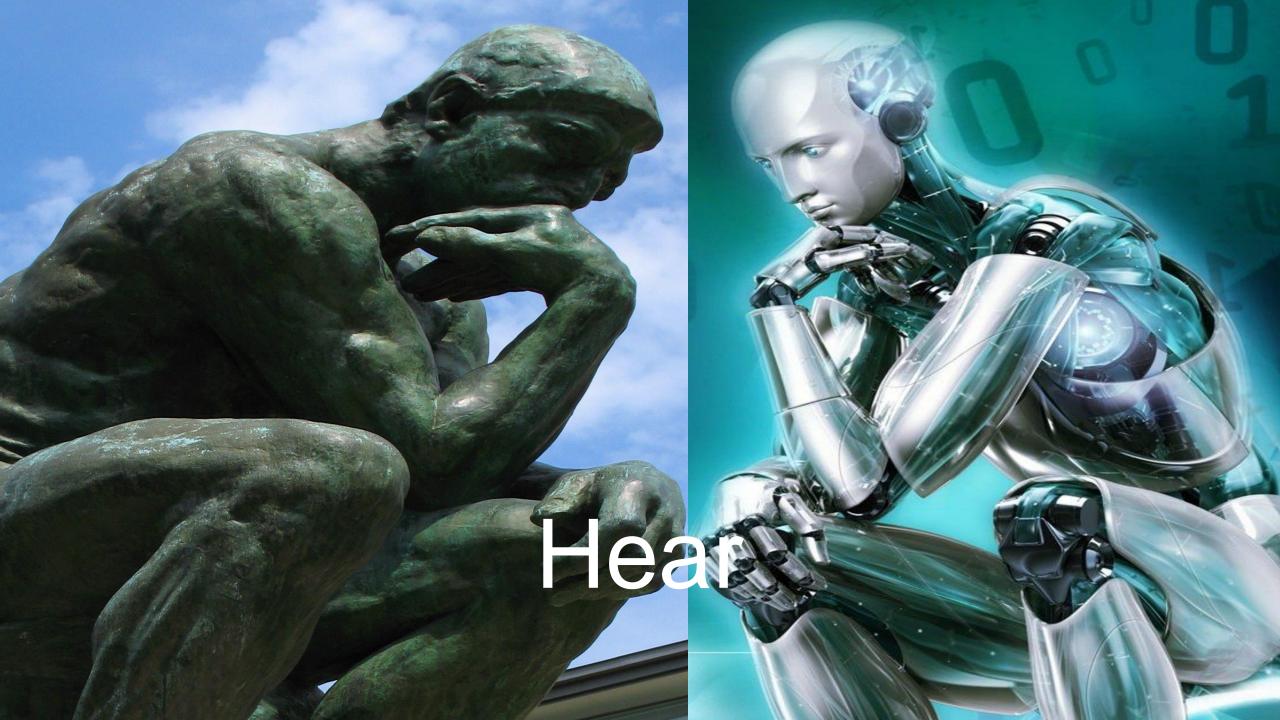


- Graphcore
- 7,000 processors
- 350MB RAM
- largest chip in the world: inch a side
- BSP: Bulk Synchronisation Protocol

