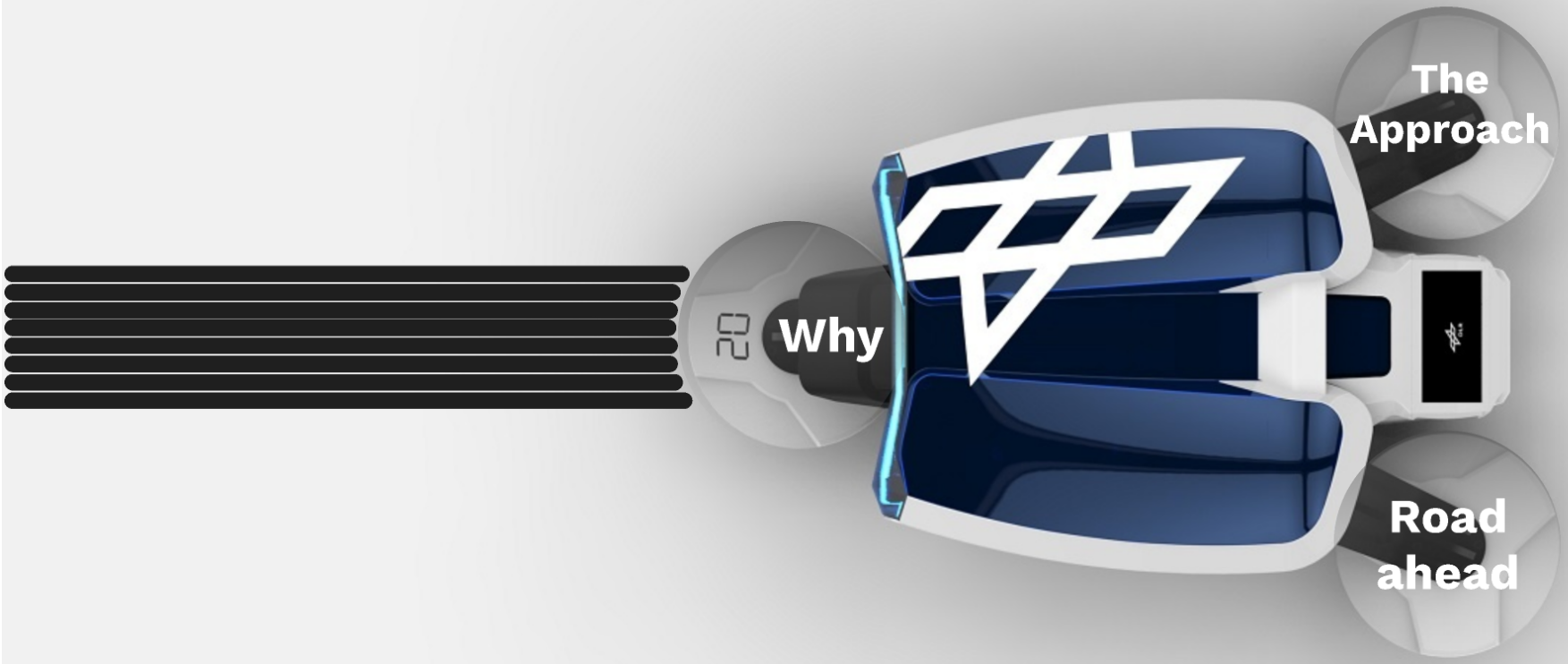
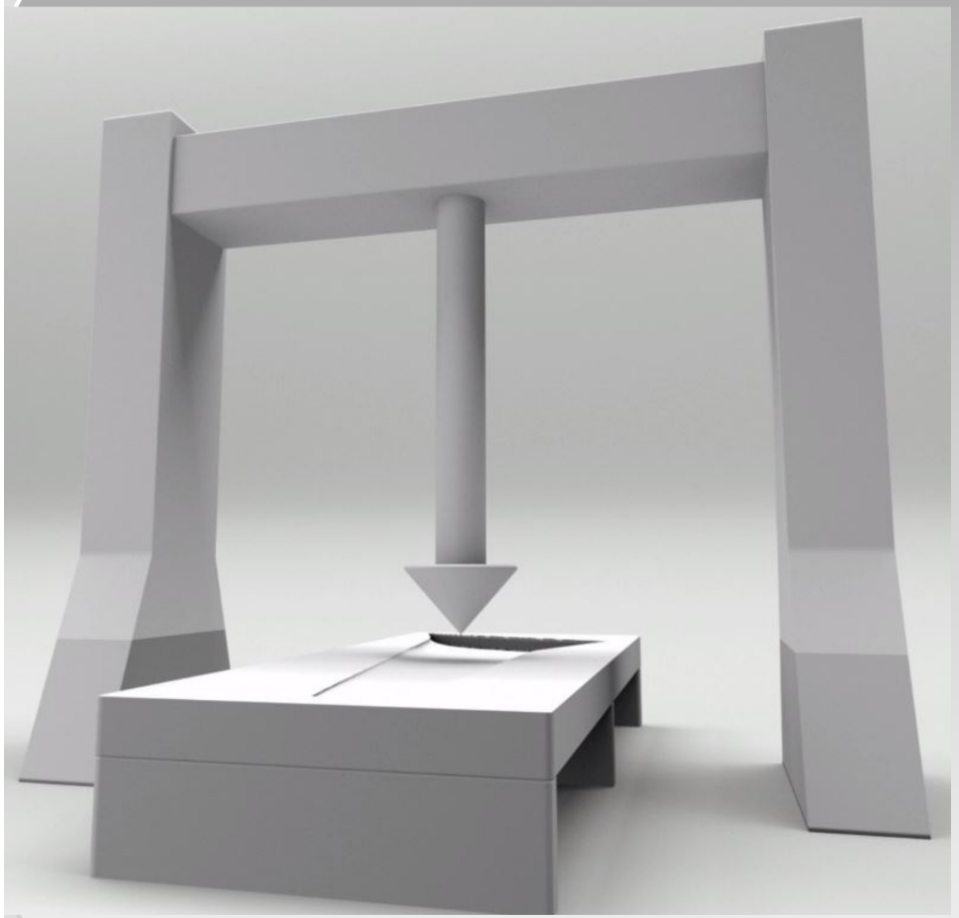
AFP Crawlers

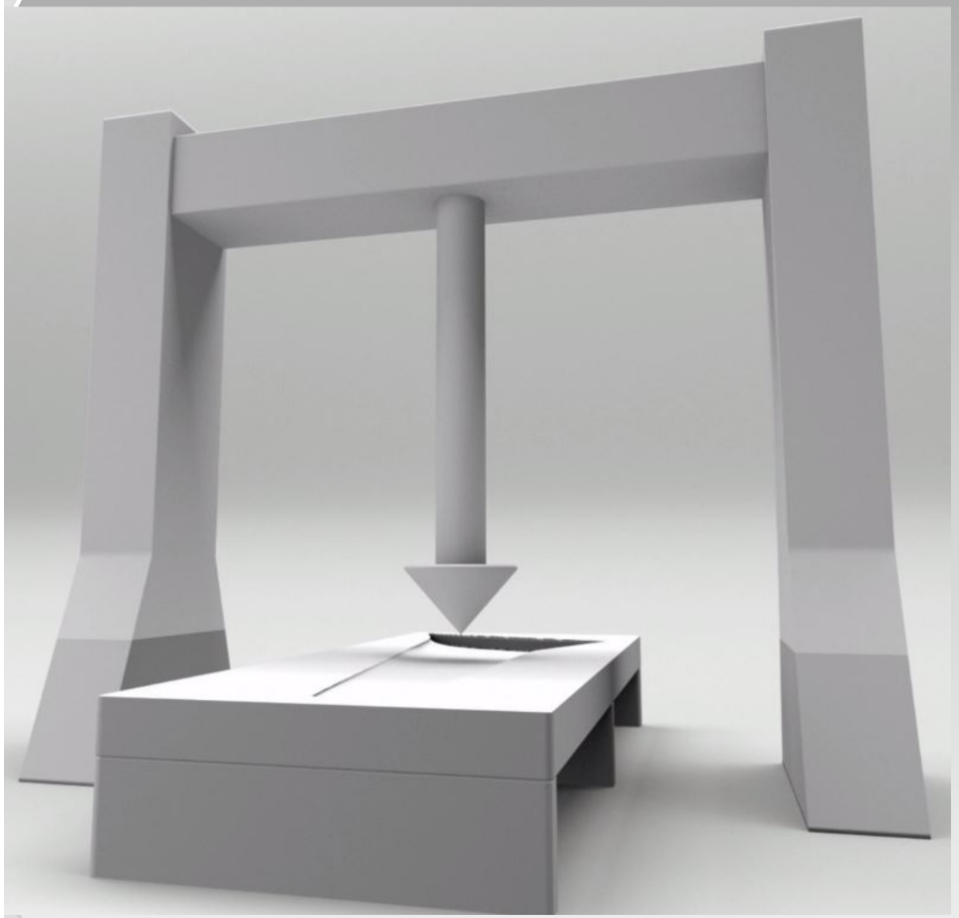
Automated Fiber Placement without limiting Kinematics



