

Robotics, Automation, and Industry 4.0 in the The Age of Disruption

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September 18, 2017



What is Industry 4.0?



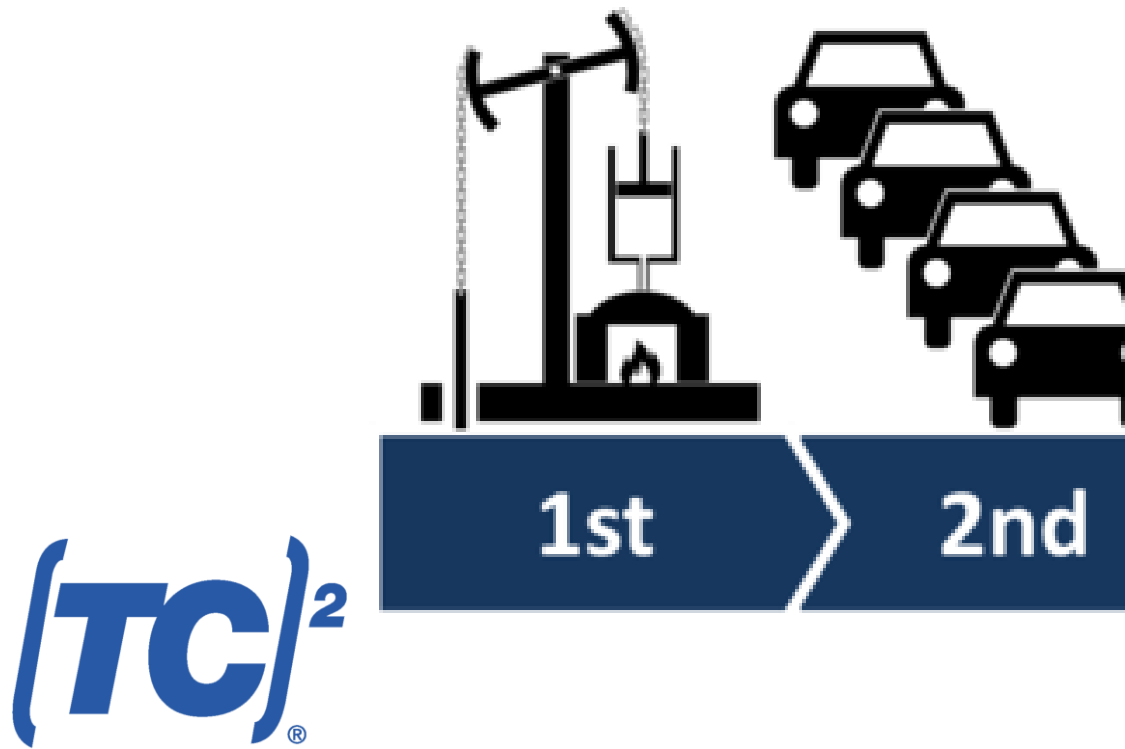
What was Industry 1.0?

Mechanization through:
Water & Steam Power



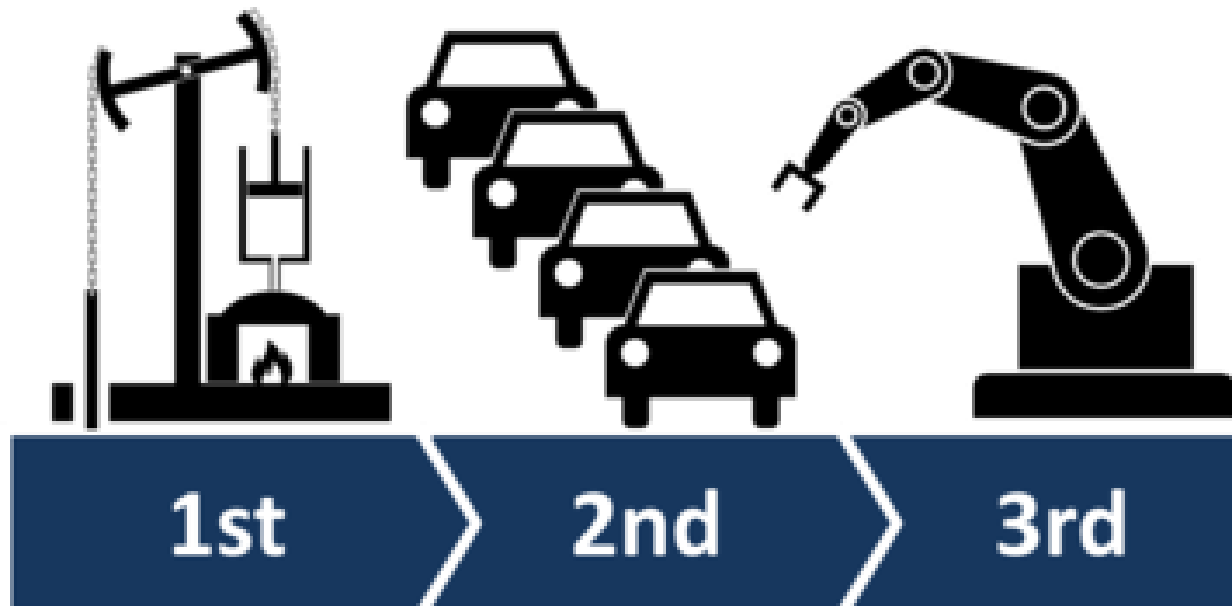
What was Industry 2.0?

