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ABB-ROBOTICS

Industrieel bouwen en robotisering

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Sales Engineer Robotics

Topics

- Simplification, Collaboration & Digitalization
- Customer Value
- Who we serve
- Industrial Robot Systems
- RAC's & Powerpacks
- User Cases
- Inspiration
- Food for Thought



Focus pillars of ABB

Simplification, Collaboration & Digitalization

Simplification



Collaboration



Digitalization



- Managing increased automation complexity
- Removing entry barriers for many new robot users
- Speeding launch time and efficiency

- Increasing the flexibility of people and automation systems
- Unlocking entirely new applications
- Balancing the imperative for safety with the need for productivity

- Efficiency through the entire lifecycle: design, build, operate and maintain
- Actionable and proactive intelligence for greater reliability
- Connecting islands of automation across plants and enterprises

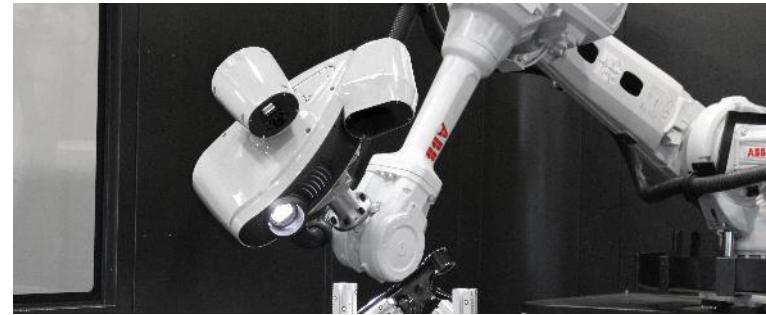
Customer Value

Simplification, Collaboration and digitalization are unlocking real customer value

