Robotics for Critical Raw Materials



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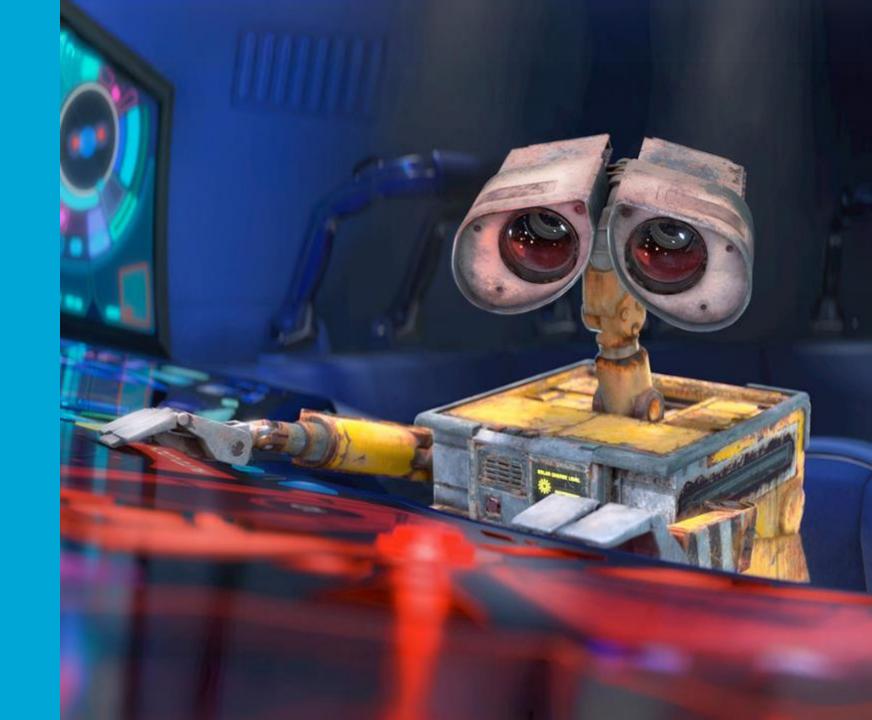
Aerospace Structures and Materials







