Markets and customers:

High-reliability products for high-value sectors

- Defence/Aerospace
- Energy/Telecoms
- Industry
- Medical devices
- Offshore/Marine

Logos of various companies associated with these sectors.
Innovation

Is the application of better solutions that meet new requirements
Report on 2025

- **Human 2.0**
  ...by 2025 we will witness a new breed of human 2.0 and 3.0 who have hacked their bodies. Super smart human prosthetic limb replacements that have greater functionality than the ones we were born with.

- **Brain uploading**
  ...it won’t be long before we will have mapped how the brain works and technology companies will be competing to host the “back up” of our brains online.

- **Mixed reality**
  ... the boundaries between real and virtual worlds will disappear as we overlay multiple layers of digital sensory augmentation over our physical environment.
Report on 2025

▪ **Robotics**
  ...by 2025 robots will have entered every aspect of human life... performing functions as diverse as nursing, complex surgery, policing, security, construction, hotel services....

▪ **Artificial intelligence**
  ...development of computer software that has the ability to mimic human’s brain to learn and adapt over time to changing circumstances

▪ **Internet of life**
  ... in the next decade up to 100 billion objects from smart phones to street lamps and our cars will be connected via a vast “internet of everything”
Evolution – Incrementally transforming the world

- Years it took to reach a market audience of **50 million**

  - Radio: 38 years
  - TV: 13 years
  - Internet: 4 years
  - iPod: 3 years
  - Facebook: 2 years

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**Kitron**  
Your ambition. Our passion.
Evolution – Incrementally transforming the world

- 50% of Fortune 500 companies have vanished since 2000
- 60% will face serious competition from companies that not yet exist
- 70% will see their business model fundamentally change in the next 5 years
You have to start with the customer experience and work backwards to the technology...

..what incredible benefits can we give the customer?

Is the application of better solutions that meet new requirements
Lessons on creativity:

4 monkeys and a ladder
Kitron’s Technological Roadmap - 2020

2015
- Additive Manufacturing (3D printing)
- Automation & Robotics
- Test Development
- Virtual simulation
- Augmented reality

2017
- e-commerce
- Autonomous technology
- Design

Kitron Your ambition. Our passion.
Automation and Robotics
Several EMS companies have invested in automation and robotics – High Volume

Kitron is developing automation systems for high mix – low and mid volume environments

- Right combination human-machine. Automation with common sense
- Highly educated and motivated workforce – facilitates new technology introduction

2017
2018
2019
2020
E-commerce
e-commerce:
The buying experience

- Giving people what they want using IT tools
- We can’t force them to use the tools we want
- Reaching everybody
  - Digital Natives
  - Old Generation (not old people)
  - Everybody else in between

- Services provided with as little human interaction as possible
  - RoHS
  - REACH
  - Conflict Minerals
  - Life Cycle Analysis
  - Component Selection
  - Last Time Buys
  - Replacements
Augmented Reality
Augmented reality:

Great potential in production

- Replacement for paper work instructions
- Less than $150 in hardware per station

QUALITY
- Increasing the likelihood that the correct procedure is performed

TRAINING
- Accelerating training of new employees – quick growth

OPERATIONAL EXCELLENCE
- Assessing accuracy and timing of tasks, so they can be improved
Food for thought

- Higher cost countries – Competitiveness through technology
- Advantage on adopting technology, not just developing it
- More IT solutions – not a common language
- Move from reactive to predictive and preventive (AI)