

# T q d q v e u

Group 3 : WillBe Robotic (HK) Limited

*RECO7609 Technologies and Innovation*

**Assessment Task One: Group Technology Innovation**

# What is Robotics?





# Timeline

The most important milestones in the history of robotics

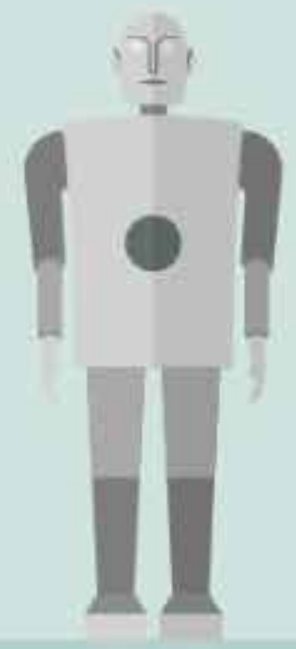
1495

Leonardo Da Vinci



1937/38

„Elektro“  
by Westinghouse



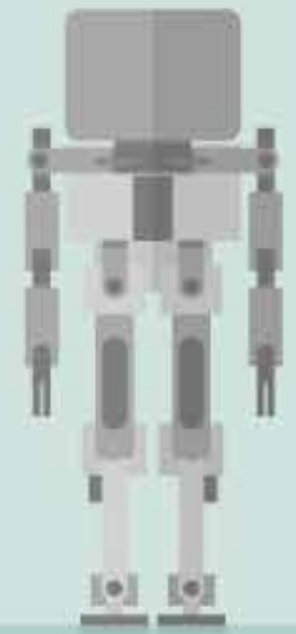
1961

„Unimate“  
by Devol/Engelberger  
@ GM



1991

„P1“  
by Honda



2017

„Panda“  
by Franka Emika



# Robotics vs AI

Robotic  
Process  
Automation

VS

Artificial  
Intelligence

*Taking the robot out of  
the human*



*Putting the human into  
the robot*

# Robotics vs Human



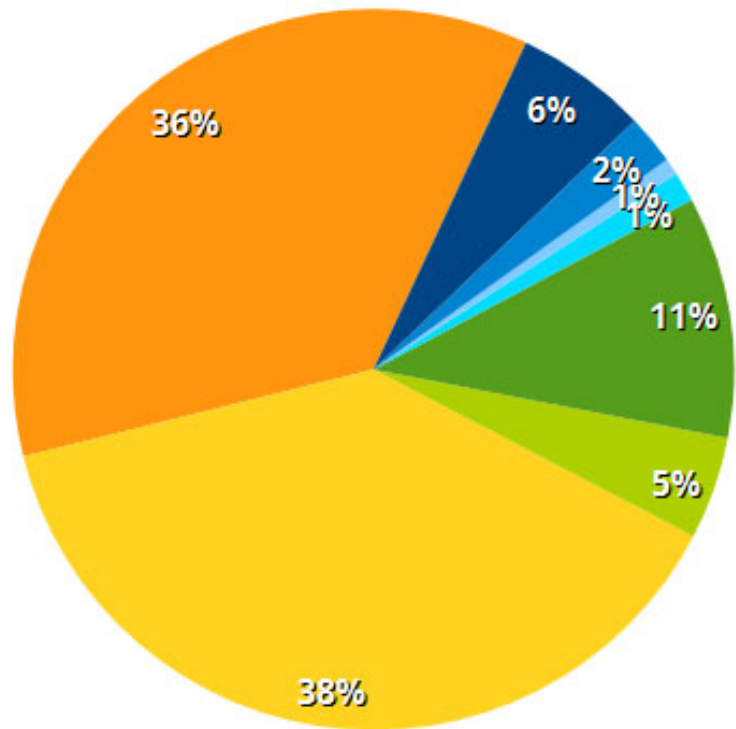


# Gzco r rg"qh'T qdqvku



<https://www.youtube.com/watch?v=IAQRuf7Hslo>

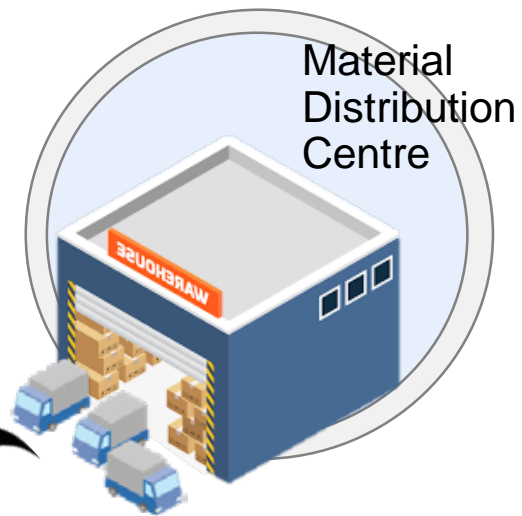
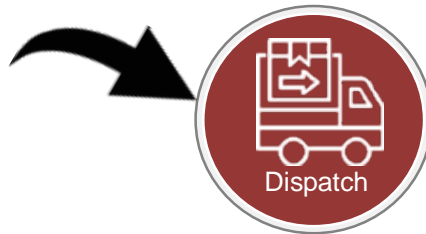