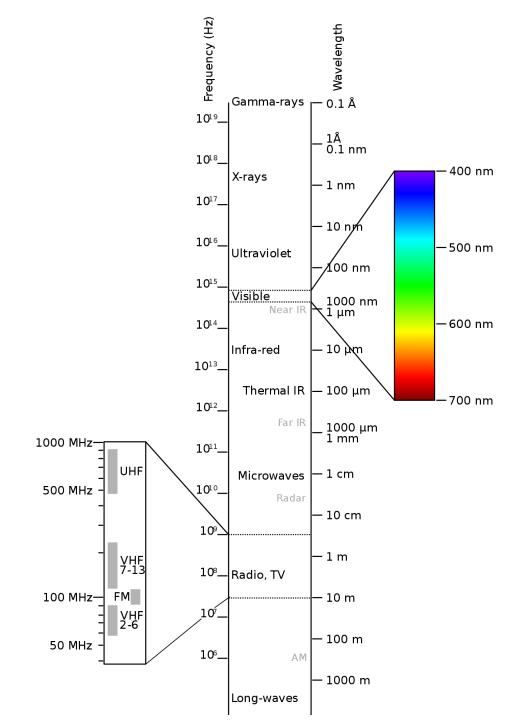






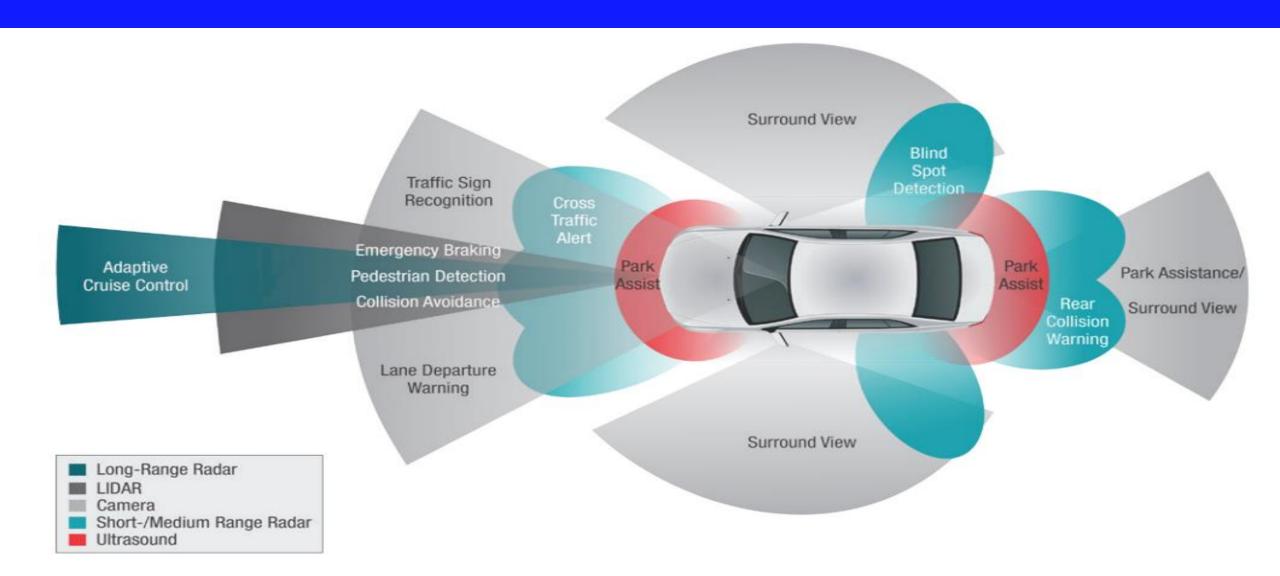




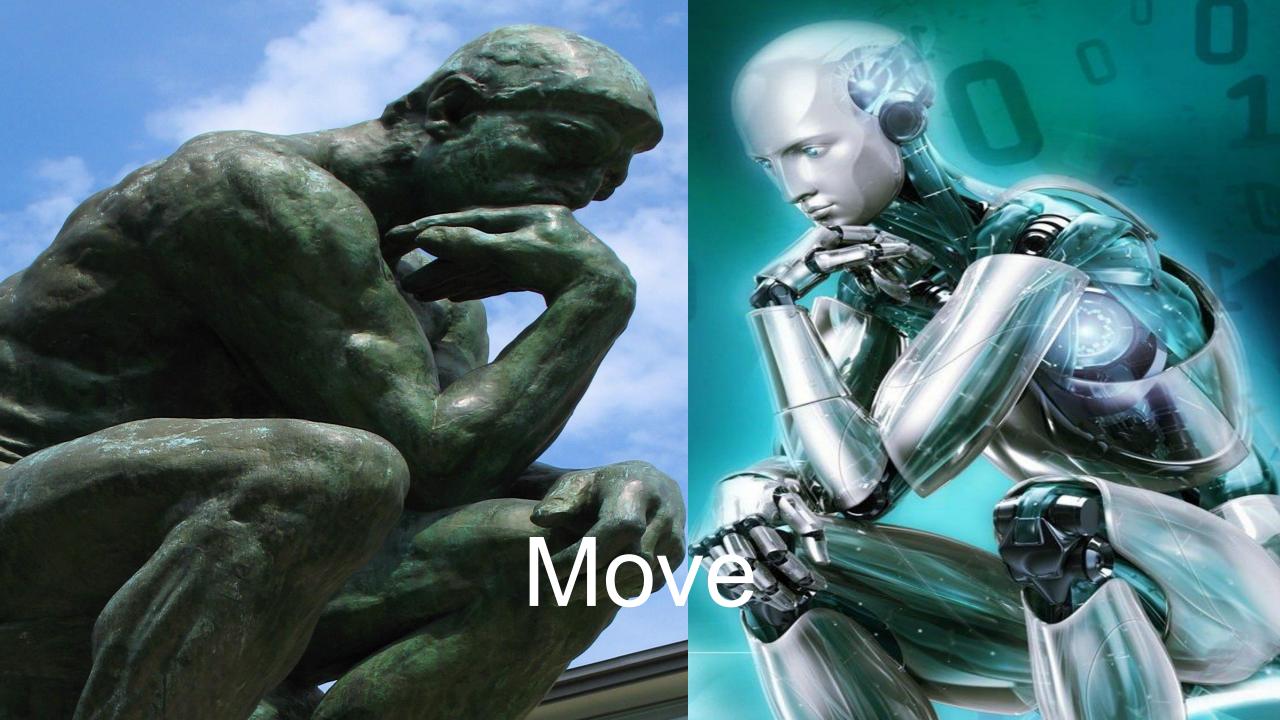