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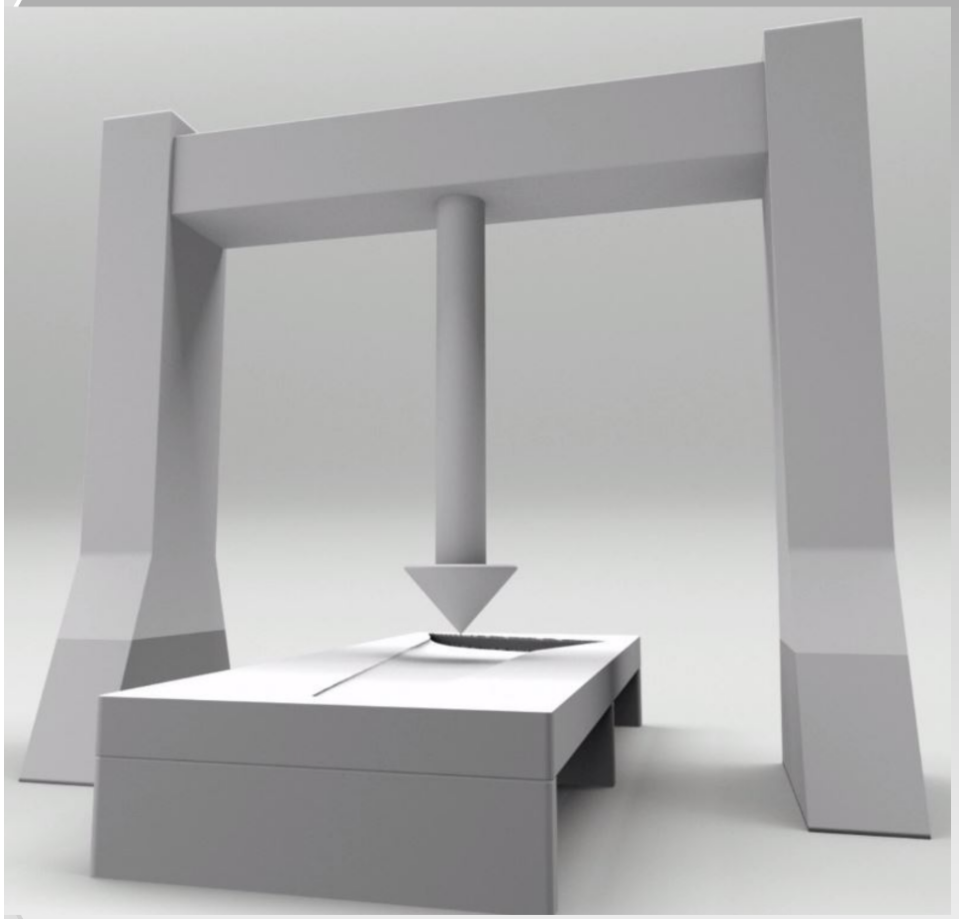
Limiting kinematics