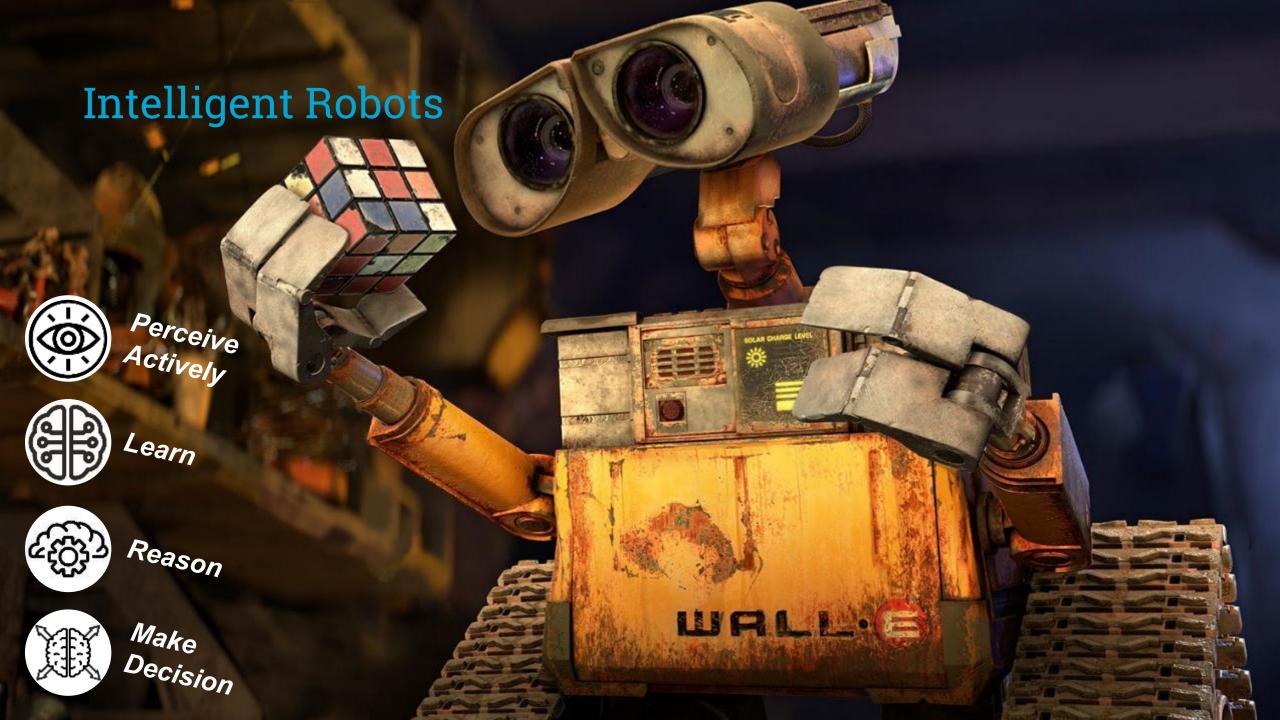
Robotics: Where we stand





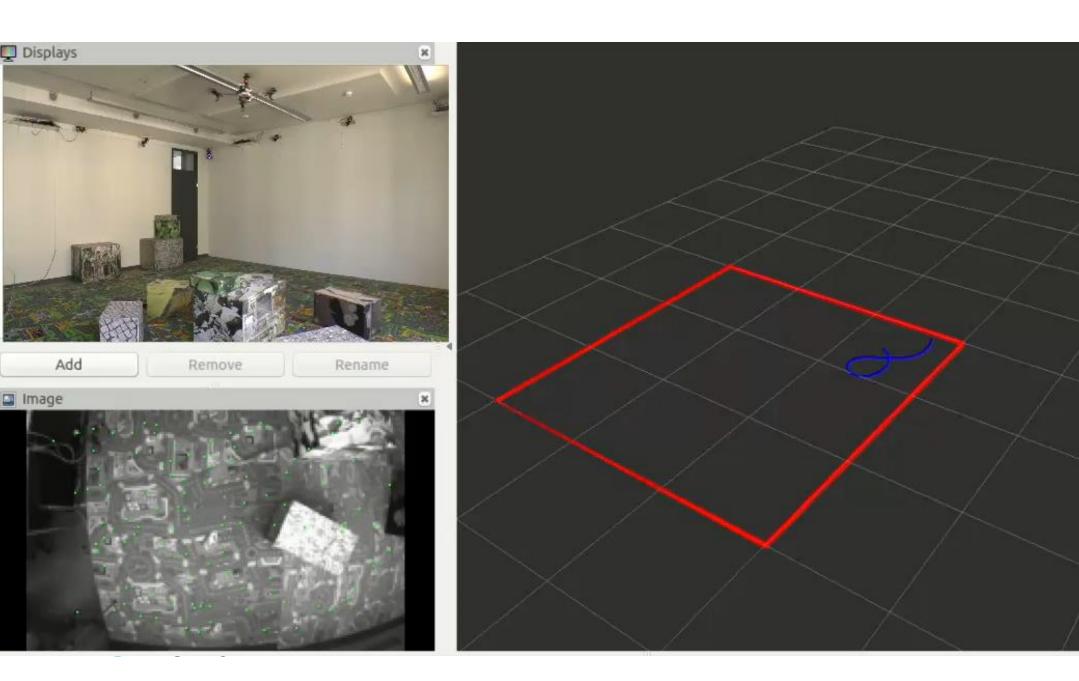






Active dense 3D reconstruction for mobile eye-in-hand robot

Experimental run with cost weight 0.25





Why Robots for CRM?





EU Act on Critical Raw Materials



- Recycle CRMs
- Optimize use of CRMs
- Find new resources
 - > In EU lands
 - Strategic partnership
 - Deep sea
 - Space

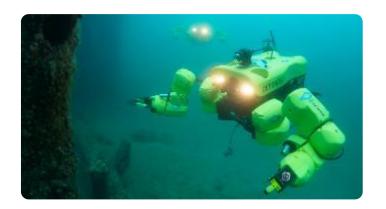


Where do robots come to play?

- Highly precise tasks
- Manipulating extra large objects
- Working in hazardous environments

... are simply beyond human capabilities.



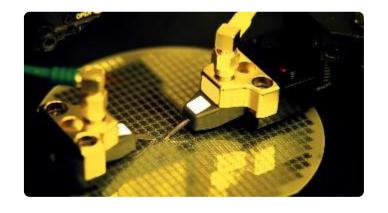




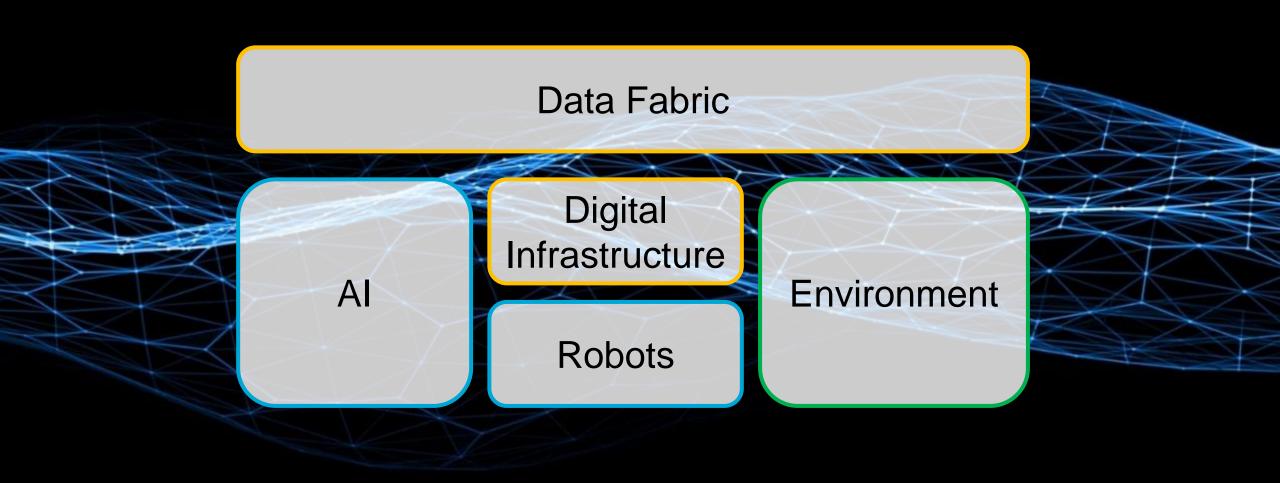








Why are CRMs important for Robotics?



EU Act on Critical Raw Materials - Strategic Technologies and Sectors