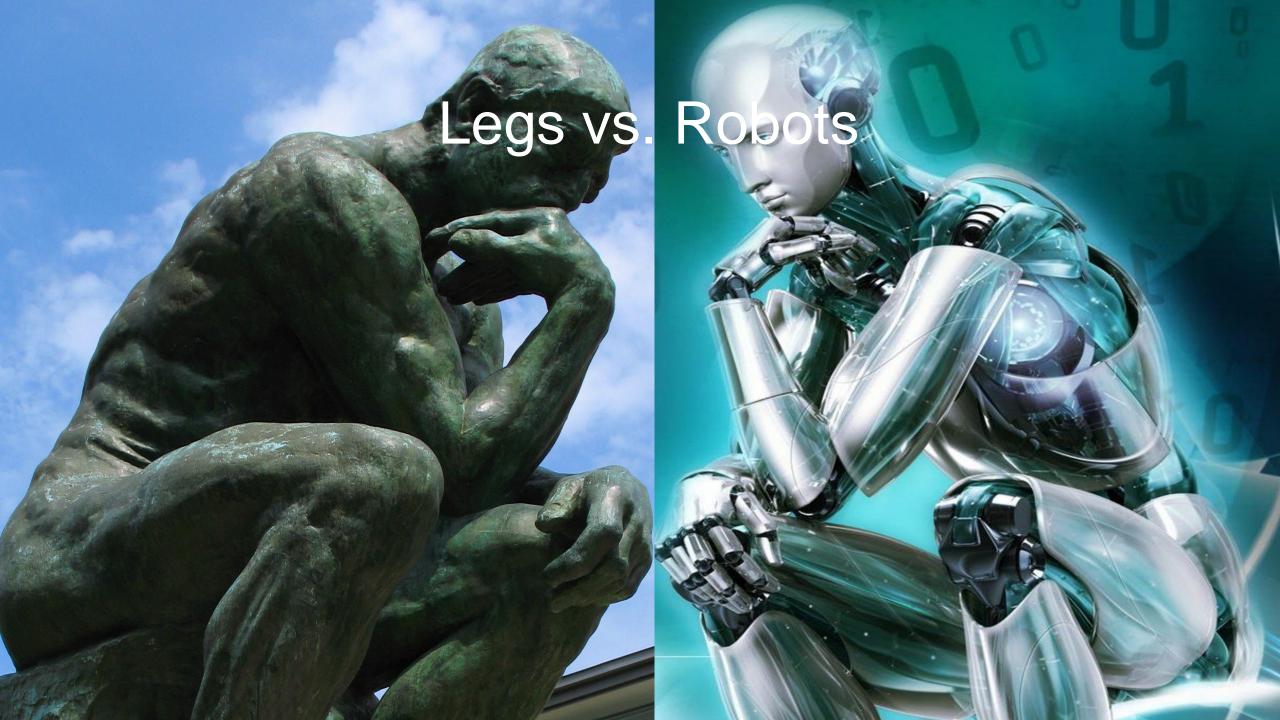


Self-driving car











What is Machine Learning?

