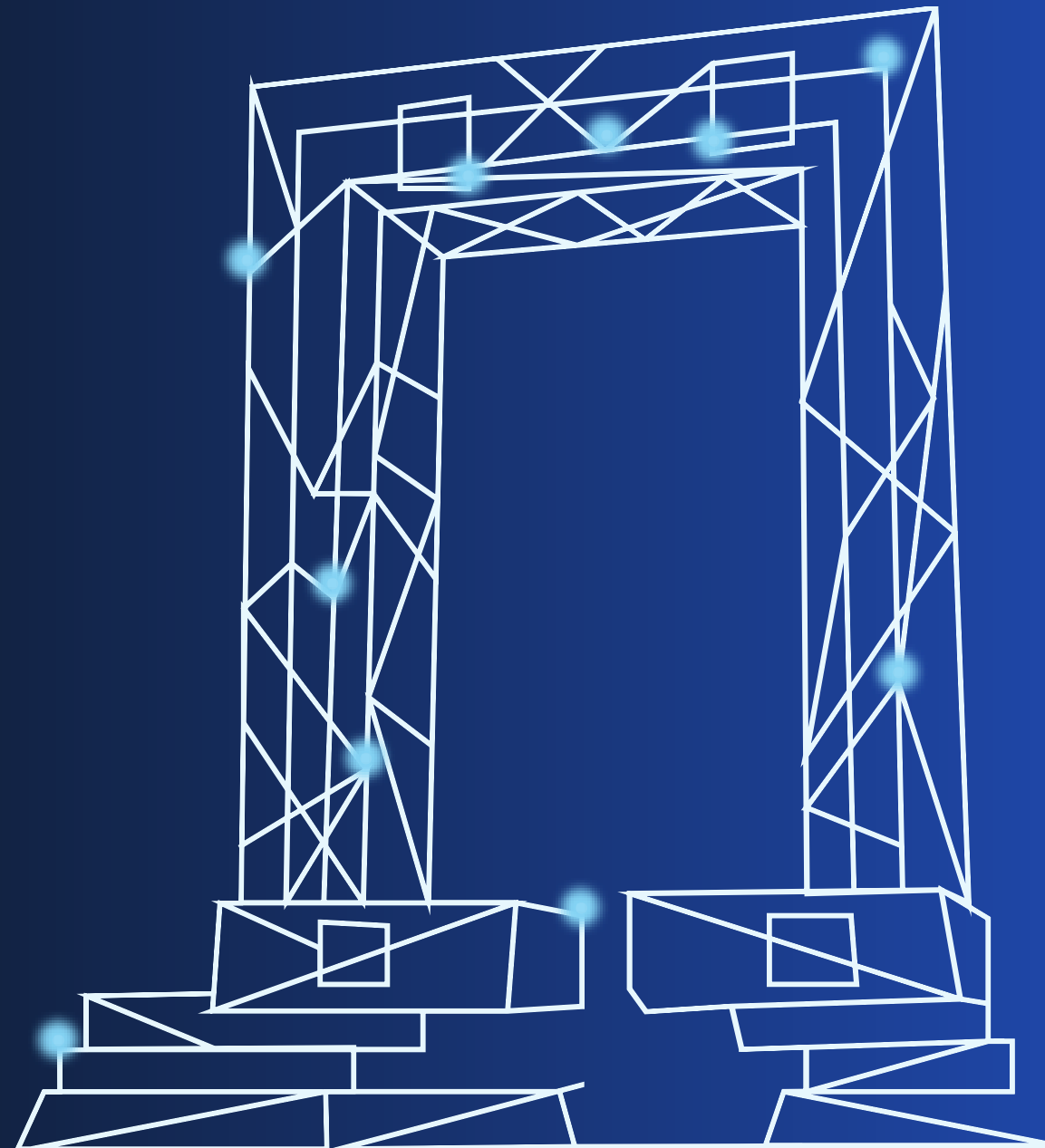




# AWS Smart Islands

Smart and Sustainable Islands

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# The Scope: Islands

Islands are diverse territories but many face common challenges driven by their insularity. Types of islands:



## Mainland Dependent

These islands have a high level of dependence on the mainland, including governance and funding streams



## Isolated

These islands are generally disconnected from the mainland whether politically, socially, or economically



