

Innovative Automation (The Hong Kong Way)

香港创新自动化之路



Dr. Jack Yeung

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香港工业总会－副主席

香港模具协会－主席

香港初创企业协会－主席

Digital Revolution



INDUSTRIAL REVOLUTION TIMELINE

First

Water and steam power is used to create mechanical production facilities.



1800

1784: First mechanical loom

Second

Electricity lets us create a division of labor and mass production.



1900

1870: First assembly line

Third

IT systems automate production lines further.



2000

1969: First programmable logic controller

Fourth

IoT and cloud technology automate complex tasks.



Today



Mr. David Rose

Forbes

“New York Archangel”

BusinessWeek

“World Conquering Entrepreneur”

Crain’s New York Business

“Father of Angel Investing in NY”

Best Selling Author

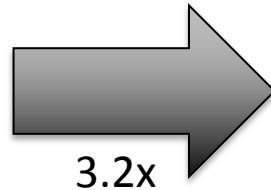
“Angel Investing”

Any Company Designed
for the Success in the
20th Century is doomed
to failure in the 21st
Century

Fast Growth of Robots Demand



806,000 industrial robots
in 2014



3.2x

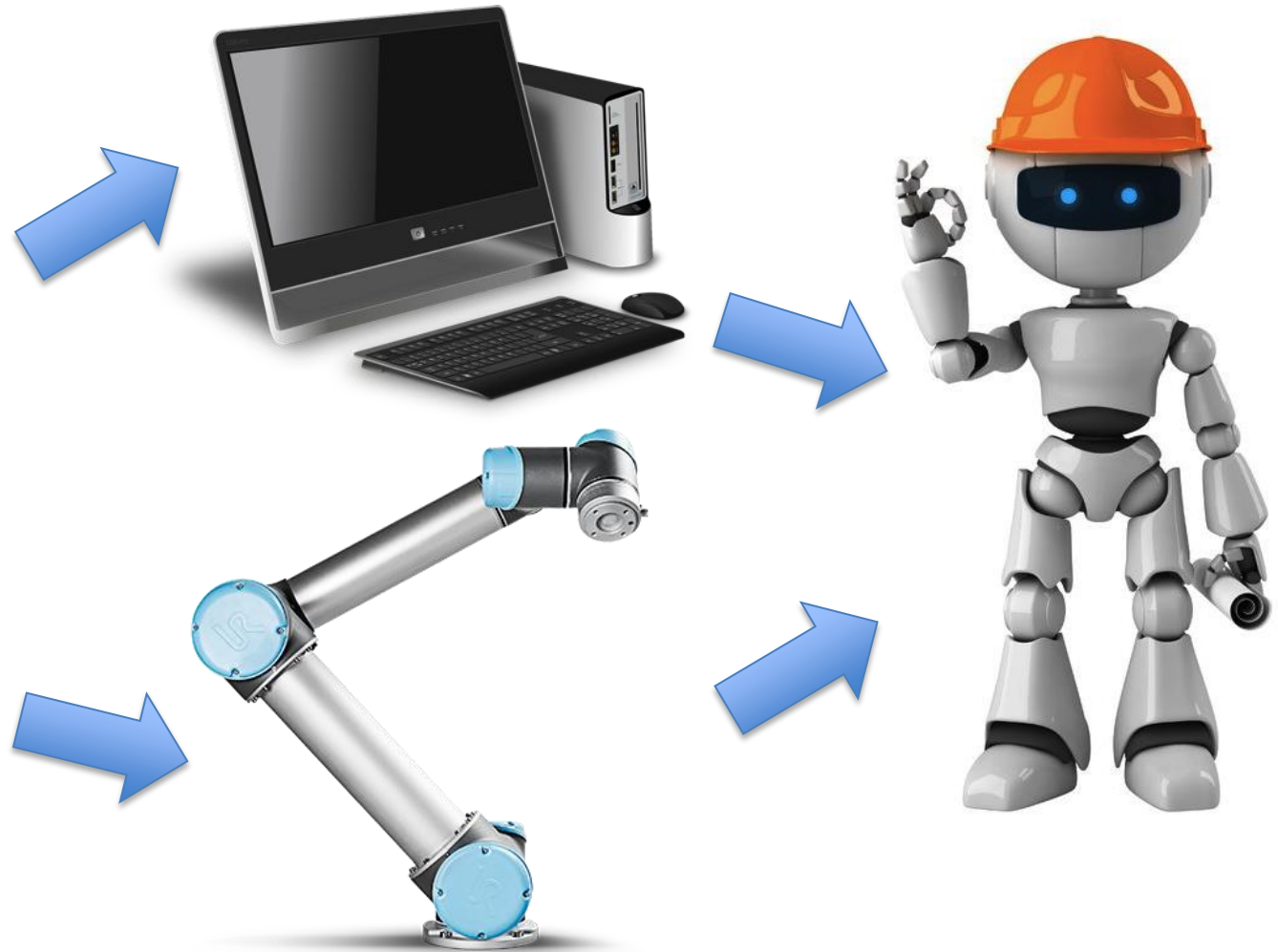


2,600,000 industrial robots in 2020

China represent 1/4 of global robots consumption annually

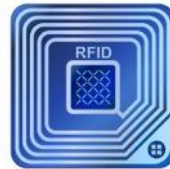
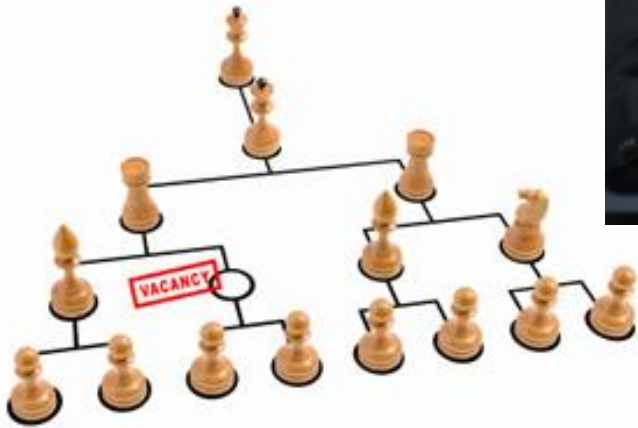
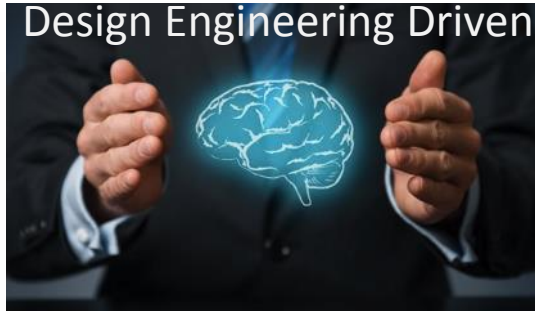
The International Federation of Robotics reports in 2015

