

4.1

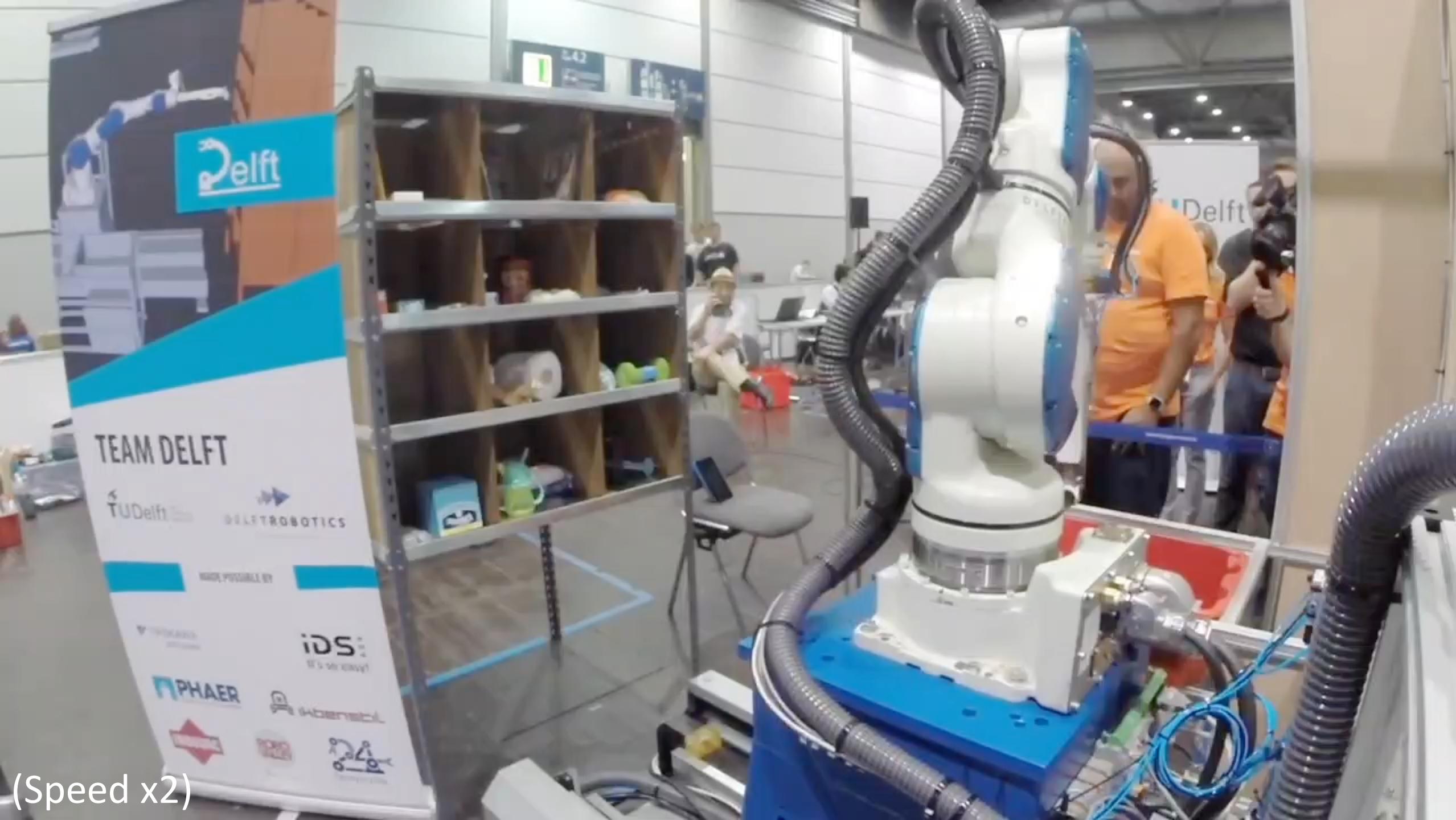
Manipulation - basic concepts

Mukunda Bharatheesha

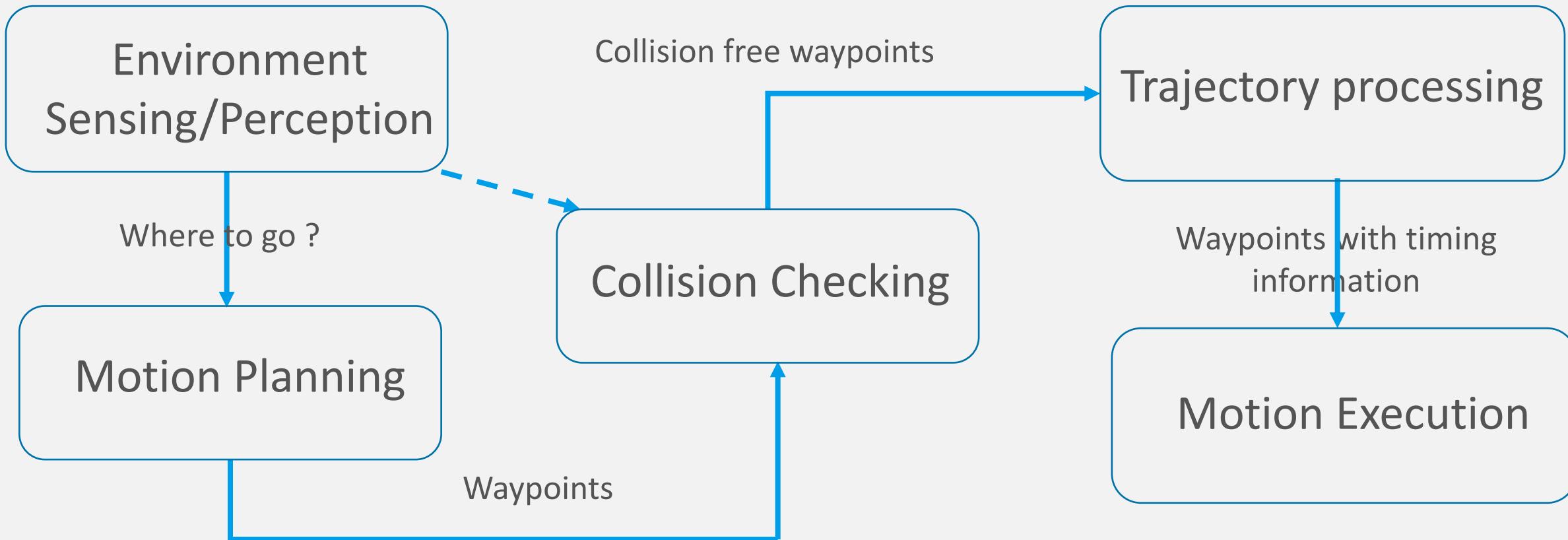
Basic concepts of manipulation

- Interact with the environment and modify it using a robot to perform useful tasks
 - pick and place an object.
 - fasten two parts of a car chassis.
- An integral part of automation.

(Speed x2)



Manipulation - functional modules



Typical functional modules associated with Manipulation