Limiting kinematics





Limiting kinematics

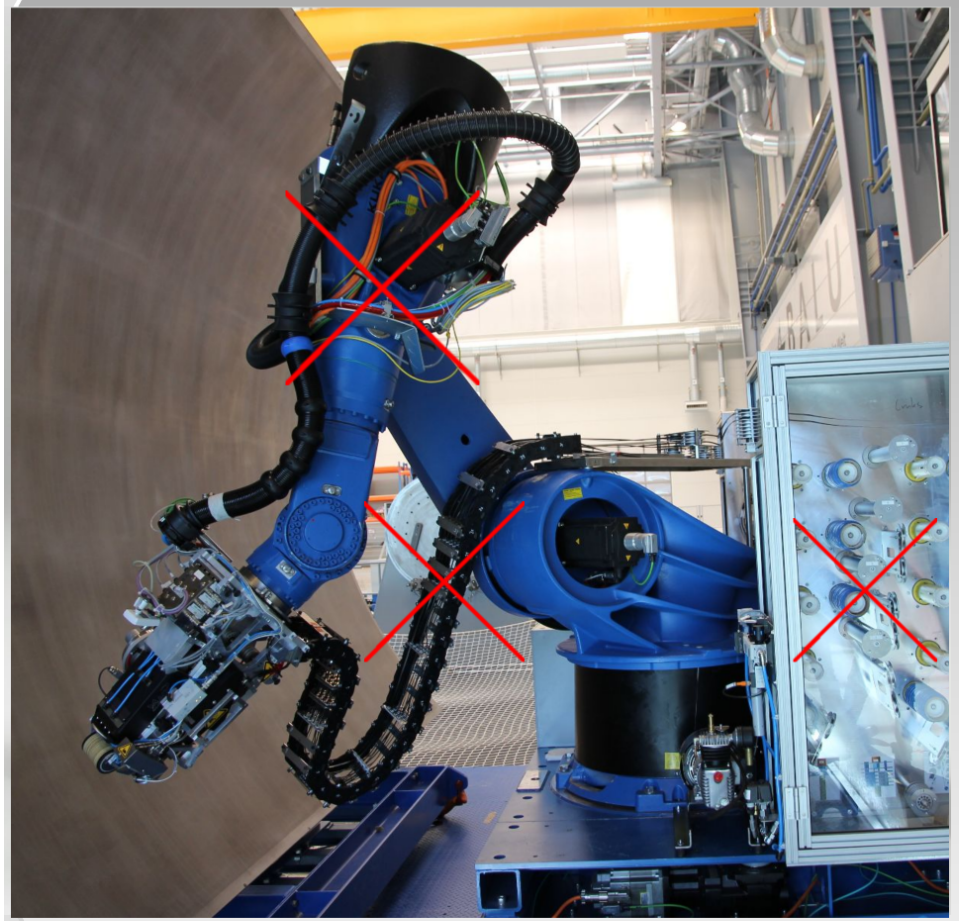


Limiting kinematics



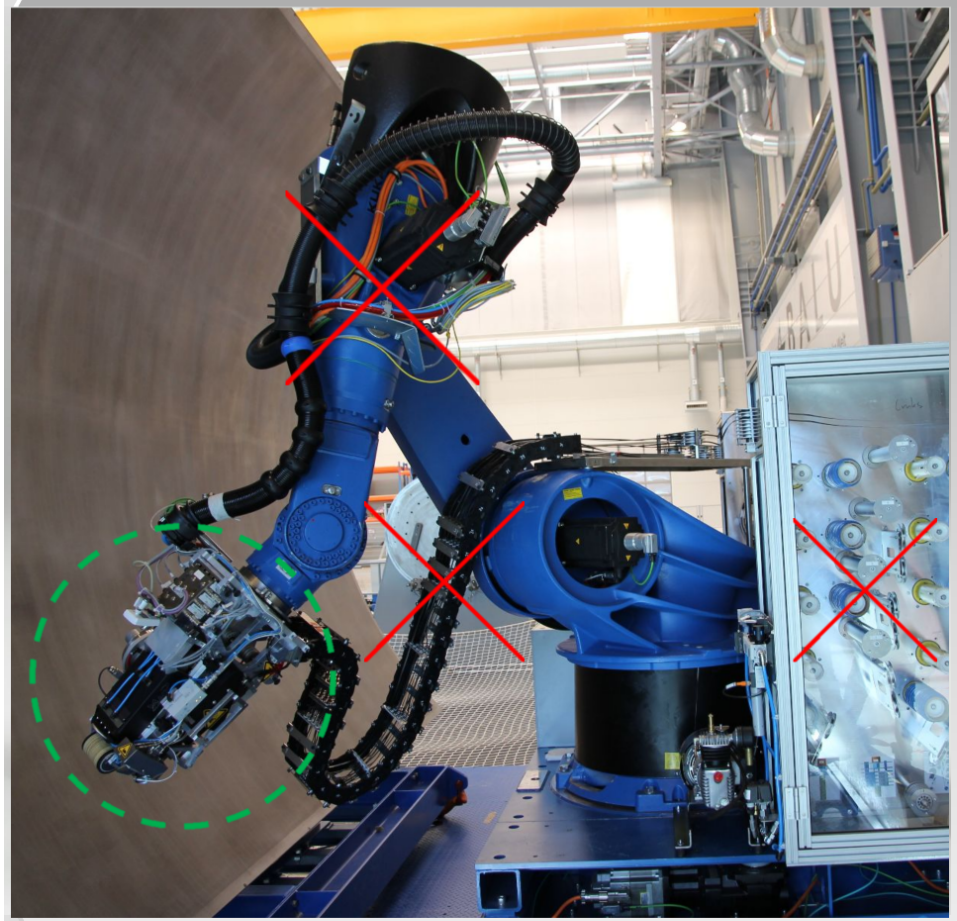


Limiting kinematics





Limiting kinematics





Limiting kinematics

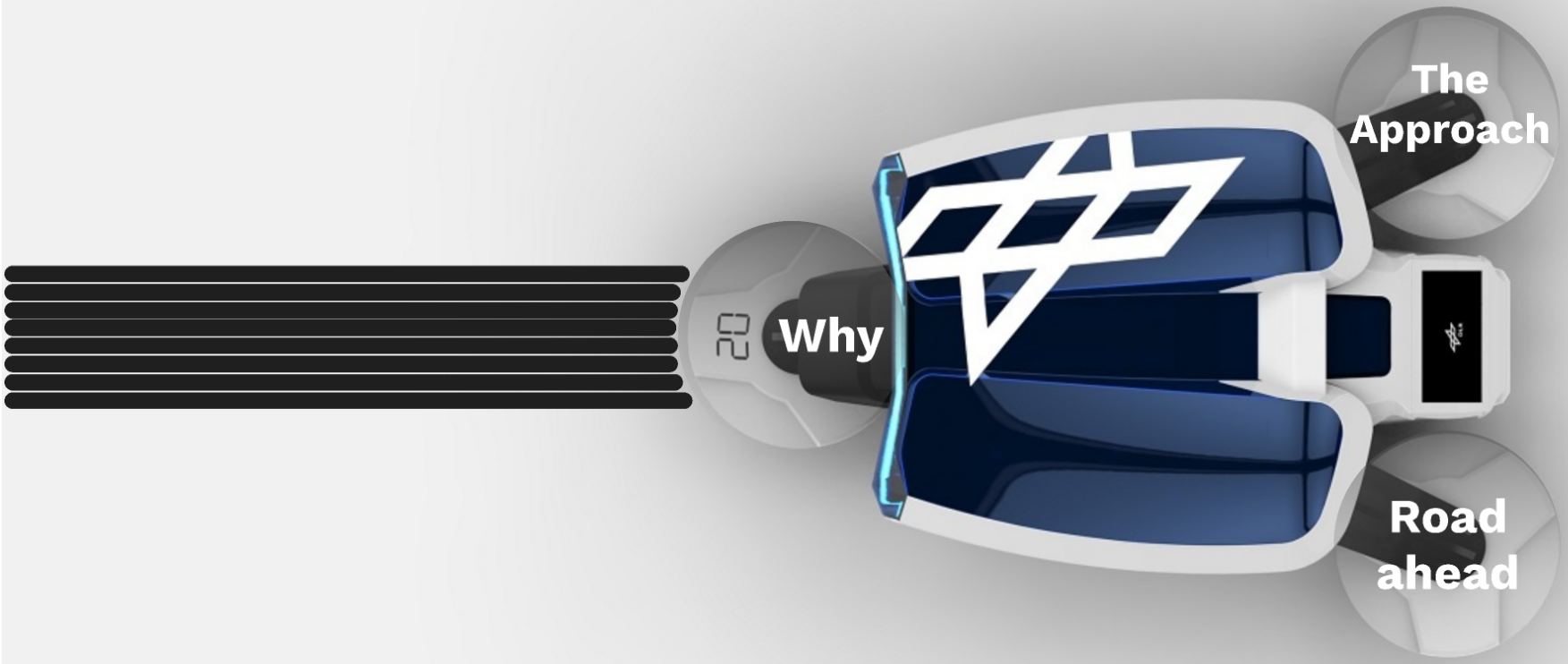

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AFP Crawlers

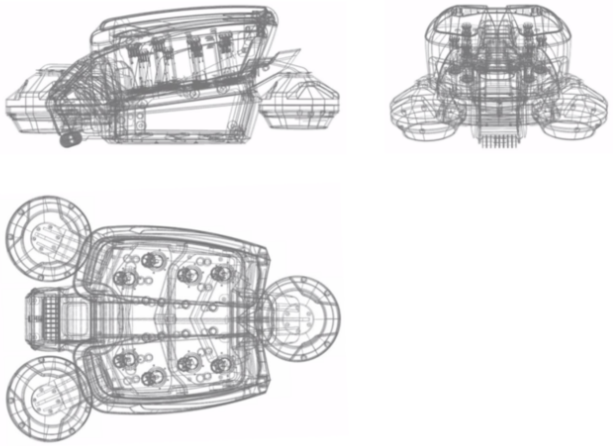
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THE BENEFITS

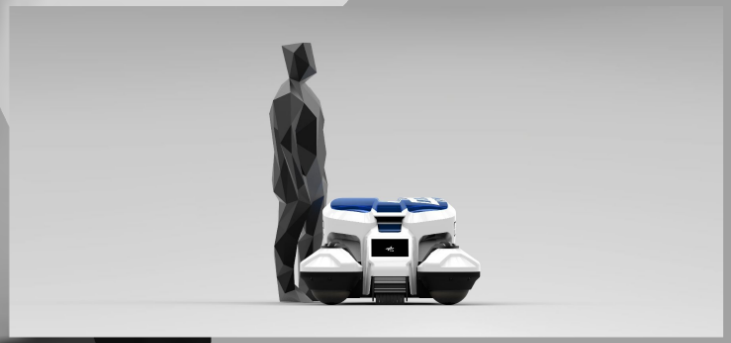
- NO LIMITING KINEMATICS
- ADAPTIVE PRODUCTION MANAGEMENT
- SWARM INTELLIGENCE
- FITS EXISTING PRODUCTION ENVIRONMENTS
- CUT THE OVERALL INVEST



