How Korean companies can tap onto the growing opportunities





Objects that are connected, virtualized, and imbued with **data measurement** capabilities

Giving physical and virtual objects an **identity**

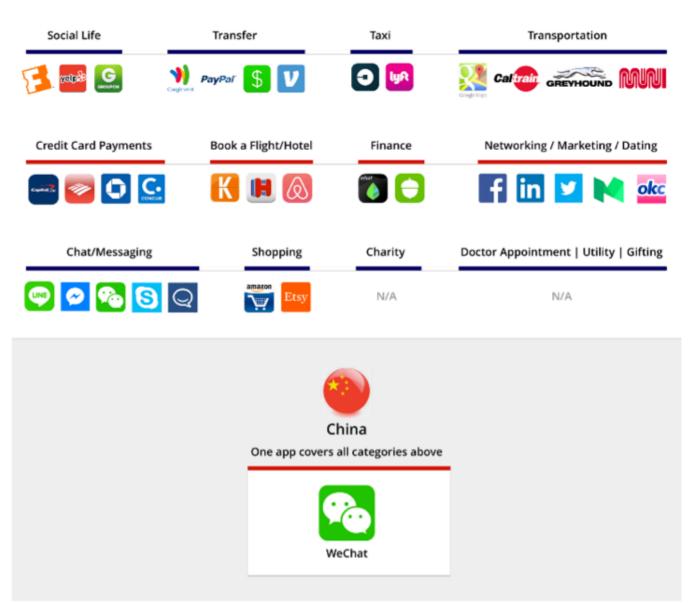
Interconnecting
the objects that
can **monitor and interact** with each
other

Ability to generate real-time **insights from data** and incorporate into existing business processes