Systems that learn from data rather then following pre-programmed rules

(Royal Society ML Report)

Branches of ML

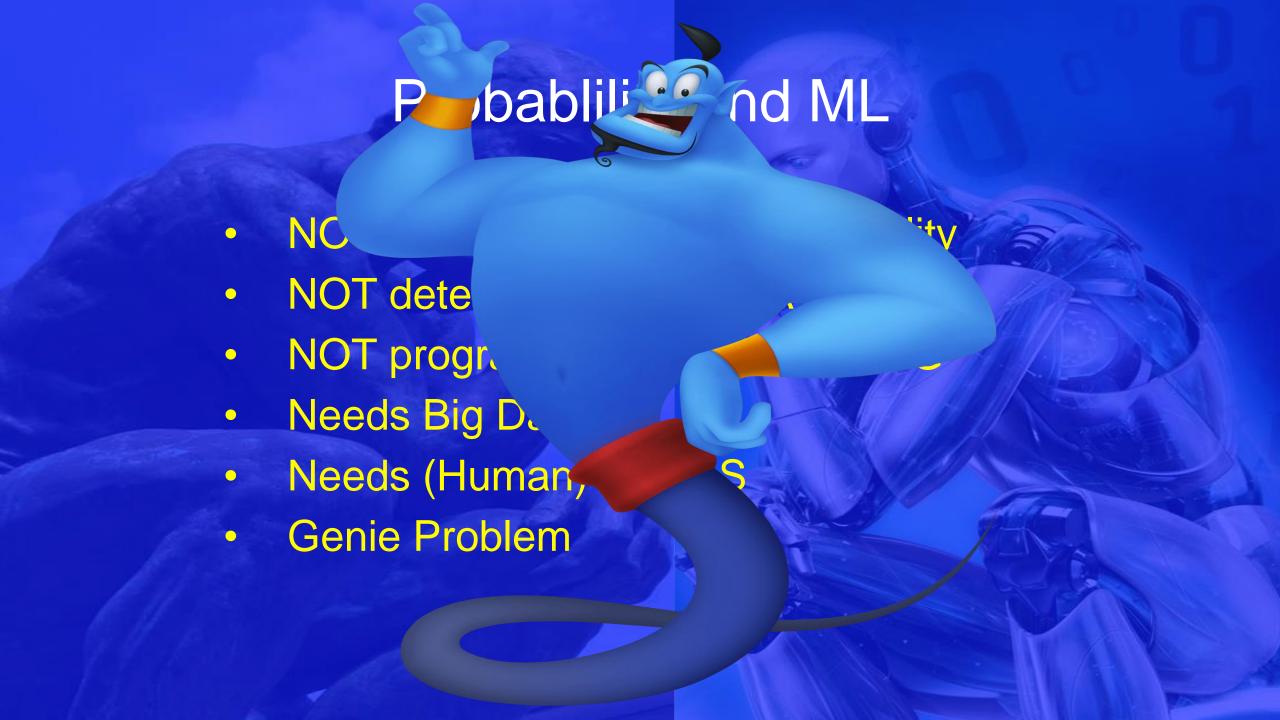
SUPERVISED ML: trained on LABELED DATA

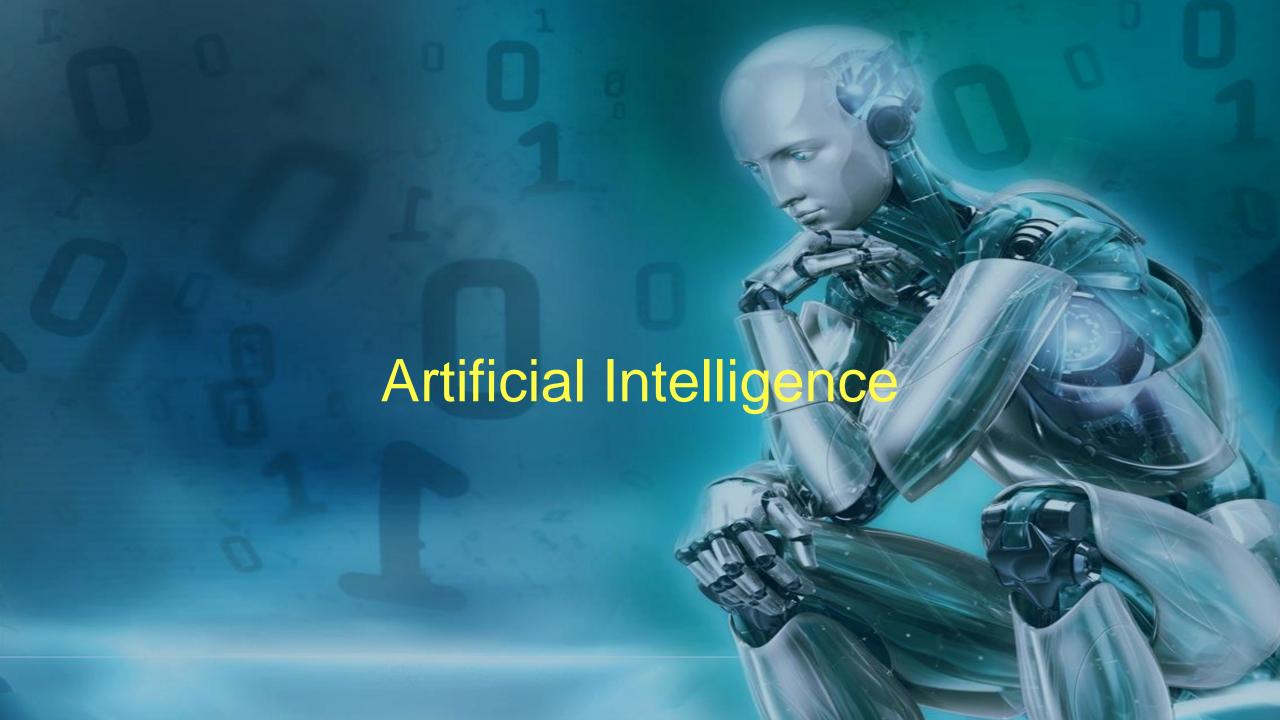
UNSUPERVISED ML: without labels

 REINFORCEMENT ML: learning from experience, reward function (winning game)