Flexibility



Quality



Performance



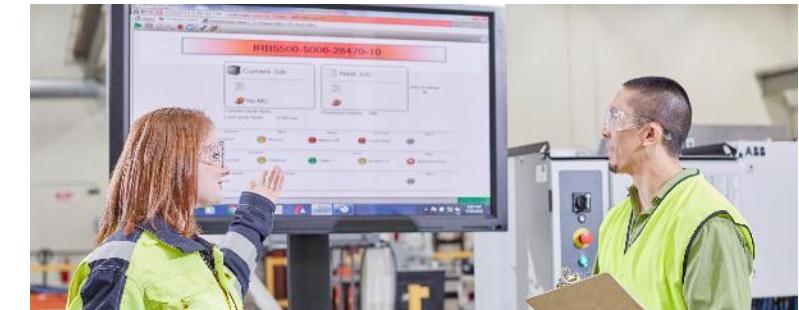
Scalability



Efficiency



Reliability



Who we serve

ABB Robotics' major market industries

Automotive & tiers



Electronics



Food & beverage



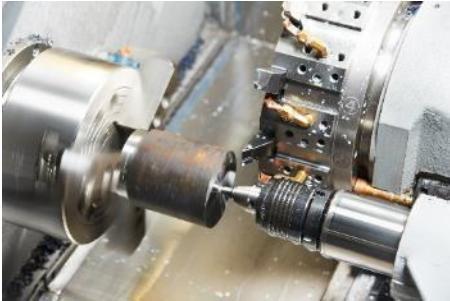
Foundry/Forging



Metal fabrication



Machine tools



Logistics



Plastics & rubber