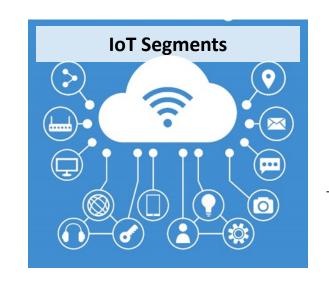


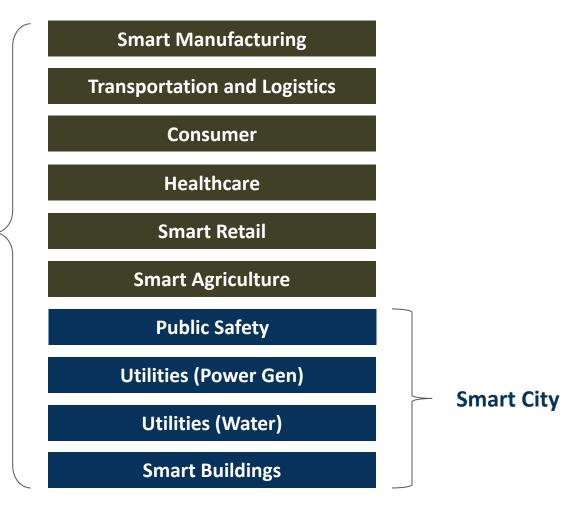
The rise of the super-app

IoT enabling data outcomes

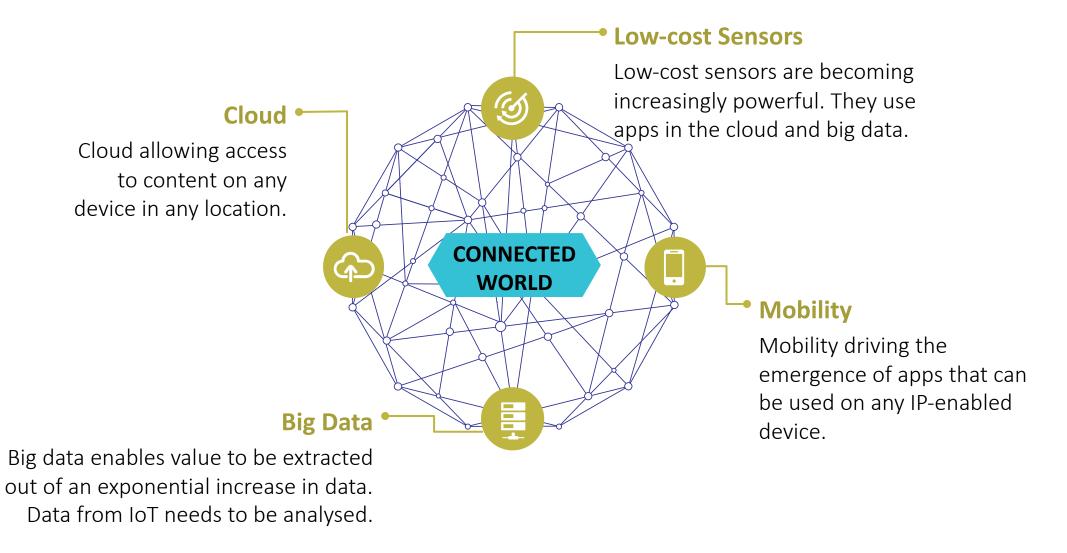


IoT market segmentation

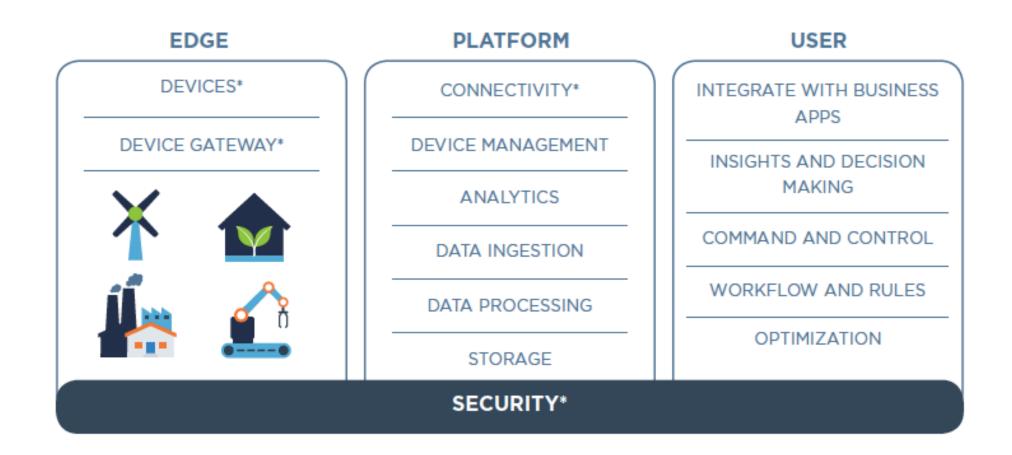




Convergence enablers



IoT ecosystem



Opportunities in Industrial IoT

Asia Pacific Industrial IoT market



\$24.4B 2022

\$6.9B 2016

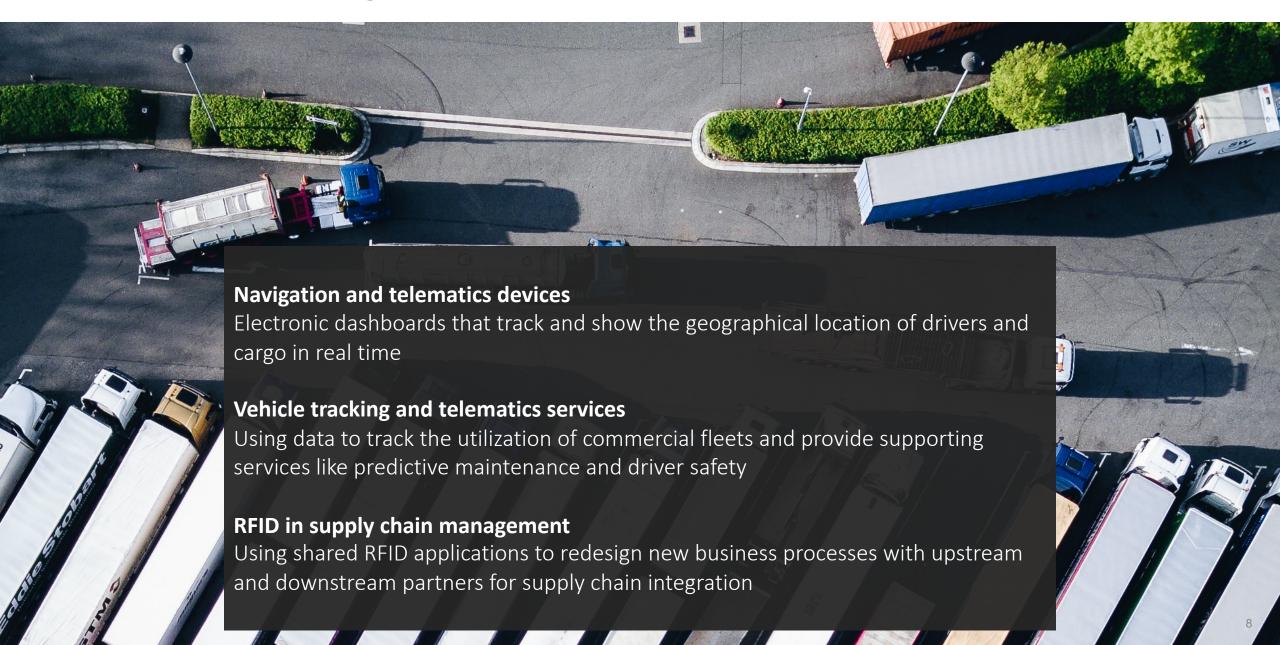
•Industrial is underserved for IT

- More data that needs to be transmitted
- More data connections required
- More storage on private, hybrid or public clouds
- More system integration
- More cybersecurity advisory

loT top 3 spendingLogistics
Transportation
Industrial

23B
Connected
devices and
sensors

Transportation and logistics use cases



Impact of megatrends on industrial companies



Trends in safety and surveillance leading to the rise of IoT



Need to Curtail the Crime Rate

- The need to control the crime rate at a global level is an absolute necessity.
- This calls for greater investments.
- This in turn will open up opportunities for surveillance system suppliers.



Smart City Initiatives

- Smart city initiatives are being adopted by major cities at a global level.
