

# CES 2019 Perspectives

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# Big Themes - AI

- Machine Learning, Deep Learning
- Perception, Prediction, Planning
- Ethics
- Humans complement AI
- John Deere
  - ✓ Autonomous large machinery since early 2000s
  - ✓ GPS accuracy of a few cm
  - ✓ Automation to increase efficiency

# Big Themes – 5G



# AI & 5G - Retail Implications

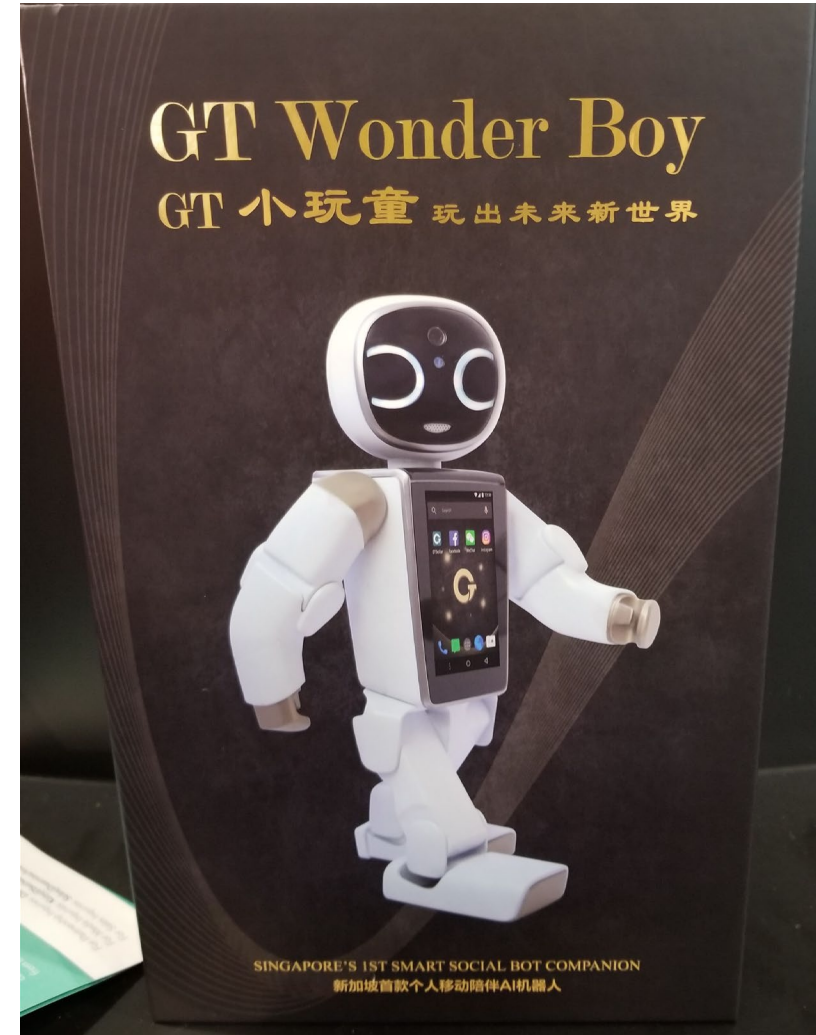
## Personalization & Customization

- ✓ Customer recognition
- ✓ Digital Signage (ex. store fronts)
- ✓ AR, VR (clothing, makeup, home furnishings, etc)
- ✓ Customized shelf tags
- ✓ Narrow omni-channel gap