Mass Production, Assembly Lines, Electricity



What was Industry 3.0?

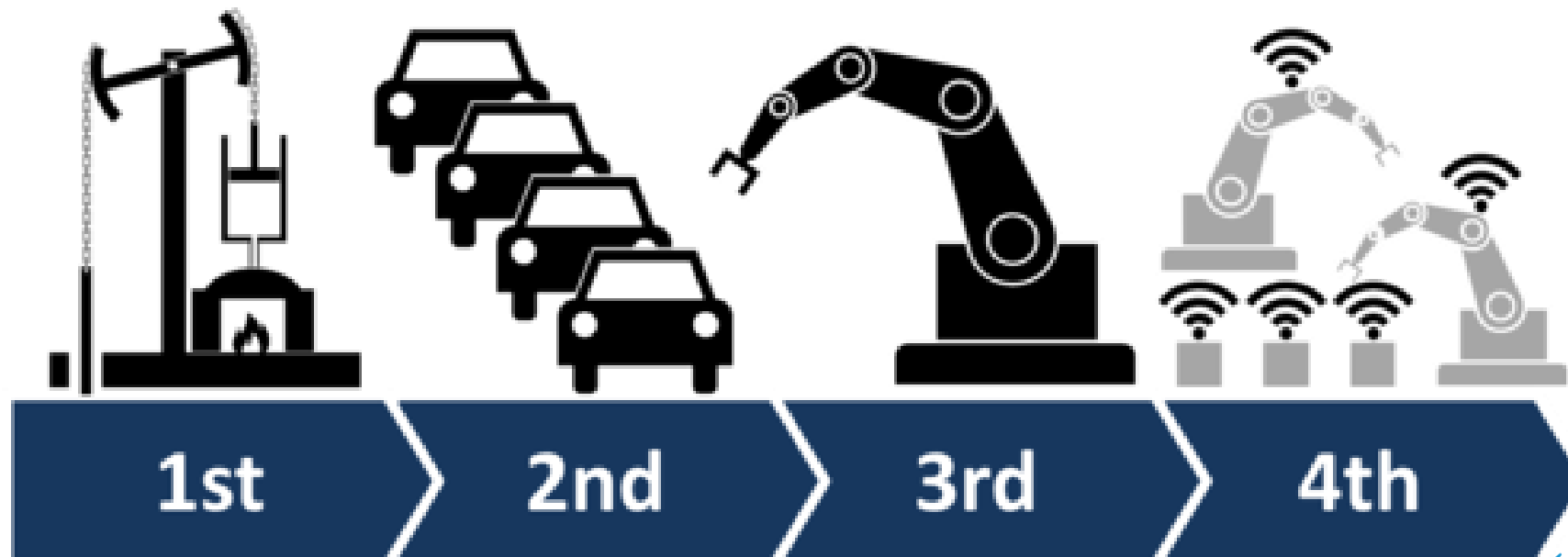
Computers and Automation



What is Industry 4.0?