## Independent

While disconnected from the mainland, these islands have established a competitive advantage



## Archipelagic

These islands often operate as a network sharing important assets such as airports



## Satellite

Reliant on a larger island hub for socioeconomic spill-over, including for public services such as hospitals

# Common Island Challenges



## Connectivity

People and goods , Digital Access, Ports and marinas



## Retaining and Attracting Islanders

Upskilling, Quality services, Community driven



## Resource Management

Energy, Water, Waste, Biodiversity, Circular Economy



## Resilience and Climate

Climate and disaster risk, Mitigation, Adaptation



## Economic Diversification and Competitiveness

Quality tourism, Entrepreneurs, Industry Digital Transformation

# Definition of a Smart Island



# From Smart Cities to Smart Islands



## Creating a Smart and Sustainable Island Strategy

European Islands and  
Global Best Practices

May 2022

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IDC #EUR148951422

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<https://aws.amazon.com/government-education/smart-island/>





# Welcome to Naxos

## The First AWS

### Smart Island Pilot

# Why Greece?

- ▶ Geostrategic Position
- ▶ Accelerated Digital Transformation
- ▶ Investor-Friendly Environment
- ▶ Technology Hub
- ▶ Highly-Competent Talent Pool



# Why Naxos?

- Size
- Location
- Connectivity
- Potential to take advantage of the full range of benefits of such a project



