

التدريب الصيفي 2
SUMMER TRAINING 2

التدريب التقني المتقدم لمعمل إنترنت الأشياء

لصيف ١٤٤١ هـ - ٢٠٢٠



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وادي طيبة
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What's IoT:

Internet of Things

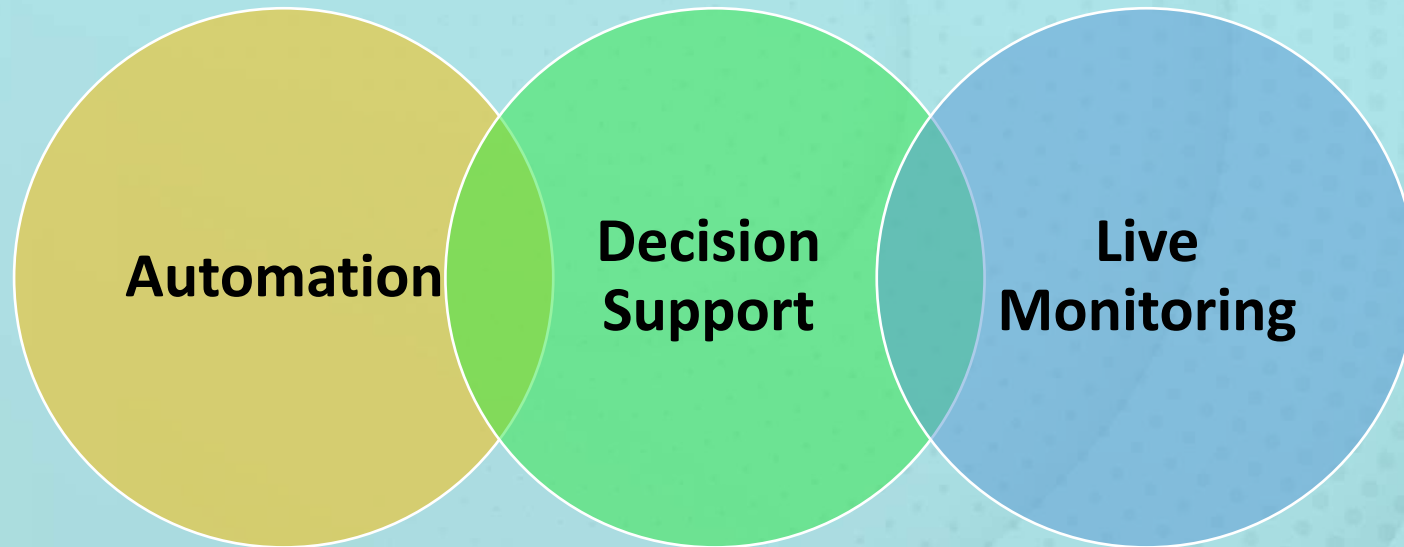
A new generation and advanced network that integrate **physical objects** and enable them to **communicate** and **share** information through the **Internet** to **perform** specific **functions** and **make decisions** automatically.



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IoT Main benefits



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26,66 billion

Installed IoT devices in 2019

16\$ billion

KSA investment in IoT

5 smart cities in KSA

Riyadh, Makkah, Medina, Jeddah, and Dammam



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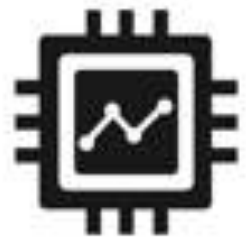
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IoT Technology Stack