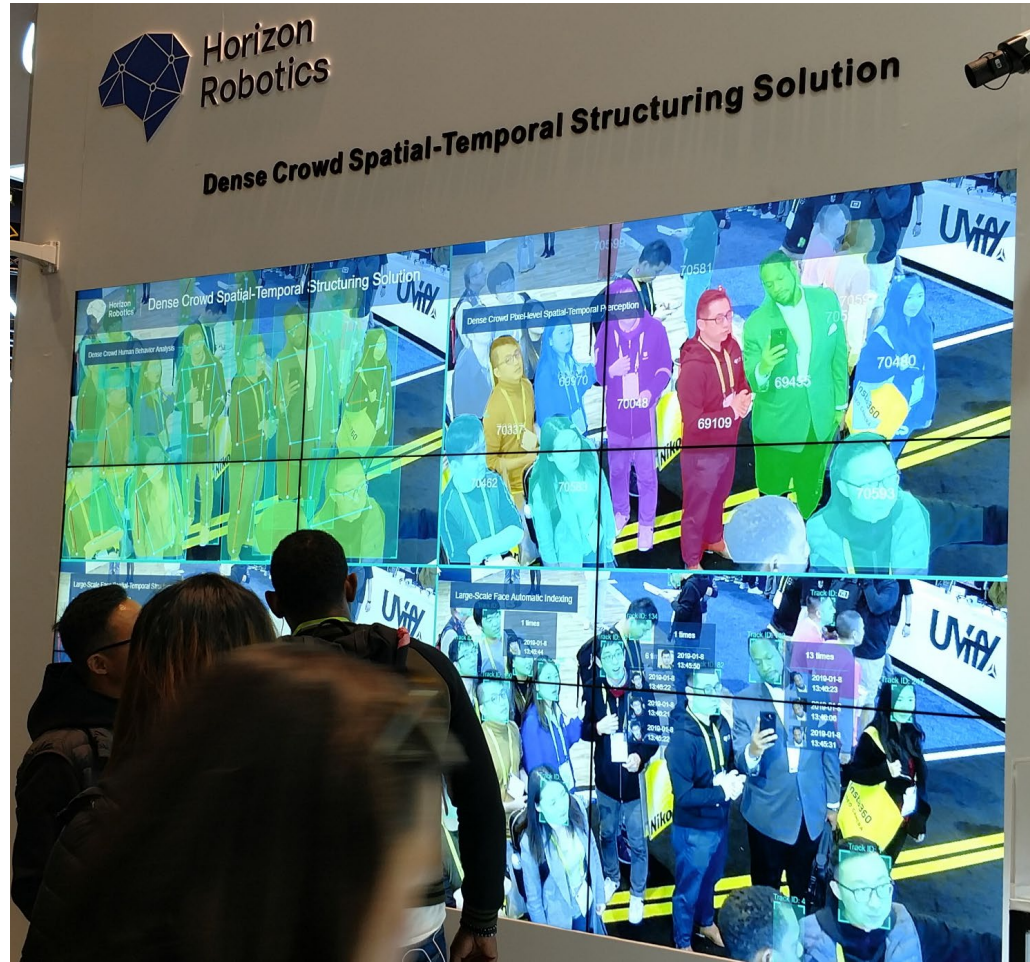
# Big Themes - Robotics

- Medical
- Education
- Social
- Retail
  - ✓ Click n Collect
  - ✓ Inventory management