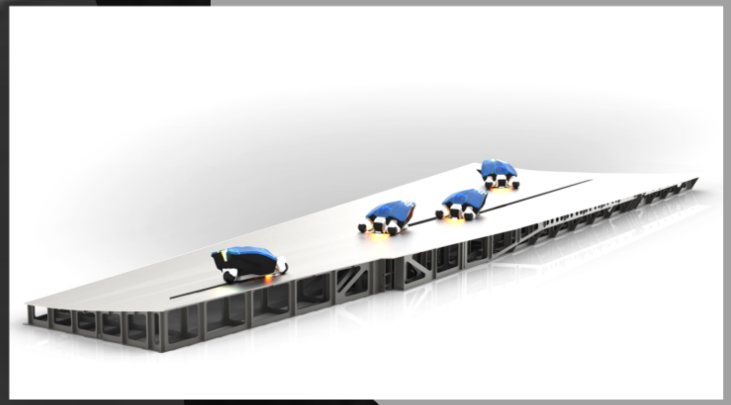
Key Elements

Potential

Key Elements





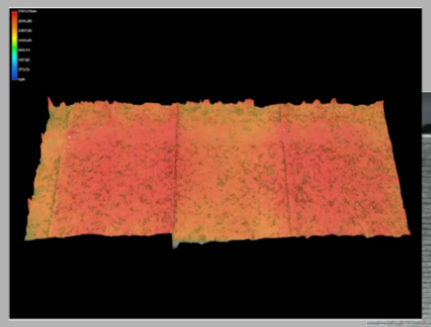




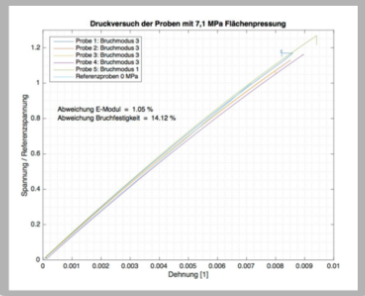

02
Deutsches Zentrum
für Luft- und Raumfahrt


Energy Supply
Impact
Drivetrain
02

Impact

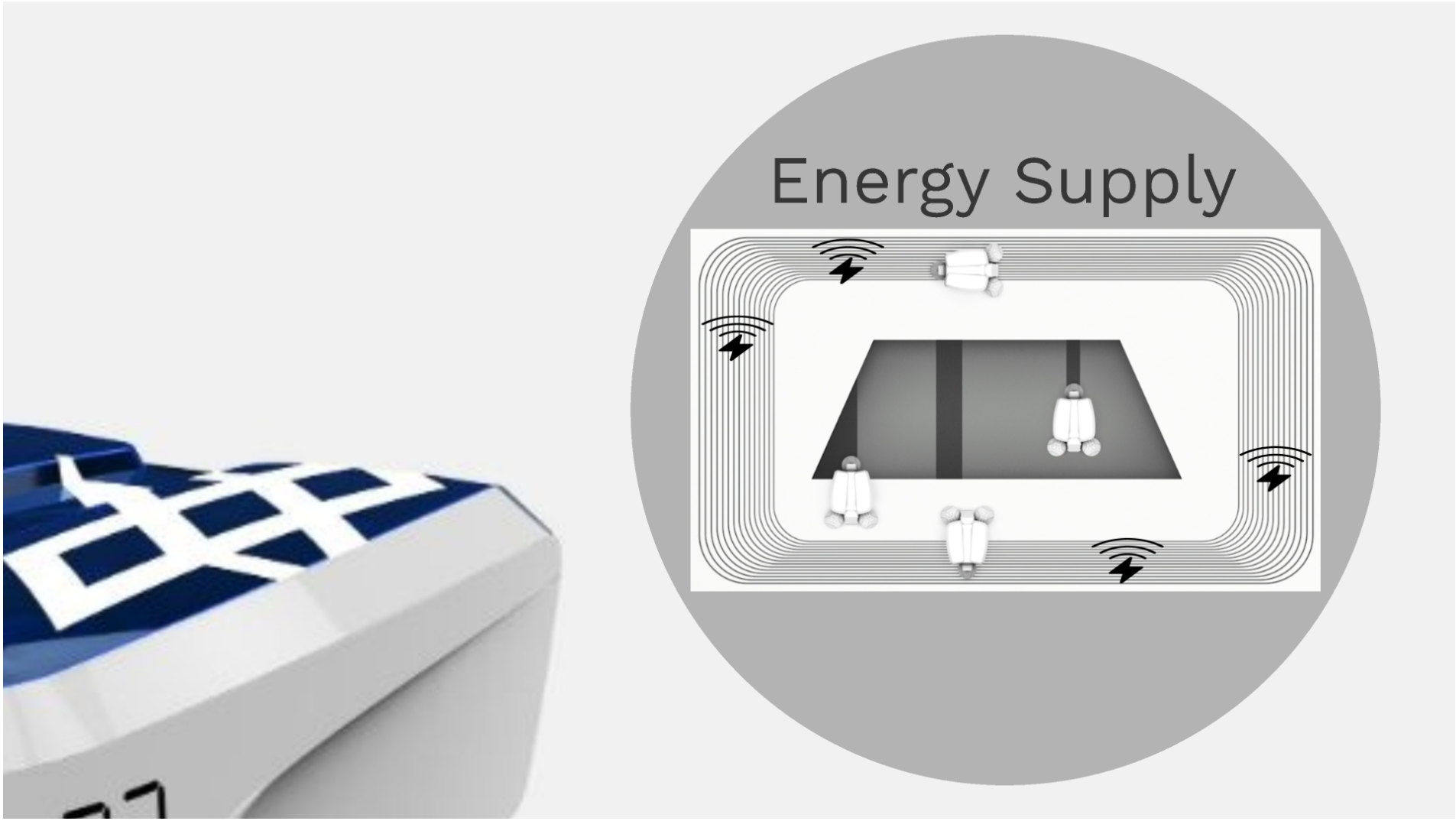



Kante der Rolle

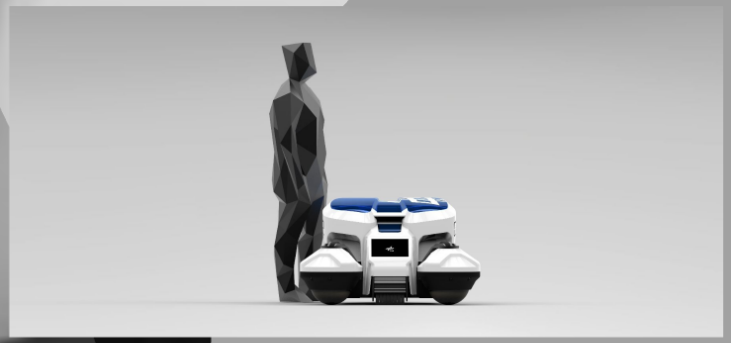

Druckversuch der Proben mit 7,1 MPa Flächenpressung
Probe 1: Bruchmodus 3
Probe 2: Bruchmodus 3
Probe 3: Bruchmodus 3
Probe 4: Bruchmodus 3
Probe 5: Bruchmodus 1
Referenzproben 0 MPa
Abweichung E-Modul = 1.05 %
Abweichung Bruchfestigkeit = 14.12 %
Spannung / Referenzspannung
Dehnung [1]