- These seek to ensure supreme standards of safety using the most advanced technologies.
- This generates opportunities for surveillance system providers.



IoT and Smart Analytics

- Analytic solutions that are being deployed for surveillance systems are becoming smarter and moving towards the IoT.
- With predictive and behavioural analytics expected to evolve in future, analytic solution suppliers can find a plethora of growth opportunities.



Modernisation of Legacy Cameras

- Drawbacks of analogue cameras such as poor image quality and poor resilience have led to smarter and more robust digital cameras in the market.
- Decreasing IP cameras prices are expected to create opportunities



Efficient Storage Management

- The increasing adoption of surveillance systems creates the need for efficient storage management.
- Storage suppliers
 with smart multilayered hybrid
 storage capabilities
 will find plenty of
 opportunities in the
 market.

IoT solution for oyster growing

Oysters filter nutrients.

They are especially sensitive to changes in water quality.

Influencing factors on growth:



Water temperature



Water salinity



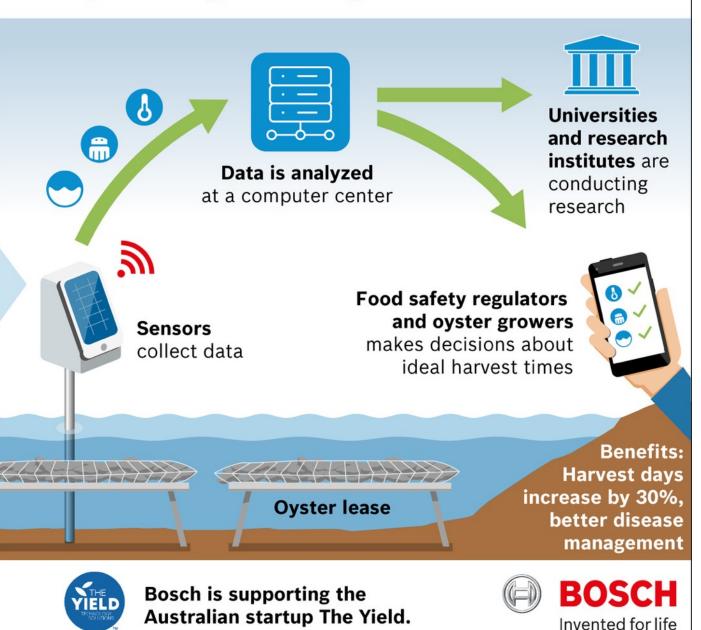
Water levels

Climate change alters these conditions.