Device
Hardware



Device
Software



Communications

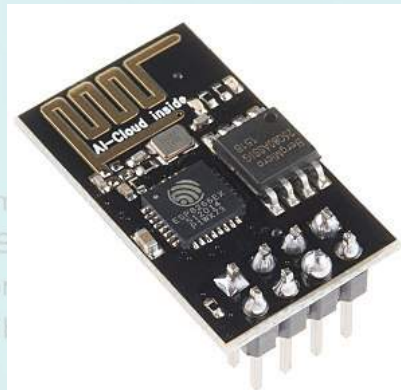
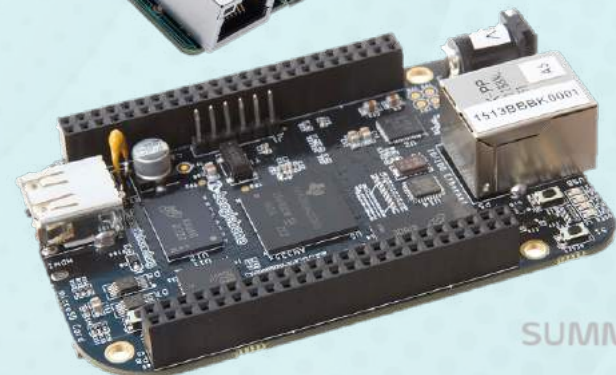
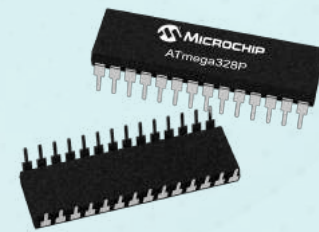
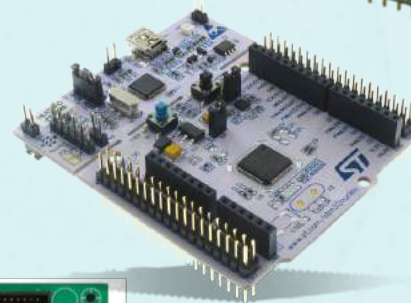
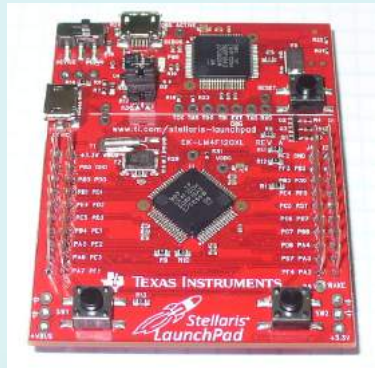
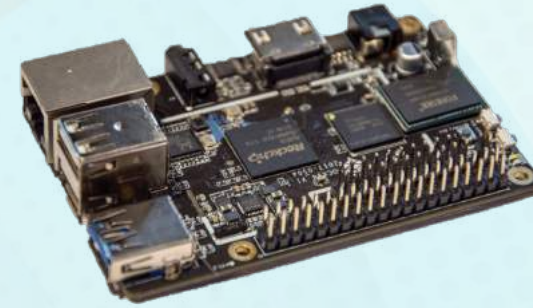