Intelligent Factory

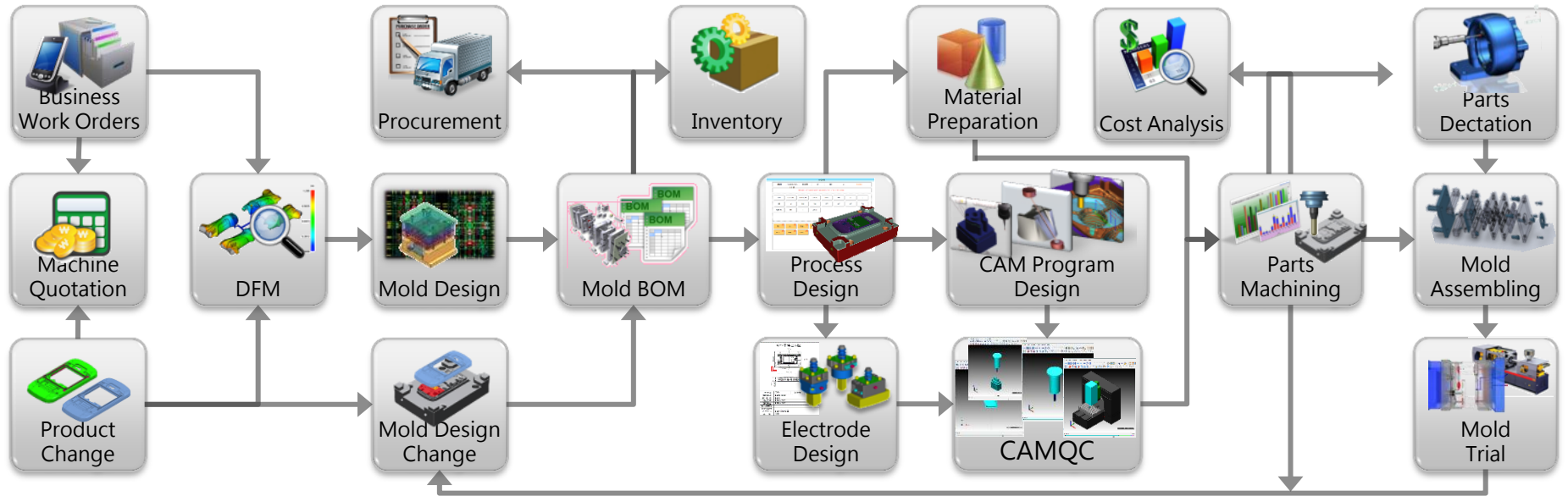


Structural Change

Design Engineering Driven



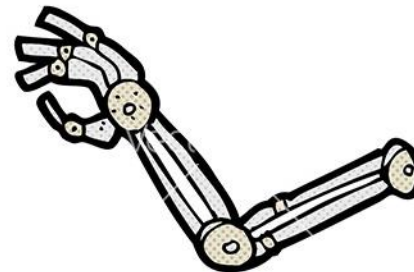
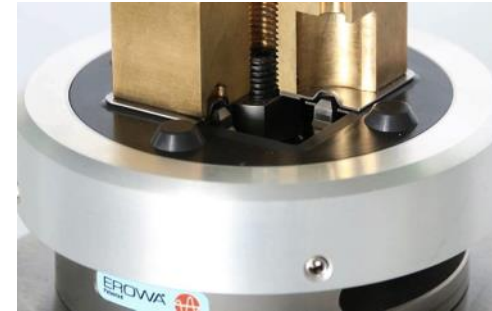
Systemization



CIM CIMFORCE



- Systemization
- Standardization
- Calibrize
- Palletization
- Sensorize
- Networkize
- Robotize
- Data Collection
- Analyze





生产订单信息查询

生产订单报工过帐

生产订单报工修改

电镀线工时分摊

电镀线分摊更改

二次加工报工

二次加工修改

机台状态看板

机台状态信息查询

RealtimeDashboard

KPI报表

生产报表

正常

试模

设置

待单

停机

智能制造管理系统

KPI报表

Realtime Dashboard

OEE

生产效率

使用率

合格率

负荷率

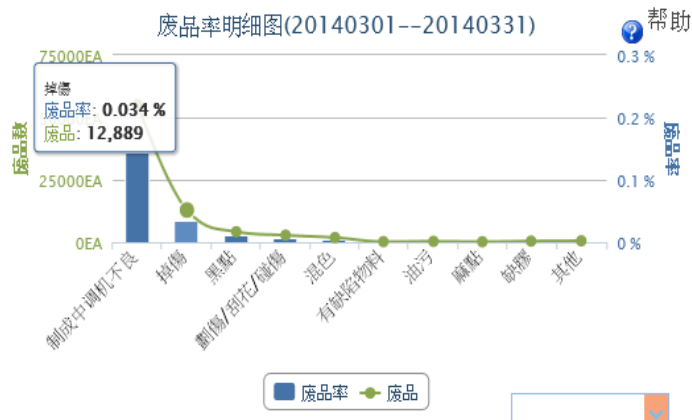
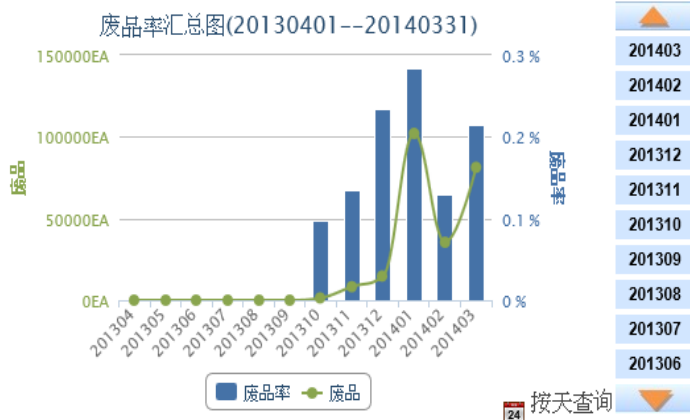
停机率

