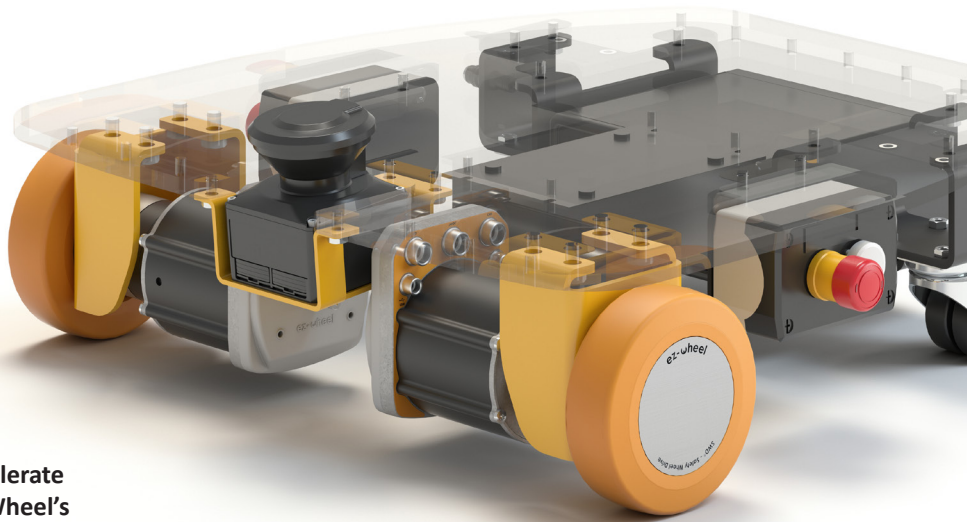# Start
IMMEDIATELY
the development of
your MOBILE ROBOT!

SWD® Starter Kit

The Starter Kit is designed to facilitate and accelerate the development of AGVs and AMRs using ez-Wheel's exclusive SWD® Safety Wheel Drive technology.

Pre-assembled with a safety scanner, an on-board computer and a 24V rechargeable battery, the Starter Kit platform is ready to use: start developing your mobile robot right away!

The ARM iMX6 processor-based embedded computer comes with a Linux OS supporting the ROS open-source meta system, and all the drivers needed to run the platform.

The Starter Kit offers all the exclusive safety features of the SWD® Safety Wheel Drive range such as SIL2 / PLd certified motion control, ensuring development in accordance with the ISO 3691-4 driverless truck standard.

SIL2 PLd   SIL3 PLe
Functional Safety

:::ROS Robot Operating System

Motorization	SWD® Core
Sensor	Scanner LiDAR SIL2 / PLd
Processor	ARM iMX6
Speed range	0 to 3 km/h
Battery	24 V – 9 Ah
OS	Linux / ROS

SWD® Core
Safety gear motor with 125 mm castors

SWD® Safety Hub
Central interconnection box for intuitive connection

SIL2 / PLd safety scanner
Compatible with all safety laser scanners on the market

ez-wheel.com

ROBOTIZATION KIT

Implementation on any type of mobile application
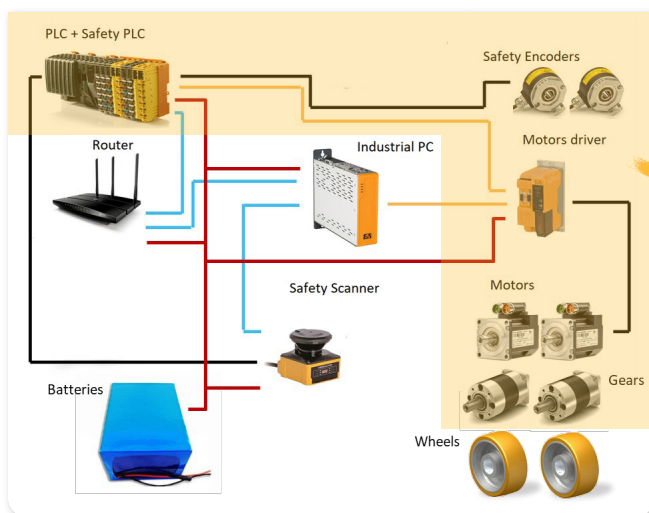

- AGVs, AMRs
- AGCs
- Mobile robots

BENEFITS

✓ Adaptable generic components

✓ Reduction in the number of components **VS** a classic AMR

✓ SIL2 / PLd certified in accordance with the ISO 3691-4 standard
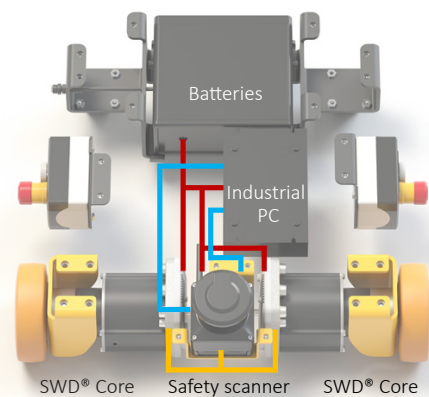
| CONVENTIONAL SOLUTION | VS | SOLUTION WITH SWD® TECHNOLOGY |

SWD® Core
Gear motor with safety

PLC + Safety PLC

Safety Encoders

Router

Industrial PC

Motors driver

Safety Scanner

Motors

Batteries

Gears

Wheels

Batteries

Industrial PC

SWD® Core   Safety scanner   SWD® Core

Classic components used for the development of an AMR

SWD® robotization kit

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