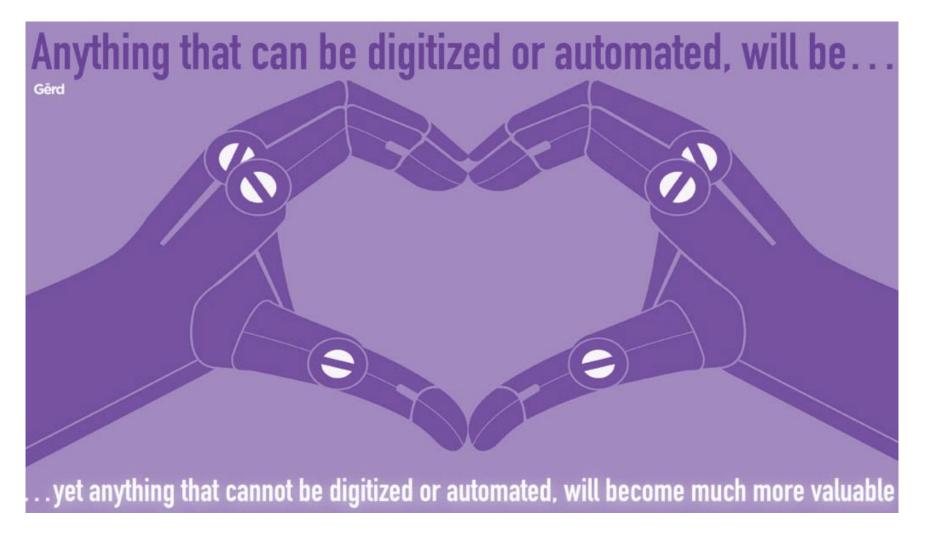
Internet of Things

Arnaud Brolly





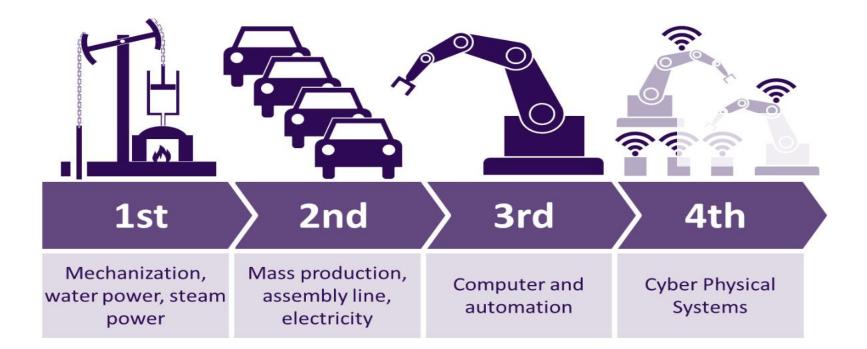
Gerd Lheonard Prophecy







Internet Of Things is a catalyst for the 4th industrial revolution

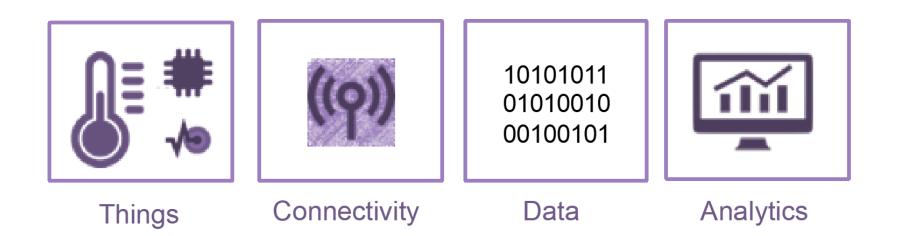






What is Internet Of Things

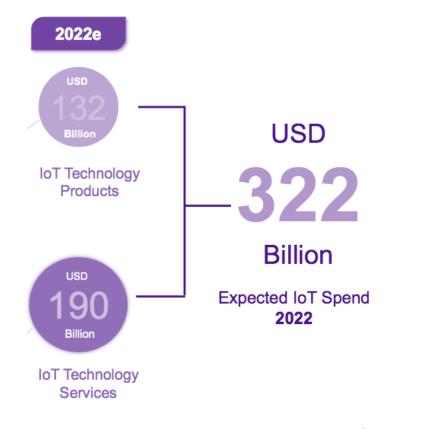
The Internet of Things (IoT) is the internetworking of physical devices, buildings and other items—embedded with electronics, software, sensors, actuators, and network connectivity that enable these objects to collect and exchange data