废品率

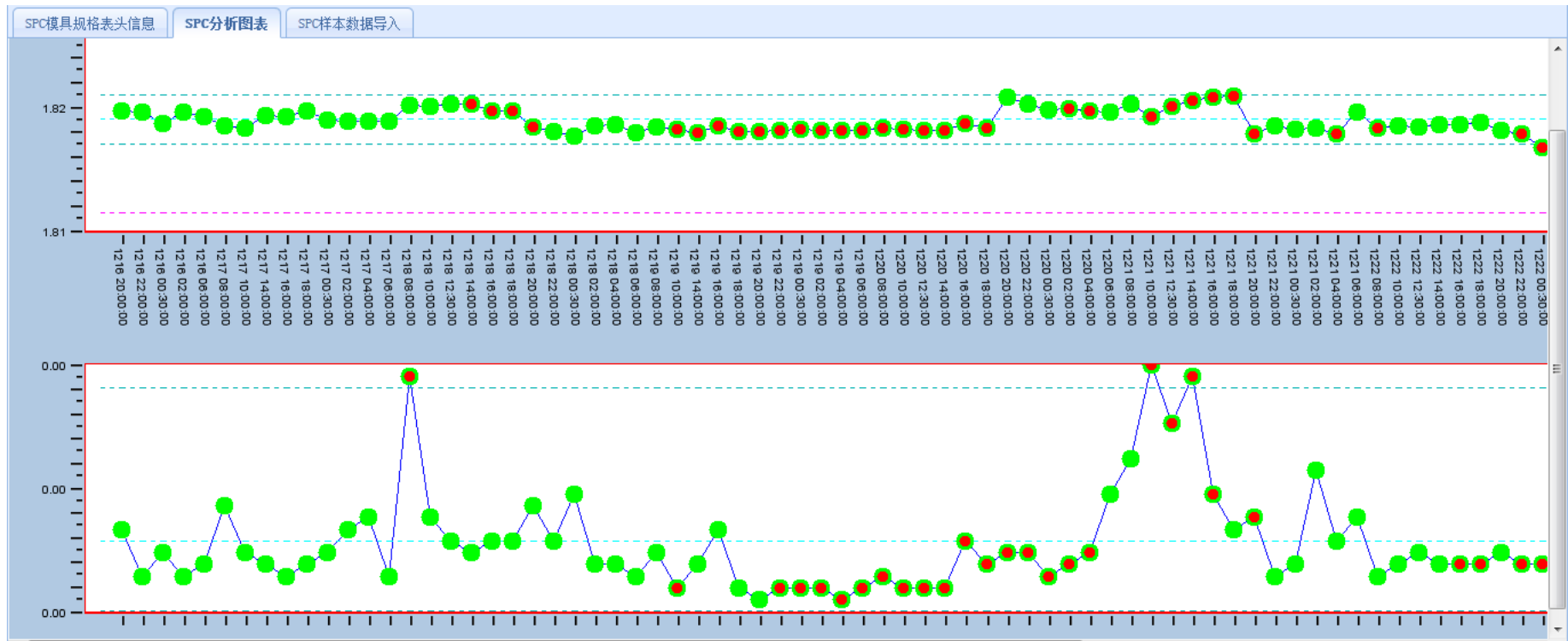
☒ 按月 ☐ 按周

机台类型: 注塑

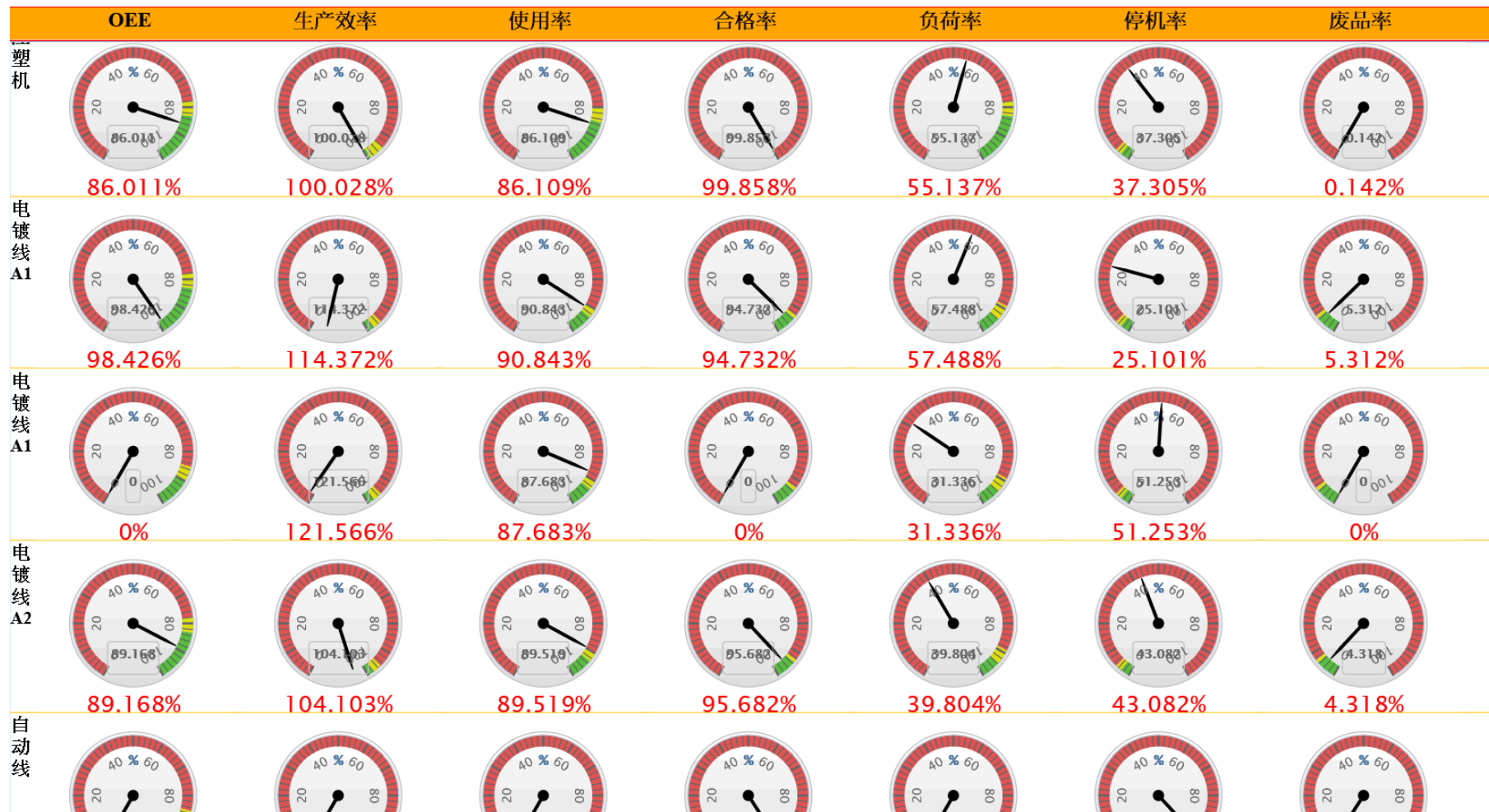
查询

[illegible]

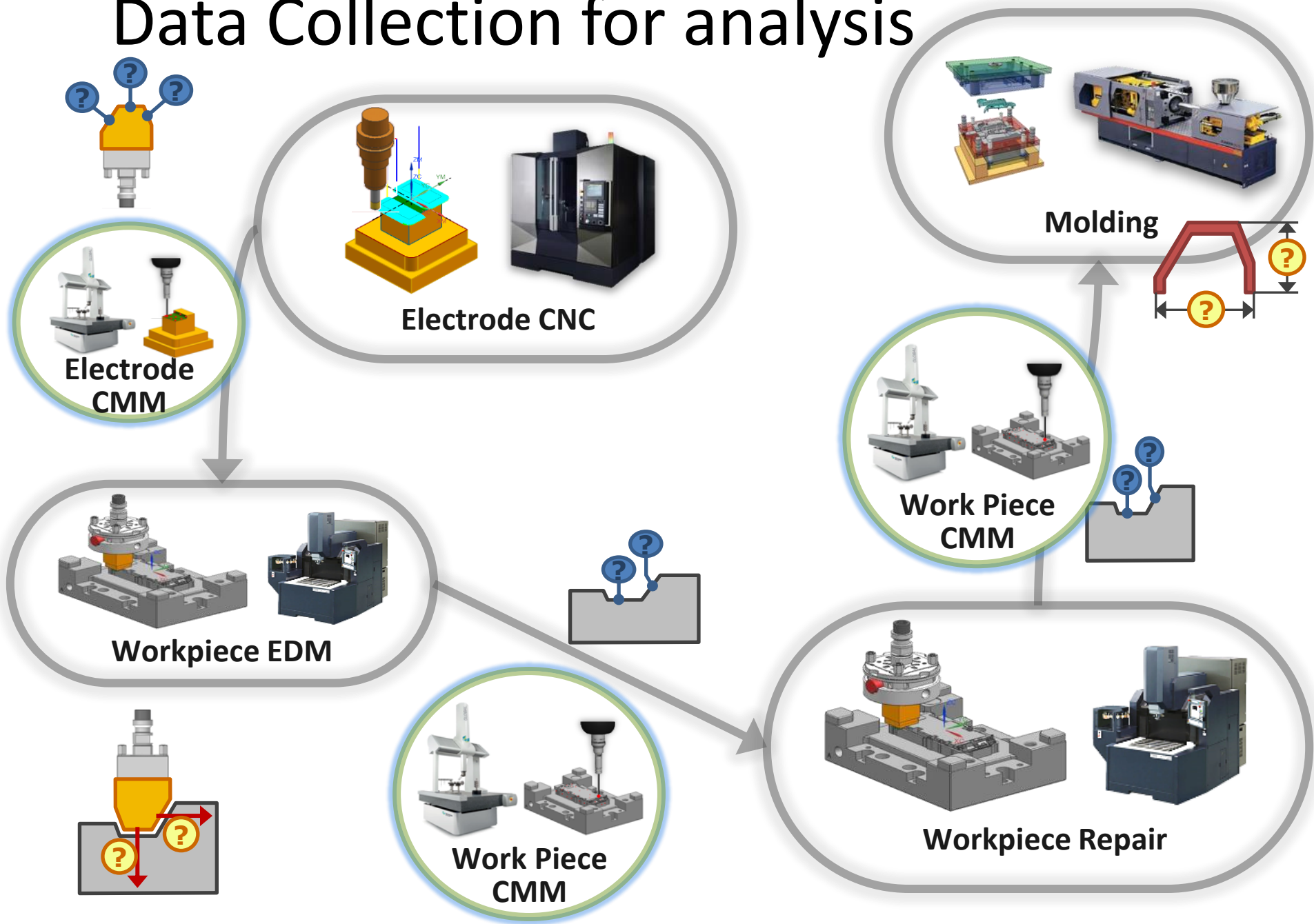
Automatic SPC Analysis



Real Time Management Dashboard



Data Collection for analysis

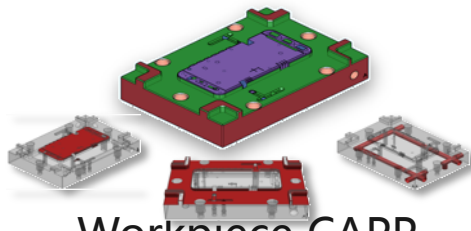


User Client

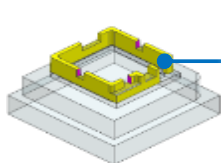


Precision Face
Tolerance Face
VDI Face

Mold Design
(Define Tolerances with
Color Indicators)



Workpiece CAPP
(Define Tooling Sections with
Color Indicators)



