

COACHES

COoperative Autonomous Robots in Complex and Human Environments

Luca Iocchi, M. T. Lazaro, L. Jeanpierre,
A.-I. Mouaddib, E. Erdem, H. Sahli

Goals

- ▶ Deploying robots in public areas
 - assistance, guidance, escorting visitors, and surveillance
- ▶ Short-term interactions with many users
 - Non-expert users unaware of the robot's tasks and abilities

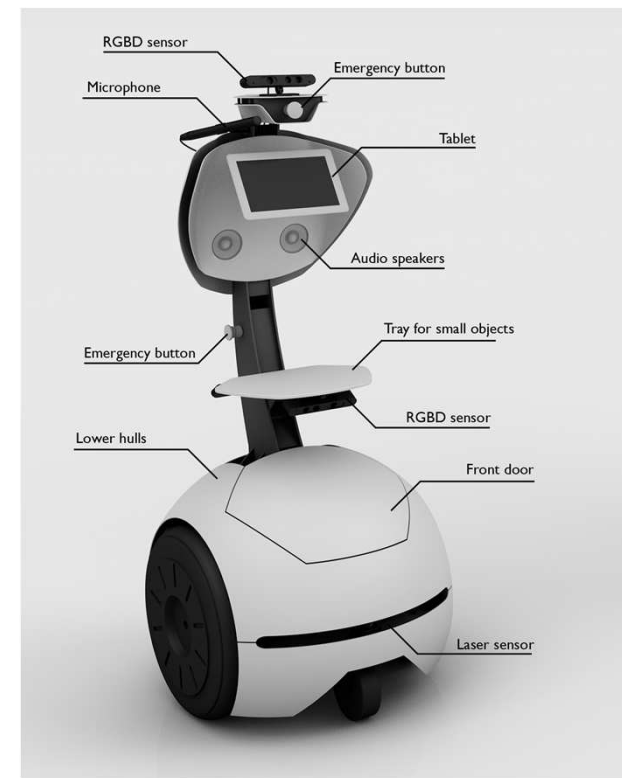


Rive de l'orne
shopping mall
in Caen, France



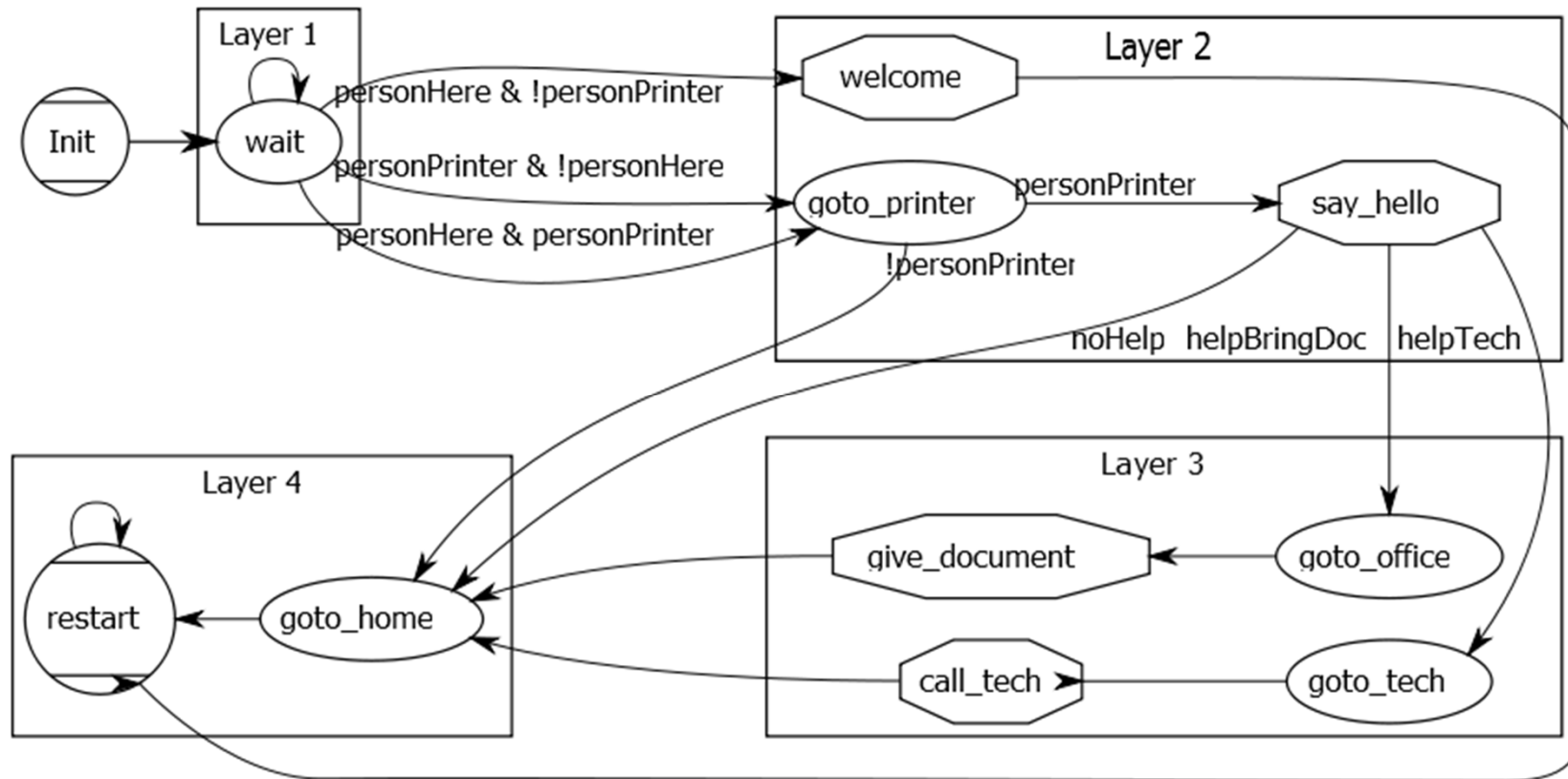