Pharmaceuticals



Construction



Industrial Robot Systems

The basic setup



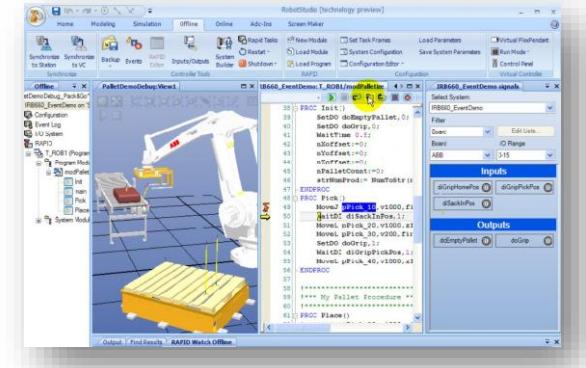
Controller



Manipulator



Flexpendant



RobotStudio

Hardware

Software

Ease of Use

Hard- & Software to increase the ease of use of robots

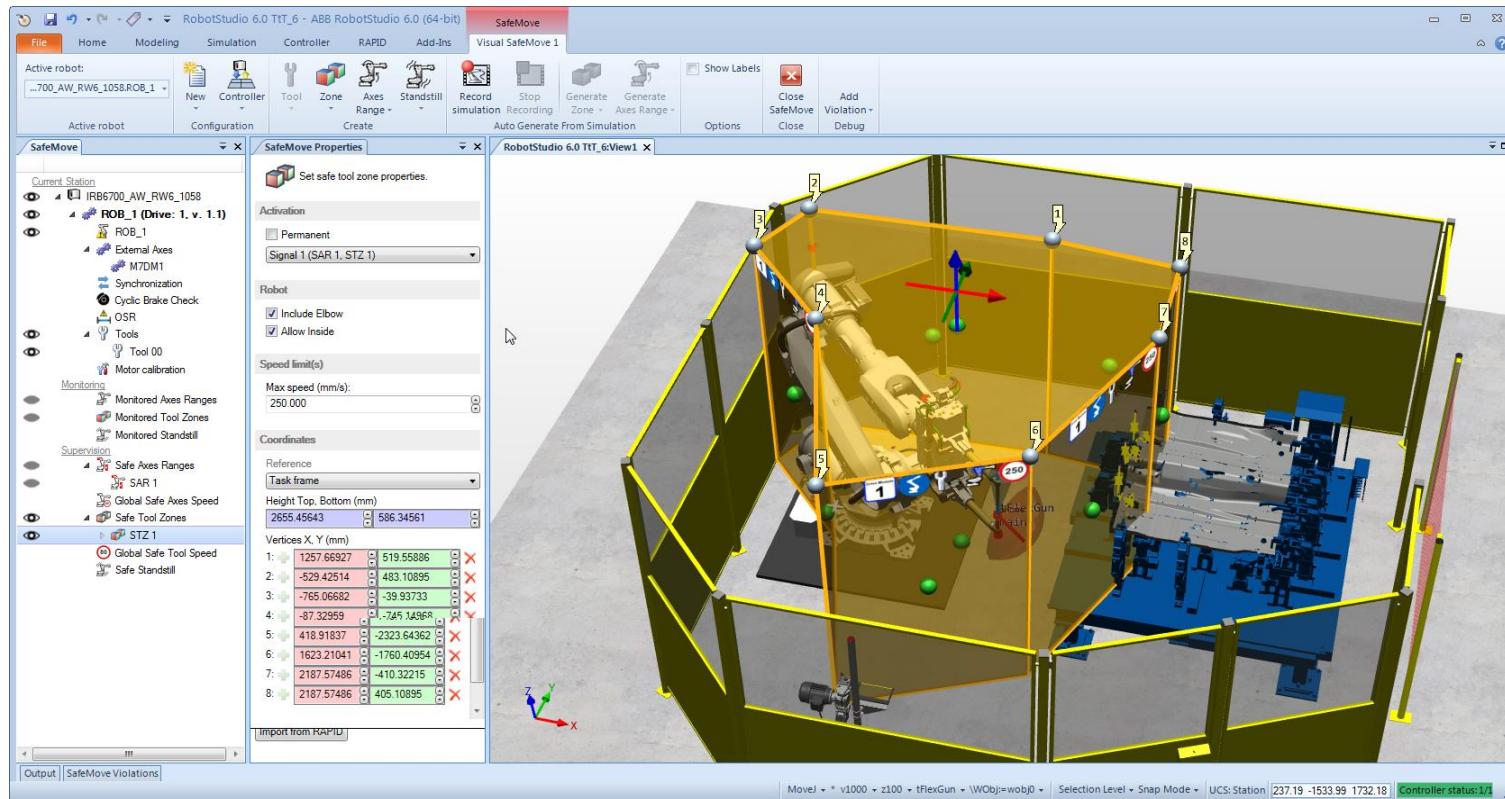
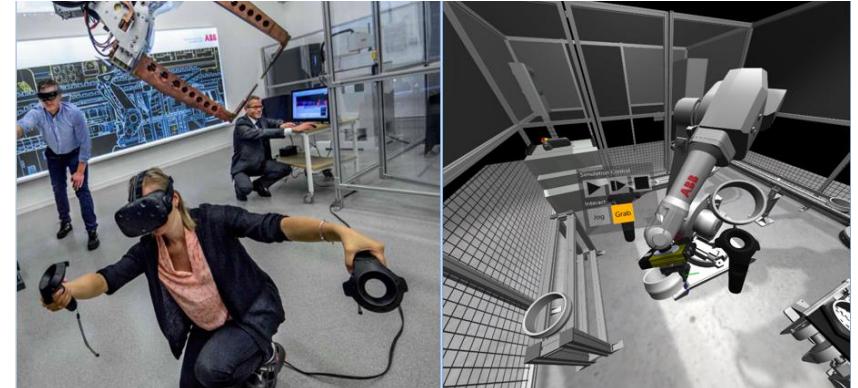