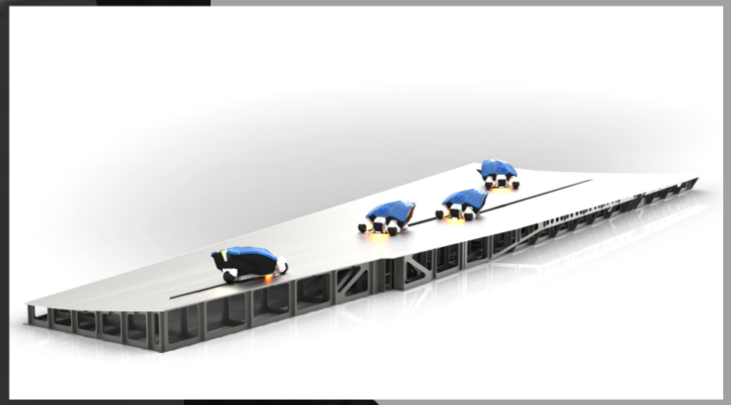

Drivetrain


Energy Supply

Key Elements



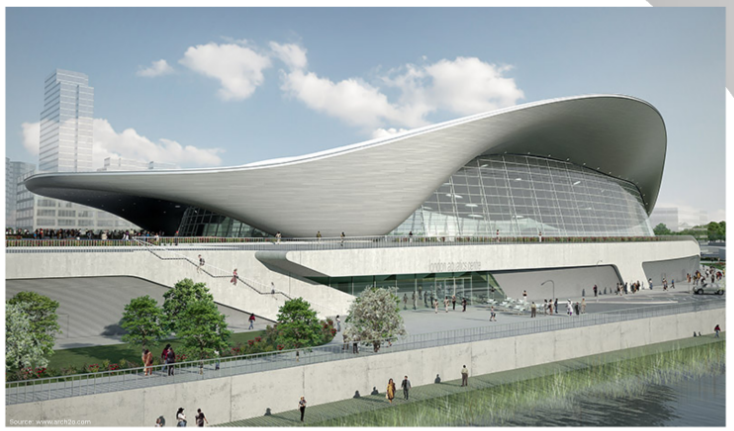






Potential



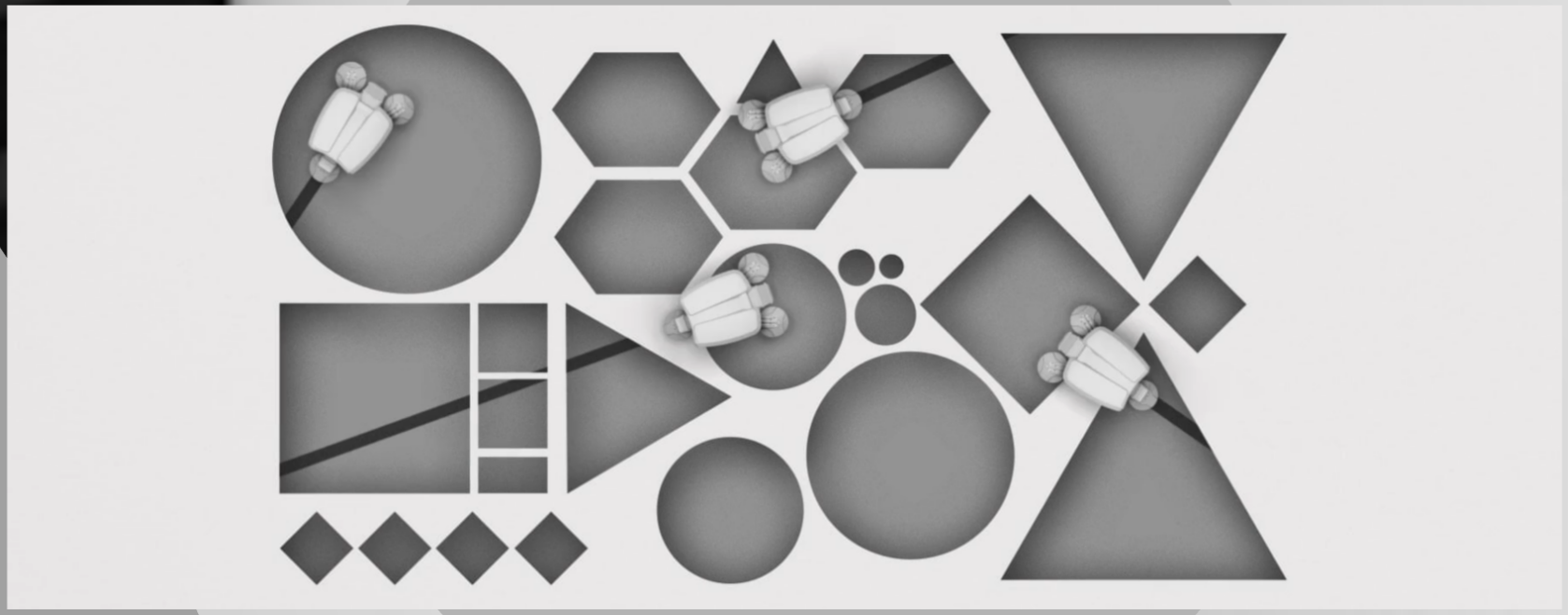


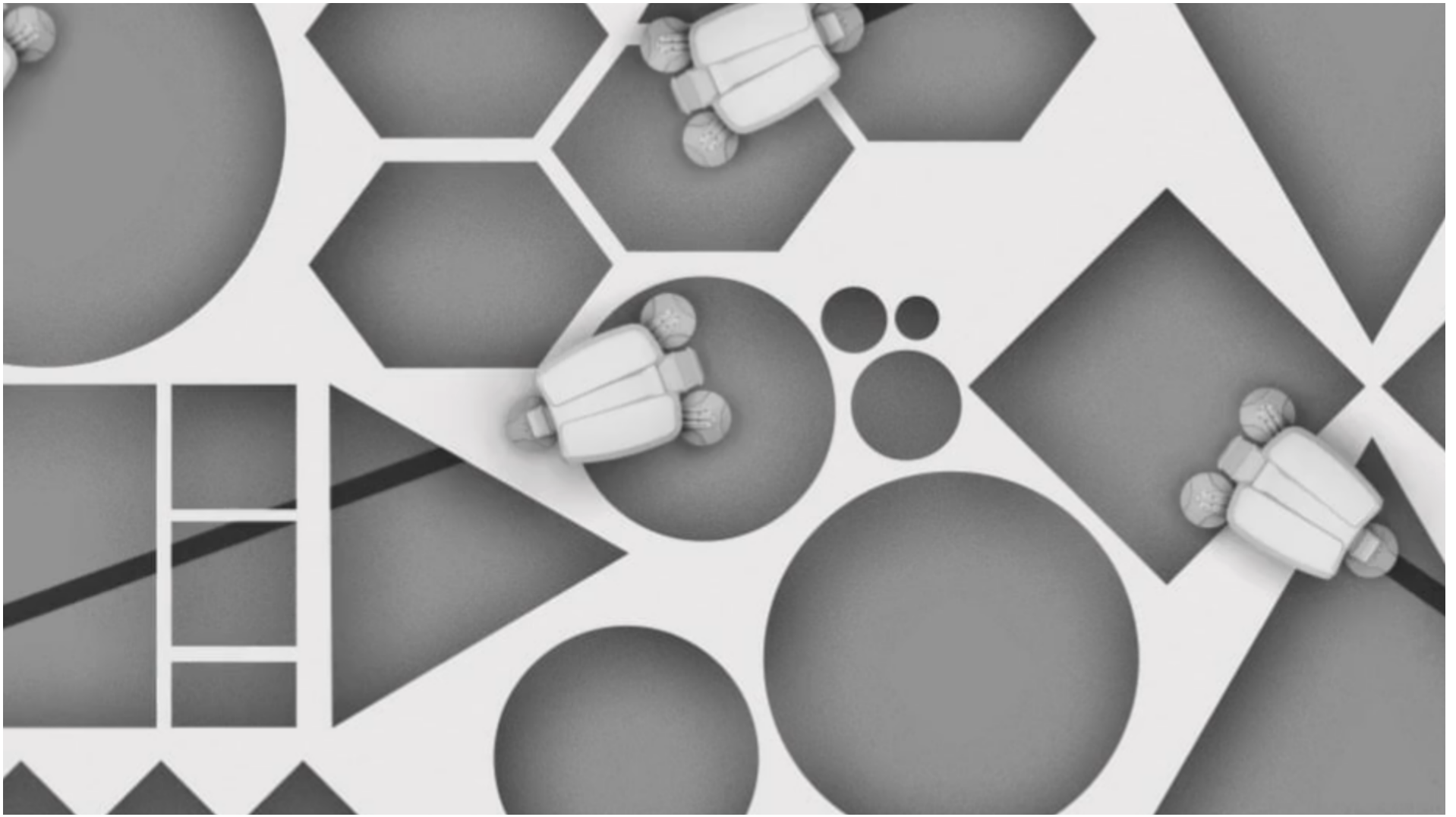




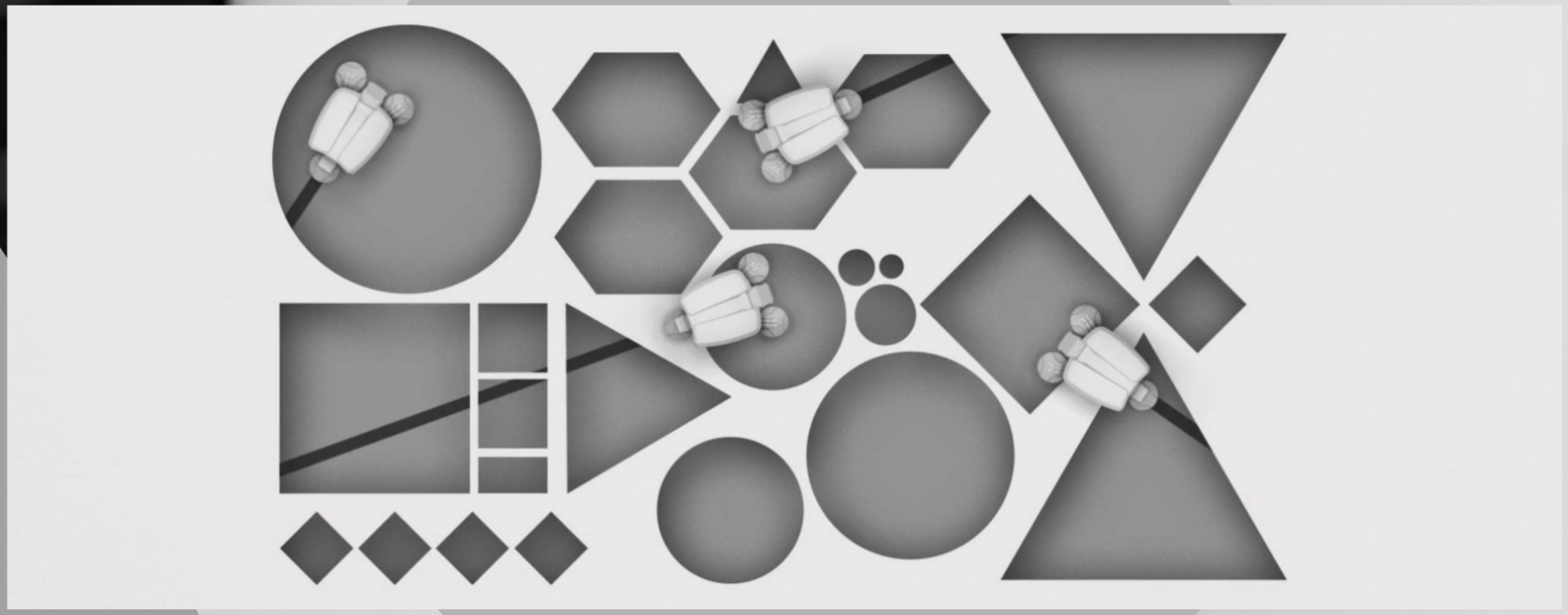