Cloud
Platform



Cloud
Applications

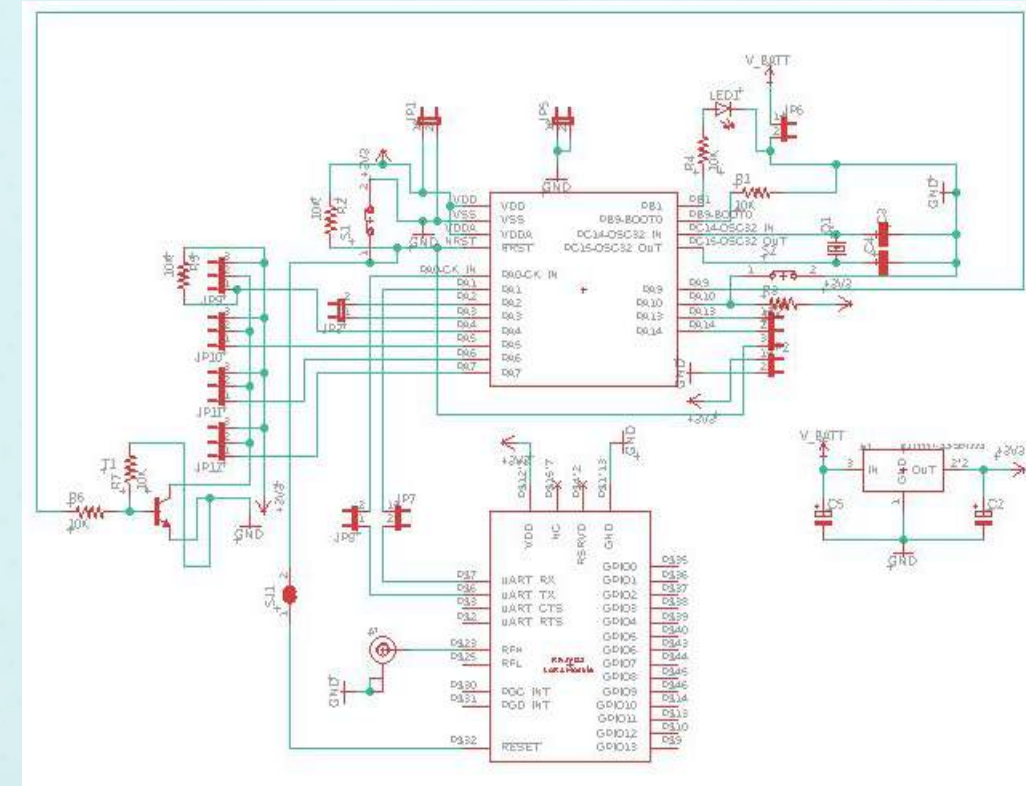
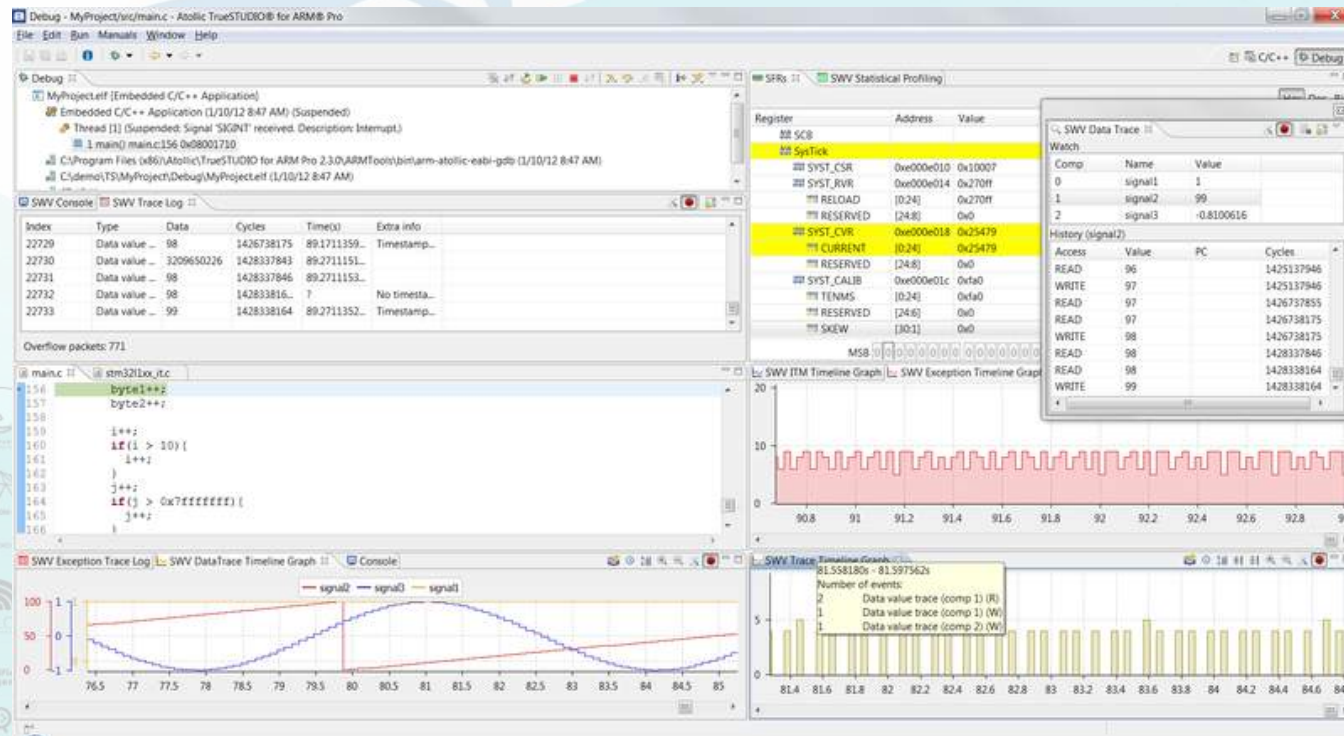
Hardware Selection



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Firmware development & schematic design