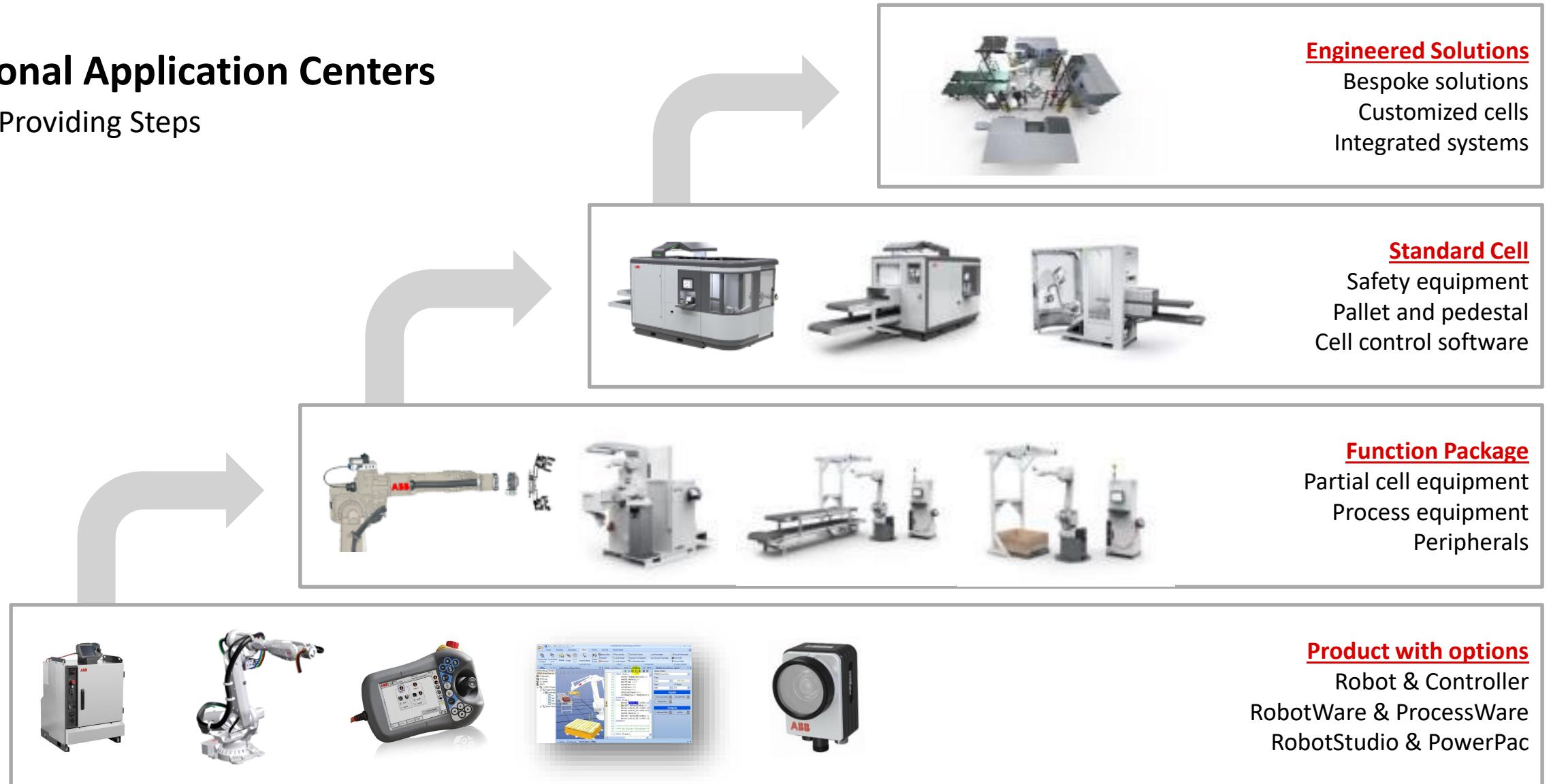
ABB Robot Studio (On- & Offline Programming)



