

# Romotus RTLS

Intelligent indoor localization system

Indoor tracking systems in rooms and halls

Improved safety

Real-time tracking

Effective management of resources

Unlimited range



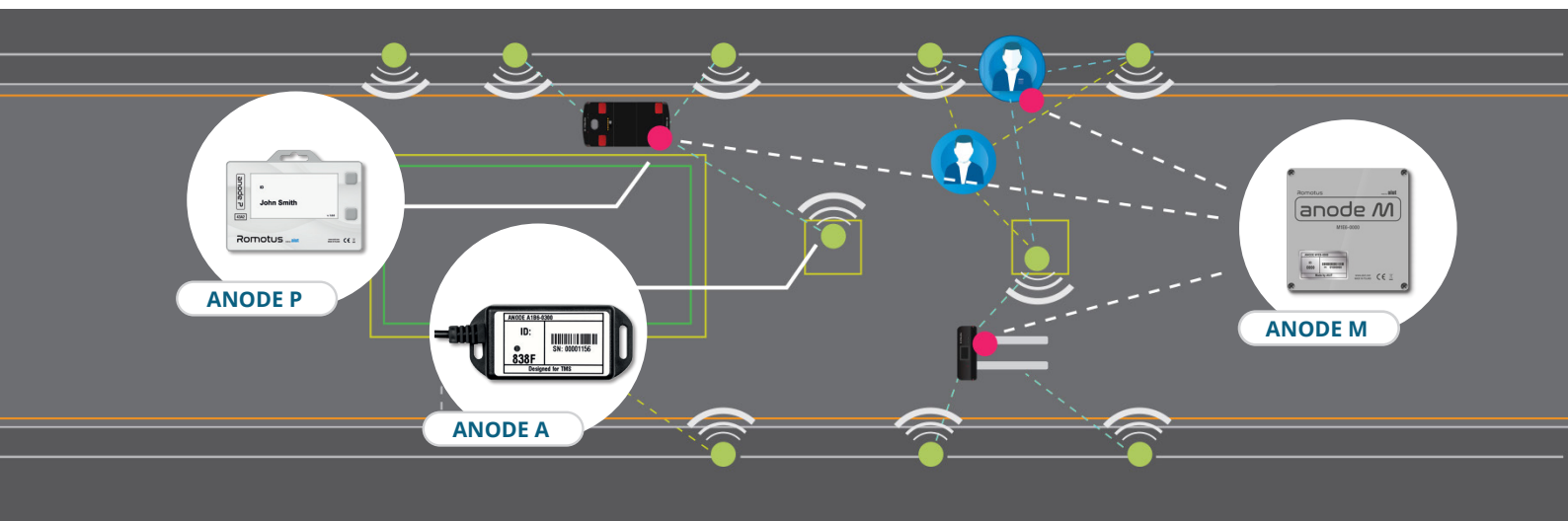
**Romotus** is an intelligent real-time location system, designed for tracking people or assets within an enclosed environment. The solution is entirely developed by AIUT and can be used in many areas - from work monitoring and assets tracking (including human resources, AMR vehicles or forklifts) to communication with employees while performing safety procedures.

Romotus is a flexible and fully scalable platform operating on various available navigation technologies (UWB, BLE, IMU) and enabling unlimited development of the infrastructure in accordance with the current needs of the client.

## Architecture & system elements

The main elements of the system are active **ANODE P** tags, **ANODE M** data gateways, **ANODE A** anchors and indoor tracking software. The tag communicates with anchors using UWB technology and can assess the distance between itself and the anchor.

The measurements are sent to the ANODE M data gateway, where the position of objects is calculated with great accuracy on the basis of received distance data and the position of the anchors. Obtained values are transferred to the data processing system where they are processed, filtered, cleaned and then subsequently presented in web applications and shared with 3rd party systems.



## ANODE P

in form of convenient tag



- Working time: 48 hours
- Lithium-polymer battery
- Inductive charging
- LED & vibrating alert
- Button
- UWB localization
- Bluetooth localization
- IMU (accelerometer, gyroscope, magnetometer)
- GPS
- Standard credit card size

## Functionality

### Improved safety

• exact location of employees and machines in emergency situations • location of employees in prohibited or harmful areas • employee fall / impact detection •

### Optimized work organization

• work time recording • activity identification (related to asset location) • access control – automatically unlocking passages or machines • analysis of covered routes for optimized arrangement of workplaces •

### Access control system

• defining monitored areas • creating areas and special zones with limited access •