IoT market trends



5m daily new devices connected (2016)

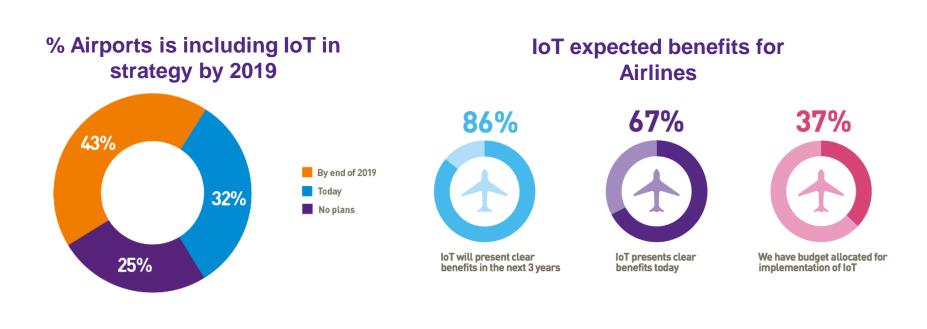
- **50b** total number of connected devices (2020)
- **10%** of data on earth Will be produced by IoT machines (IDC)



Sources: Microsoft, internet search



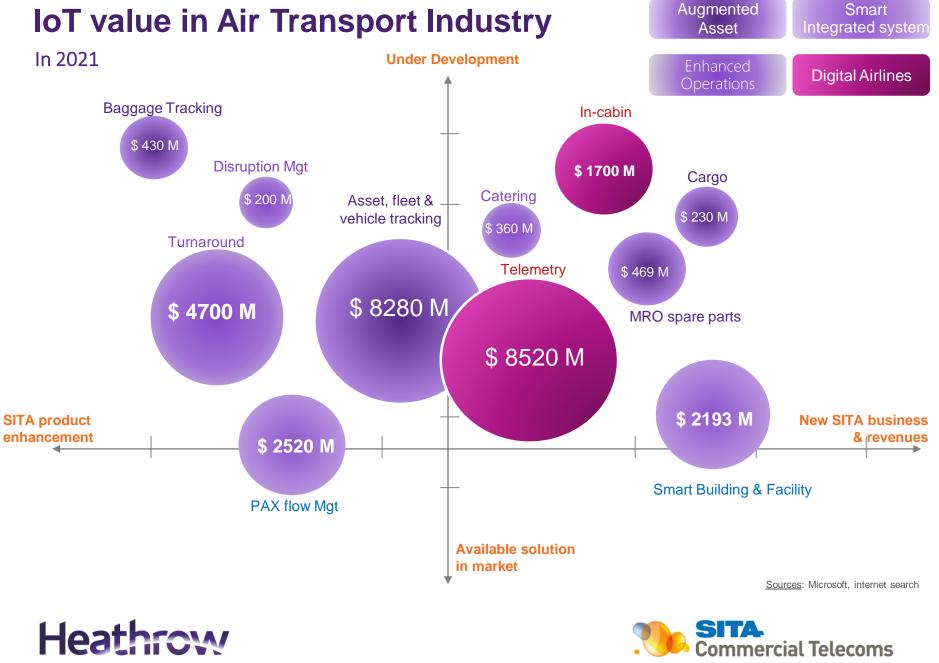
IoT market trends in Air Transport Industry