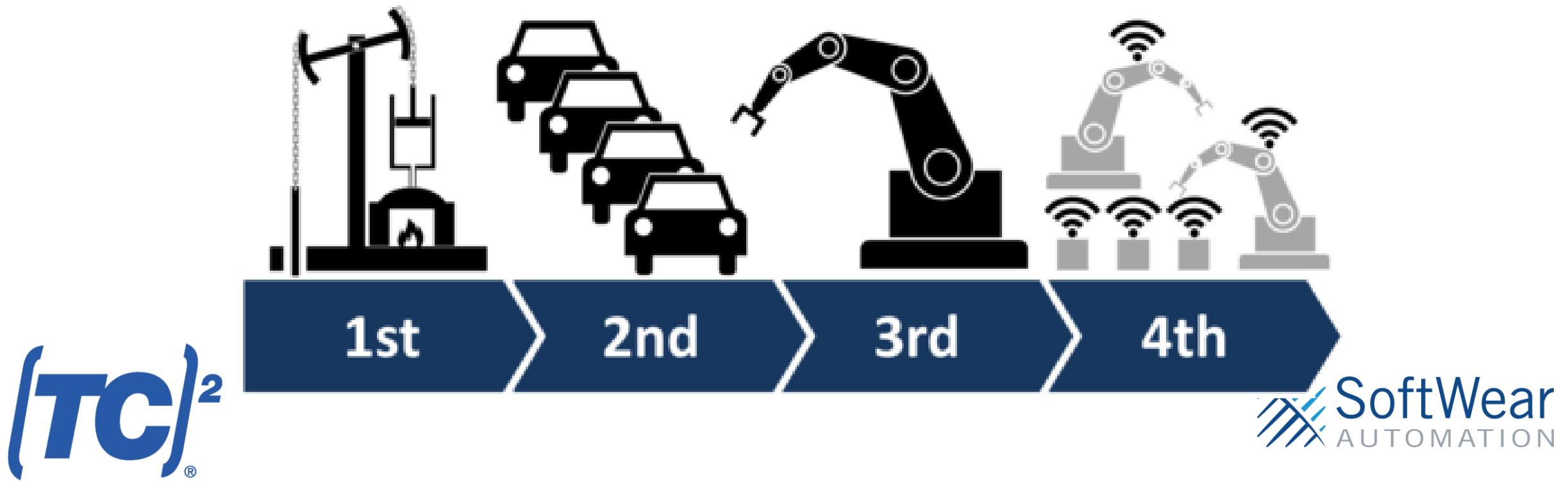
The Internet of Things

The Smart Factory



What is Industry 4.0?

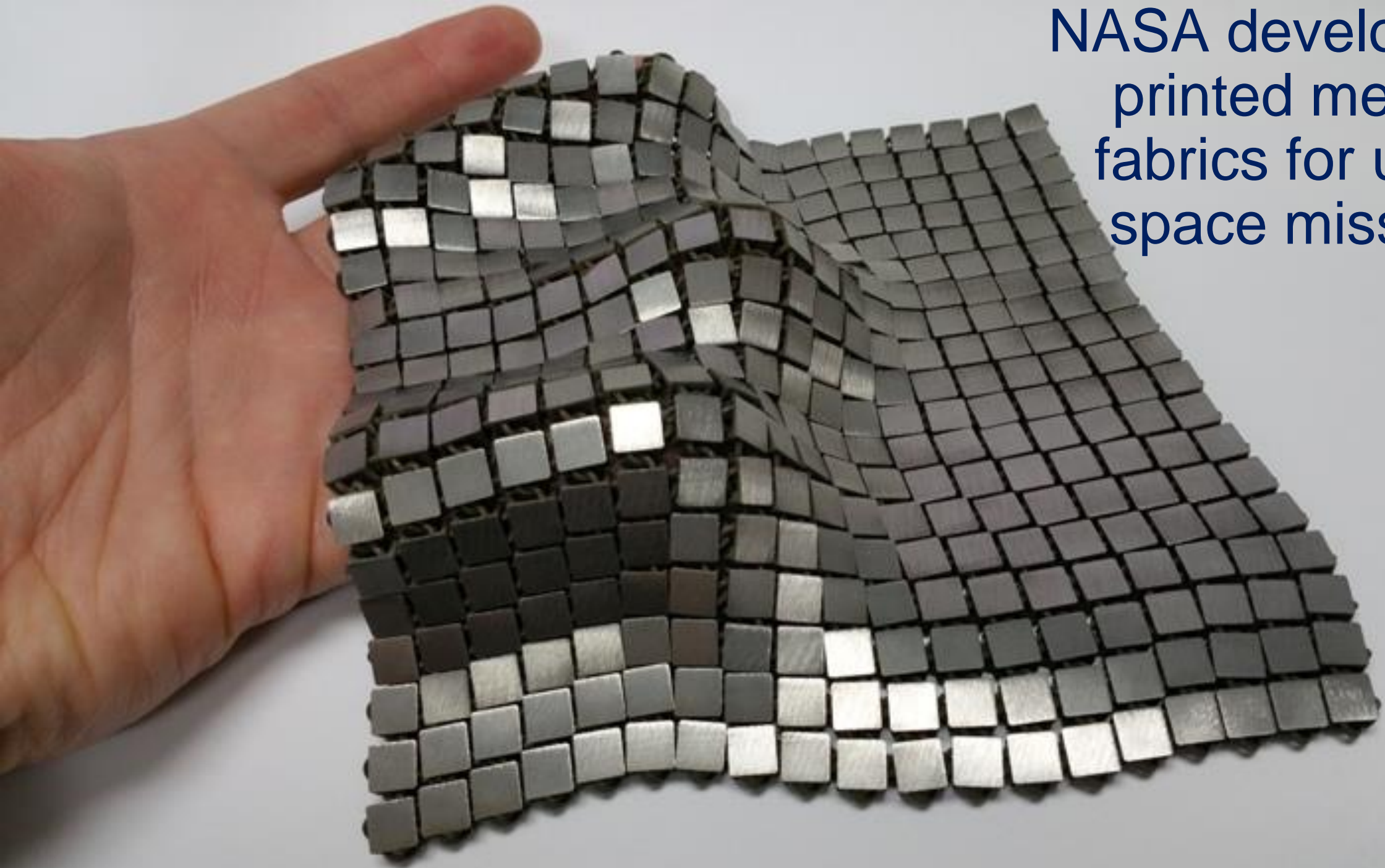
Machines Talking to Machines & People



What is Disruption?



