



POSITIONING AND NAVIGATION



SAFER AND MORE EFFICIENT MOBILITY AND TRANSPORT

The Positioning and Navigation group aims to locate any vehicle or/and assets in the world, providing position, navigation and timing (PNT) information. The benefits of applying PNT information to the railway domain range from simple passenger information systems to autonomous driving solutions that avoid human error. In addition to create a safer and more efficient transport mode, PNT information can be used as an enabler for smart maintenance, asset tracking, signalling system evolution, etc.



AD-HOC SOLUTIONS

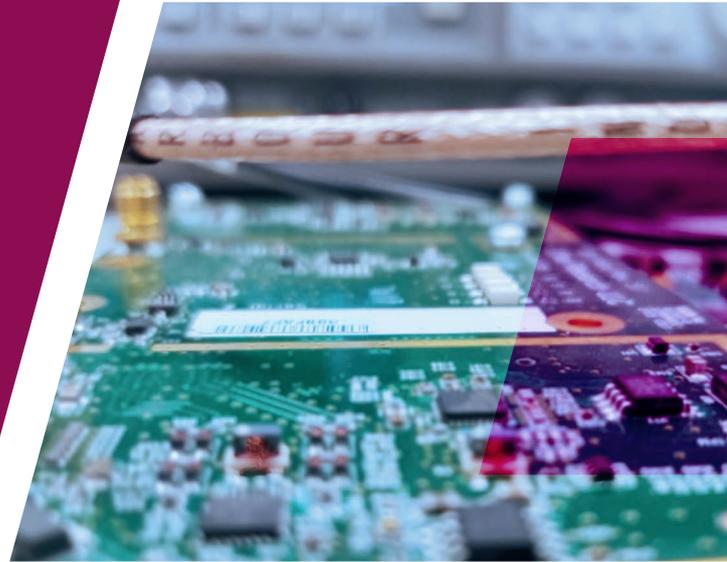
Ceit provides ad-hoc development of positioning and navigation solutions. These solutions might be standalone positioning systems or complementary multitechnology redundant positioning systems to increase resilience. Analysing the objectives of the positioning and navigation is the key to finding the most suitable and cost-effective solutions for each use case. The multidisciplinary group's complementary knowledge allows Ceit to offer tailored solutions to cover all user needs.





KNOWLEDGE AND EXPERTISE

Ceit offers expertise and experience in positioning and navigation technologies (multi-frequency and multi-constellation solutions, augmentation based solutions [EGNOS/EDAS, RTK, etc.], precise point positioning (PPP), fusion algorithms [GNSS, IMU, UWB, etc.], map-matching, mapping and visualization) in the railway domain (signalling, railway dynamics, energy, etc.). Moreover, Ceit has broad experience in collaborating on multidisciplinary projects.



PARTNERS & CUSTOMERS



PROJECTS