Precision EDM Face
Product EDM Face
Non-EDM Face

Electrode Design

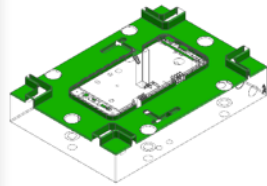
System Backend

Geometry
Analysis

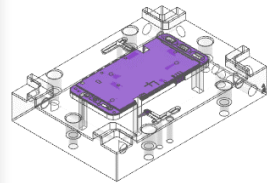
Auto-Point
Rounding

Match Probe &
Interference Check

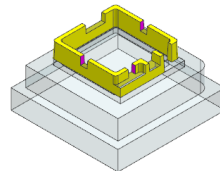
Auto-Generate
Program



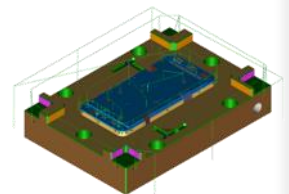
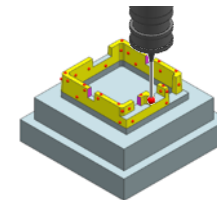
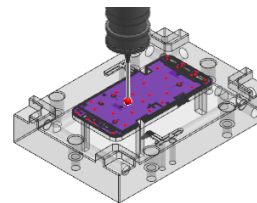
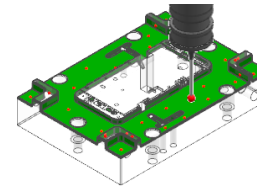
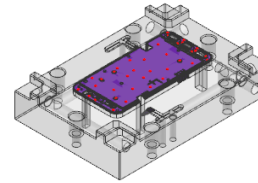
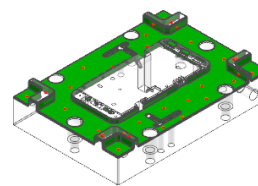
**Workpiece
CNC Process**



**Workpiece
EDM Process**



Electrode



Workshop



- Read RFID
- Get Electrode No.



System
(Database)

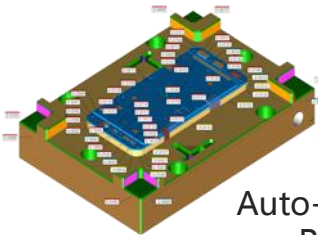


Detection Program/Offset
Upload

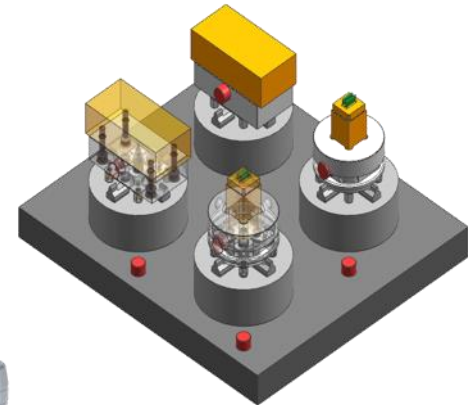
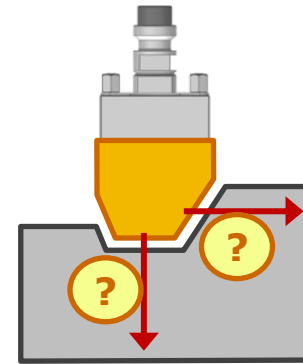
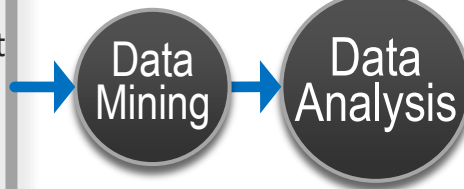
Value/Data



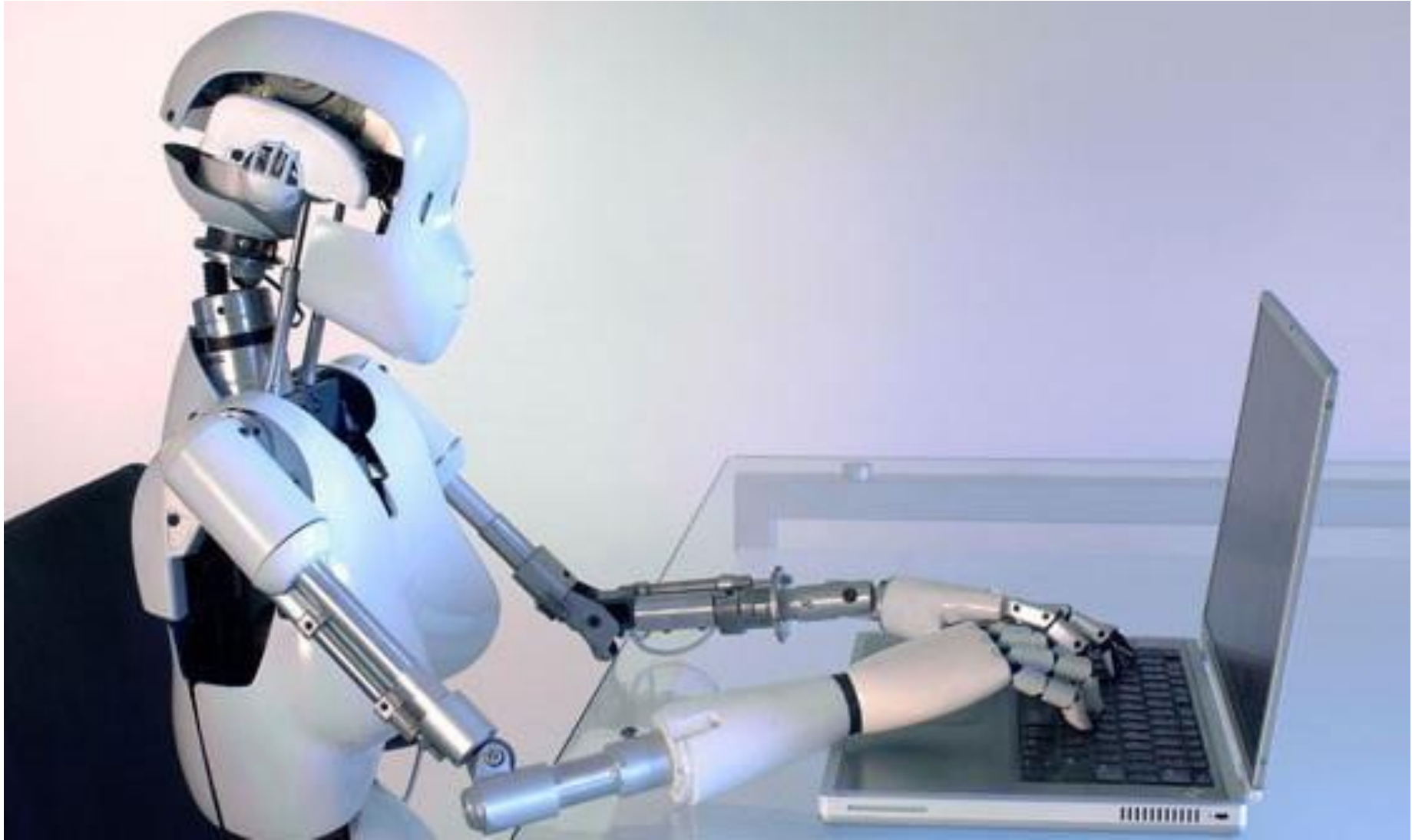
System
(Database)



Auto-Generate
Report
(For Quality Control)



Your Intellectual Property of Artificial Intelligence











Why?
What?
How?