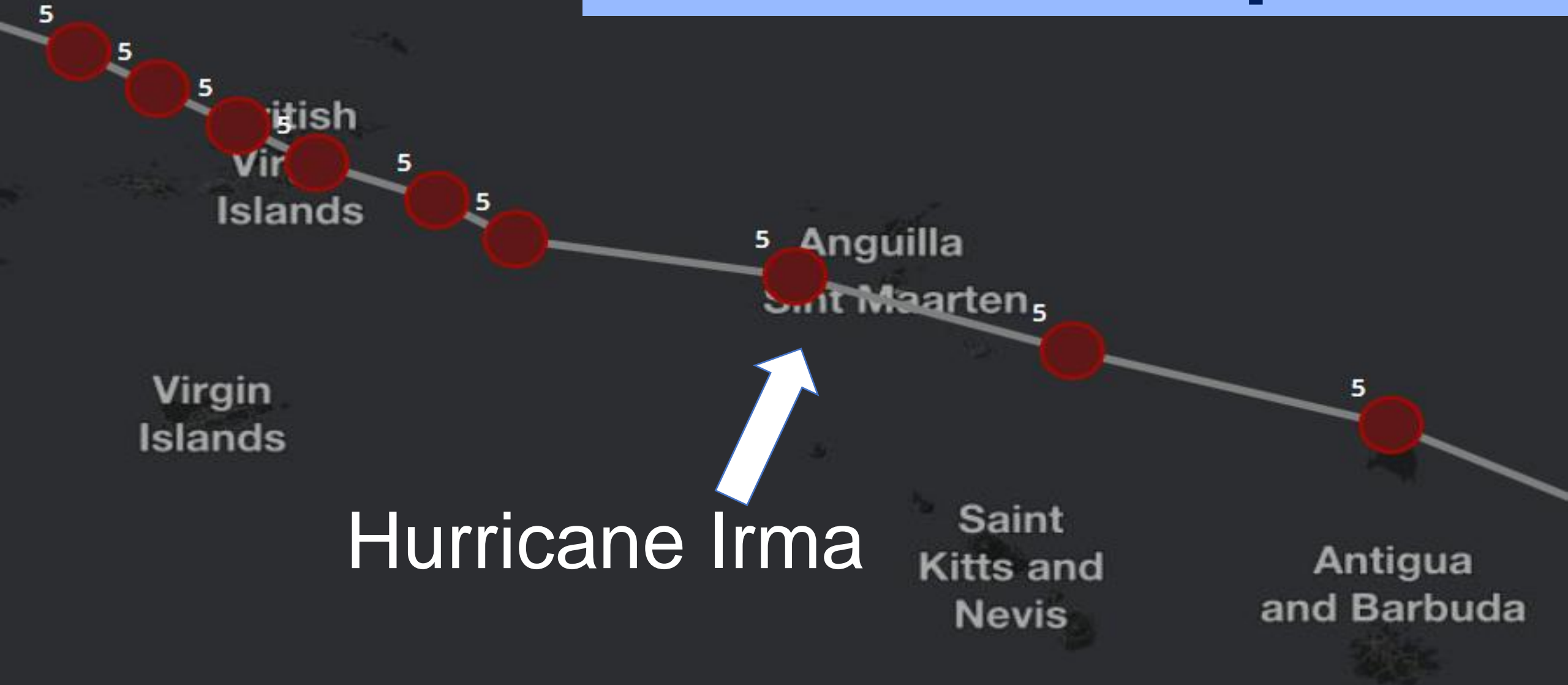
NASA develops 3D-
printed metallic
fabrics for use in
space missions



What is Disruption?



