How Al is contributing to the kitchen of the future

Scott Duncan, Unox UK



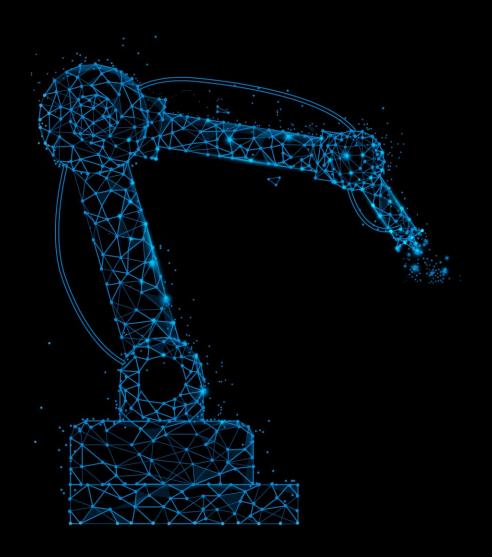
Sustainability (5) Food allergies **Cross-country consistency** People shortage 3 Globalisation of menu

Robotics & Al

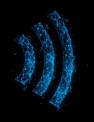




Robots



Sensors



Artificial Intelligence



Actuators





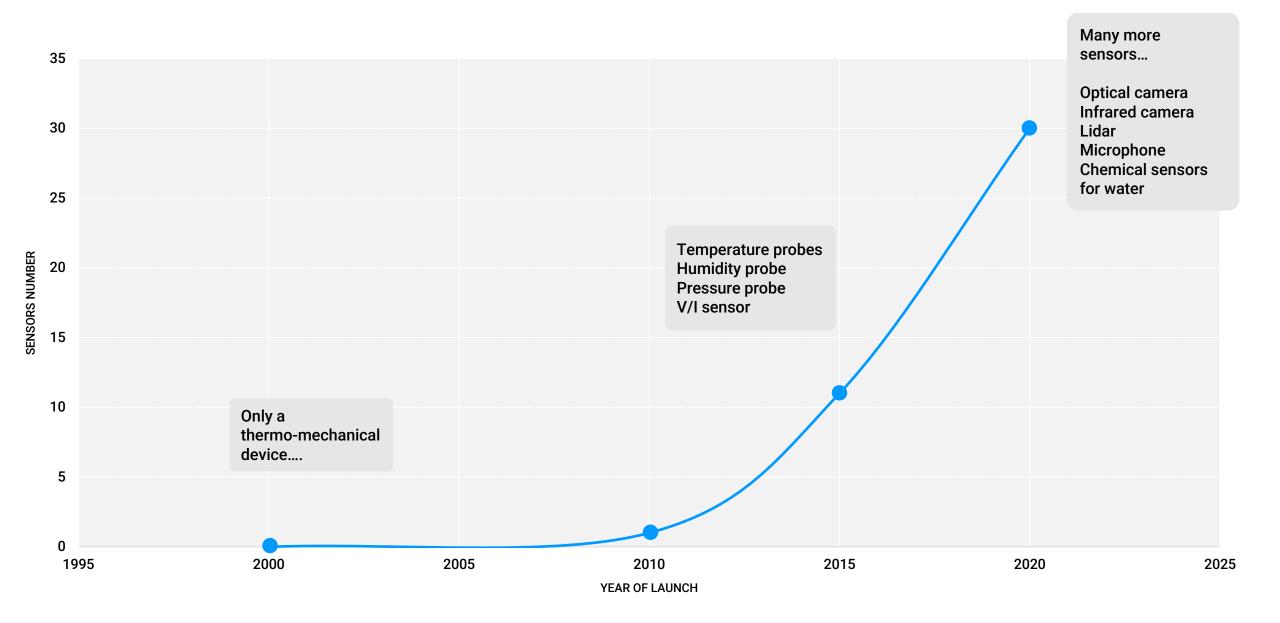
How does a sensor work?







How many sensors are in an oven?





What if sensors could measure humidity, texture, colour, smell or "doneness" of food?



Machine Learning

Unsupervised Learning

Clustering

- Target Marketing
- CustomerSegmentation
- Recommender System



Dimensionality Reduction

- Meaningful Compression
- Big Data
 Visualisation
- Structure Discovery
- Feature Elicitation

Reinforcement Learning

- Robot Navigation
- Learning Task
- Skill Acquisition
- Game Ai
- Real-time decisions



Classification

- Identity Fraud Detection
- Diagnostics
- Customer Retention
- ImageClassification



Regression

Supervised

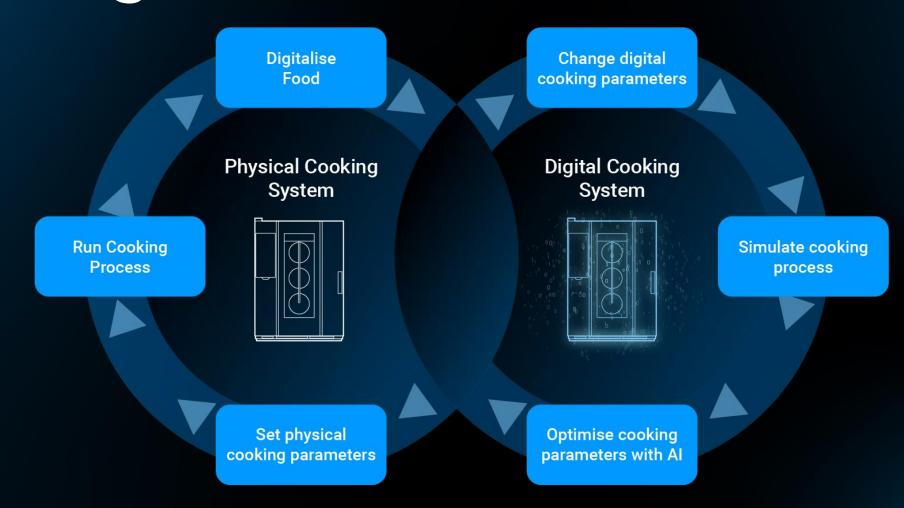
Learning

- Population Growth Prediction
- Estimating life expectancy
- Advertising Popularity Prediction
- Weather Forecasting
- Market Forecasting



What is Deep Cooking?

How do we envision the future of cooking?





Any Questions?