

Seamless Smart Cities Deployment

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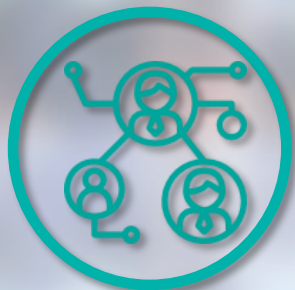
“What makes a smart city is its use of Smart Computing to deliver its core services to the public in a remarkably different manner”

Forrester Research



Challenges

CITIZEN ISSUES



Ability to resolve citizen issues faster and easier

REGULATION



Need to conform to regulatory/compliance demands

INNOVATE



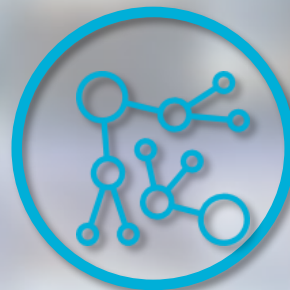
Need to innovate public services by providing digital services

RESPONSIVE



Be more responsive to trends and user demands

COMPLEXITY



Multiple standards, systems & datasets

PRODUCTIVITY



Provide the right tools to enable improve productivity

Standardising IoT

HellIoT is a standardised interoperability IoT platform based on the OneM2M global standards initiative for Machine to Machine and IoT

The purpose of oneM2M:

- ▶ Develop technical specifications which address the need for a **common** M2M Service Layer embedded within various hardware and software
- ▶ **Connect** the myriad of devices in the field with M2M application servers worldwide
- ▶ Permit device **interoperability** between IoT platforms in different functional domains

