



Nomadic and Accurate Positioning System

#ComplexEnvironment

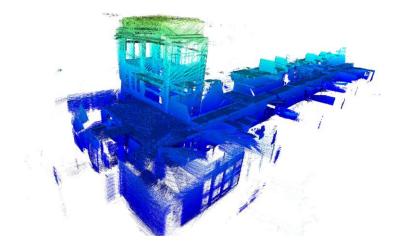
#Exploration

#Geotracking

Exploring complex environments where traditional geo-tracking systems can't be used (e.g. Sewers, Underground mining) relies on location methods such as **SLAM** (**Simultaneous Localization And Mapping**). Highly dependent on the environment, such methods are calculation-consuming and suffer from an incrementally drift as the explorer moves. **NAPS technology** is aimed at building a real-time nomadic positioning system. It is based on at least 2 communicating mobile agents able to know their respective position thanks to exchange of successive mutual information. This process can be used **whatever the environment** and its constraints (*e.g* doesn't require manual predisposal of reference beacons), has a sober calculation strategy and reduces location error.

Benefits

- Nomadic localisation system with sober calculation strategy
- Suitable process for any type of journey (rolling or flying movable unit)
- Limited position error: 25 mm for 70 m experimentally explored



Partenariat: Acquisition

Development stage : TRL 4