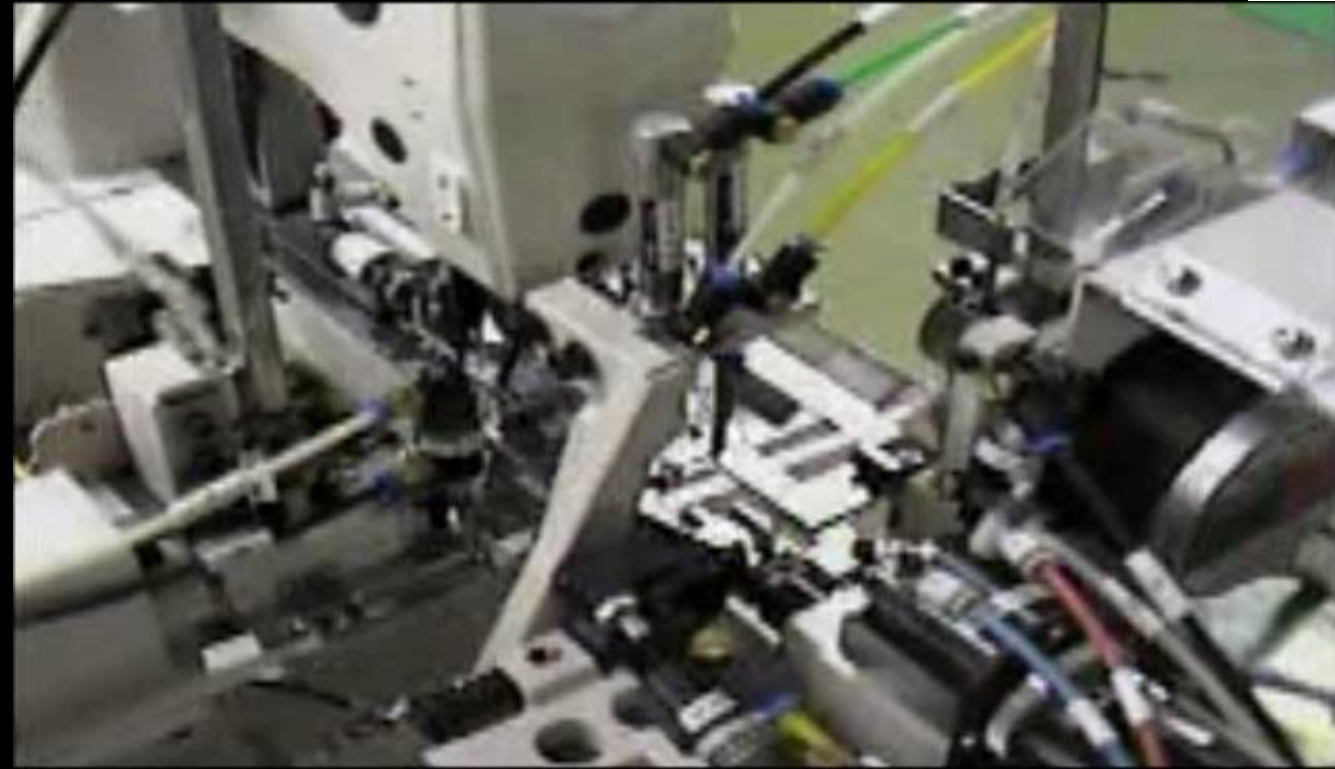
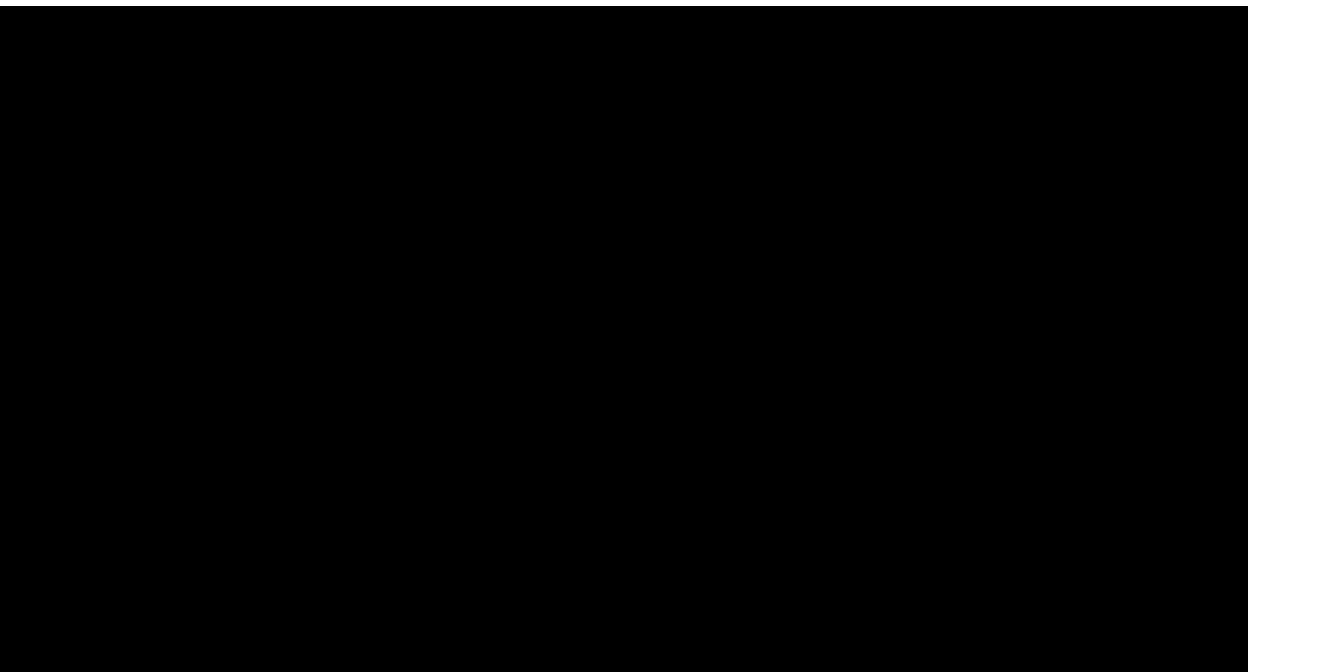
What is Disruption?



