AWS Public Sector IoT Solutions

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Agenda

- Partner Success Stories
- Smart Territory Framework
- Demos and Q&A





Air pollution control

Controlling CO, emissions of factories and monitoring car pollution

Citizen services

Digital administrative services, citizen engagement platforms, city call center/chatbot, queue management, etc

Building management

Smart lighting/Public Safety
Connected/smart lamp posts with
intelligent video surveillance and crowd

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management

Automation and optimization of services such as heating, energy, usage, lighting and ventilation

Smart water

Water network asset management, AMR/MDM, water quality and level monitoring, leak detection/NRW, utility digital twins

Smart transport

Connected public transport, public fleet management, optimizing traffic flow, anomaly detections

Smart energy

Automated Meter Reading, Smart grid with Condition monitoring and predictive maintenance, Virtual Power Plants

Smart Waste

Waste bin/fleet management, optimizing collection route, add camera for road asset management

Urban connectivity and data platforms

5G/Wifi/Lorawan, cross-sectoral data platforms, open data platforms, smart spaces

AWS Smart City Competency

Best-in-class AWS Partners with proven customer success and deep technical knowledge across Smart City areas: urban data platforms & insights, urban infrastructure, and citizen services.



Identify

Customers can easily identify a shortlist of offerings on AWS Partner Solution Finder on a desired Smart City area, be it water, lighting, or citizen engagement, to name a few.



Validate

AWS Solution Architects validate these offerings following best delivery practices and sound architecture.



Promote

AWS provide resources to showcases these offerings to customers, partners and sales teams. AWS also build a community of partners for collaboration.



AWS Smart City Competency Partners 2022



Urban Data Platform/Digital Twins Asia



Urban Data Platform Global



Smart Waste North America, Asia



Urban Data Platform Geos: Asia



Urban Data Platform/Digital Twins North & South America, Europe



Smart Urban Energy Asia, North America, Europe



Smart Transportation North America, Europe



Urban Data Platform Global



Smart Transportation North America, Europe



Smart Waste
Geos: North & South America



Smart Transportation
Geos: Europe & North America



AWS FOR SMART CITIES URBAN DEVELOPMENT

Improving City Operational Efficiency with Urban Analytics AI Platform

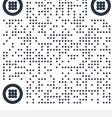
Quantela



AWS Partner Quantela, with offices in the United States and India, assists the City of Coral Gables, Florida, with an Urban Analytics AI platform and Quantela Traffic and Lighting.

The solutions run on Amazon EC2 and uses Amazon S3 to store IoT data for analysis.

The platform normalizes data and gives city managers and administrators a single dashboard view to make data-driven decisions that help the city run more efficiently and effectively, reduce operating costs, and generate new business opportunities.



Read the case study











AWS FOR SMART CITIES URBAN DEVELOPMENT

Improving Traffic and Safety through Remote Management Solution





City of Detroit implemented a remote traffic management system based on TrafficLink by AWS Partner Miovision at 450 intersections.

TrafficLink runs on Amazon EC2, AWS IoT, Amazon Kinesis and AWS Lambda functions, and stores data in Amazon DynamoDB and Amazon S3. Live streaming from the hardware devices is built on Amazon Kinesis Video Streams. TrafficLink relies on Amazon Simple Notification Service to alert engineers via email or SMS about signal problems, such as light outages, signal timing issues, or signal failures.



Read the case study

TrafficLink helps resolve traffic problems in less than 2 hours instead of 8 hours, reduce travel times by 30 percent, and improve emergency response times by 20 percent.