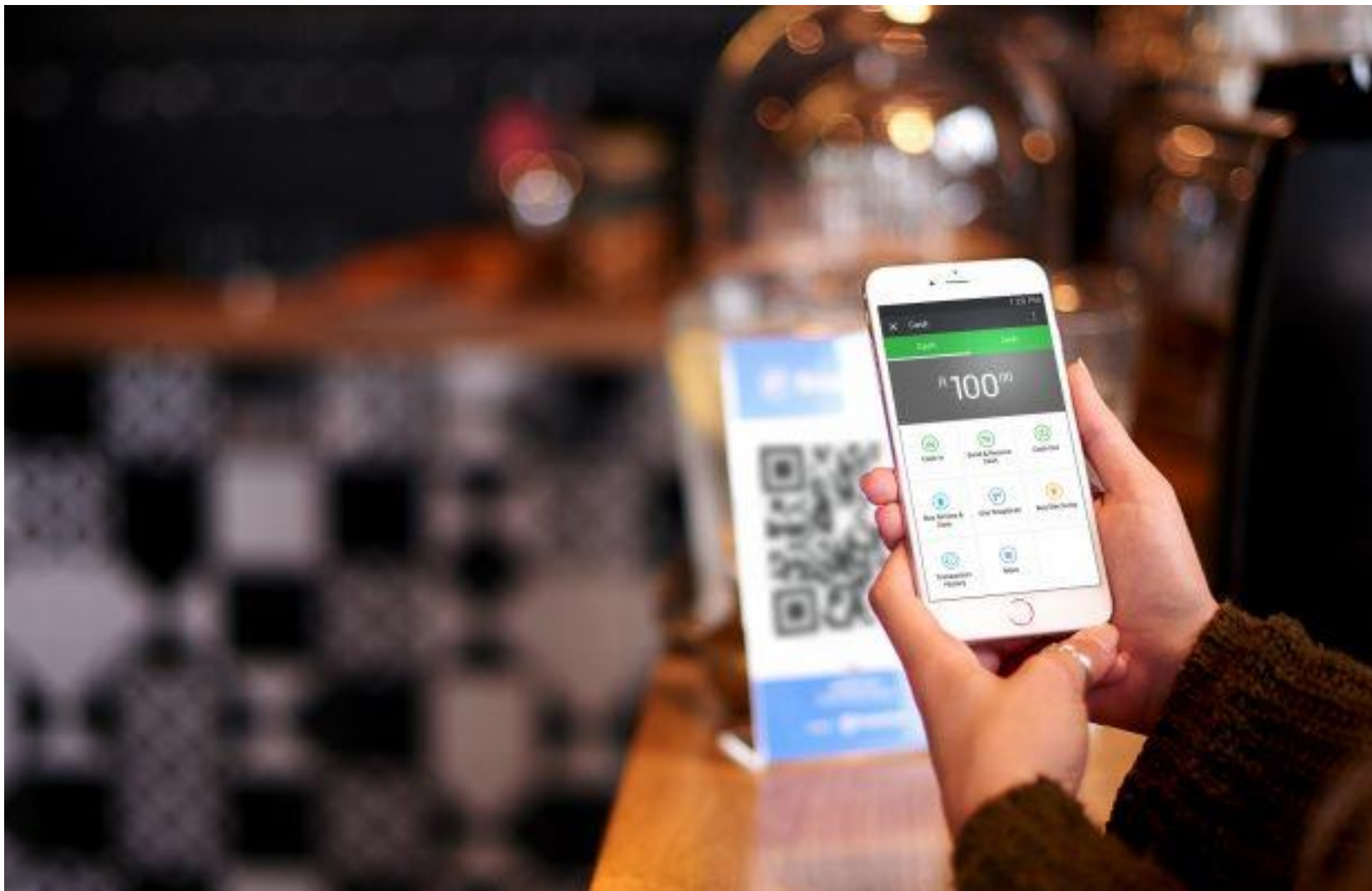


Leapfrog





Wechat Pay



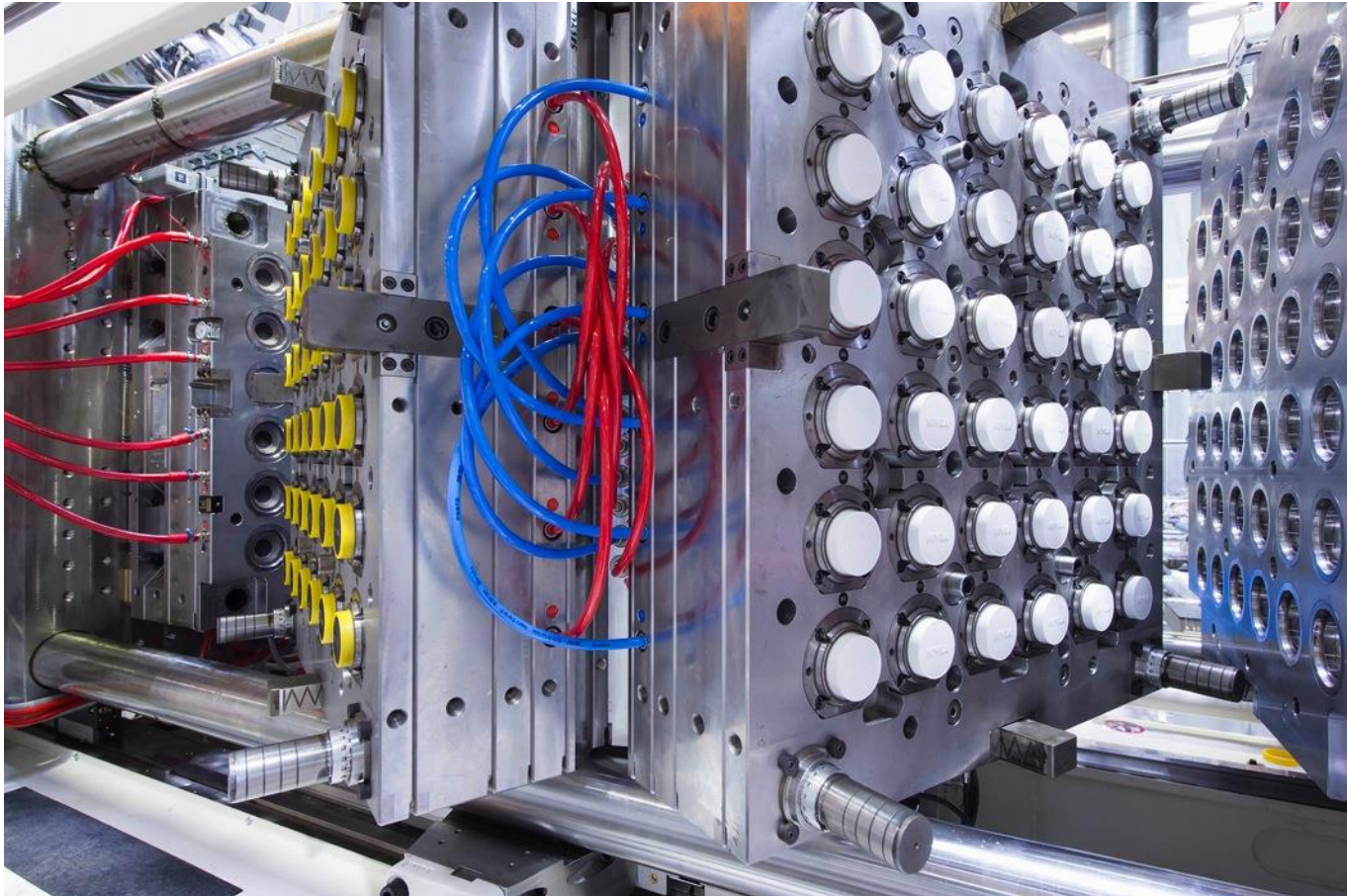


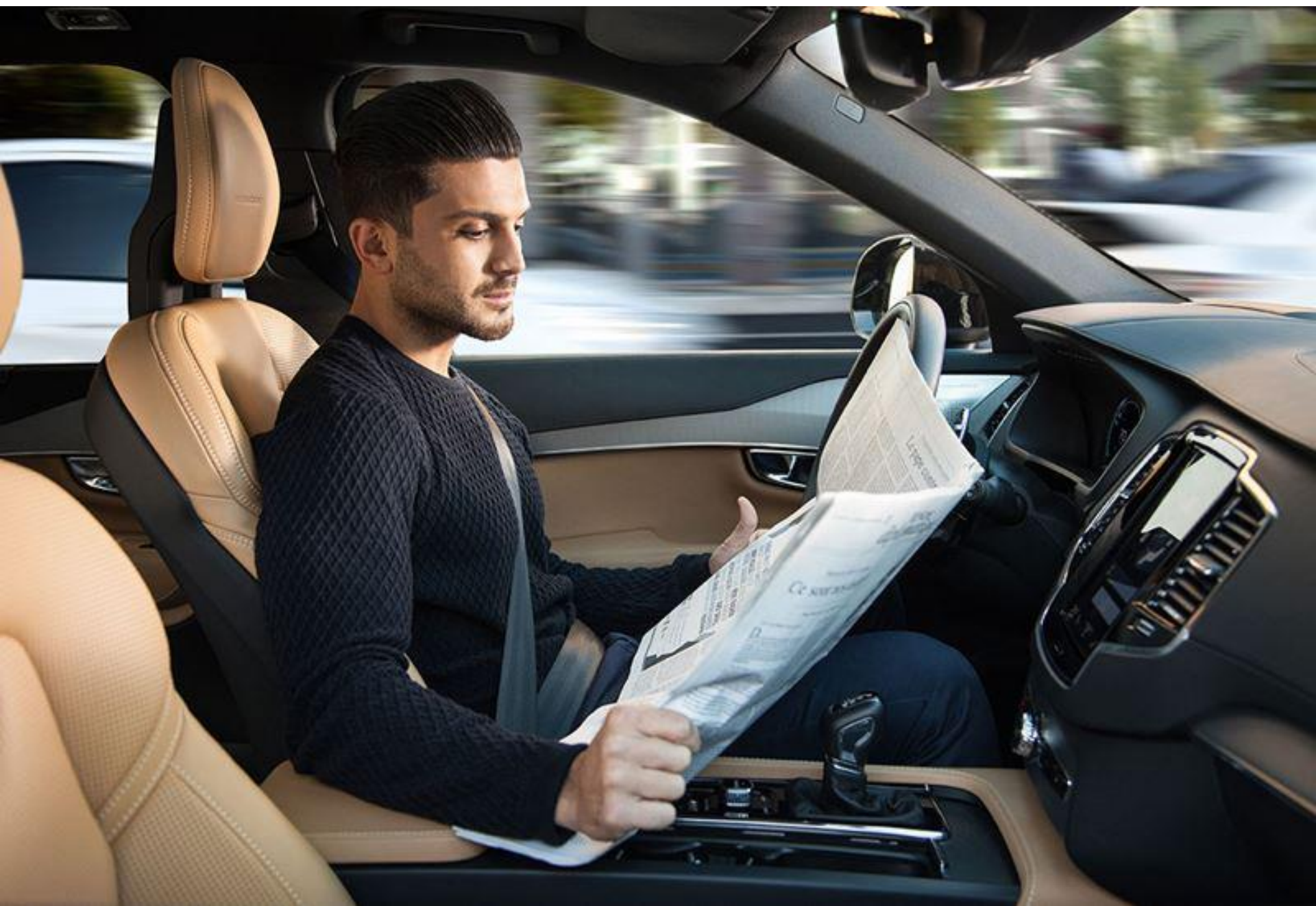
5-Axis Machining

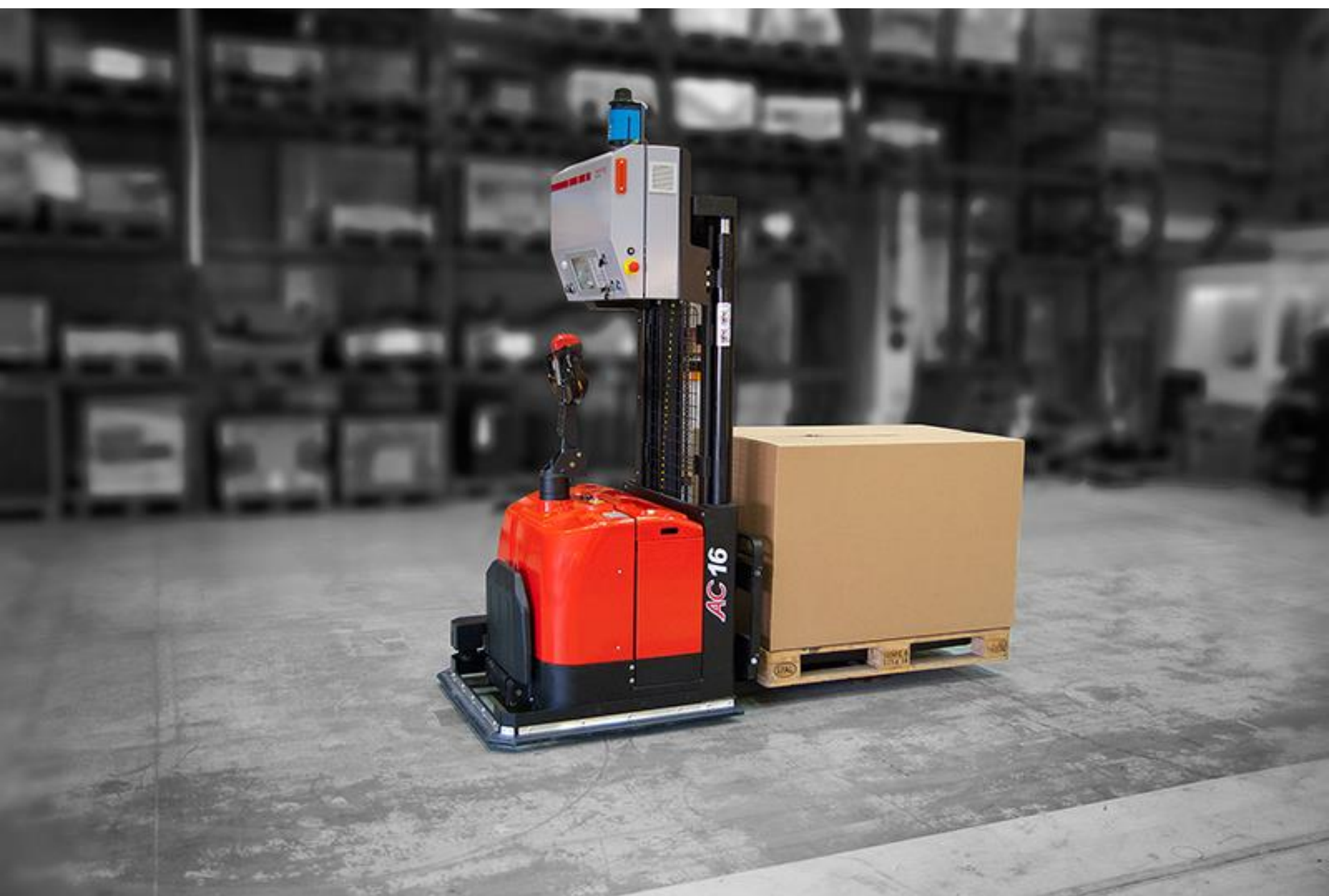
Robots to 3-Axis Machines

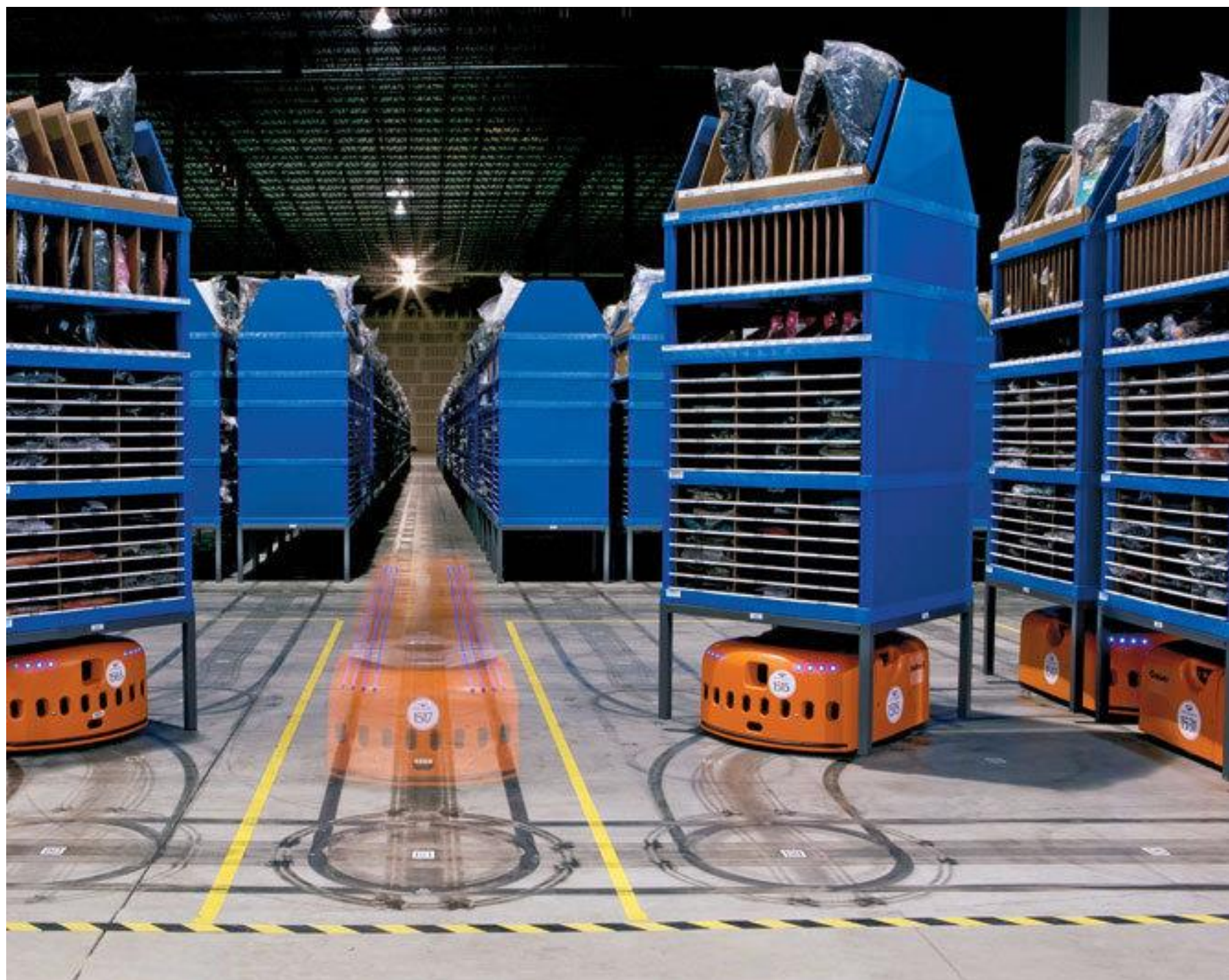


Why not? Mold 4.0











Youbot by Kuka





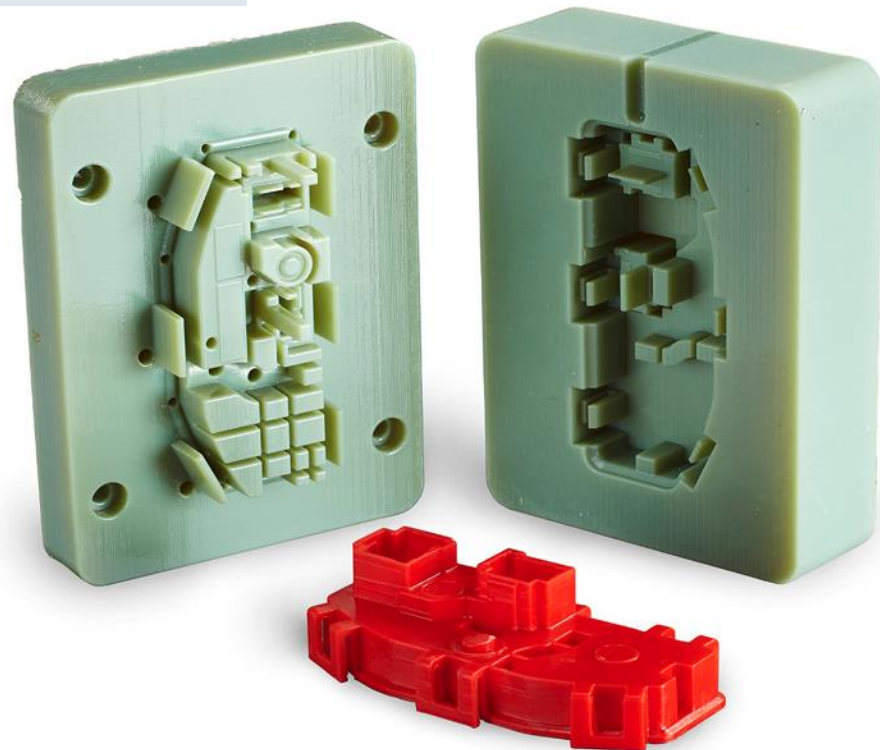
change
the

GA**M**E

Laser Sintering
for high performance



3D Printing molds
delivery the next day