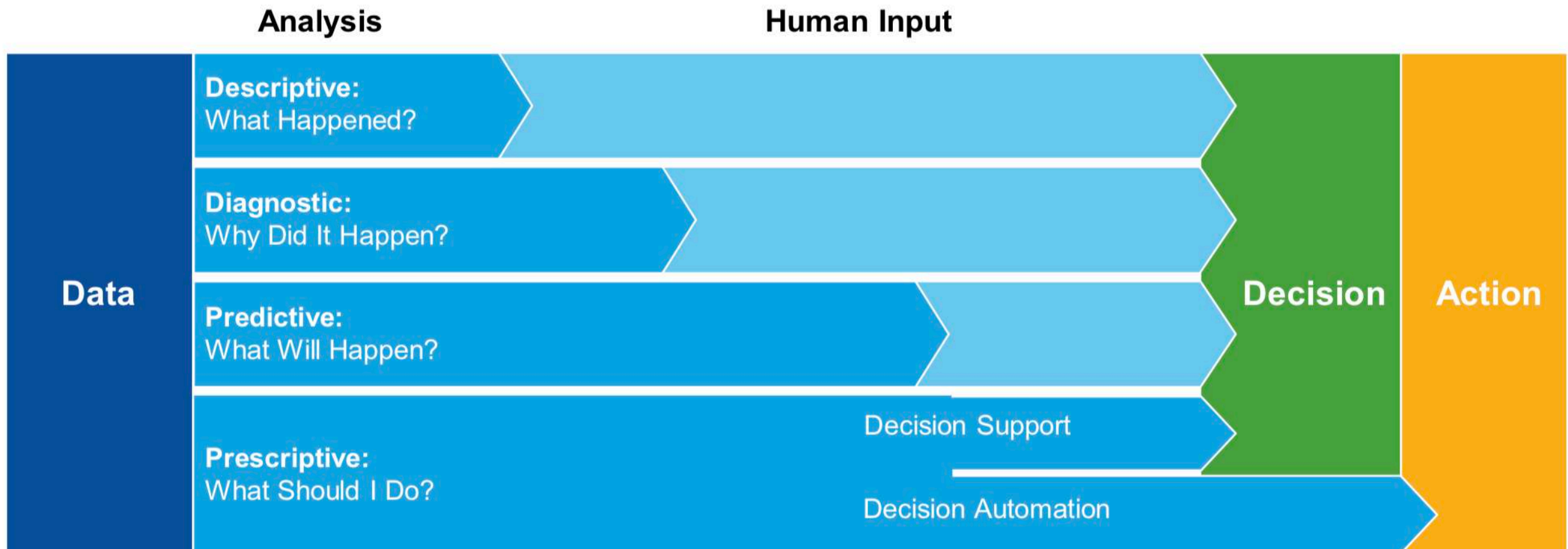


IOT Technologies and Protocols



IoT Analytic

From descriptive to predictive



What is a cloud?

A “cloud” is a computer system that provides users with shared access to on-demand computing resources via the internet.



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Why is it Useful?

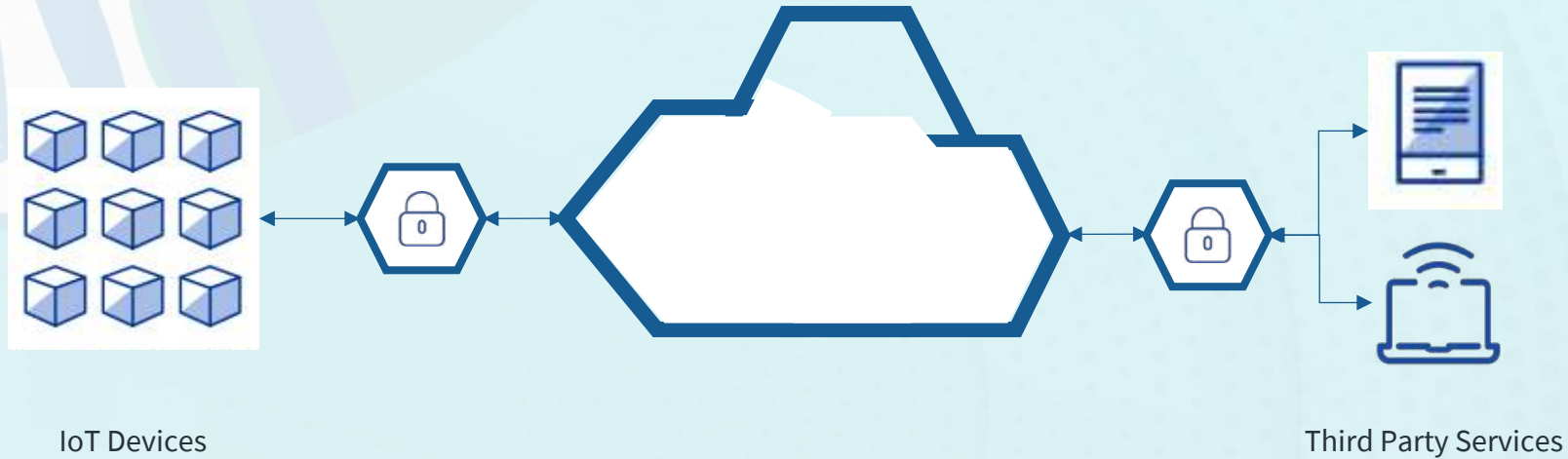
- Resource Utilization
- Scalability and Elasticity
- Reliability through redundancy
- Cost saving



