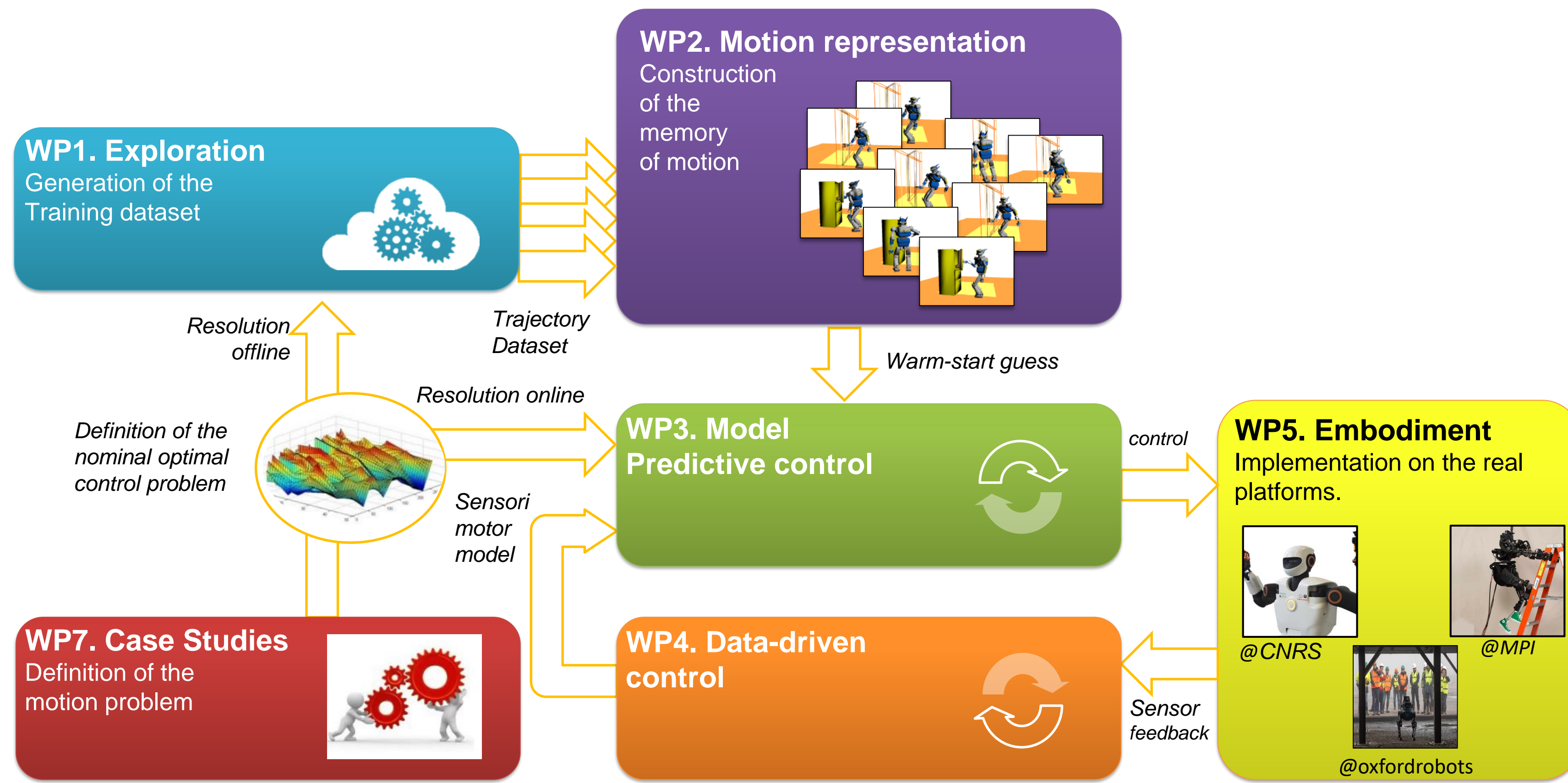


# MEMMO: Memory of Motion

## Ambition

Development of a **generic methodology** to generate **complex movements** for robots with **legs and arms** in **real-time**



## Organization

## Approach

**Objective #1** Data-driven model predictive control  
*Targeting real platforms*

**Objective #2** Memory encoding  
*Machine learning*

**Objective #3** Exploration  
*Offline resolution*



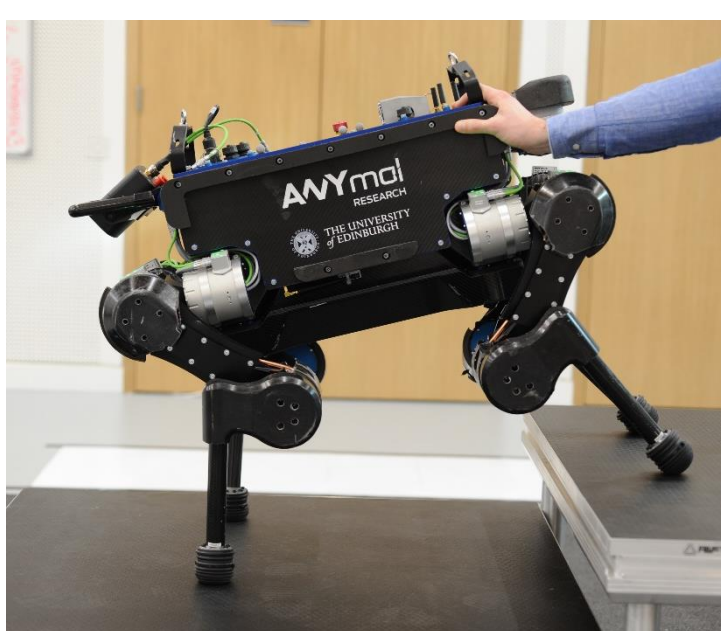
### Impact on aerospace industry

- Enhanced production rates
- Reduced infrastructure adaption when automating
- Reduced need for specialized end-effectors



### Impact on lower-limb paralysis rehabilitation

- Exoskeleton in rehabilitation center
- Longer term: rehabilitation exoskeleton at home



### Impact on inspection of civil-engineering structures

- Removing workers from dangerous scenarios
- Automated measurement of concrete tunnel linings
- Continuous supervision of a demolition zone

## Impacts

[www.memmo-project.eu](http://www.memmo-project.eu)



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