Virtual Reality (Offline Programming)

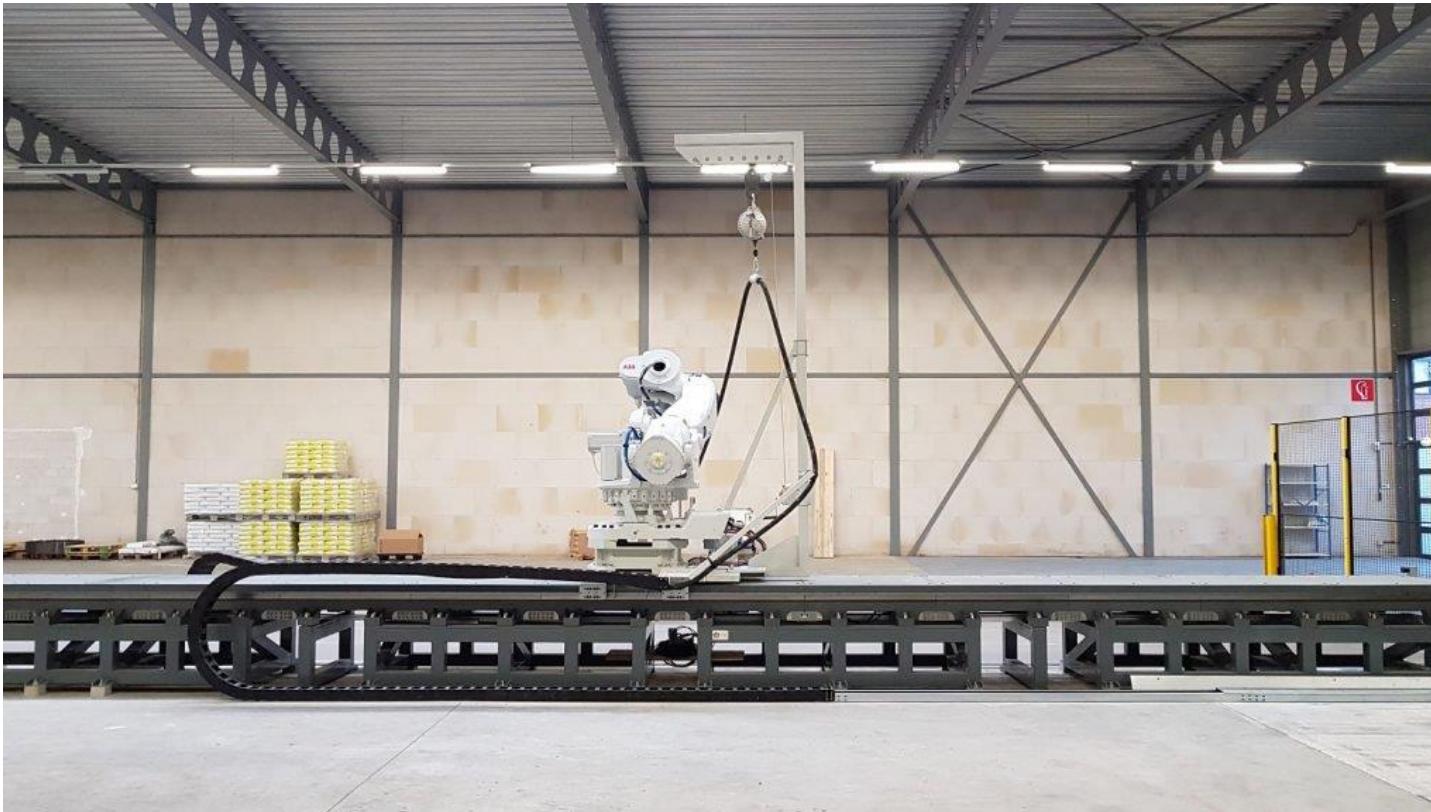
Regional Application Centers

Value Providing Steps



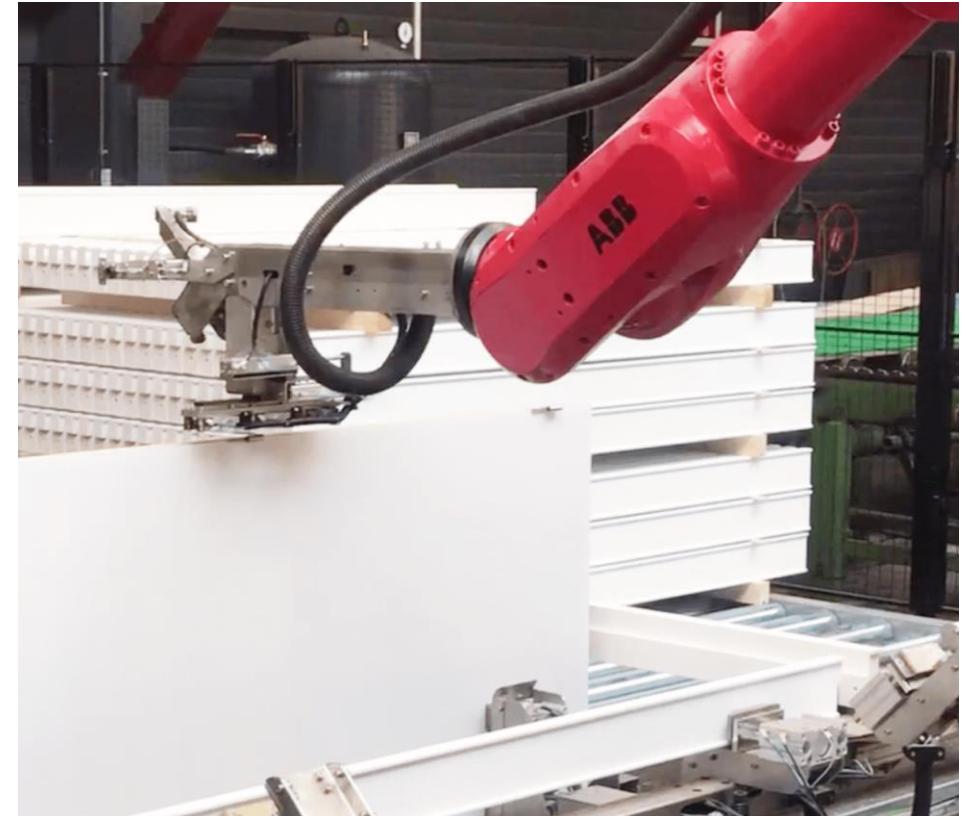
