Technology Disrupts
The Manufacturing
Industry 4.0

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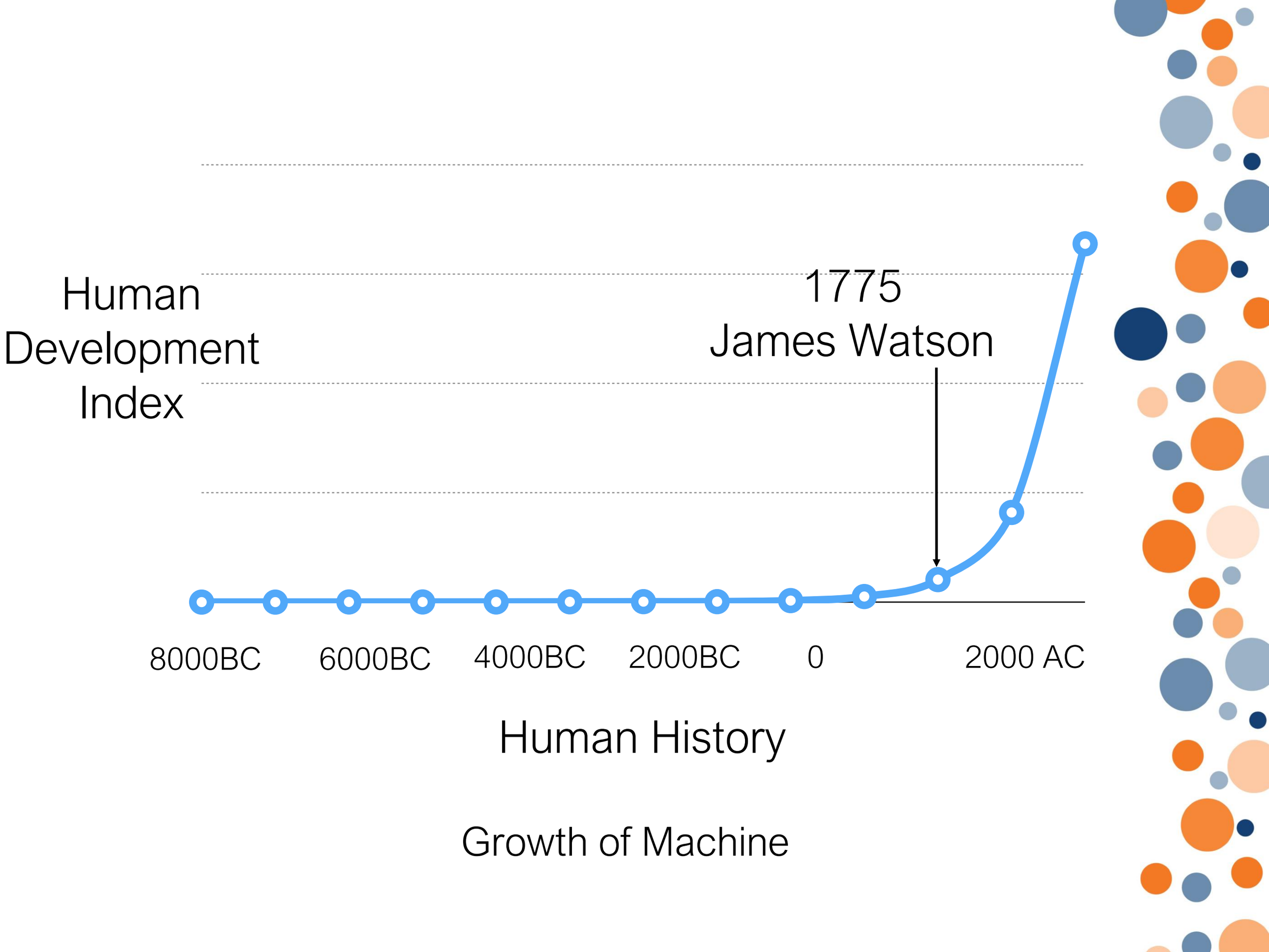