## General Facts about Naxos:



**22,000**

permanent residents



**130,000+**

tourists during the summer



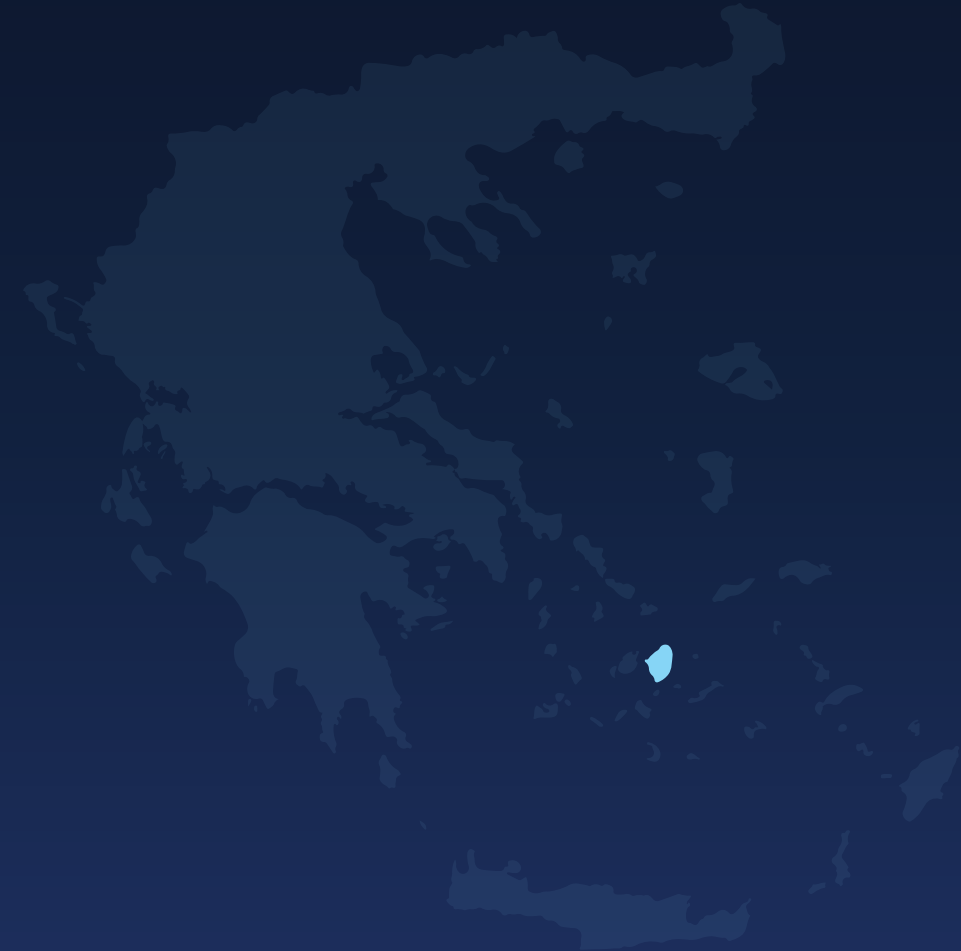
**5**

smaller islands complex with no easy access to Naxos main settlement



**1,000+**

residents living in remote areas with difficult access to key facilities



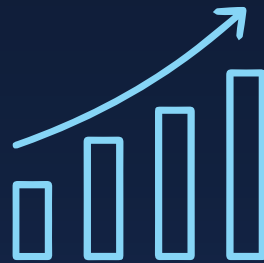


# Benefits for All

The 'Smart Island' project has been designed to meet specific needs of the island of Naxos and help it make the transition to a more diverse, sustainable economy. The project foresees significant and diverse benefits, including:



Improving the quality  
of life on the island



Facilitating  
tourism growth

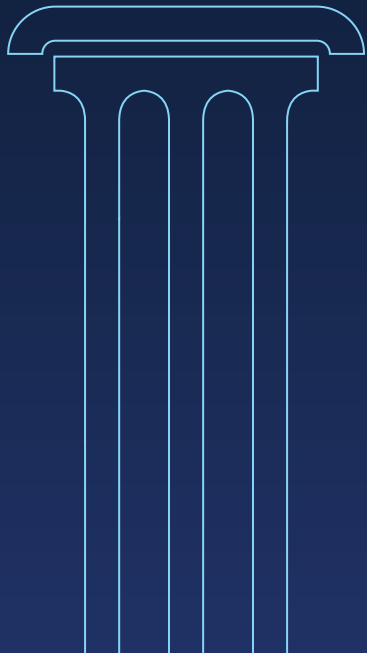


Attracting  
digital nomads

# Four Pillars

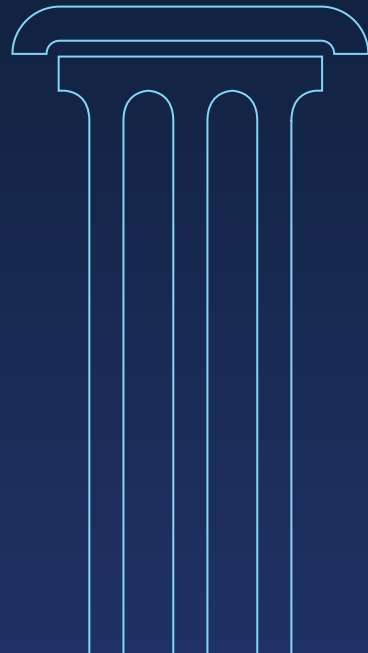
01

Leisure and better  
way of living



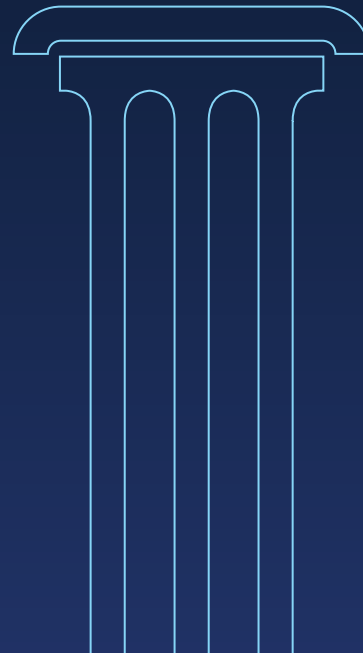
02

Sustainability



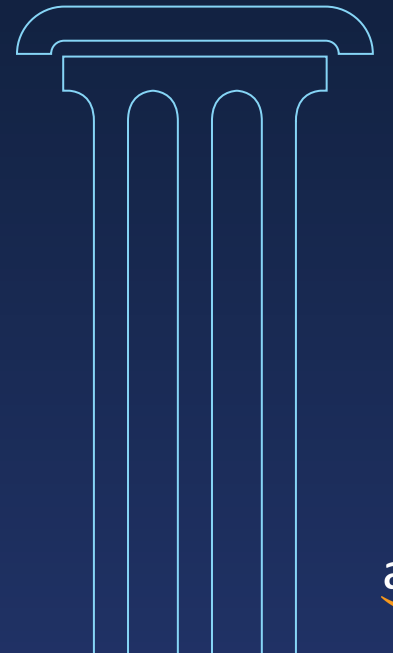
03

Telehealth



04

Technologically  
Literate Citizens



# Leisure and Better Way of Living



Smart Marina, using IoT technologies



Online Booking Systems



Smart Lighting



Smart Parking Sensors



Smart Lockers



Vessel Monitoring



Smart Taxi Payments

# Augmented Reality (AR) Representation of the Temple of Apollo



# Sustainability



Clean Water Management



Smart Grid Network for Electric Vehicles



Waste Management



Fire Monitoring Outposts



Microclimatic and Weather Stations

# Telehealth



Telemedicine



Biological Sample  
& Medicine Delivery via Drone

# Technologically Literate Citizens



Digital Skills Training  
for the Public



Cloud Skills for Public  
Officials and Civil Servants



Cloud Skills  
for the Public





# Breaking Down Silos with the AWS Smart Territory Framework



Interoperable Solutions Built  
by Exchanging Data that  
Follow a Standardised Model  
(NGSI)



Allowing for Centralised  
Monitoring  
(e.g. by Local Government)

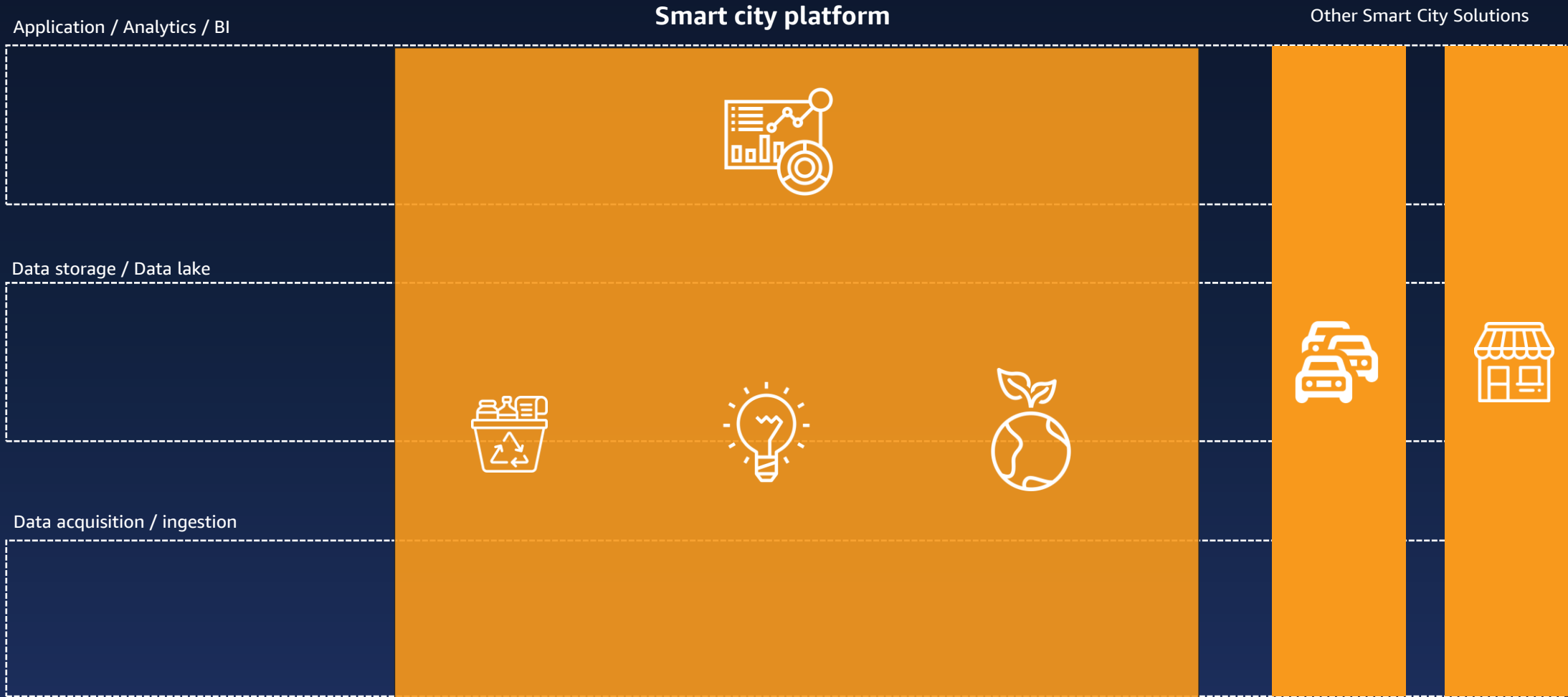


Based on Open  
Source Standards  
(FIWARE)