- Construction Materials
- Construction Labor
- Contractor Overhead
- Contractor Profit
- Permits and Fees
- Survey
- Project Management
- Furnishings, Fixtures, Equipment



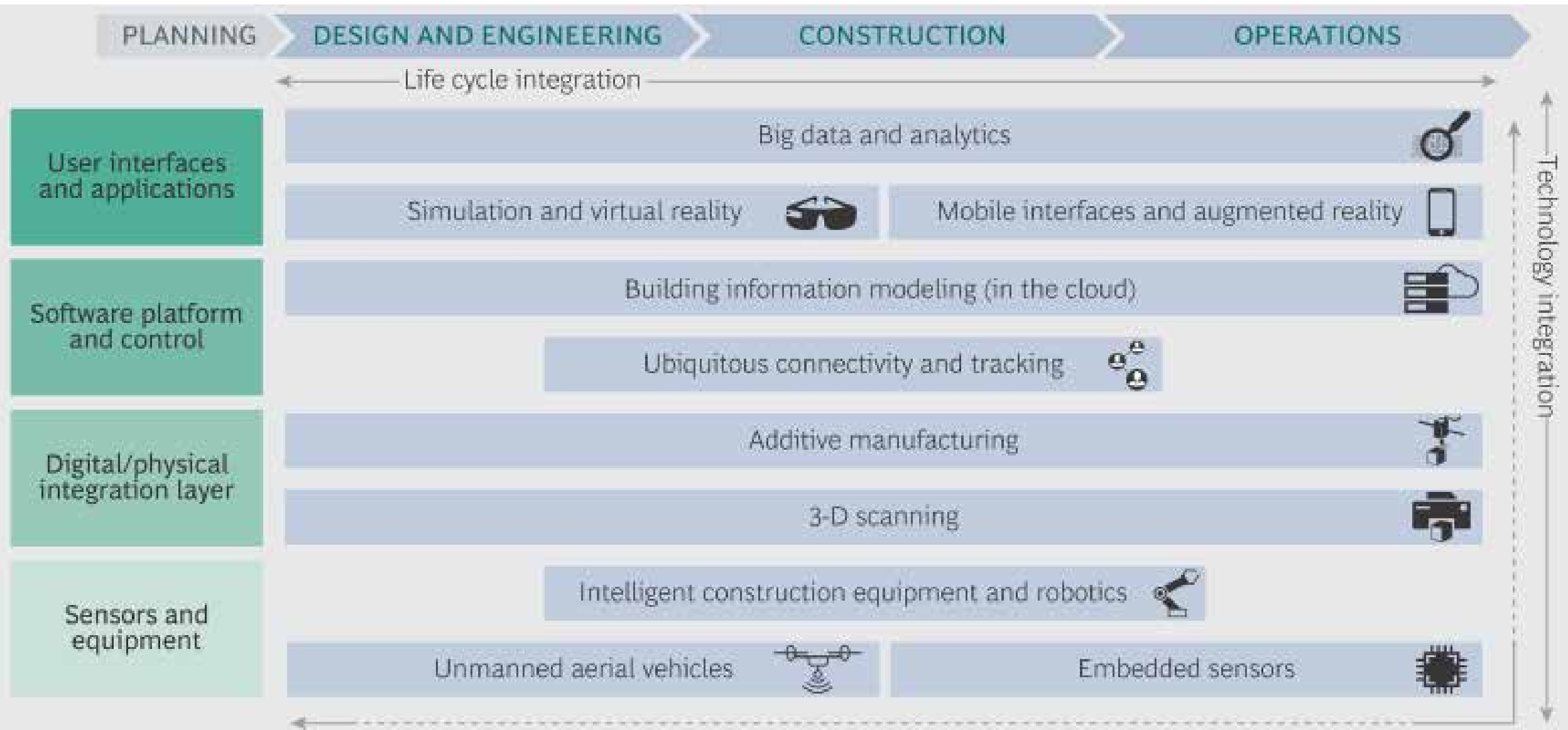




Typical Workflow  
For  
Automatic Delivery System



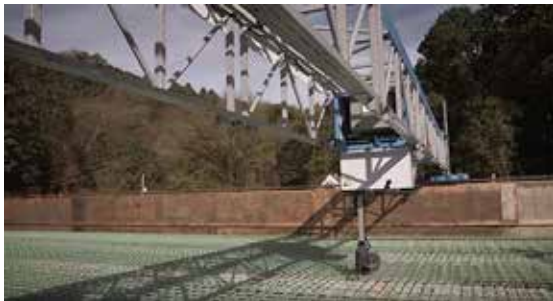