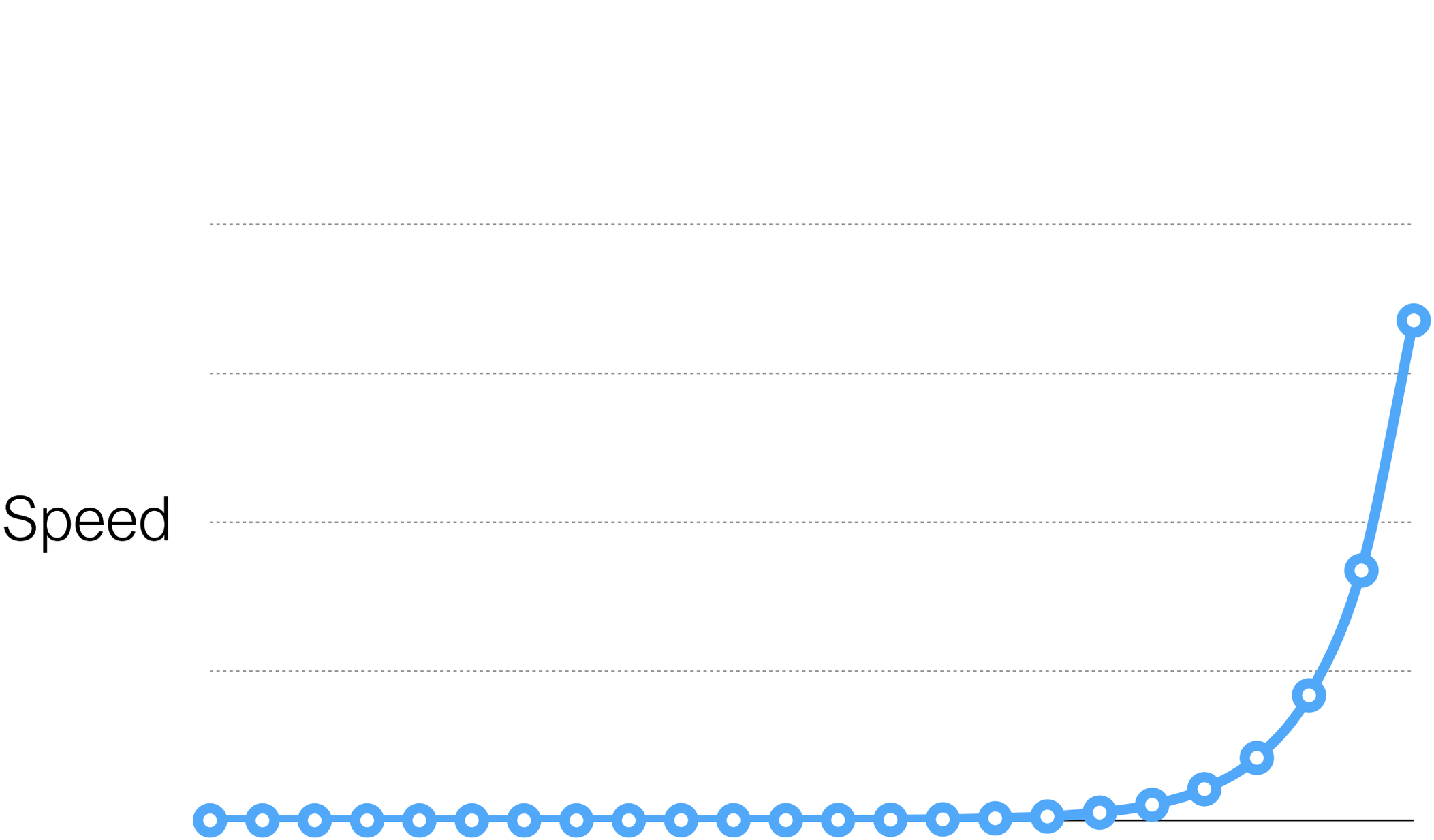
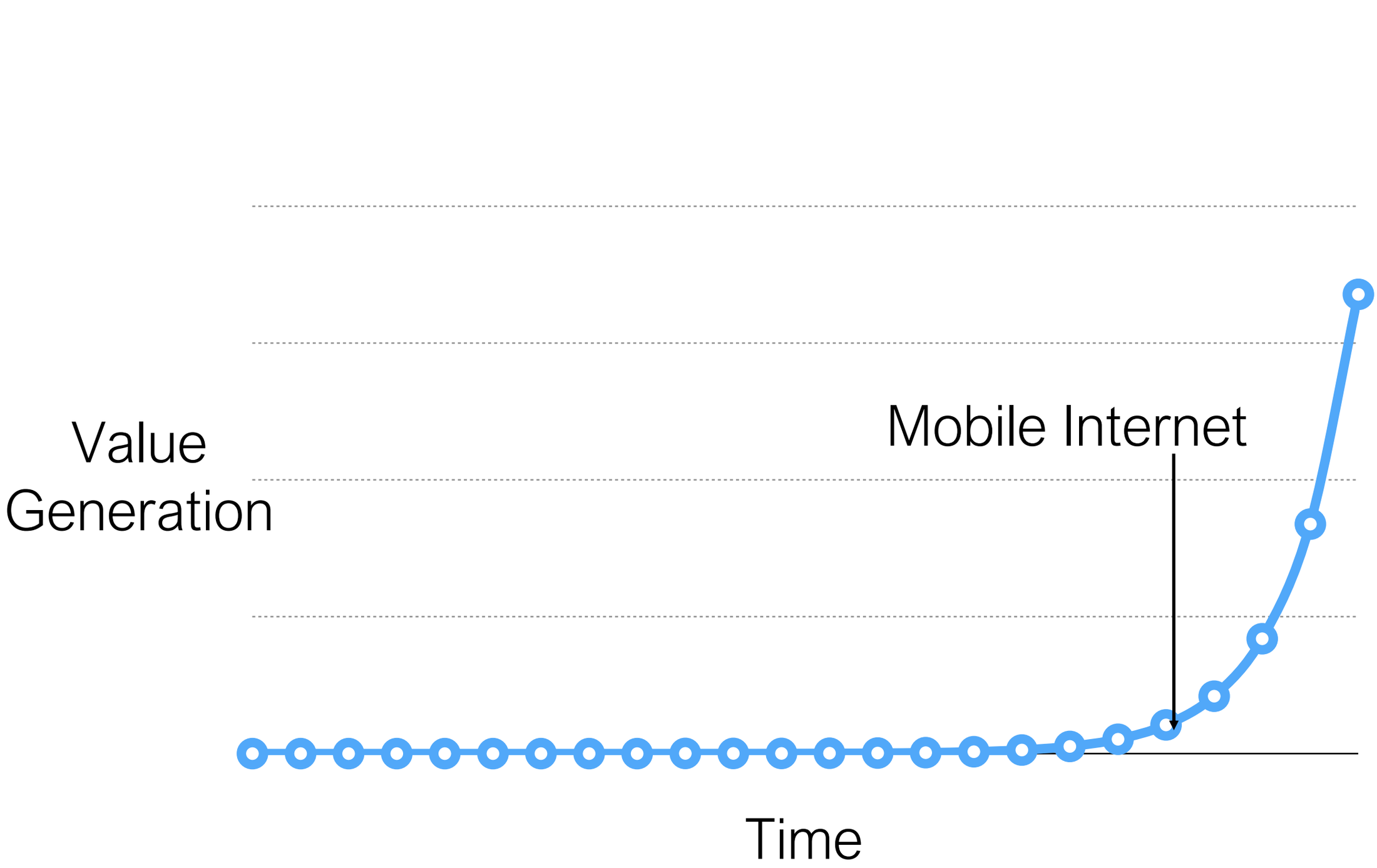