Should your factory look like this?



Sharing Economy Car on Demand



Machine on Demand



Expert On Demand





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Marketing

SEO

Social Media

Growth Hacking

Design

Technology

Product



Jon Liebtag

Business development, financial strategy, marketplace development

Passionate about early stage startups - currently business development lead @Airbnb...

Available



Aaron Bare

Startup, Entrepreneurship, Innovation, Founders Advisor, Growth Hacking

Entrepreneur. Designer. Facilitator. Mentor. Advisor.

Available



Stuart MacDonald

Business Strategy, Entrepreneurship, Marketing Strategy, Sales, SaaS, Growth,

Top-Rated Advisor | Previously CMO FreshBooks.com, CMO Expedia.com & founder...

Available



Lance Cottrell

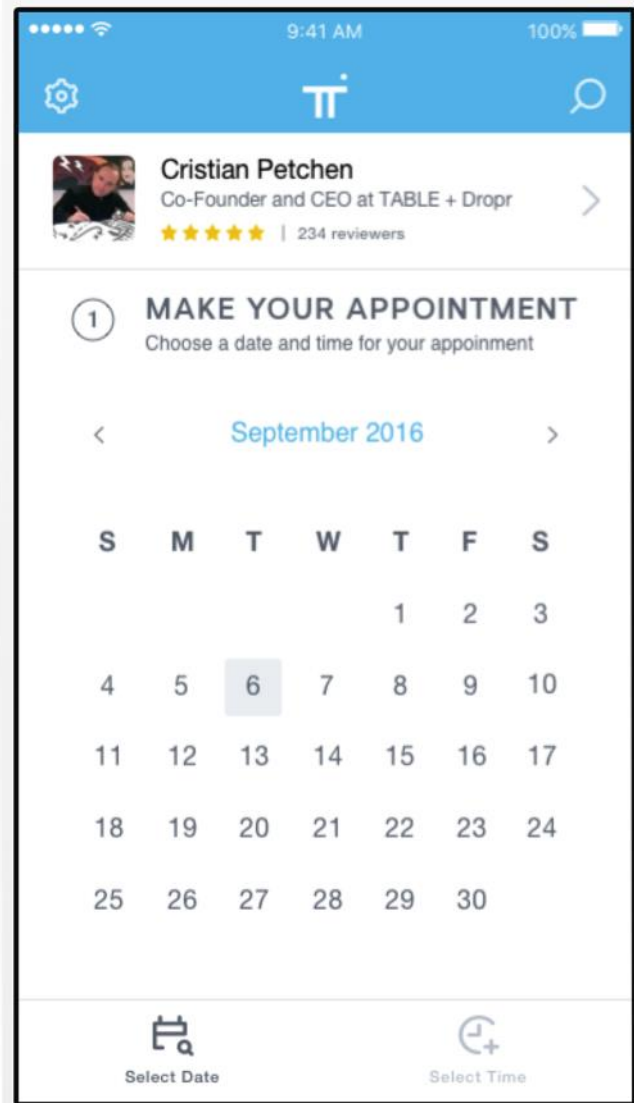
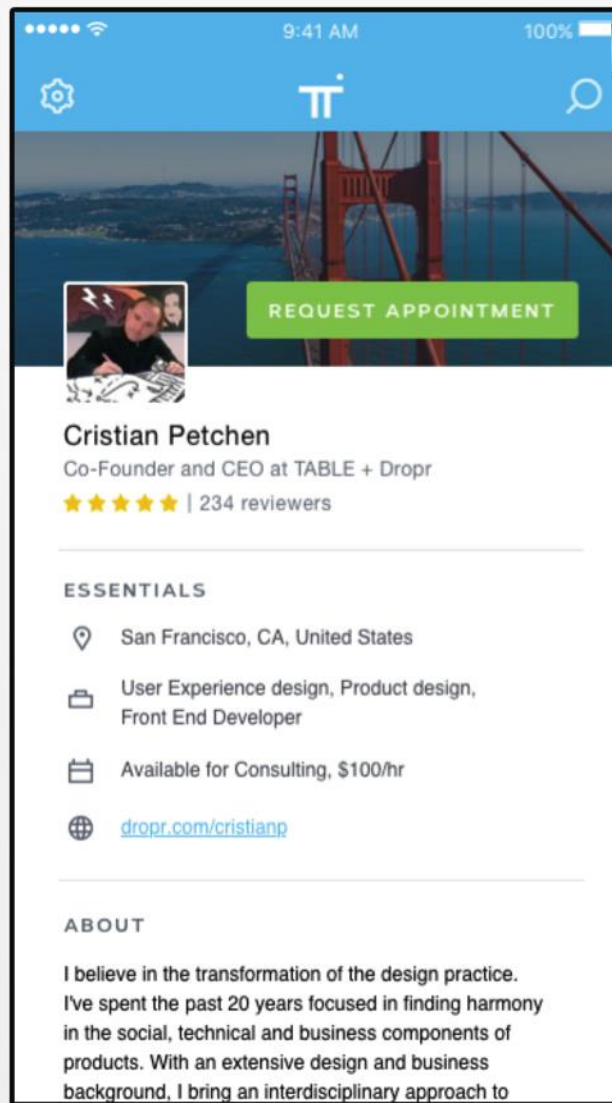
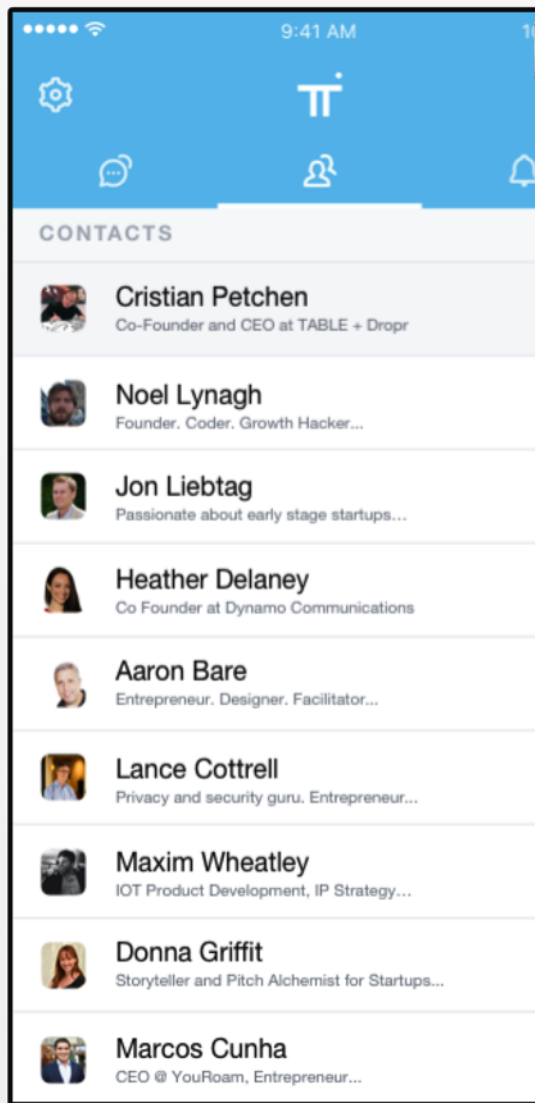
Security, startups, funding, marketing, presentations, pitches, strategy.