User cases

BAM / WEBER BEAMIX – 3D Concrete Printing



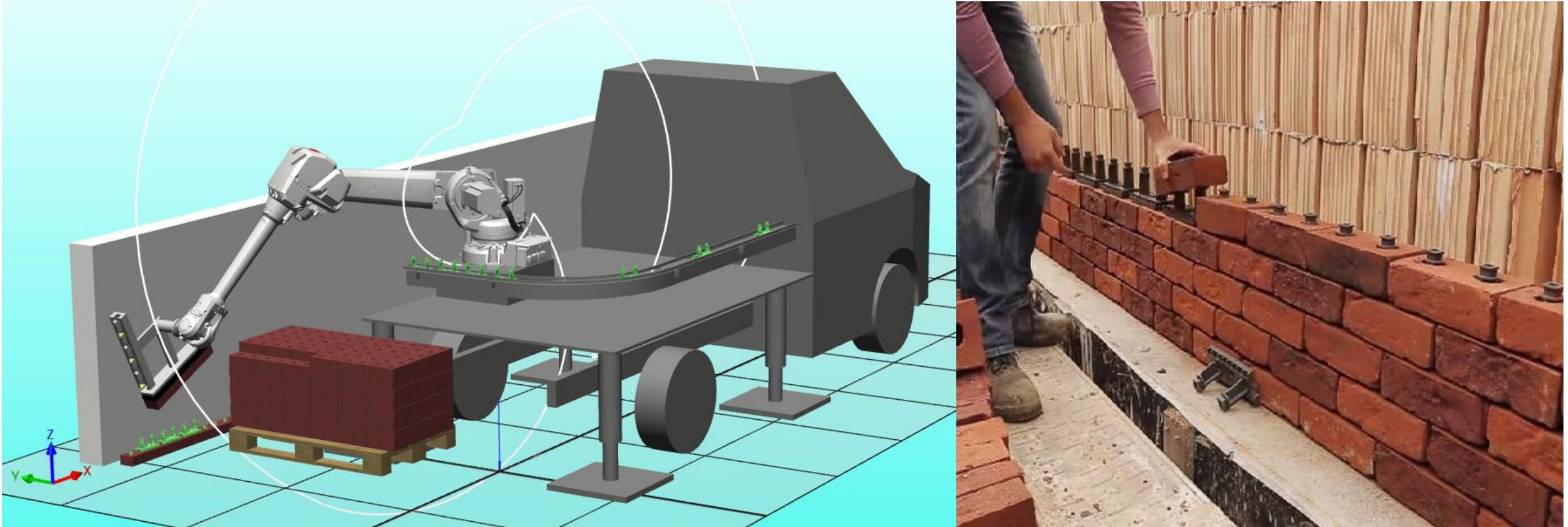
User cases

WWA/DEKKER HOUT– Prefab Deur-Kozijn Samenstellingen