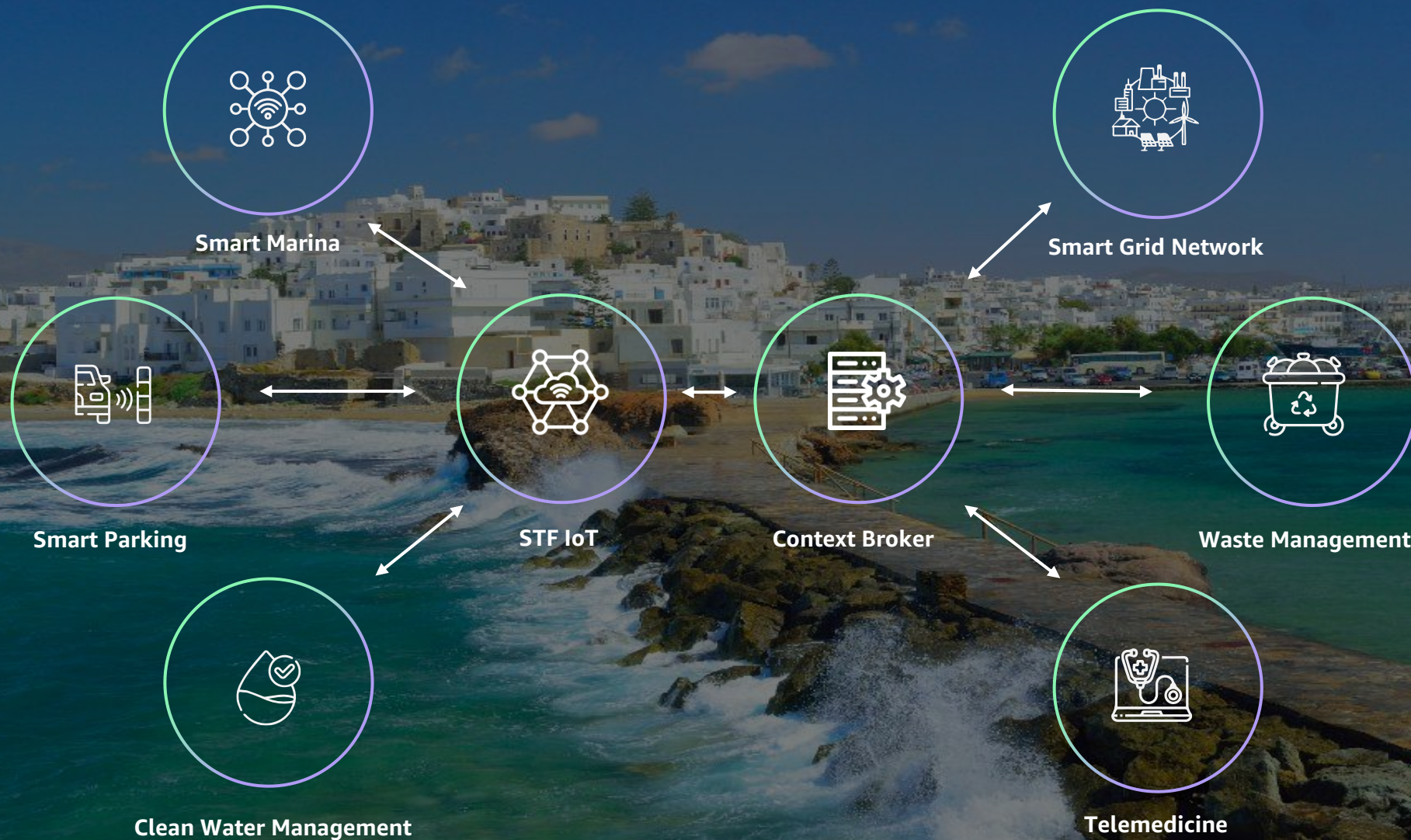


Low Engineering Effort  
Required  
(Ready-made  
Implementations on AWS)