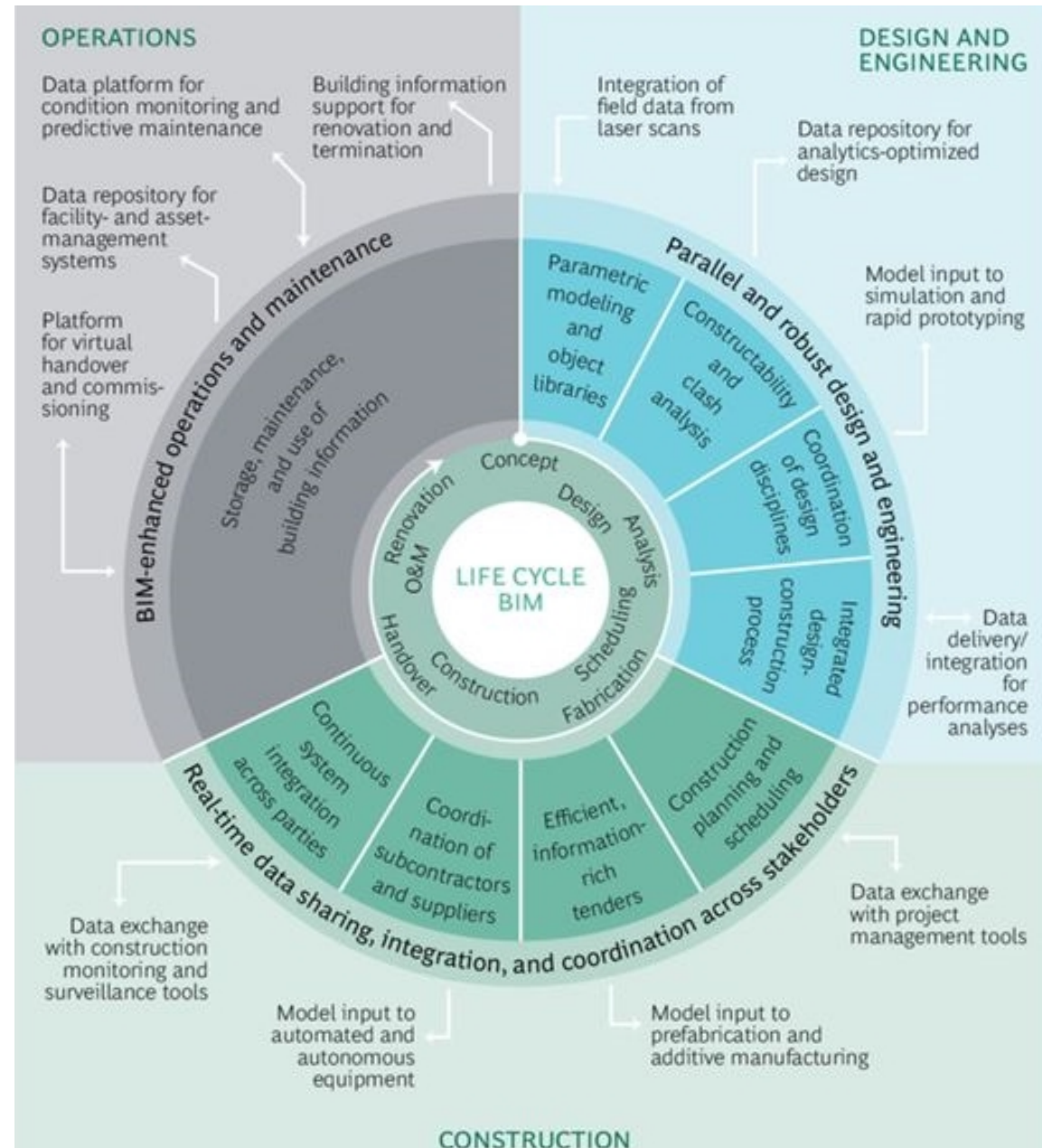
# Digital Technologies can be applied along the E&C value Chain



RCG The Boston Consulting Group (2016)

<http://futureofconstruction.org/content/uploads/2016/09/BCG-Digital-in-Engineering-and-Construction-Mar-2016.pdf>

# Application of Building Information Modeling Along the E&C Value Chain





**THE END**