• INVERSE REINFORCEMENT ML: system has to deduce reward function buy observation (driving a car)







Al Risks

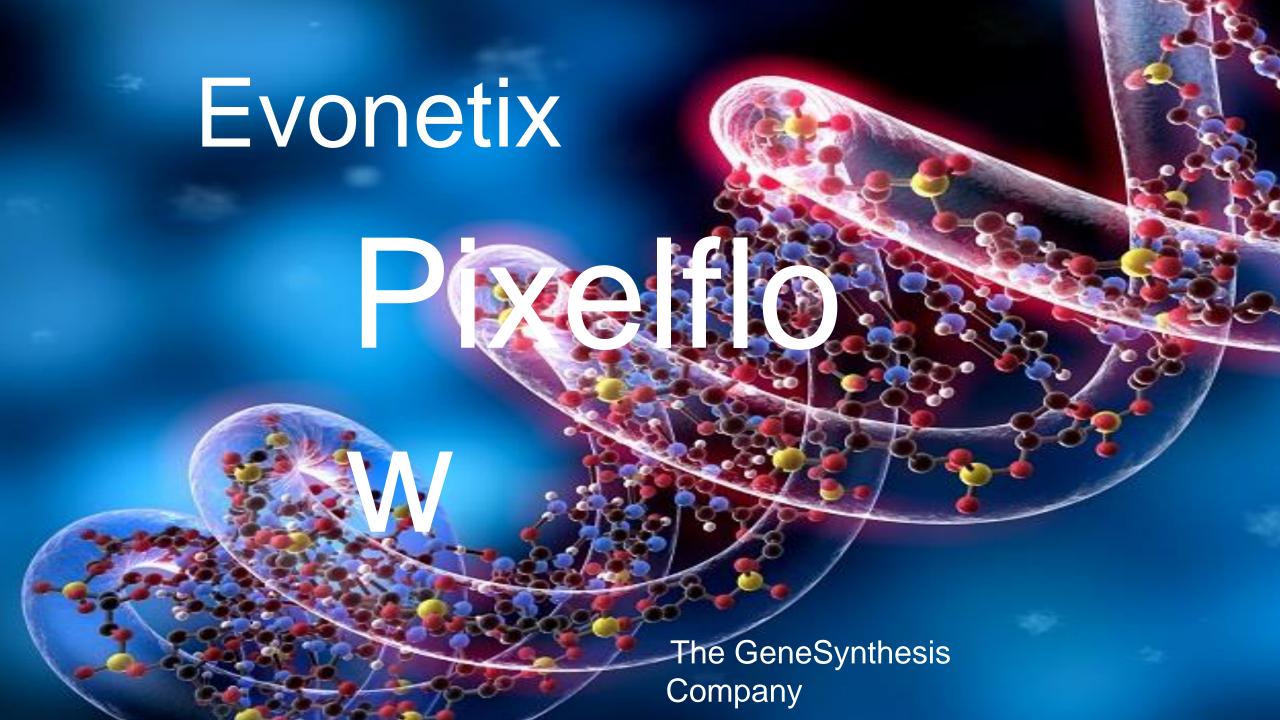


"Success in creating AI would be the biggest event in human history.
Unfortunately, it might also be the last, unless we learn how to avoid the risks.