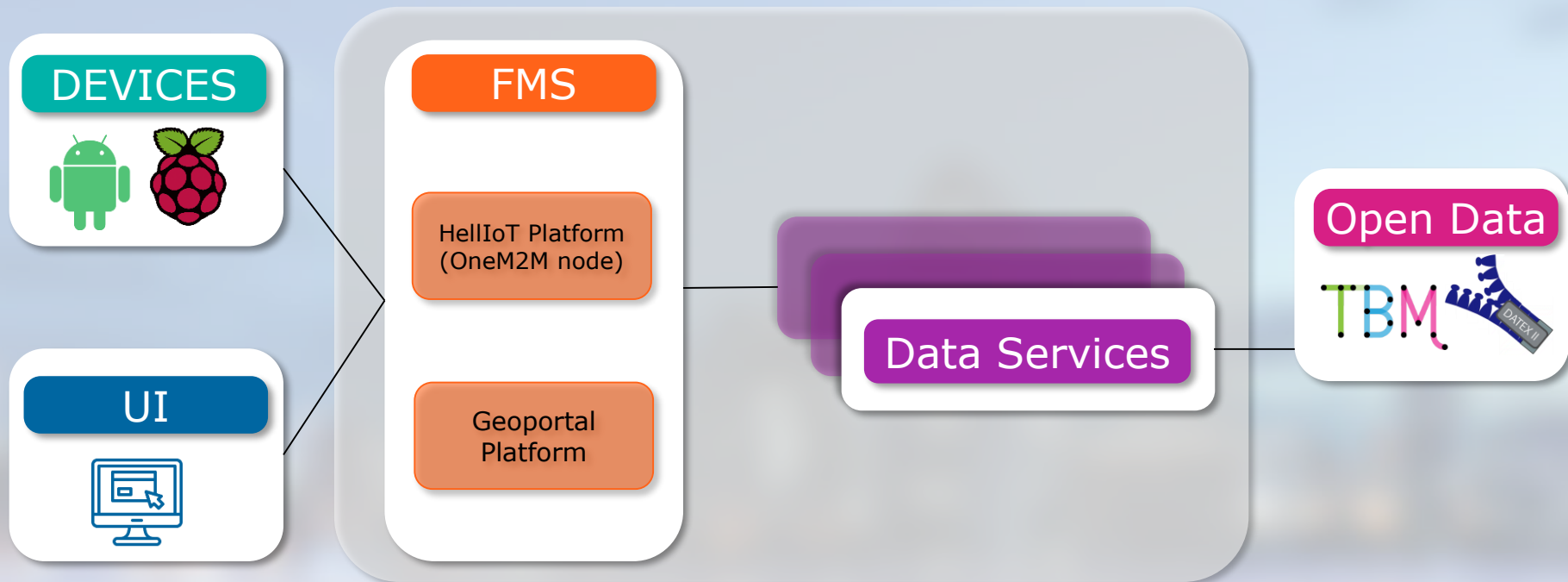
HellIoT

one
M2M

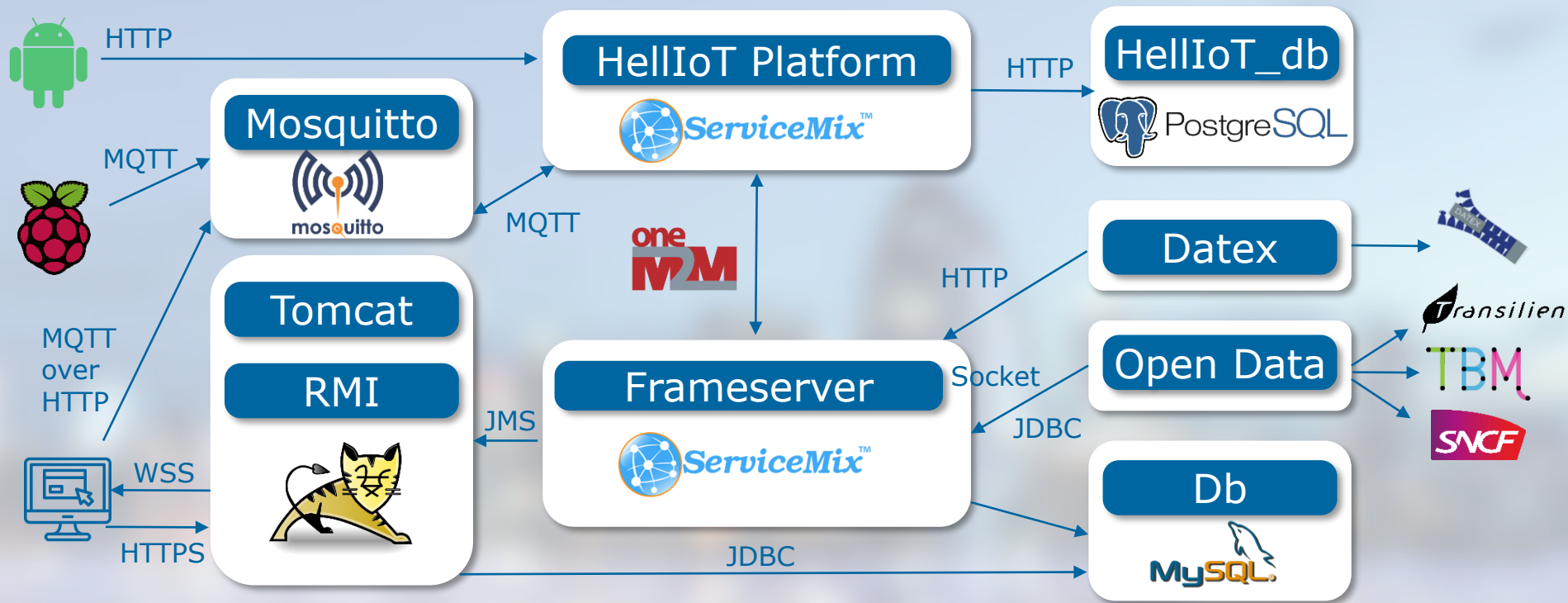


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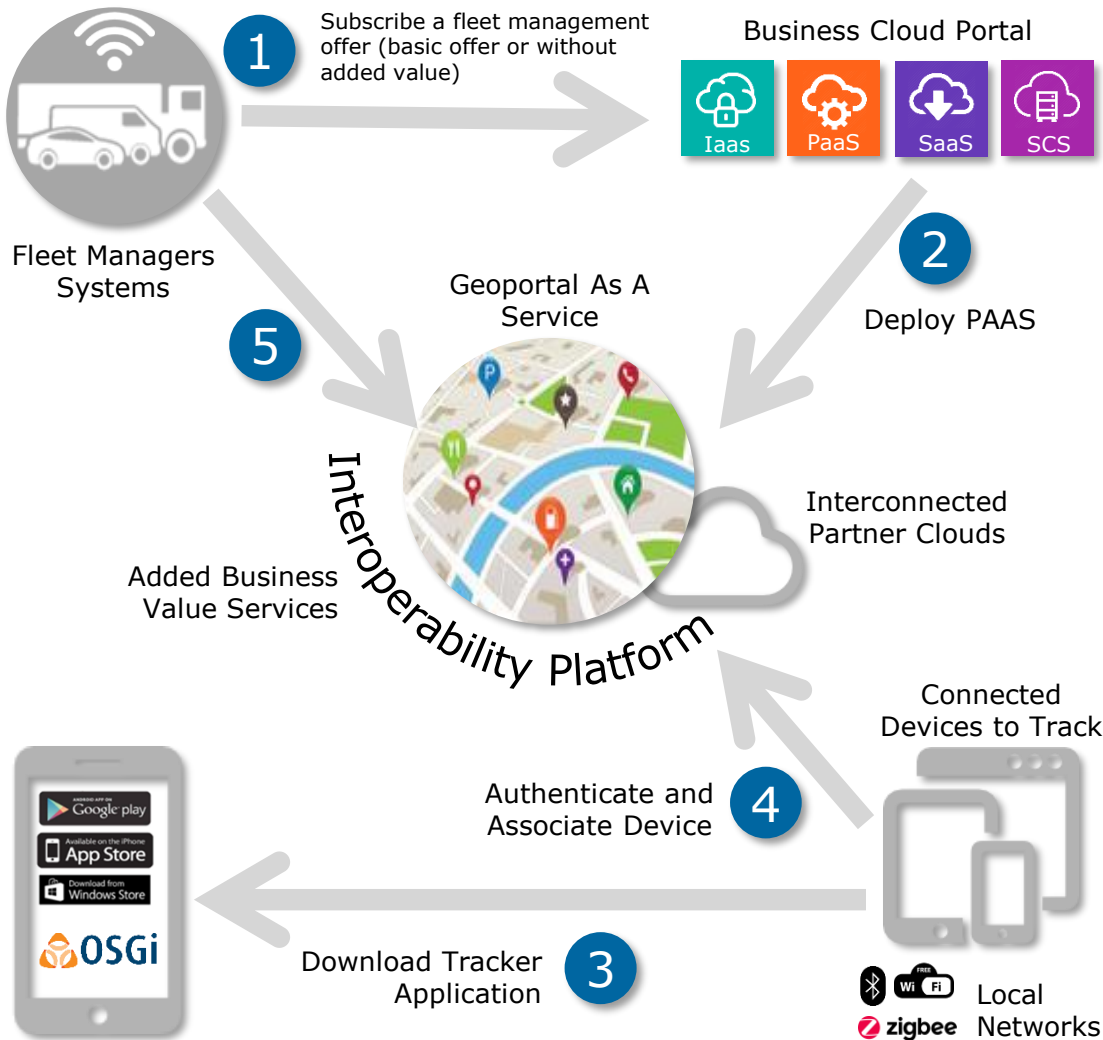
Functional Architecture



Container Architecture



Demonstration



Deploy a Geoportal IoT Service on Demand

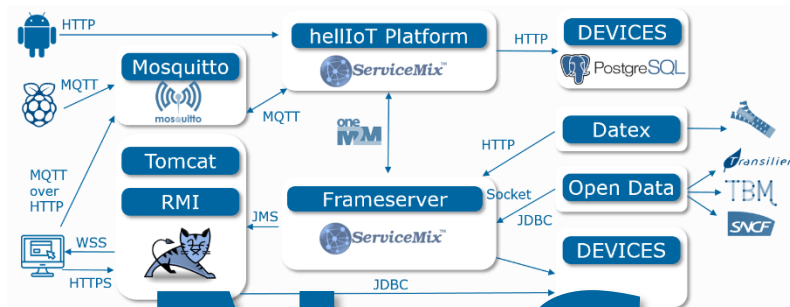
Deploy Atos Managed OpenShift

Step 1 - Deploy a fleet management system on demand

Step 2 - Deploy added services on demand

- ▶ Transportation open data service
- ▶ Train integration service
- ▶ IoT service
- ▶ Air quality service