- Automotive
- Flow Lines
- Dispatching

Automotive





Automotive



Flow Lines

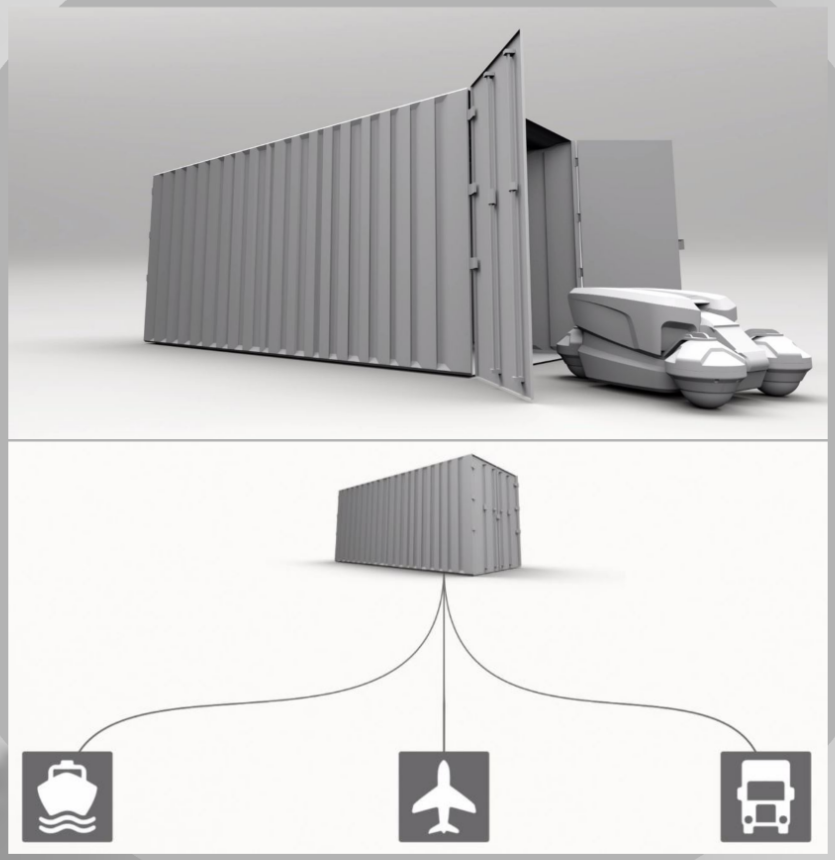



Q-10
Q-9

Flow Lines

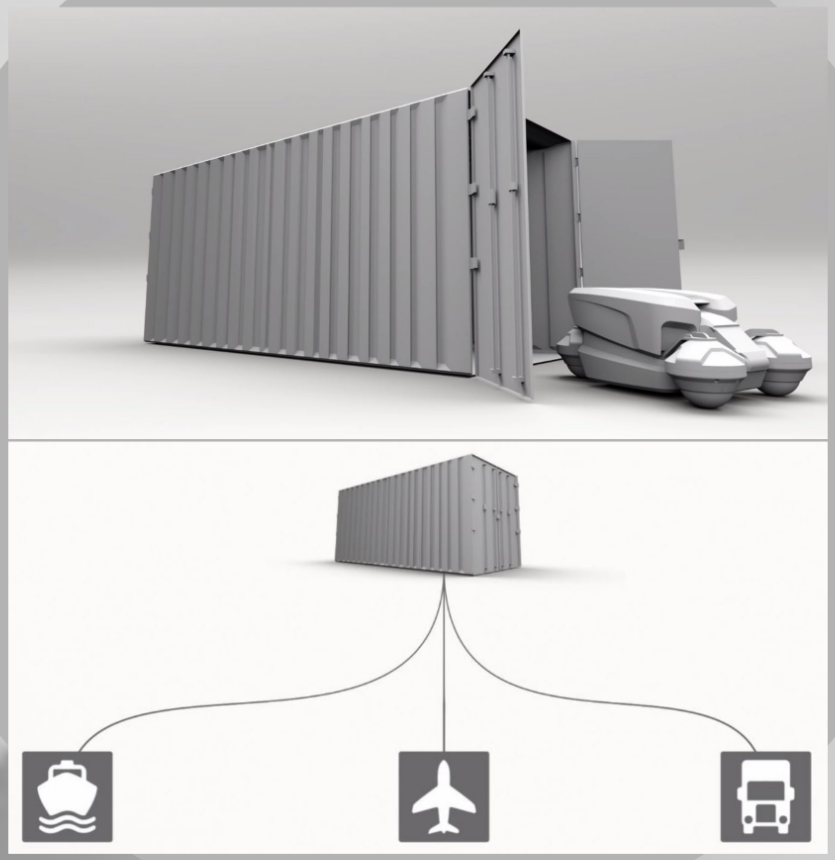


Dispatching



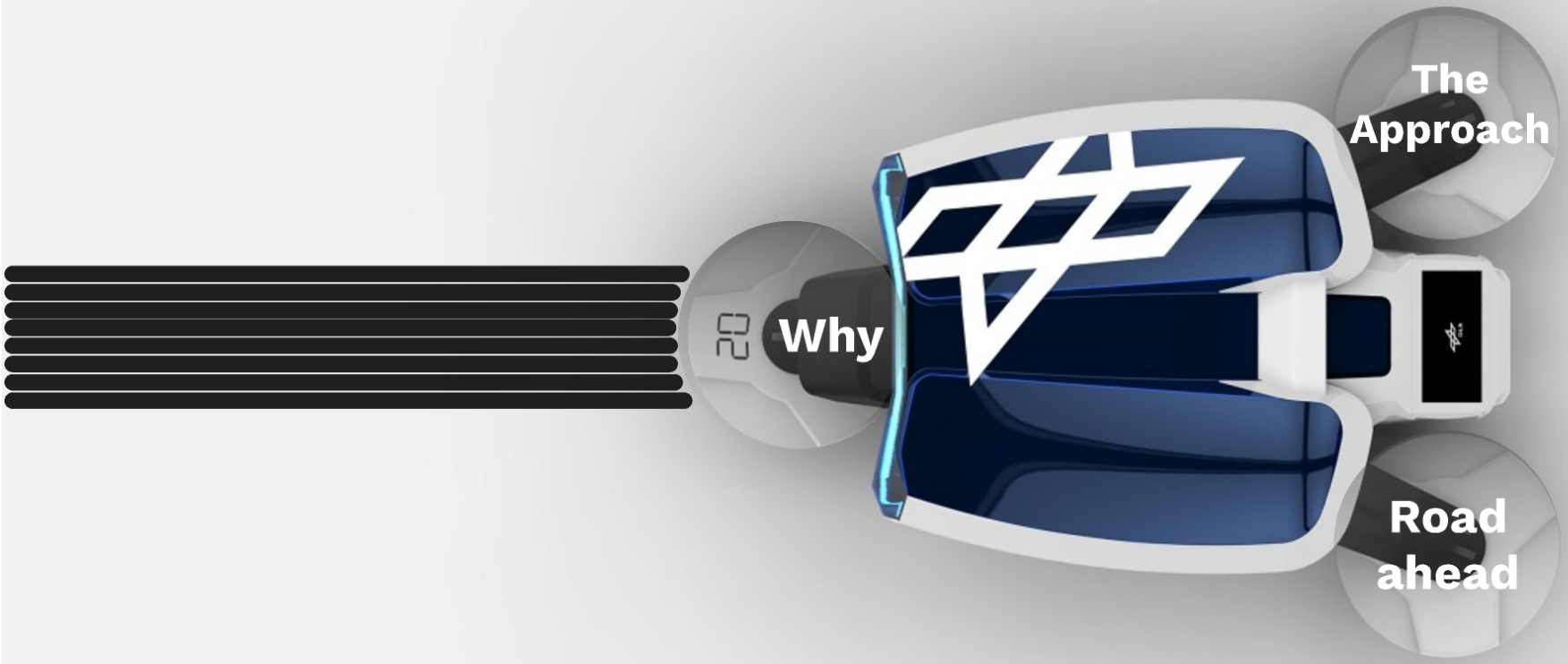


Dispatching

