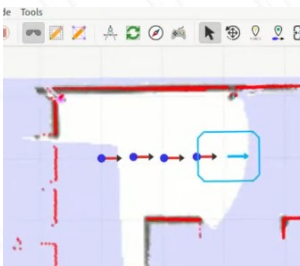# PLATFORM ▸ PILOT

INTRODUCTION

The Neobotix PlatformPilot is an all-in-one software solution for the realization of your automation requirements. Serving as the pilot for the robot platform, it transforms mobile robots into Autonomous Mobile Robots (AMR) and navigates them efficiently and securely to their intended destinations.

In addition, it seamlessly integrates actuator control and sensor data processing, offering navigation and localization capabilities across diverse transport systems. Furthermore, it includes numerous additional modules designed to automate complex day-to-day industrial processes.
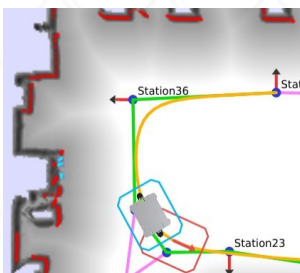

▸ UNLEASH YOUR AGV, UPGRADE TO AMR

Designed with modularity, customisation and extensibility in mind, PlatformPilot can be easily modified to run your own mobile robot platform, providing state-of-the-art AMR capabilities to custom built vehicles for niche markets as well as whole robot fleets. A set of industry standard interfaces like CAN, OPC UA, HTTP Rest and others enables smooth connections to different drives and sensors and easy integration into existing control systems.

▸ QUICK AND INTUITIVE INSTALLATION

Its powerful SLAM algorithm automatically maps new environments and also updates existing maps while simply moving the robot around like an RC toy car. PlatformPilot's advanced localisation ensures precise and reliable positioning and remains undisturbed even in cluttered or frequently changing workspaces.
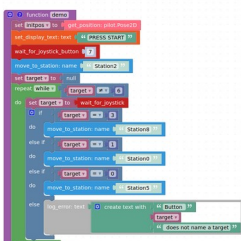

▸ VIRTUAL PATHS MEAN RUNNING LIKE CLOCKWORK

To be most efficient, mobile robots need to be both autonomous and predictable. The Neobotix Roadmap concept offers both and also the full range in between. Define destinations and the exact paths between them by simple drag and drop. Each path segment can then be parametrised individually, from train-like moving along fixed routes that everybody knows up to independent free-roaming through ever changing spaces.

▸ SIMULATE, PROGRAM AND MONITOR USING GUI

PlatformPilot comes with an impressive set of tools in a common graphical user interface to speed up your work. Design and simulate new applications at no extra cost, develop complex applications with an easy-to-learn graphical programming tool, and check the status of your robots from any mobile device, even your mobile phone. No need to buy, install or learn additional software, everything is already there.