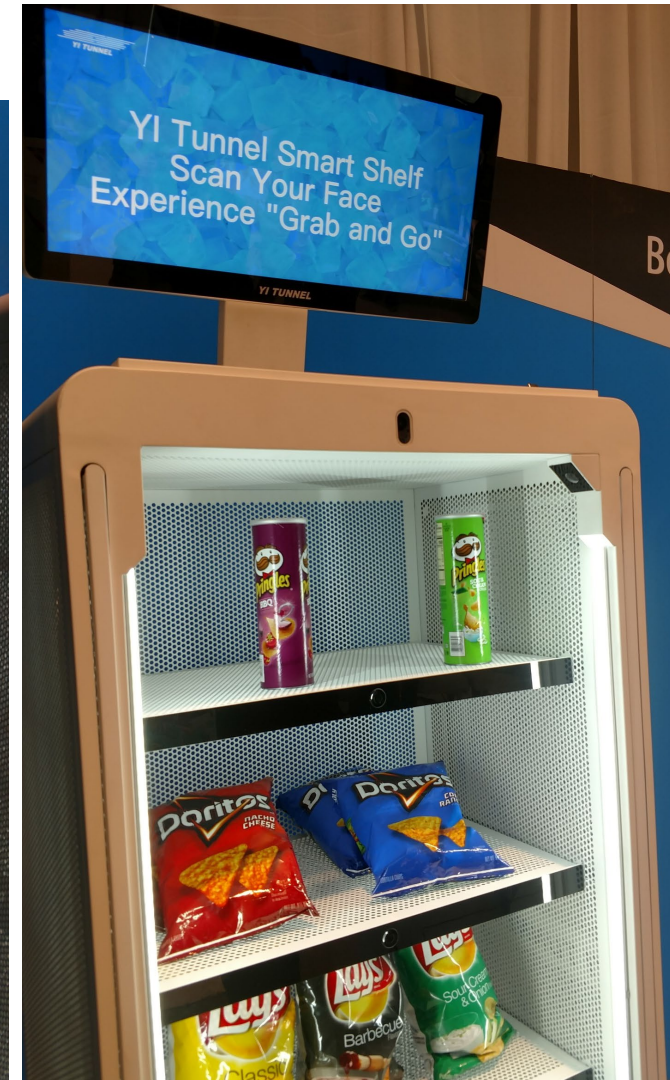
*“Deployment of tech is the easy part”*



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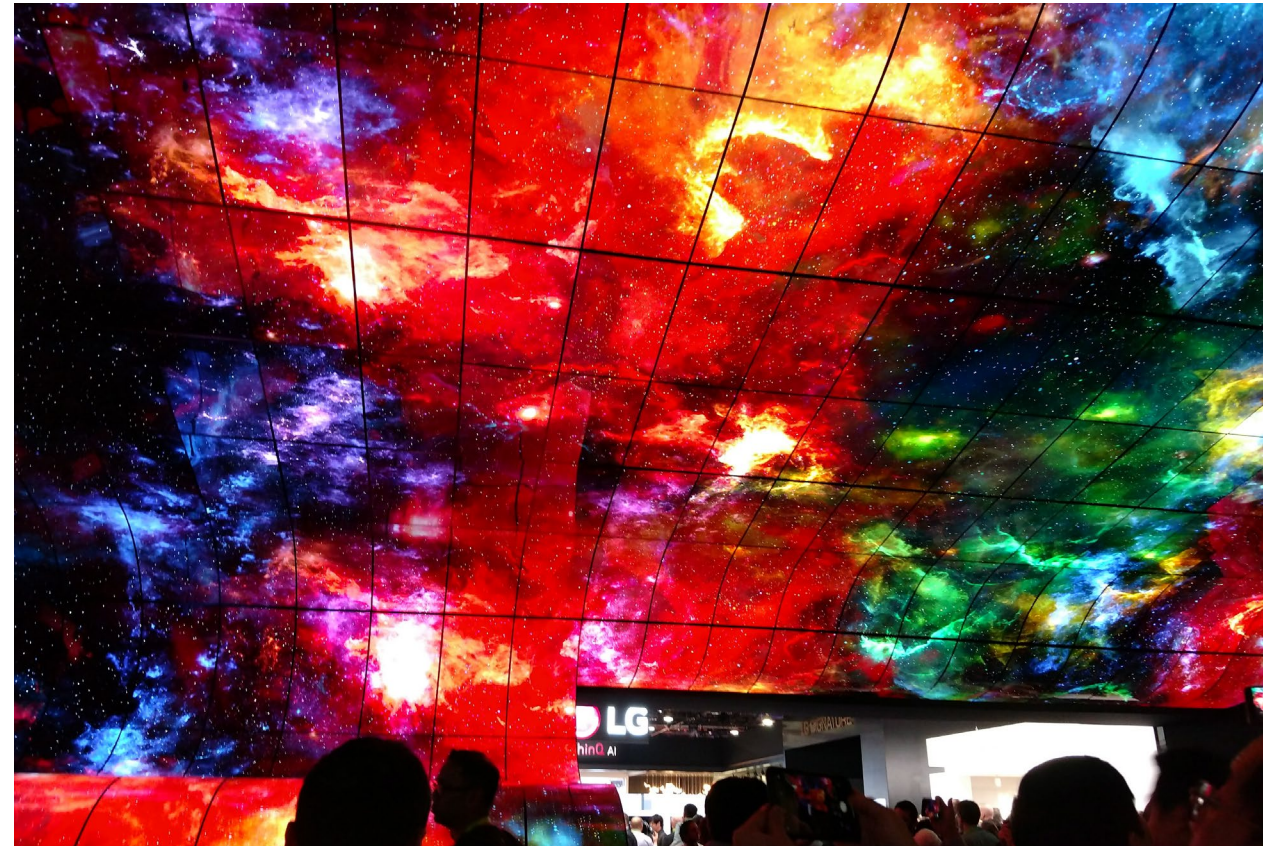
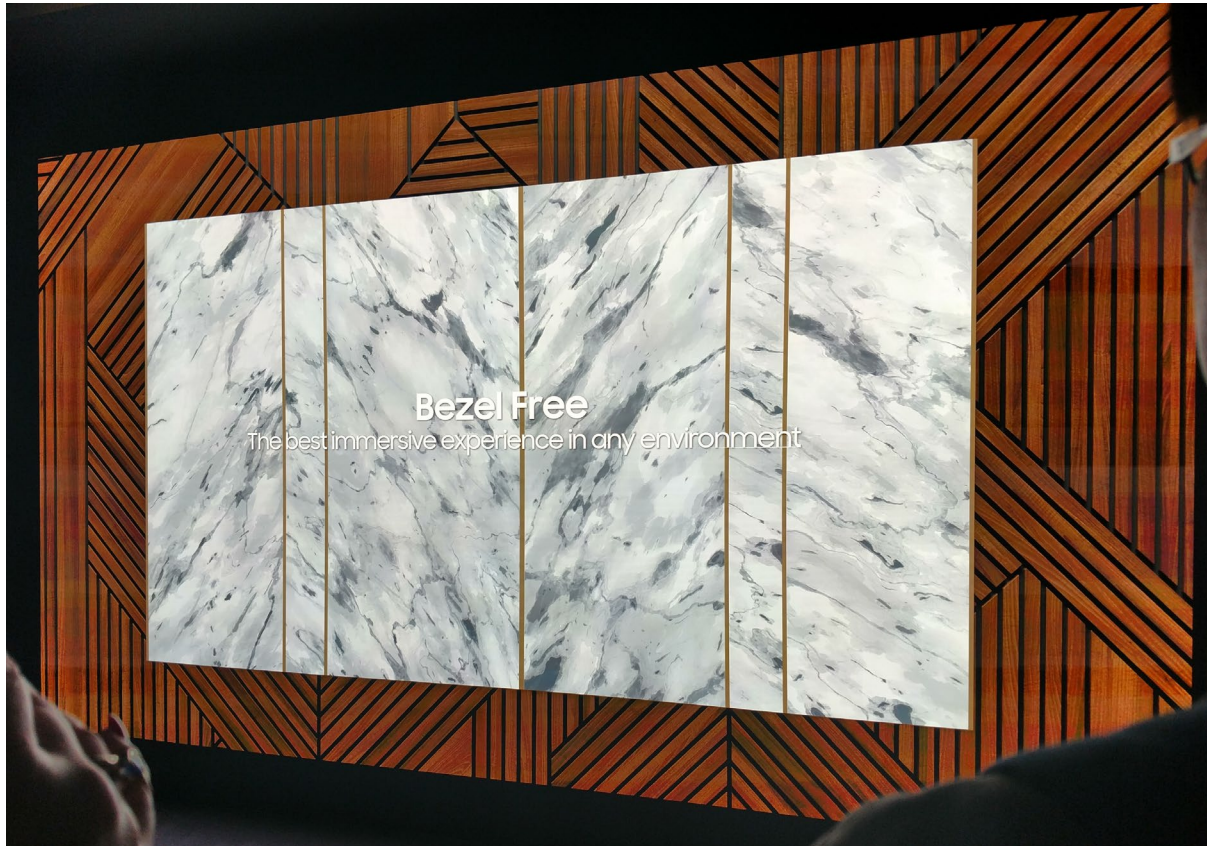