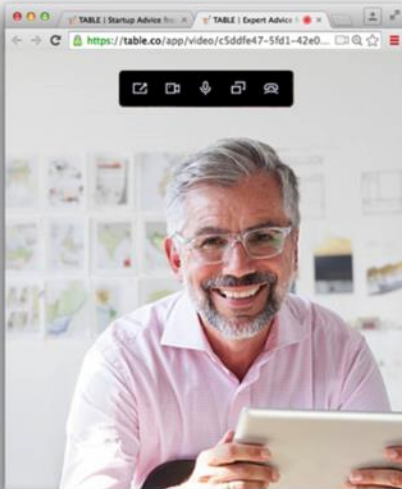
Privacy and security guru. Entrepreneur, angel investor, and advisor. Founder of...

Available



MacBook





Rachel Arroyo

Hi Cristian, I would like to get some guidance regarding raising a Series Seed Round for my startup. I'm attaching some documents for your review

6:09 PM



6:10 PM



Cristian Petschen

Why don't you send me an executive summary and a timeline thanks

6:11 PM



Rachel Arroyo



TABLE Product Road Map 02-23-16.psd

1MB

📄 Download

💬 0 Comments

6:14 PM

Rachel Arroyo & Cristian ... Accepted

APPOINTMENT

🕒 12:15 AM - 1:15 PM PDT
📅 Sep 6, 2016
🕒 60 minutes
💰 Total: \$100

MEMBERS

👤 Rachel Arroyo Owner
👤 Cristian Petschen

MEDIA

📁 Images
📁 Misc
📄 PSD

Write message...

SEND



Table.co hand shake FHKI

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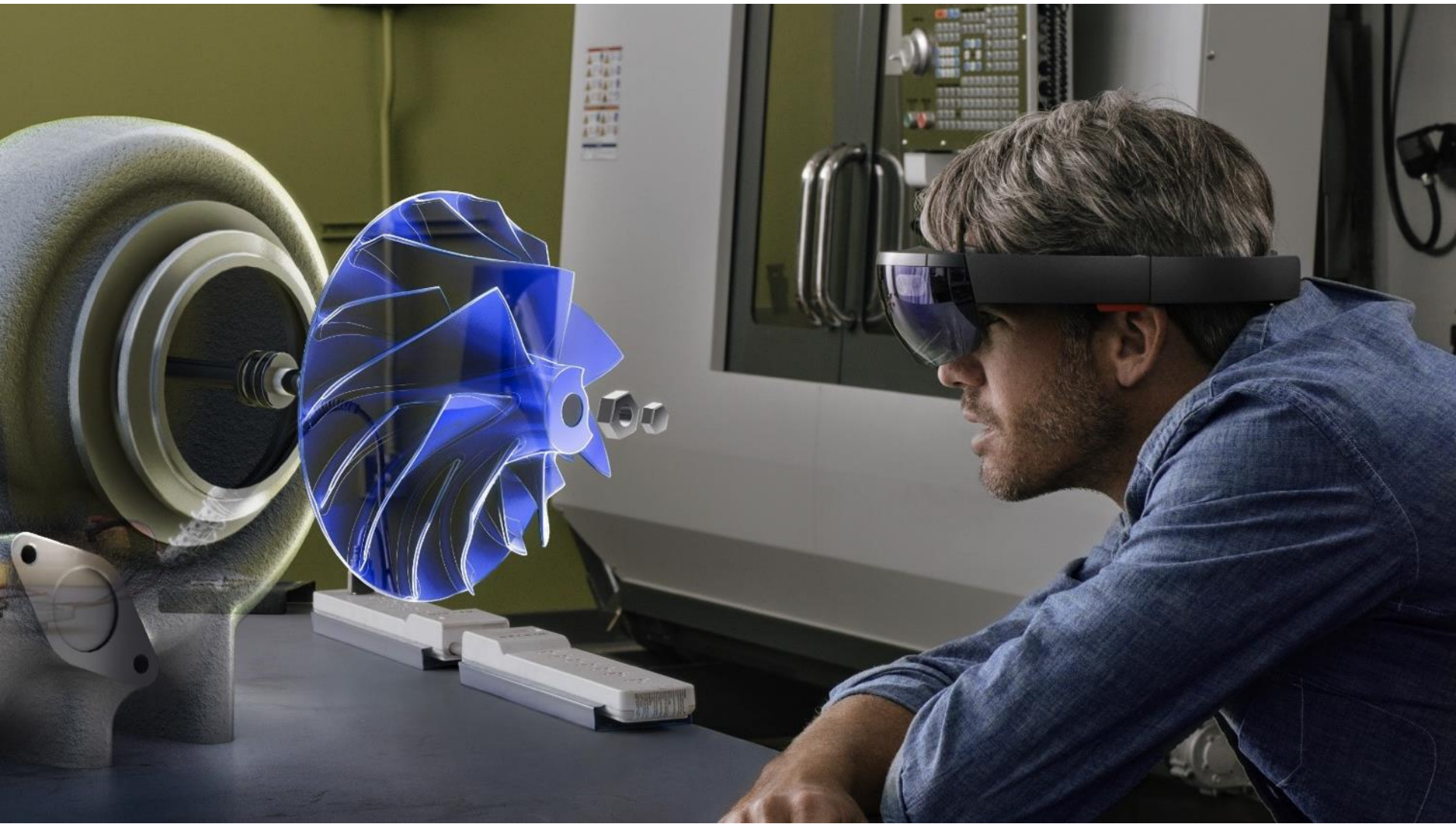
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Over 100 courses

Photography

Over 1700 courses

Virtual Reality and Mixed Reality Applications



Hololens x Skype



Hololens x Autodesk







Conclusion



Prepare for change & restructuring
Bring in Leap Frog technology
Game Changer strategy
Apply latest available technology

