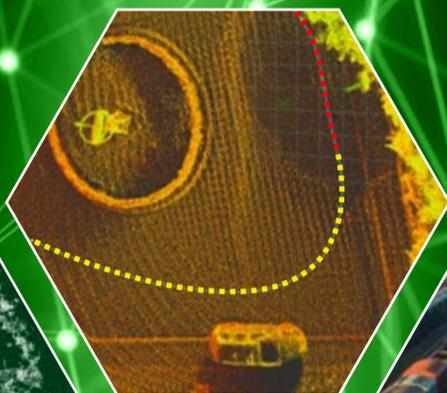
**Your needs?**



**DEVELOPING SOLUTIONS FOR THE  
TASKS OF TODAY AND TOMORROW**

**GNSS-DENIED**

Whatever is  
your challenge -  
you name it and  
we'll master it





## iLIANE

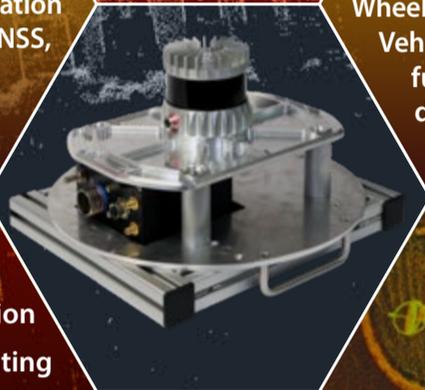
### LiDAR aided Navigation Equipment

#### iLIANE-LI

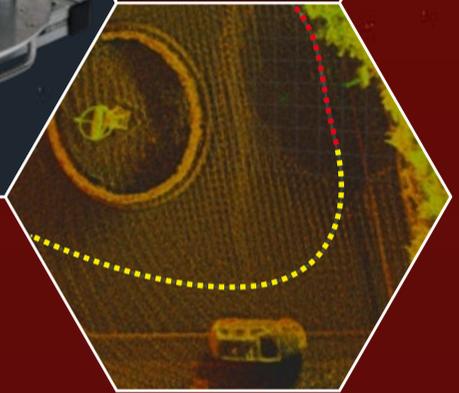
Accuracy of about 0.1 % of distance travelled, independent on mission duration (without any aiding, no GNSS, no odometer used)

#### iLIANE-LIGO

Seamless Integration of Imaging LiDAR / IMU / GNSS / Wheel Odometer. Most accurate Vehicle Localization even in fully GNSS and Radio denied Environment



Autonomous Localization & Navigation  
Map Acquisition & Updating  
Precise Infrastructure Surveying, bridging of long and systemic GNSS outages





## RAILWAY

### Reliable Localization and Vehicle Monitoring

#### iRailLoc-C

- INS/GNSS/ODO based system for reliable train localization
- Extendable through LiDAR-aiding and map integration
- Easy integration on all locomotives
- Qualified for railway environment



#### iZET

- Ensures train integrity by localization and "lost detection" of last waggon
- Localisation system powered by pressure of brake system
- Monitors pressure of brake system



#### iRAD

- Waggon localization system, powered by wheel generator
- Included wheel monitoring for predictive maintainance, especially flat pots
- Technology: miniaturized INS/GNSS with integrated wheel odometer and GNSS antenna mounted on Y25 bogie (and similar)





## iTHESEUS

Infrastructure-independent Pedestrian Navigator



**iTHESEUS**  
Localization Assistance System for Special Forces.  
Accuracy about 1% of total distance travelled, independent on mission duration and on any Infrastructure (neither GNSS nor WiFi nor beacons required)



**DEVELOPING SOLUTIONS FOR THE  
TASKS OF TODAY AND TOMORROW**

**GNSS-DENIED**



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