Growth of Machine



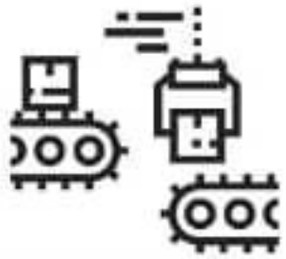
Growth of Computing Power



Growth Technology

INDUSTRY 1.0

Steam
Mechanization



INDUSTRY 2.0

Rail, Road
Telegram
Electricity
Assembly Line

INDUSTRY 3.0

Electronics
Computers
Robots

INDUSTRY 4.0

IoT
AI
3D Printing
Drone

1760 - 1820

1870 - 1914

1960 - 2000

2011 -

Disruptive Technologies

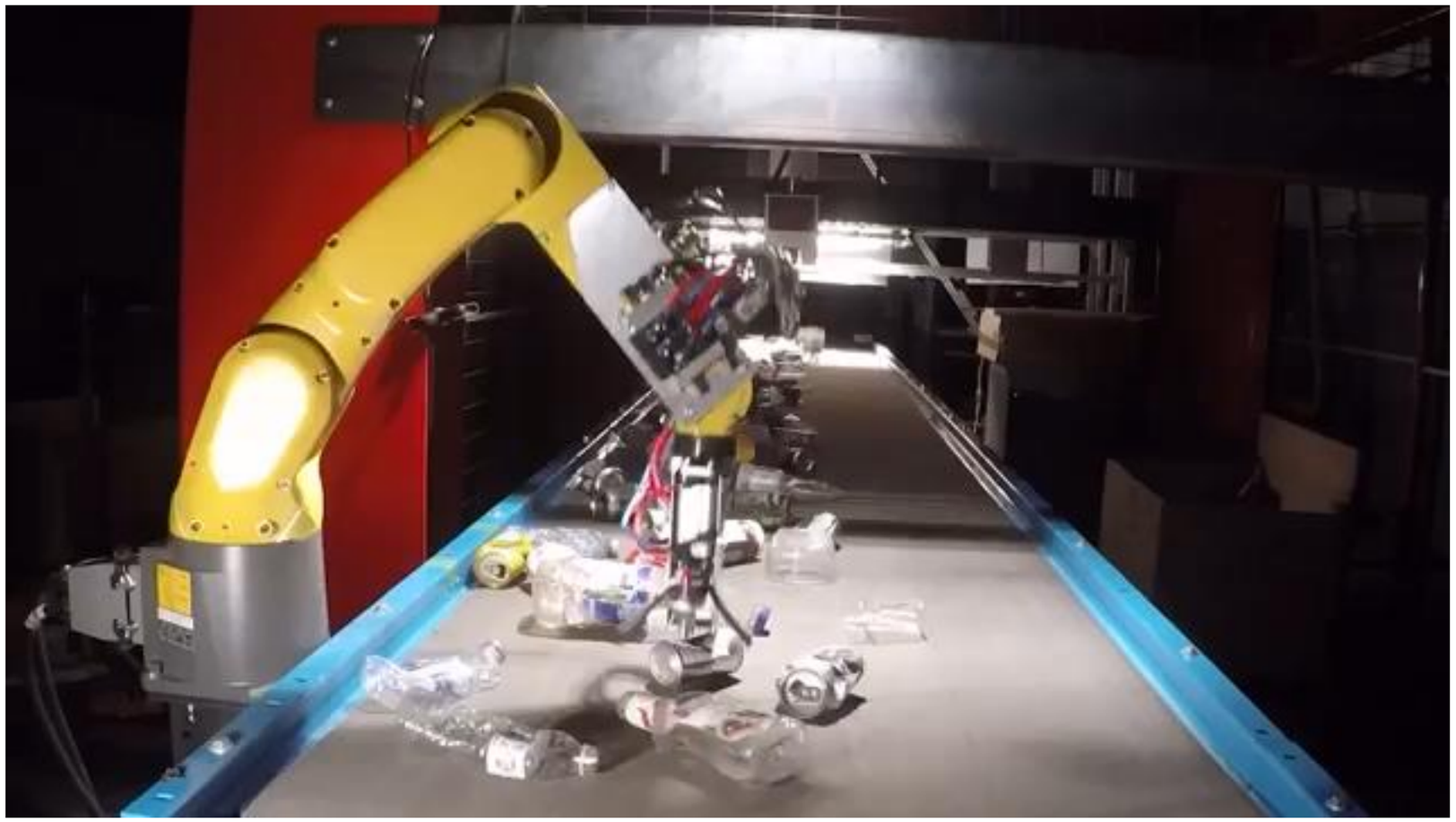
- Autonomous Robots / Artificial Intelligence
- Internet of Things (IoT, IIoT)
- Augmented Reality and Simulation
- 3D Printing
- Drones

