IoT infrastructure

State of art

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Plan

Context

Introduction

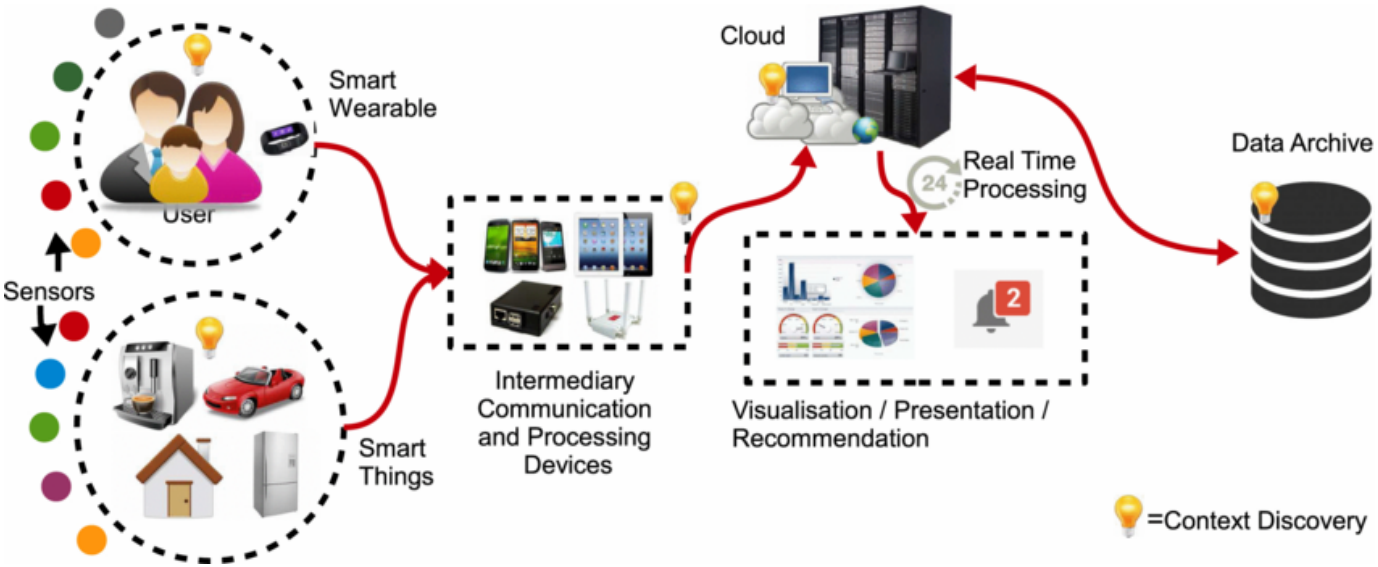

Figure 1: The IoT Platform

- Connect sensors to the gateway.
- Connect the gateway to the infrastructure.
- Store & Analyze sensors data.

Problematic

Introduction

Figure 2: The IoT problematics

- How to communicate sensors efficiently
  - IEEE 802.15.4, 6LowPAN
  - Throughput, Delay, Jitter, Loss rate and Availability.
- How to communicate sensors with the infrastructure efficiently
  - LPWAN, LoraWan
  - Interoperability ?
- How to extract knowledge from sensors data.
  - Data mining: Classification, Clustering
  - Deep learning: Machine learning

Plan

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Use cases

Standardization

References