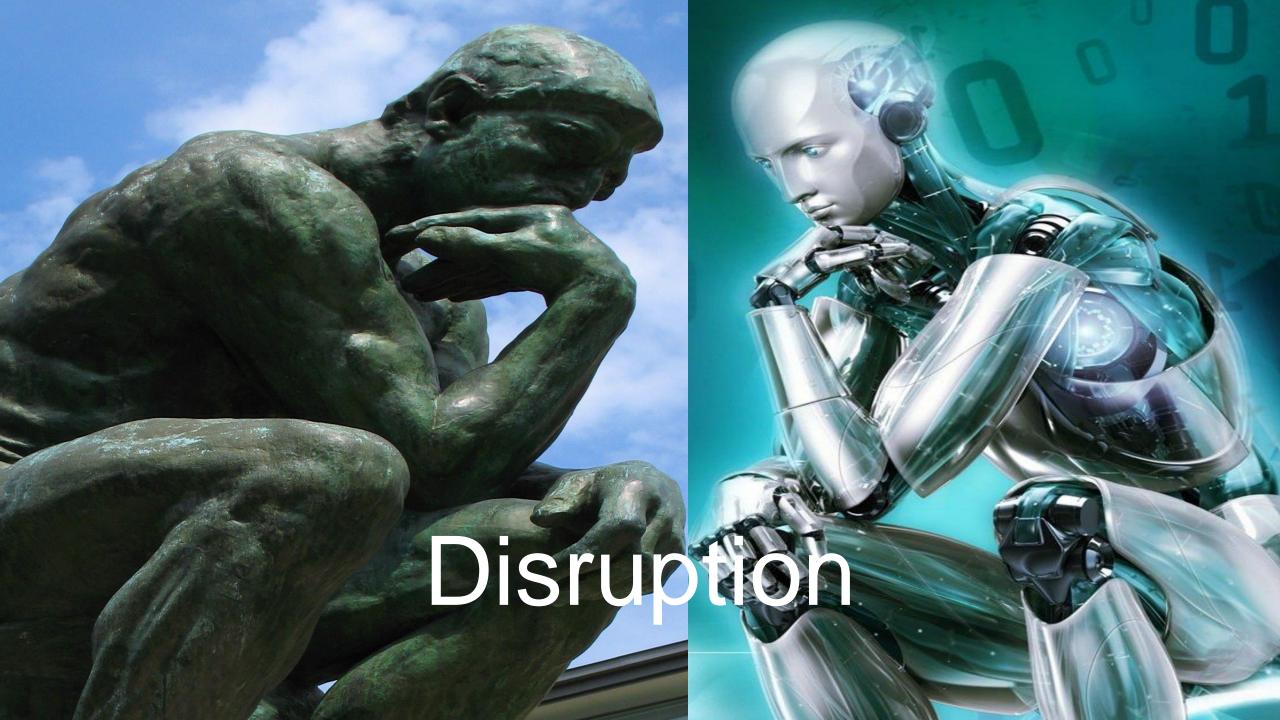
"Hope we're not just the biological boot loader for digital superintelligence.
Unfortunately, that is increasingly probable."











ARM Business model

	Intel	ARM
Customer	Dell,HP	Samsung, Apple
Chipfab	Intel	TSMC+450
Design	Intel	ARM
Intellectual Property	Intel	ARM

ARM ART CORTECTION OF THE PROCESSON TECHNOLOGY

ML effect on Car industry

	Today	With ML
Customer	Showroom	Uber
Autonomous SW	BMW, Tesla	Uber, FiveAl
Car	BMW,Tesla	BYD, KIA
Components	Bosch	China



ML effect on Pharma

	Today	With ML
Customer	Patient	Healthy person
Provider	Doctor/hospital	e-Health
Supplier	Pharma	Personalised Advice
Components	Drugs	Data