Driverless Cars??

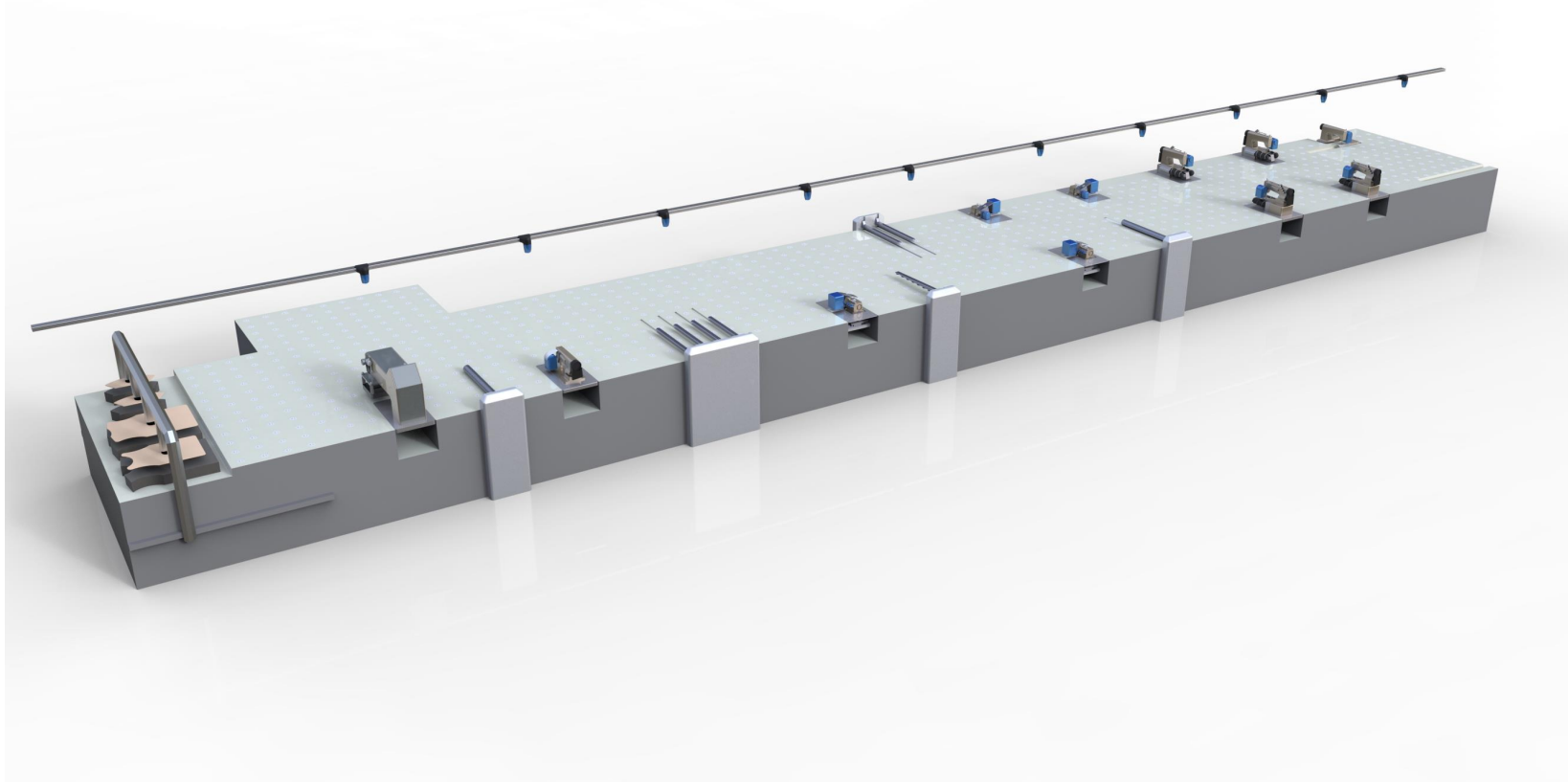






Workcell to Workline

Full Automation From Roll to Finished Good

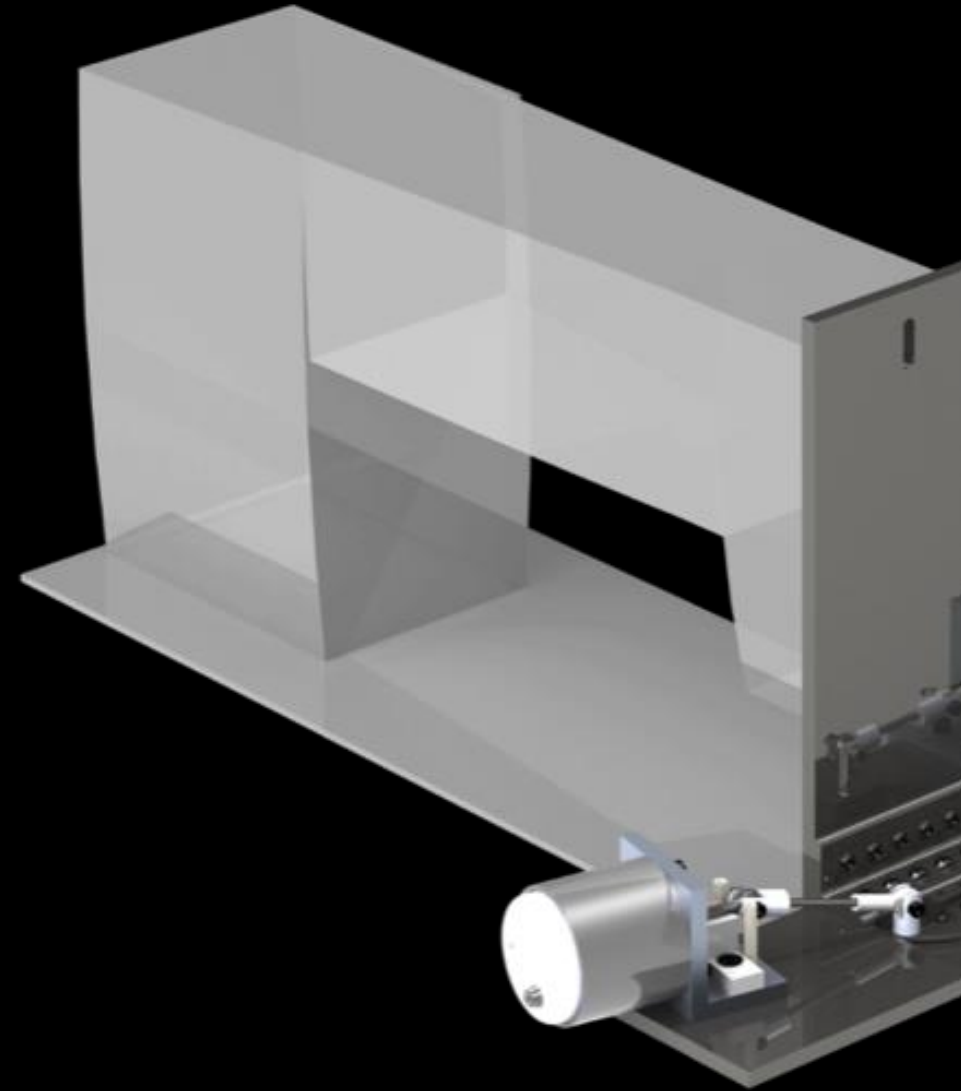