Artificial Intelligence

- From Monotonous to Autonomous
- By 2025 Robots will start doing 25% of non-repetitive tasks

Artificial Intelligence

Artificial Intelligence



3D Printing

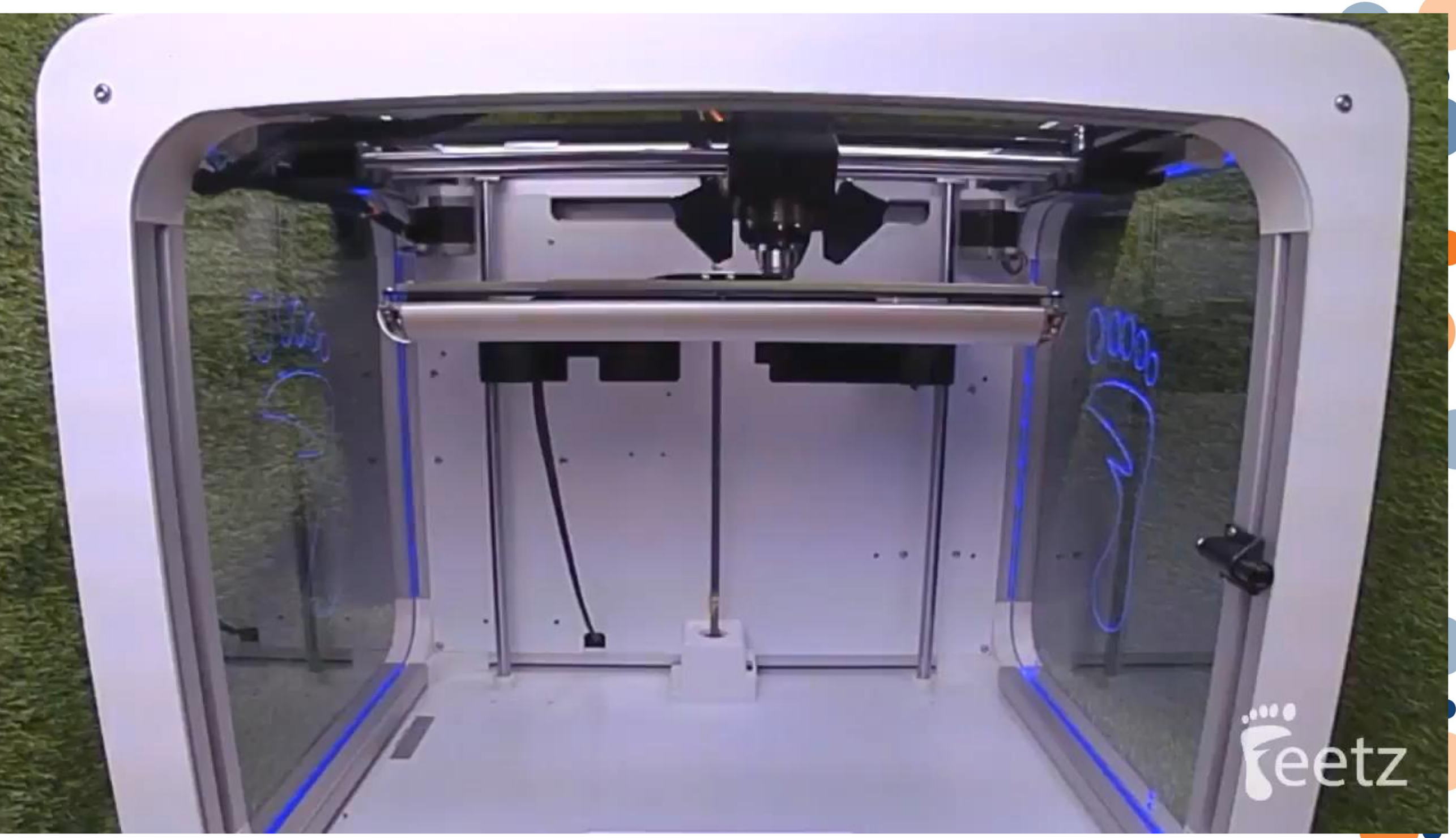
- Very good with Plastic. Metal is coming up.
- Manufacturing related to plastic and metal comprises 25% of total manufacturing
- Fuel Nozzle is the most complicated part of an air craft. Made of 20 different components. Now 3D printed.