Main ingredients

- ▶ AI techniques for decision making
 - Personalized Short-term Human-Robot interaction
 - Social behaviors
- ▶ Nice-looking robots
- ▶ Demonstration in real environments in Caen
 - Rive de l'orne Mall
 - Guillaume le conquérant Castel
 - Campus II

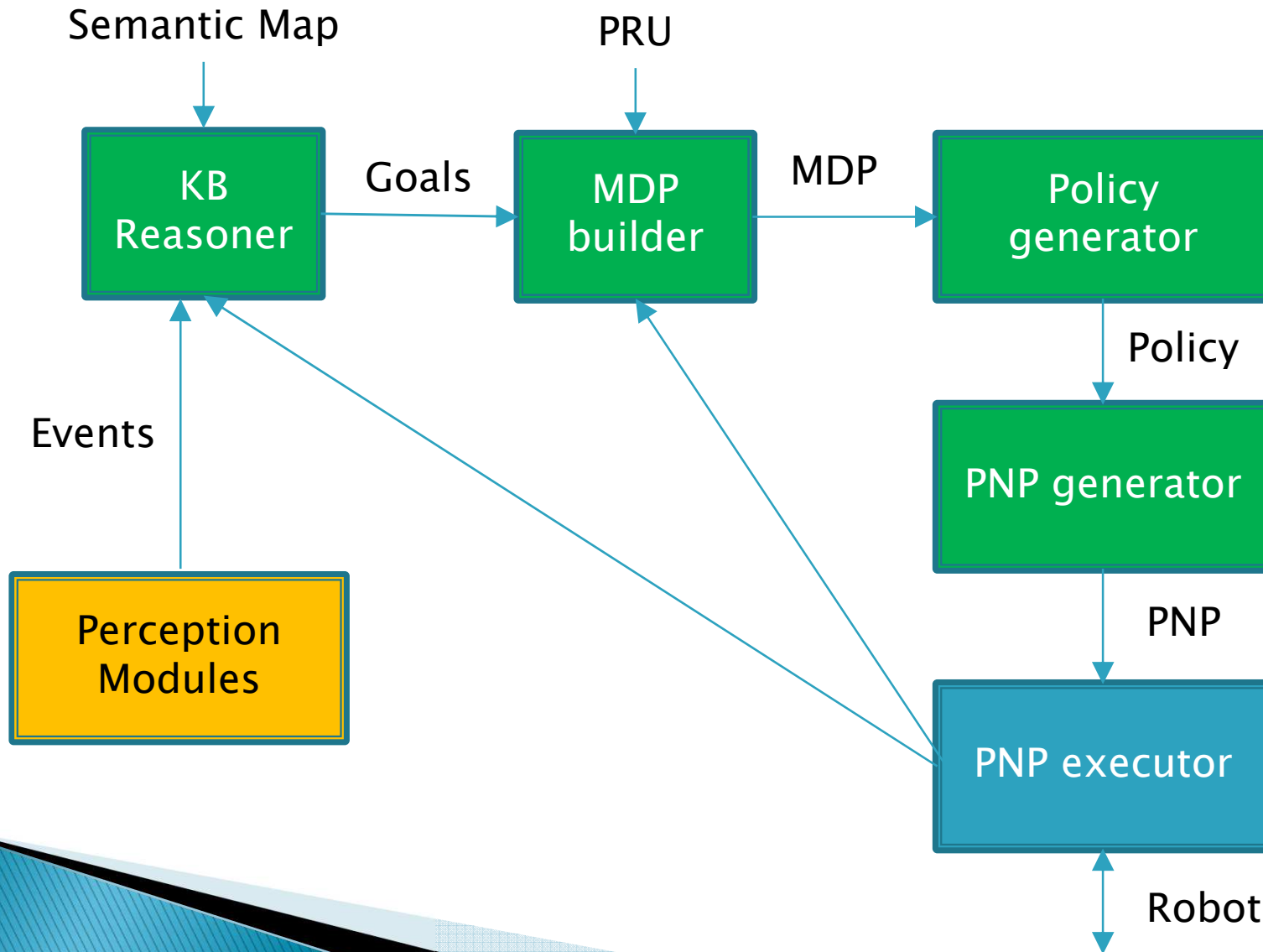


1. Task specification

PRU+ : specification of robot's tasks



2. Decision Making



3. Plan execution

PNP : execution of complex robot behaviors