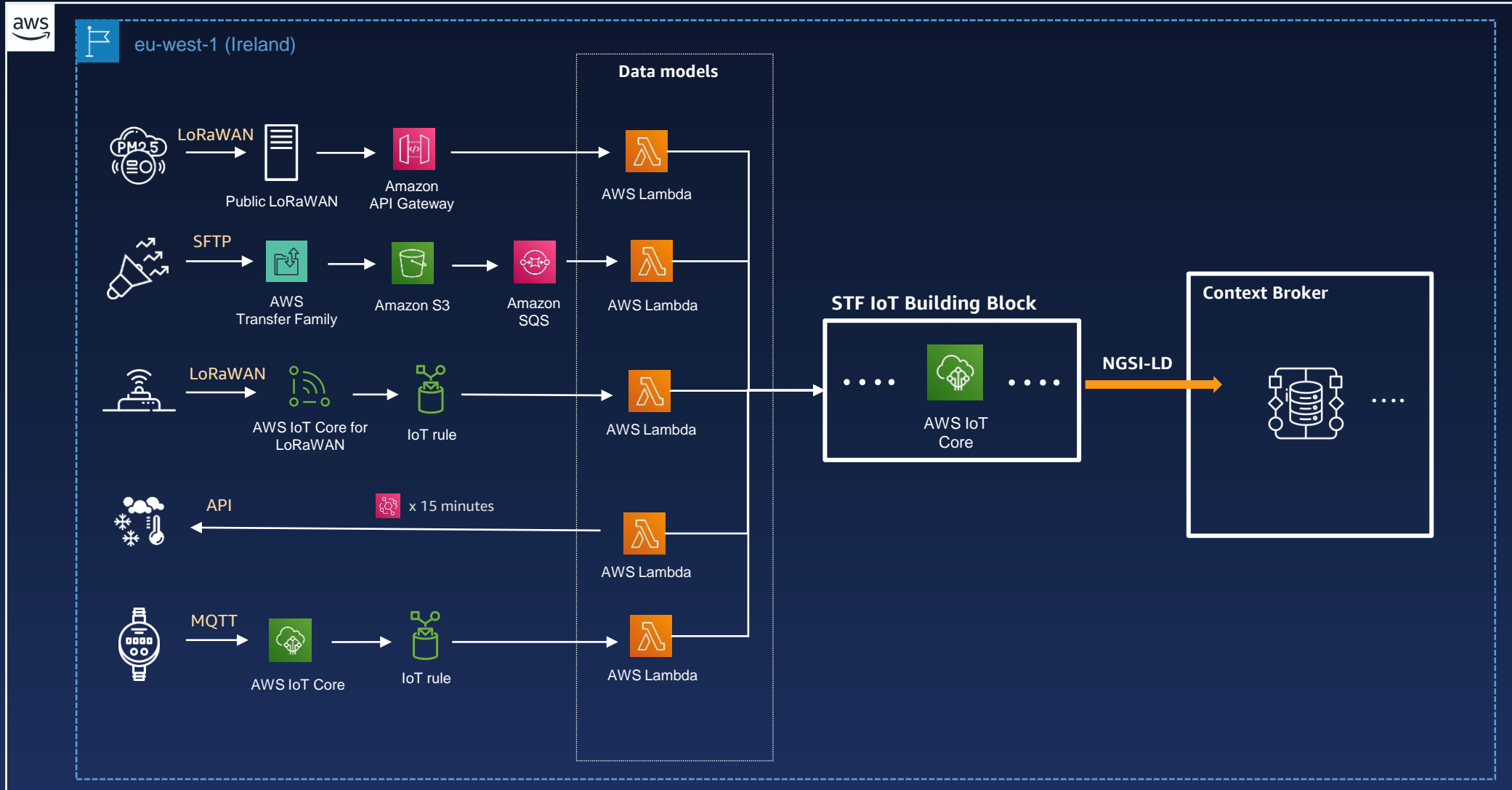
# Smart Cities cannot be bought off-the-shelf



# AWS Smart Territory Framework (STF) – Key Components



# Territory Implementing the AWS STF





# Where We Stand & Next Steps



# Thank You

...and see you at Naxos!

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