Sources: Microsoft, internet search



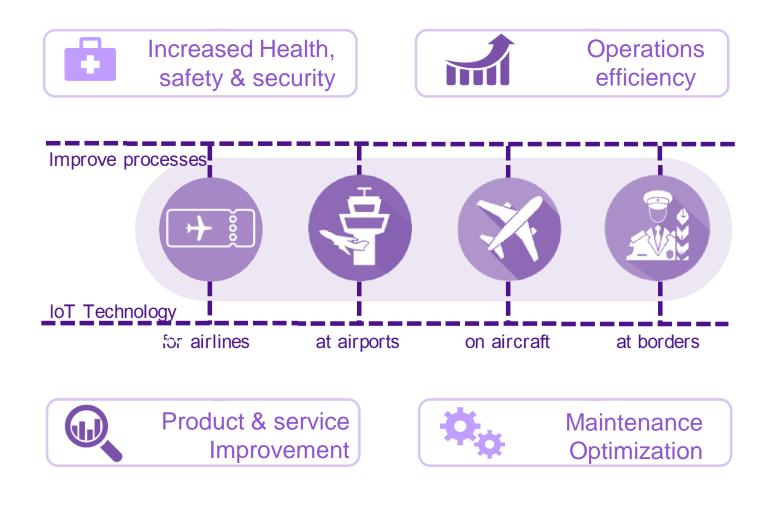




7 | IoT program strategy | Confidential | © SITA 2017

Source: Altran IoT consulting

Enabling Airlines & Airport Digital Transformation





Sources: Microsoft, internet search



Airport Telemetry

- Measure presence of an agent at the departure counter
- Indoor Small Bin Sensors to measure garbage level in a bin
- Outdoor Large Bin Sensors to measure garbage level in a bin
- Measure water level in the pond

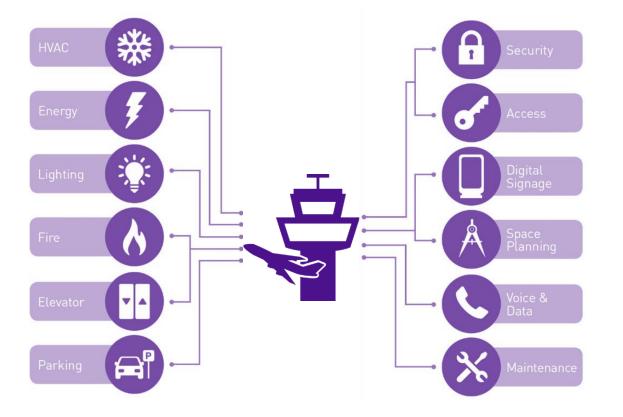






Smart Integrated system

Connect physical devices, buildings systems and sensors on integration platform.



- Work order Management
- Building Management integration
- Energy management

- Improve operational efficiencies
- Reduce energy cost and waste
- Improve reporting & dashboards

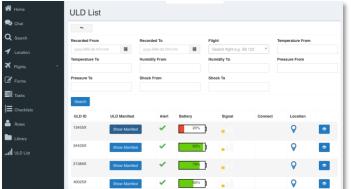




Cargo - Smart ULD (Unit Load Devices)



- Enhance process efficiency
- Minimize disruption impacts
- Provide full visibility of Operations & share data







ALF 25145 C

IAL CARGO

MUCARGO

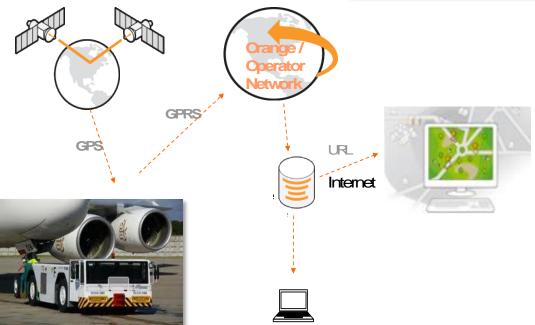




Fleet Management



- Ensure moving asset is in place in accordance to schedule
- Fleet performance asset tracking (rotation, delay...)
- Activity report (including stand-by time)
- Asset Traceability & security







Wheelchair tracking

- Generate real-time data on wheelchair & agent movement at airport
- Record WCHR idle time
- Analyze escort walking distance
- KPI dashboard







Digital airlines

RFID bag tag



MRO



Aircraft Health monitoring



Hard Landing







Lesekkyrler SALAMAT DIK BE Khyblei TAK Ngiyabonga kammagar TAK KIILOS a danke Diakuju Idhalo Suwun P.S grassie Спасибо! dagnk ТАКК ASANTE GRANTANG KK daank Kammagar ش Хвала hvqlq Dik DANKE GRAZASC Grassie kammagar KiiTos X Suwun KiiTos Juwun KiiTos DANKE TAK grazas





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