SEWBOTS™

SEWER-LESS

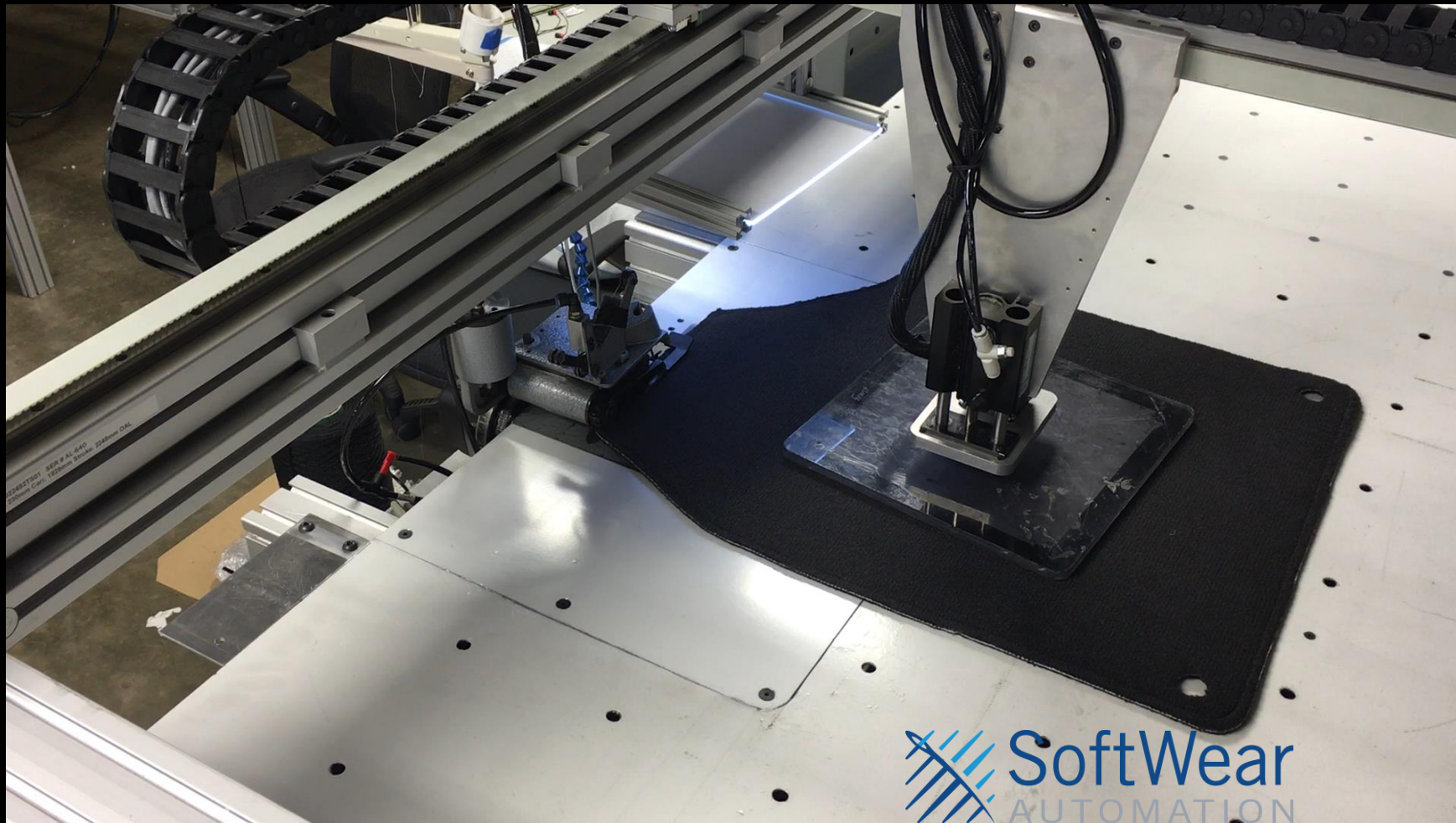
SEWHANDS

FABRIC CONTROL AT THE
NEEDLE



SEWARMS

FABRIC CONTROL AWAY FROM THE
NEEDLE