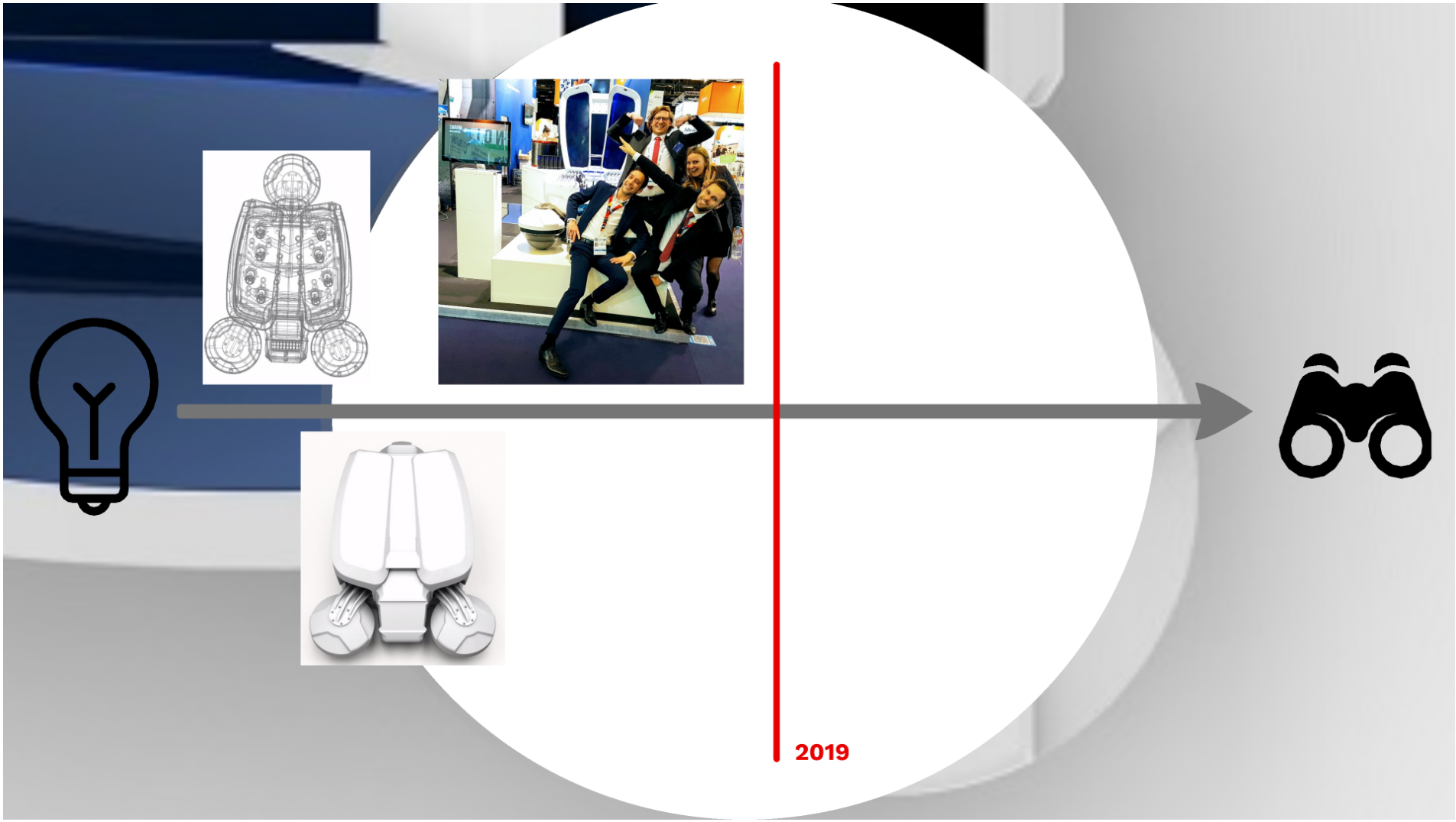


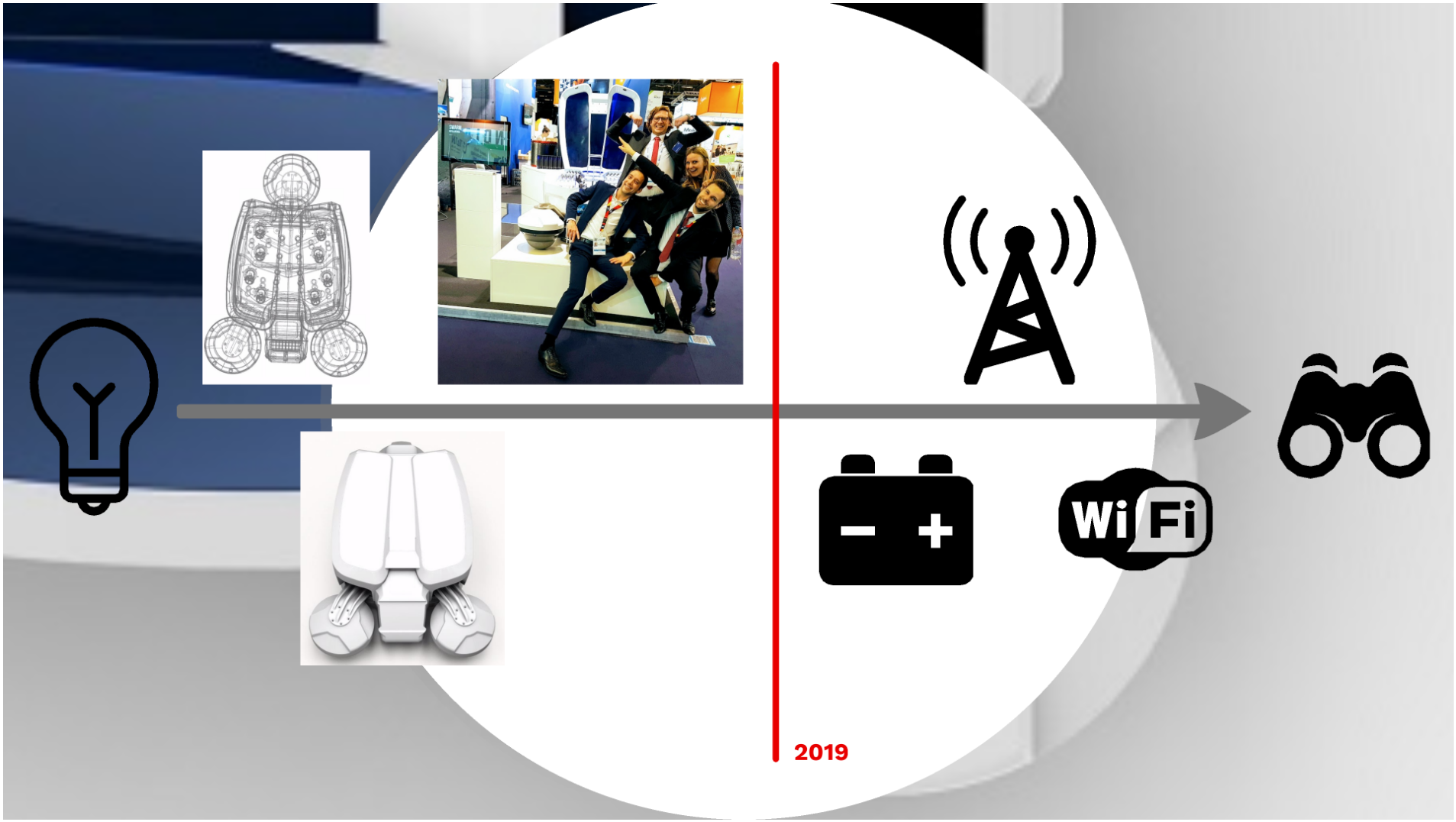
AFP Crawlers

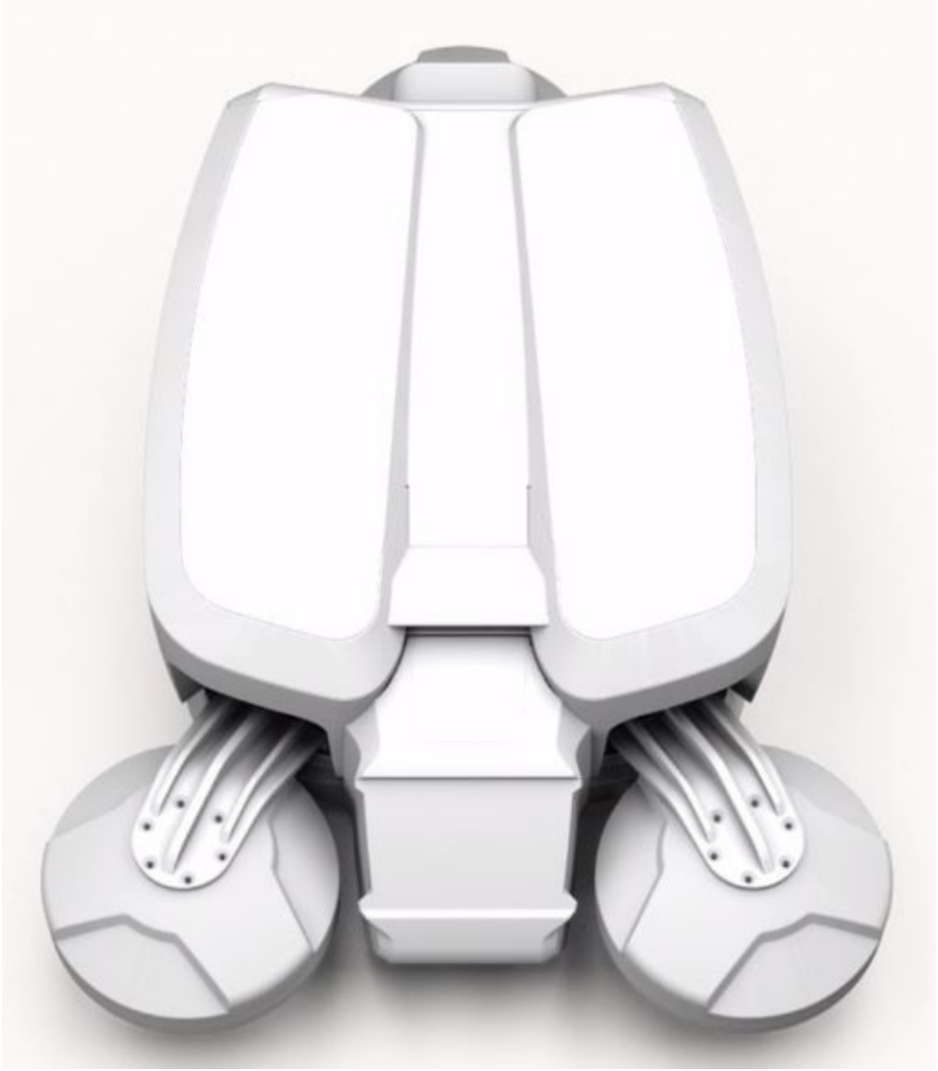
Automated Fiber Placement without limiting Kinematics



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2019