3D Printing

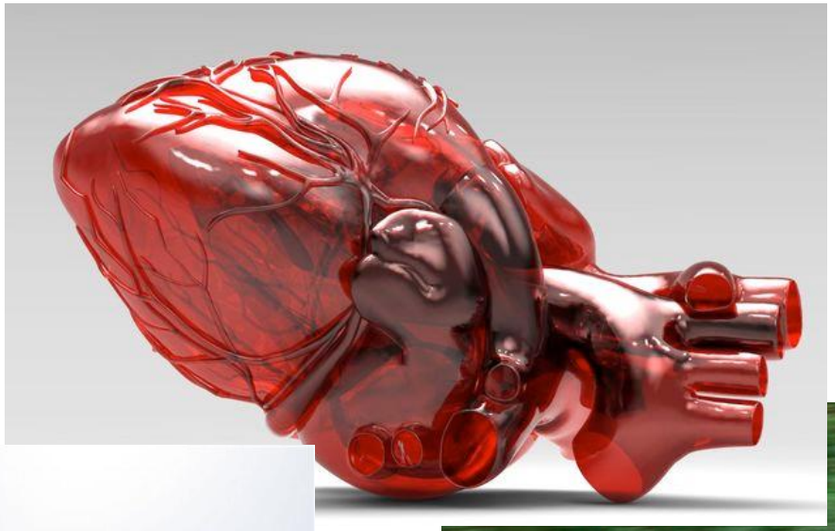
Feetz

Feetz : 3D Printing

- Deployed 100 3D Printers worth 3.3 Lakh Rs each
- Customers can come to their web site or mobile app
- Customize a Shoe and order
- Will be “Printed” in 12 hours
- Average cost of a Pair : 12000 Rs
- Significantly high profit margin


feetz

3D Printing



3D Printing

https://mpc-demo.milople.com/store/product/1/2

https://mpc-demo.milople.com/store/product/1/1

The drivers of I4

- Mobile Internet
- Cheap labor does not remain cheap forever
- Environmental challenges