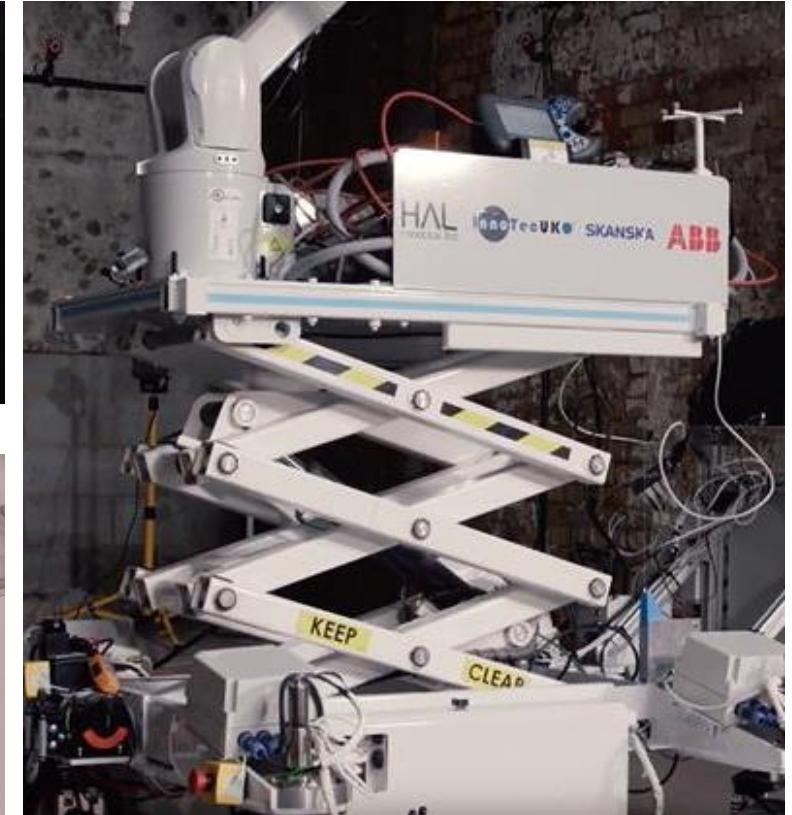
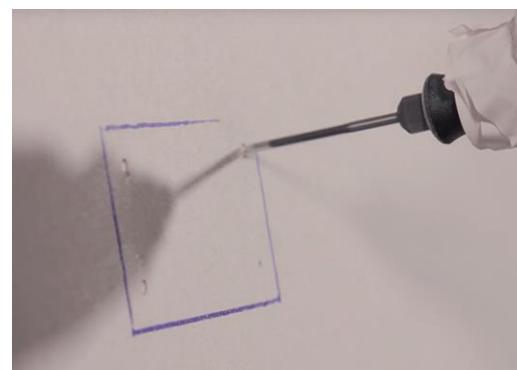
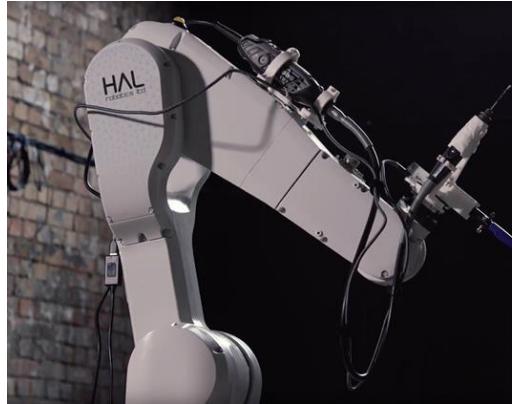
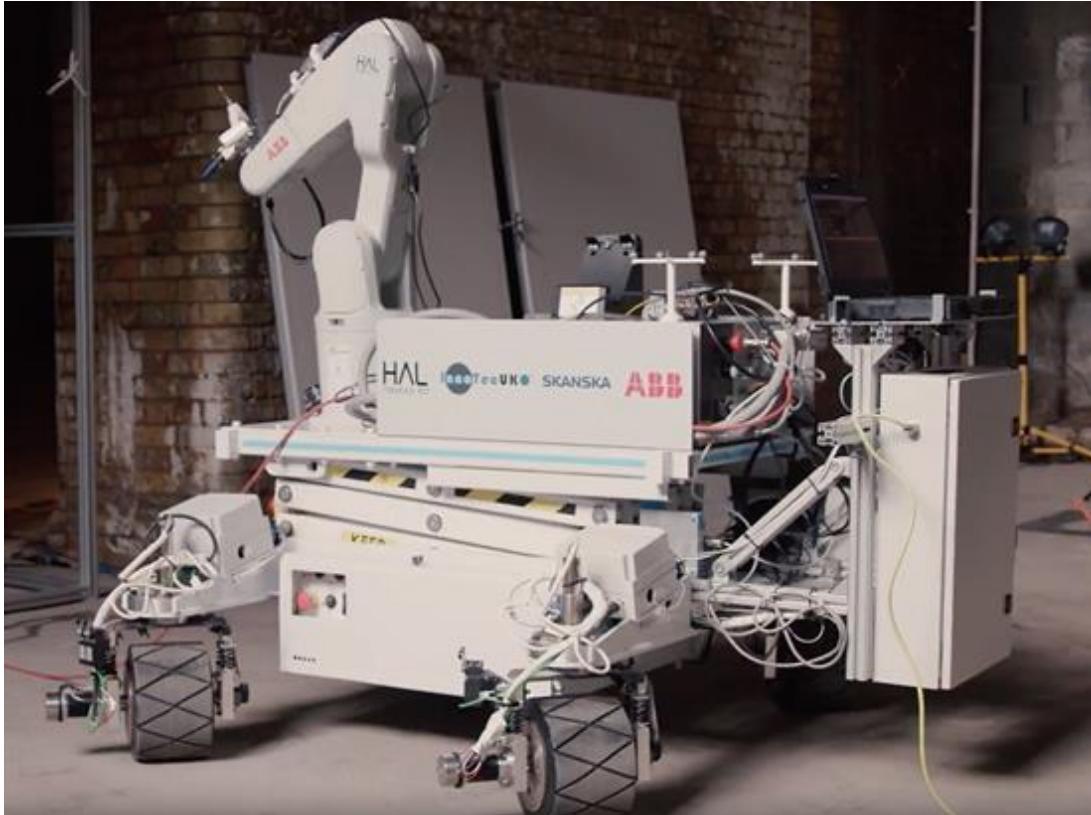
Inspiration