Seamless Smart Cities Deployment



Atos



PRIVATE



openstack

Microsoft
Azure

OPENSIFT



PUBLIC



Google Cloud Platform

Microsoft
Azure

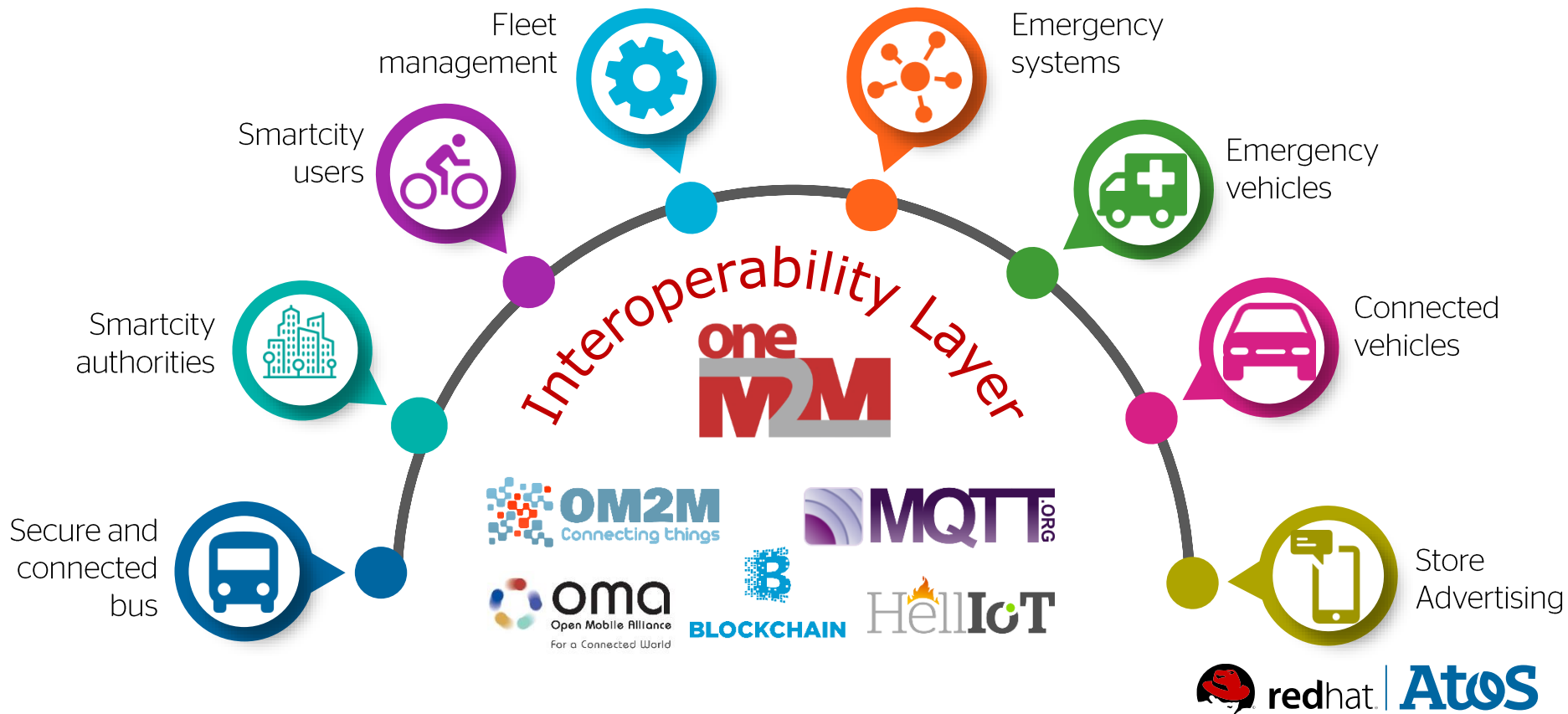
IoT Services running
as containerised
microservices

AMOS, fully managed
OpenShift platform
deployable on multiple
clouds with a click of a
button

“With AMOS and Red Hat OpenShift we are more focused on the value of our product and we spend less time on technical integration and server management”

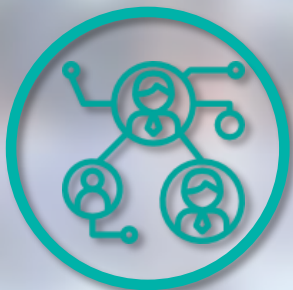
Lead Developer - HellIoT Project

A wide range of use-cases



Benefits

CITIZEN ISSUES



Deliver digital services to foster healthier living and better working environments

REGULATION



Built in security elements to protect user data

INNOVATE



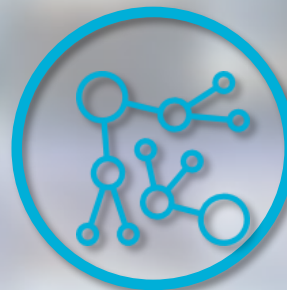
An extensible and flexible platform that accelerates innovation

RESPONSIVE



A flexible and agile platform that can match user demands

STANDARDS



A standardised IoT framework to ingest, analyse and present a myriad of data points

PRODUCTIVITY



Focus on value creation not IT operations or system integration

Any questions?

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Emerging Technologies and DevOps

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Thanks

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The Atos logo is displayed in white, bold, sans-serif font. The letter 'o' is stylized with a circular cutout in the center.