Impact of Industry 4.0

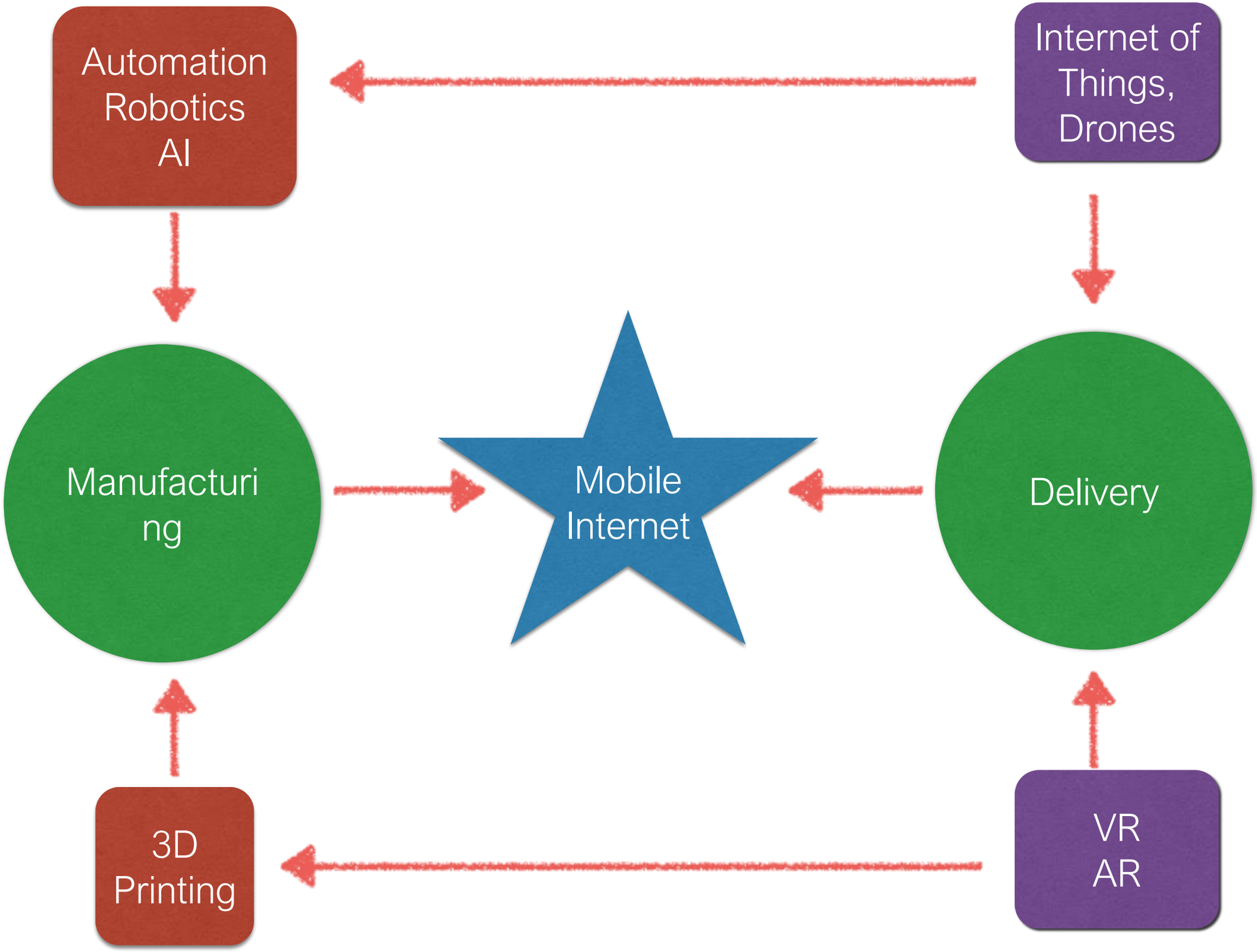
- On Demand
- Factory location
- Environment
- Mass Customization
- No light
- Direct to consumer
- No Transportation
- No Storage
- Job opportunities

Change your business model

Adapt to the impact

- On Demand
- Factory location
- Environment
- Mass Customization
- No light
- Direct to consumer
- No Transportation
- No Storage
- Job opportunities

Automation


Automation
Robotics
AI
Internet of
Things,
Drones
Manufacturi
ng
Mobile
Internet
Delivery
3D
Printing
VR
AR

THANK YOU !!!

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