Facadeclick - Building Brick Walls



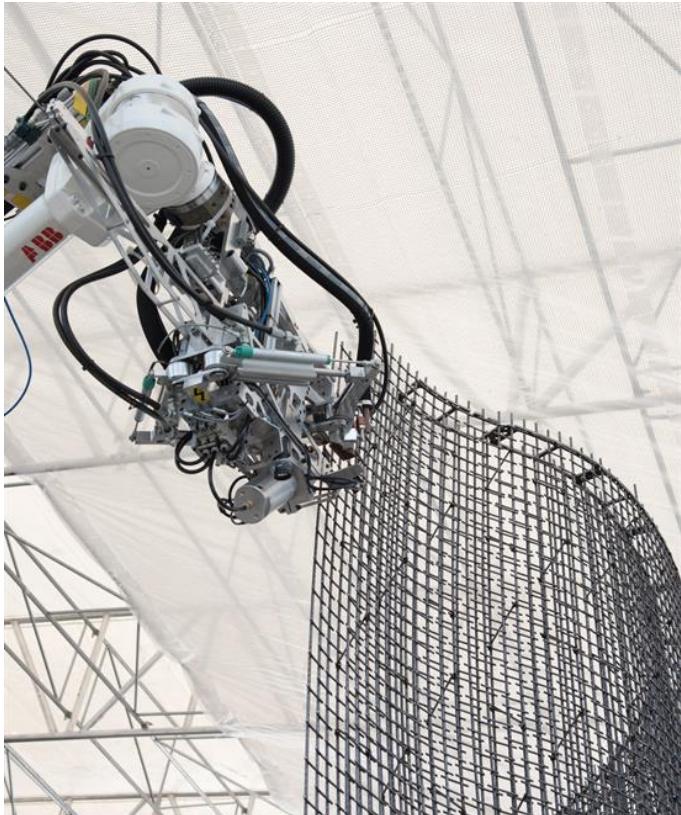
Inspiration

ABB, HAL Robotics, Skanska & InnoTech - Construction & Manufacturing by a Mobile Robotic Arm



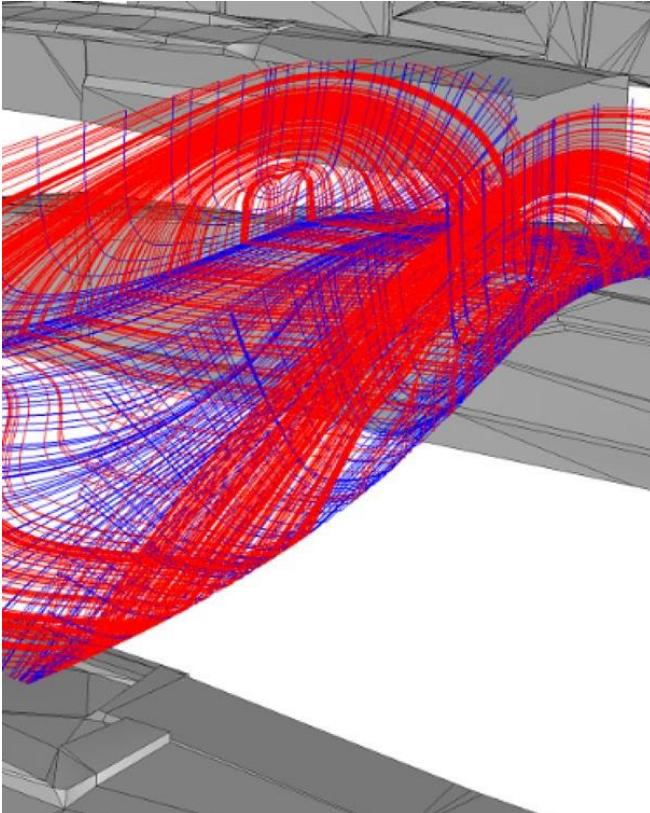
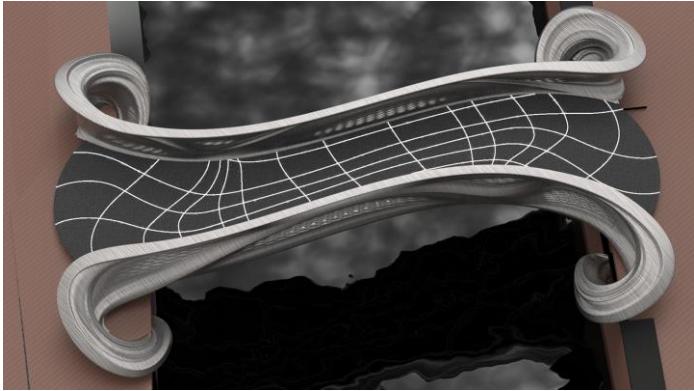
Inspiration

NCCR Digital Fabrication - Robot Tying Rebar



Inspiration

MX3D – 3D-Robotic Welding



Inspiration

ETH Zurich – Timber Construction



Inspiration

Situ Fabricator – Mobile Brick Laying



Food for thought...

- Pas ik de automatisering toe op de huidige processen?
- Pas ik de huidige processen aan op nieuwe technologieen?
- Wat wordt de toekomst, produceren on-site versus Prefab?
- Wat zijn de effecten m.b.t. Engineering, Prefabricage, Logistiek enz.?
- Ga ik complete samenstellingen produceren, of modulaire bouwstenen?
- Welke taken automatiseer ik en welke belangrijke kennisdragers raak ik dan kwijt?
- Wat voor mensen heb ik nodig voor geautomatiseerde productie?



What's to come...

What are you dealing with, and how can we assist?

Lets write the future of robotics together.