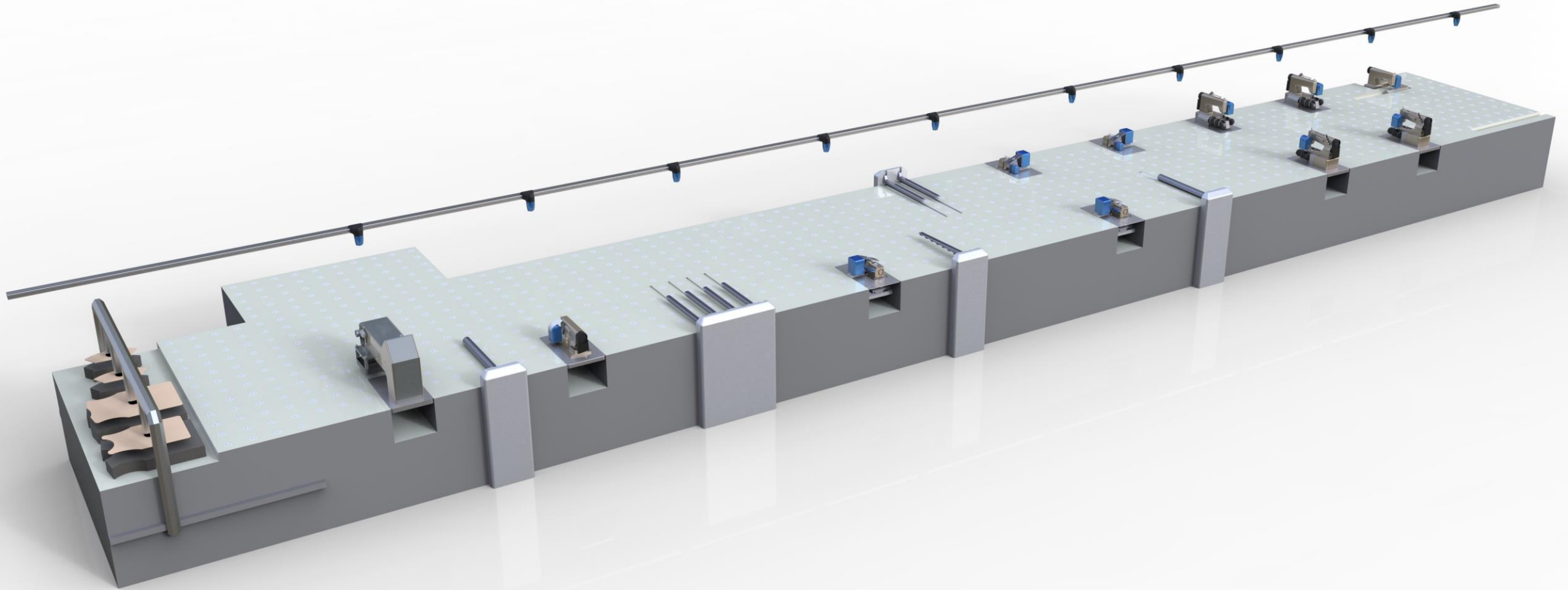




(TC)²[®]

 **SoftWear**
AUTOMATION

Full Automation From Roll to Finished Good



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