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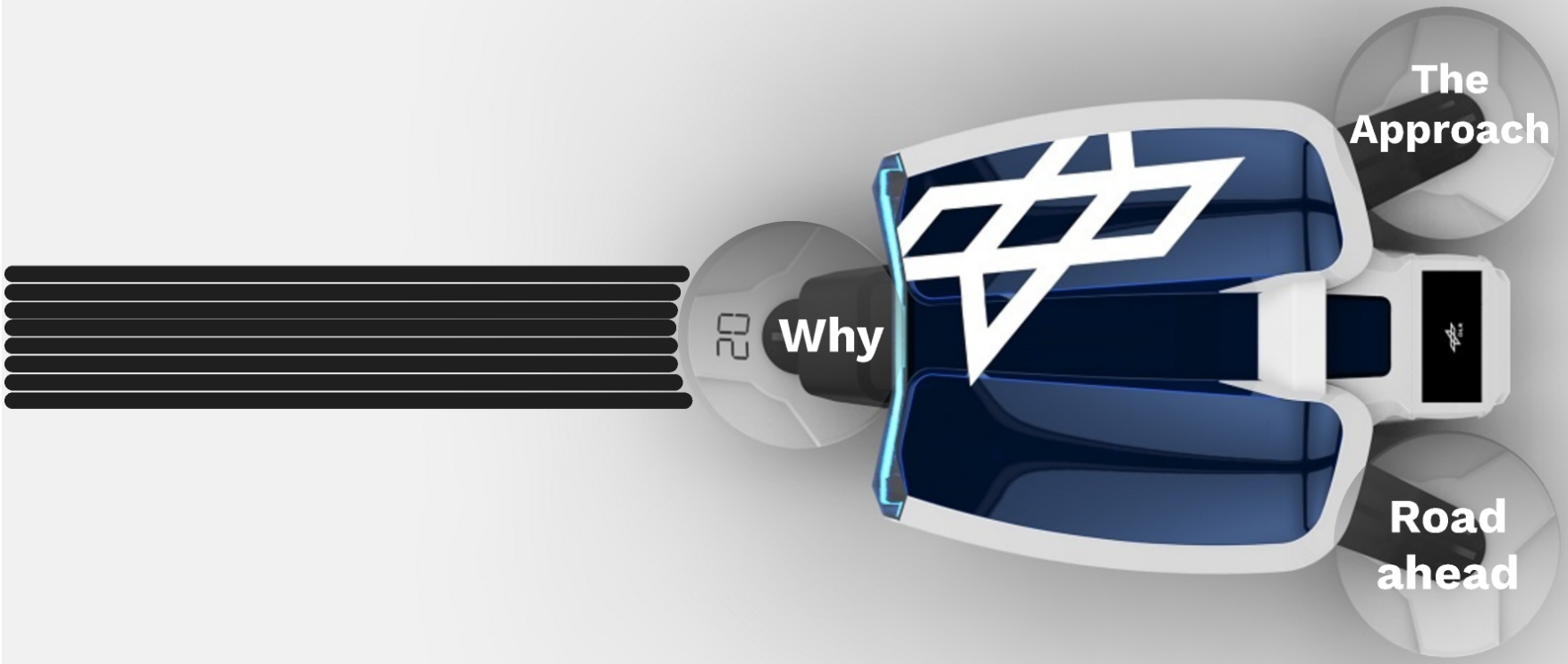
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AFP Crawlers

Automated Fiber Placement without limiting Kinematics



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