Can lead to:

- Higher chances of oysters getting affected by viruses
- Crop failures more probable

Sources: The Yield.com, Bosch

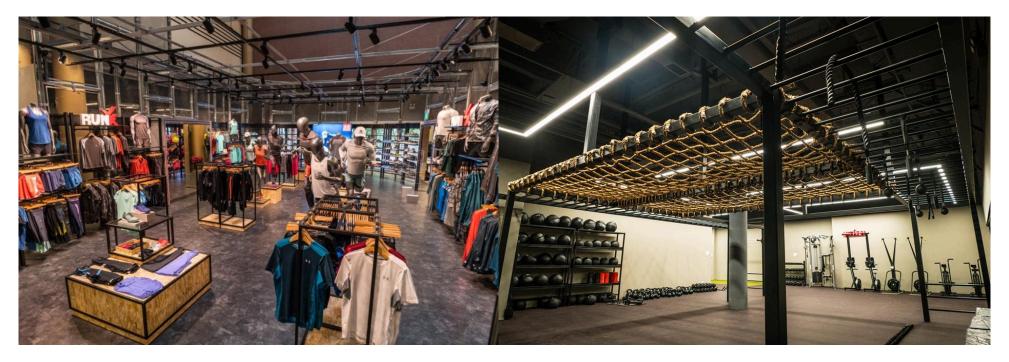


IoT-enabled smart retail project with Under Armour





Singapore's ultimate fitness performance + retail hub



Providing business outcomes through data

Management

Data to make operational and business decisions

Marketing

Assess and optimize campaigns and community events

Visual merchandizing

Enhance brand interaction and hot/cold zones

Retail operations

Identify popular items and seasonal trends

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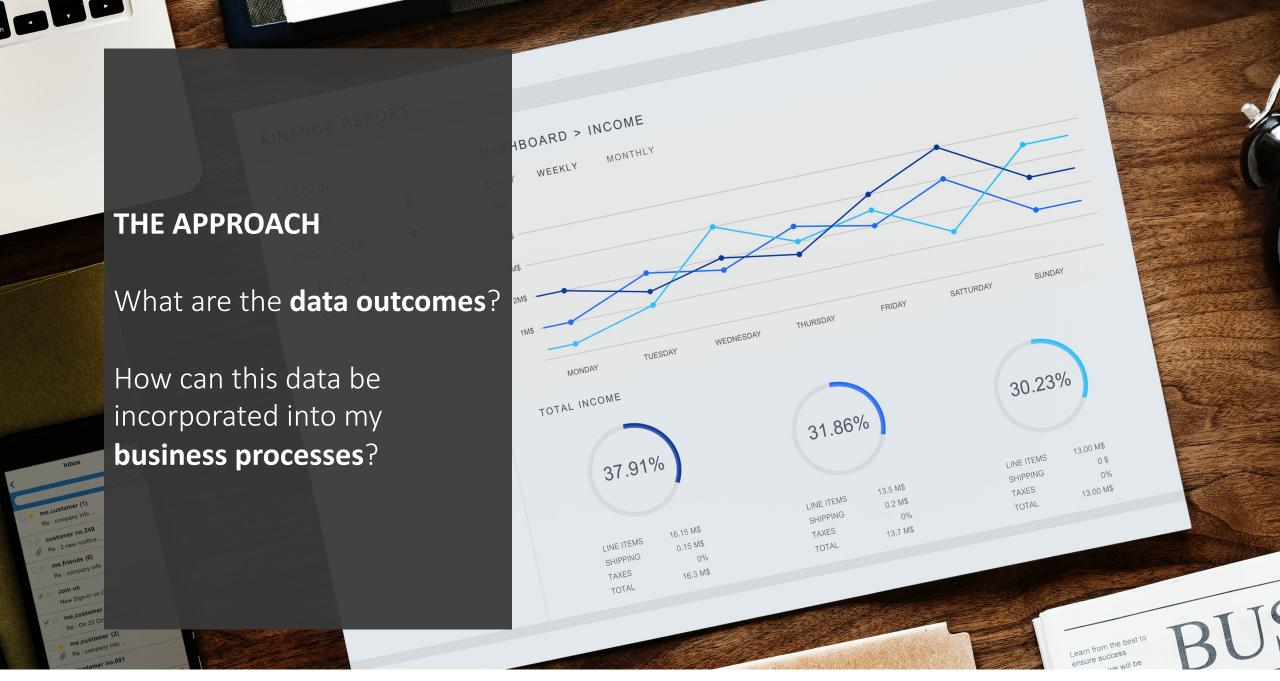
THE NEED

Industrial companies are starting to face challenges that require them to react and change in order to remain competitive.

To meet the needs of the consumers of tomorrow, industrial companies **need** to adapt and offer unique products targeted at profitable sub-segments, with highly flexible and agile operations.







How Korean companies can tap onto the growing opportunities