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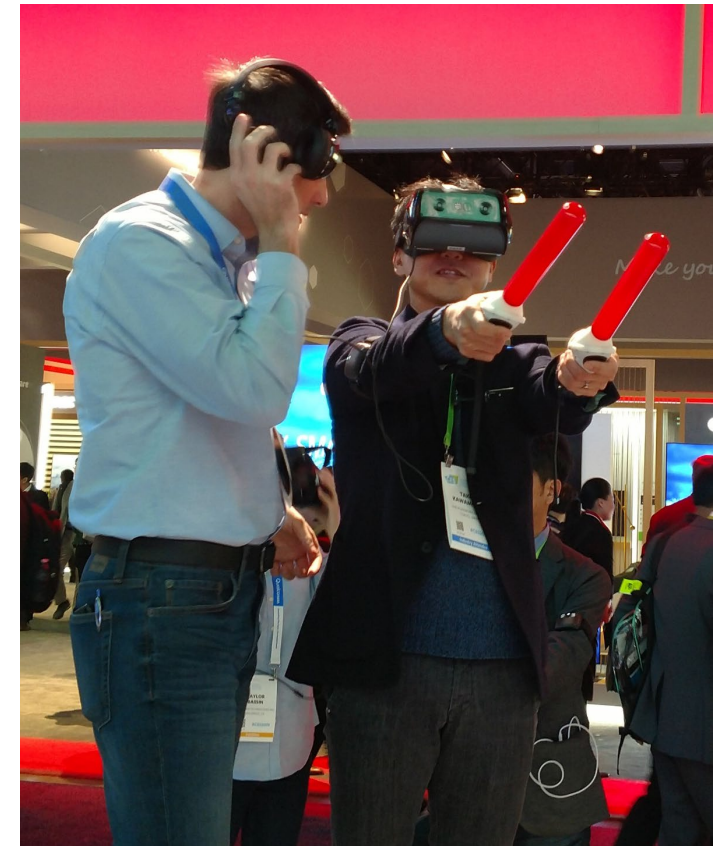
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