

BETA ROBOTS Mobile Robotics for Intralogistics

Andreu Corominas Murtra CEO & Co-founder at Beta Robots May 2020

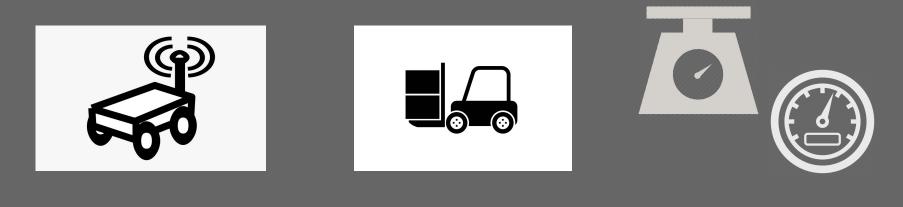
OUTLINE



- 1. Introduction
- 2. Vehicle Architecture
- 3. Kinematics
- 4. Navigation System
- 5. Localization System
- 6. Application
- 7. Manufacturers

1. INTRODUCTION (i)





Mobile Robotics

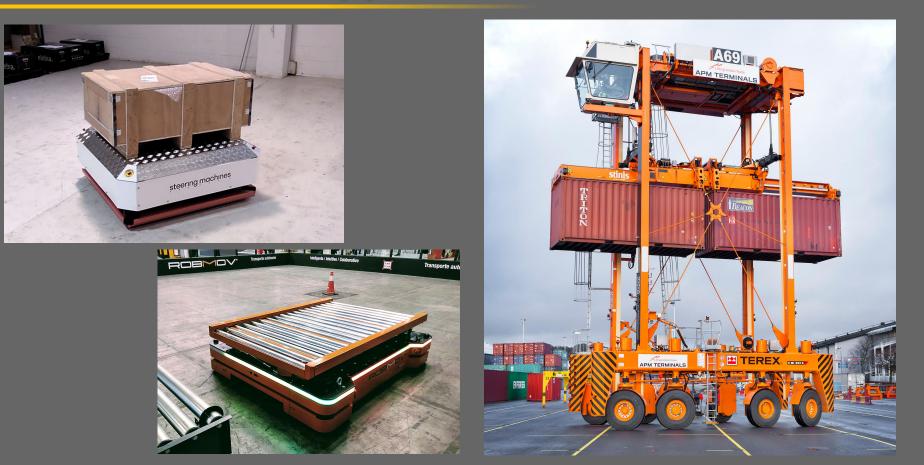
Intralogistics

Beyond Load & speed

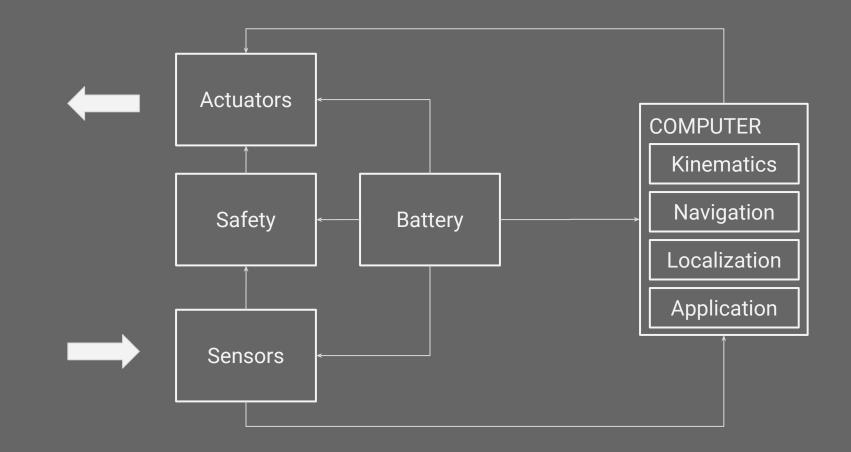
AGV: Automated/Autonomous Guided/Ground Vehicle AMR: Autonomous Mobile Robot

1. INTRODUCTION (ii)



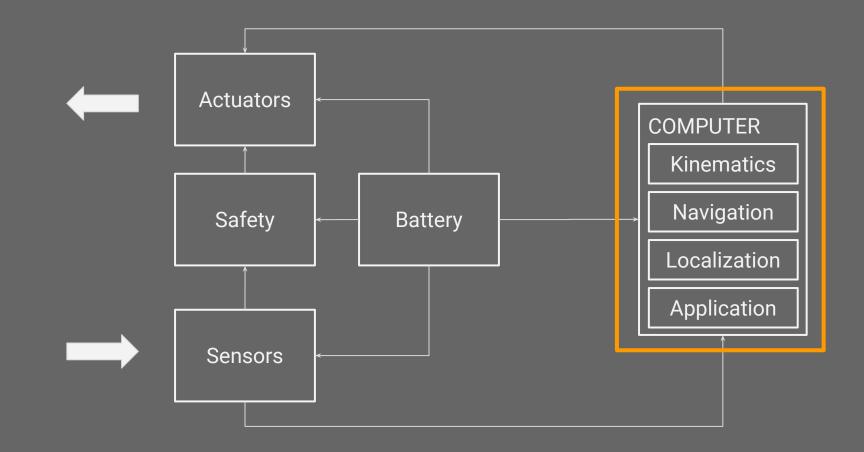


2. VEHICLE ARCHITECTURE



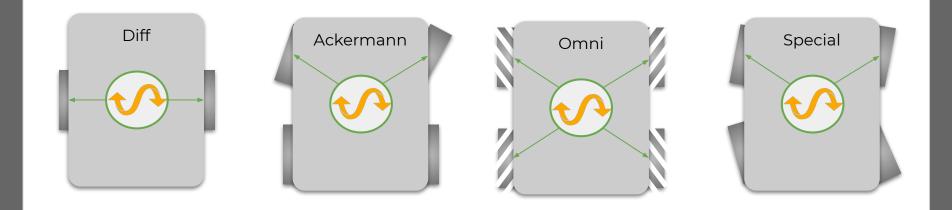
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2. VEHICLE ARCHITECTURE



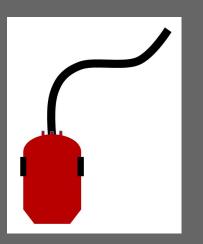
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4. NAVIGATION SYSTEM







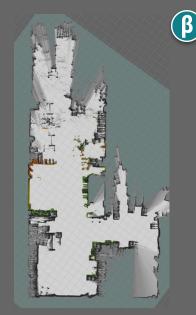
Line Following Paint / Magnetic / Virtual **Free Navigation** Stop&Go / Obstacle Avoidance

5. LOCALIZATION SYSTEM









No Localization (line following)

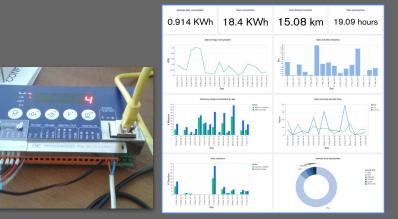
Explicit infrastructure Lidar beacons RF beacons QR codes (ground, wall,ceil) **Implicit infrastructure** GPS (outdoor only) **Mapping (SLAM)** Lidar Vision(2D/3D)

Autonomy

6. APPLICATION

















MAGAZINO













STEERING MACHINES







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