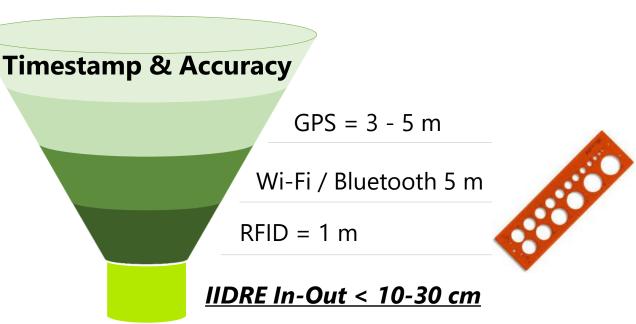


Sud France

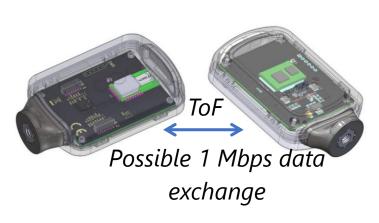
## Indoor & Outdoor geolocation

IIDRE is a hardware/software solution using the **ultrawideband (UWB)** technology as a Design specialist.

With other **technologies (GPS RTK), IoT** (IMU) and **powerful algorithms,** we can provide to our customers much higher accuracy in real time than traditional positioning systems.







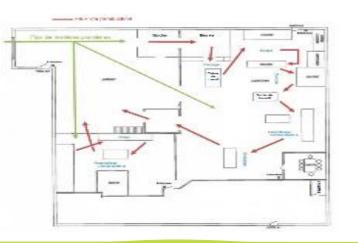


# Indoor







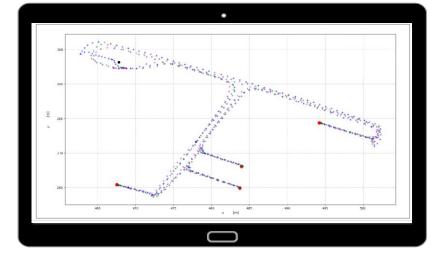






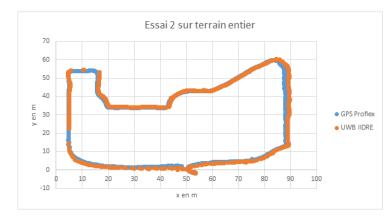
#### Outdoor







Easy deployment
Accuracy: < 10 - 30 cm</li>
Tailored solution









# **What is about?**

- How to quick search an equipment in real time and access to the replay?
- How to track and trace assets in real time?
- How to guarantee safety and optimization for all the engines trajectory?
- How to avoid collision between vehicles?
- How to provide an essential real and precise geolocation for the Lean Manufacturing?



How an IoT solution can support the Manufacture Planning Management?

Priority	Compone nt	Num	Status text	Site	Status %	Nb anomalies	Planning delta	Delay
1	DIST	2659- 2900	Finalization	Office5	90%	1	12 d.	Yes
2	APN	7712- 2209	Tests on going	Test Office	25%	0	1 d.	No
3	SAFS	2567- 6391	Ctrl on going	Ctrl Office	75%	2	3 d.	No

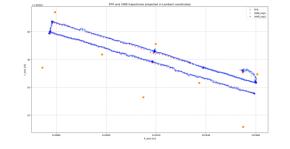
Lean indicators example

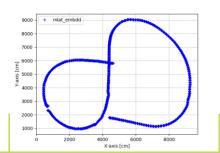
# **Q** Use Cases

Industry	Challenges	IIDRE solution
For a leader in the <b>Aerospace</b> <b>industry</b> , Indoor robots (30) fleet management for the assembly of the great structures.	<ul> <li>Moves through a narrow passage , less than 50 cm.</li> <li>Concentration of electrical machinery.</li> </ul>	<b>UWB indoor</b> installation for robots tracking and positioning. Simple infrastructure, rapidly implemented.
For a leader in the <b>construction</b> , extensive storage buildings (150 000 m2), forklifts (50) fleet management.	<ul> <li>Moves through narrow corridor ( - 2 m)</li> <li>Velocity (4m/s)</li> </ul>	Full solution package provided outdoor / indoor seamless navigation.
For a company in the <b>online</b> <b>sale</b> , safety solution for the workers (10), to avoid any crash with mobile machinery (20).		<b>Personal badge</b> solution package without any infrastructure.

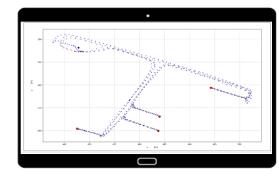
#### Assets track « on - premises » or « Cloud »

- 1. Equipment search and track software in real time with high precision.
- Forklift Track and Trace solution with fixed beacon. Enable to build diagram spaghetti on Map with choice filters. Non-intrusive or linked system.
- **3. Pedestrian prevention** warning. Personal badge with high vibration and beacon for engines with high level alarm to **avoid collision in real time**.
- 4. Collect data on local gateway for local server or Cloud and **access to the software** to lead his own **historical data** (metrics: distance, speed ... and data csv export).
- 5. Possible extension for seamless continuity with **outdoor** GNSS/GPS RTK geolocation.













# The IIDRE Core Team

Michel Seyrac is an IT engineer with experiences as auditor, IT architect and project leader.



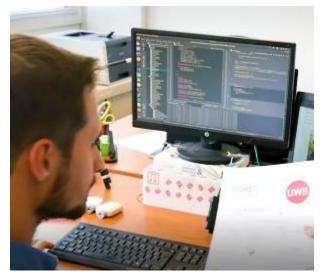
**Olivier Audaire** is a senior consultant with extensive international experience gained within high growth and innovative businesses across Europe and Africa.

Show room: Platform PRACTICE 4.0. **ENSAM, Campus Bordeaux Talence** Esplanade des Arts et Métiers 33405 TALENCE Arts Sciences et et Métiers





#### IIDRE is Qorvo UWB chip provider Design Partner for the last 4 years.





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