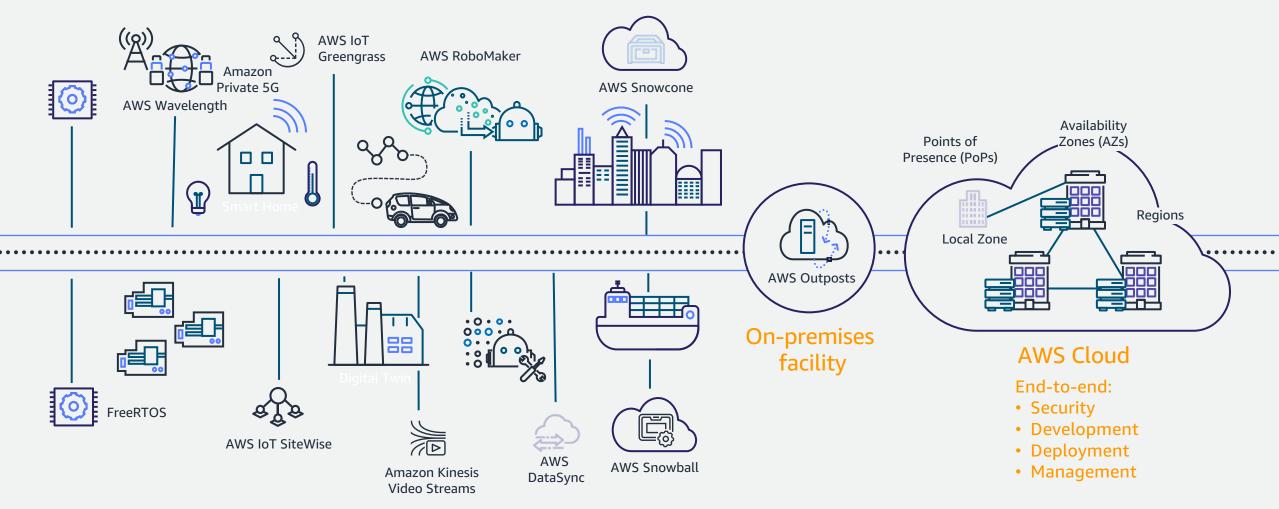


Sustainability



Edge-to-cloud continuum

IOT & LOCALIZED MACHINE LEARNING



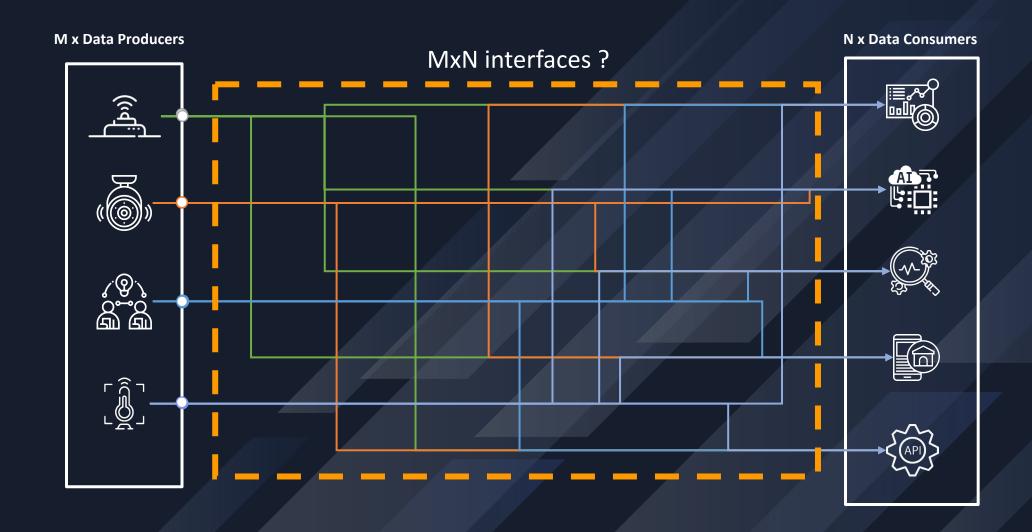
Smart Territory Framework



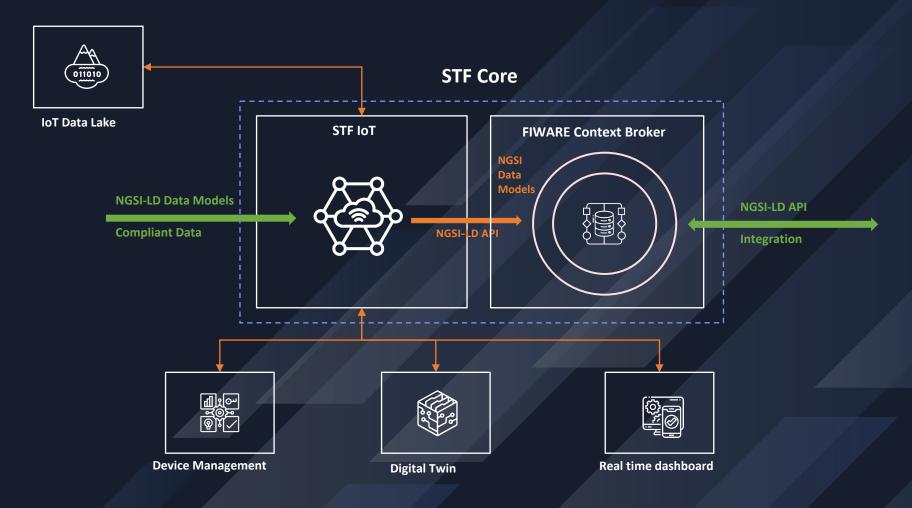
Breaking down data silos



Problem statement



What is the Smart Territory Framework (STF)?



A modular framework for building smart cities solutions leveraging industry open source standards

Customer use case: Cartagena, Spain (Demo)



Demos and Q&A

MetaWorldX digital twin demo's built on AWS Smart Territory Framework

<u>Cartagena, Spain</u> <u>Toronto, Canada</u>



Thank you!

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