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IoT Cloud



IoT cloud services

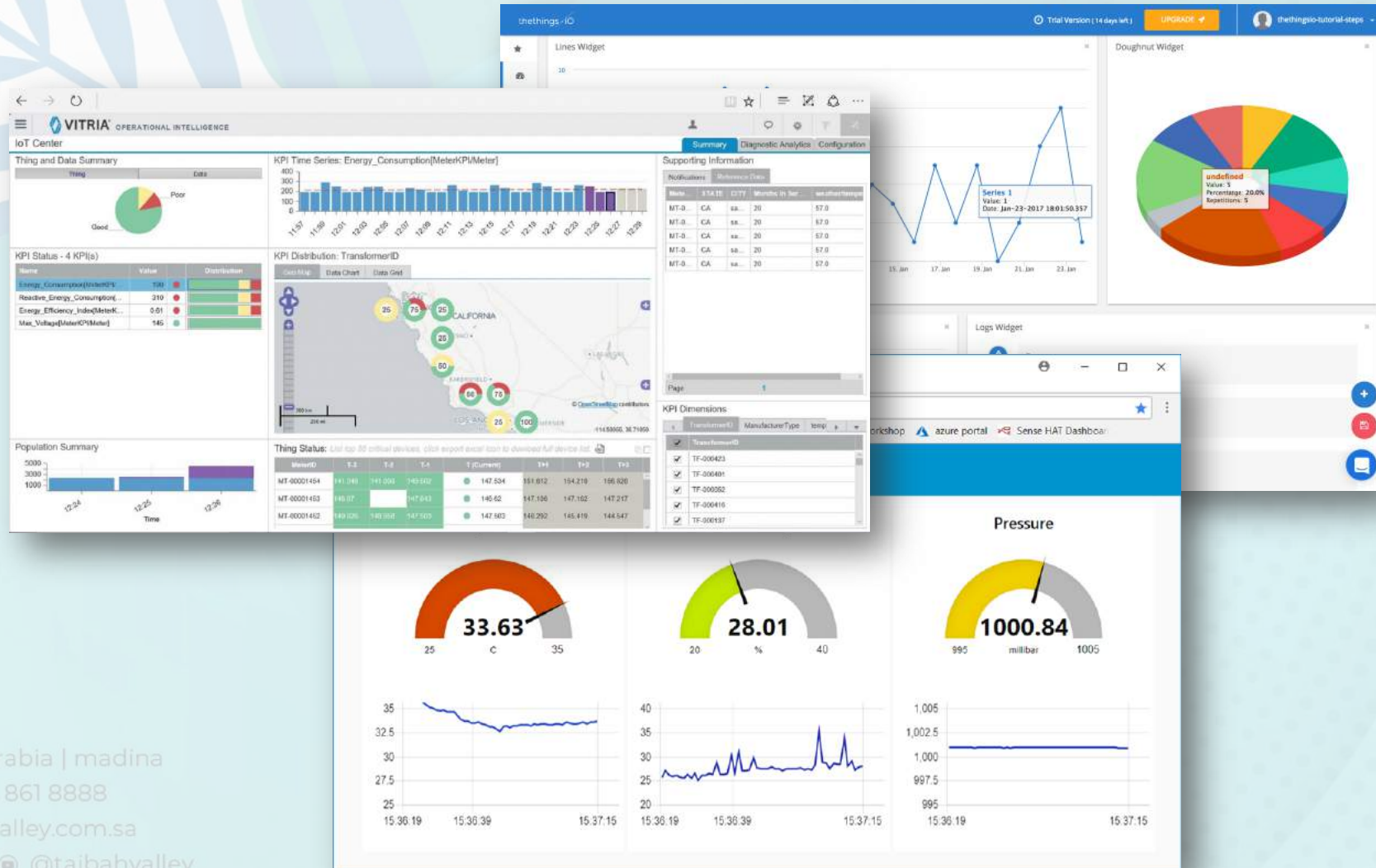
- Add, organize, monitor, and remotely manage IoT devices at scale.
- Connected devices interact securely with cloud applications and other devices.
- Manage the received data, process it, store it, and redirect it.

Top Cloud Platforms with IoT services



IoT Dashboard

Monitoring and controlling your things



Thank you



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