Connected Citizens – A Smart City Enabling Digital Platform – A TM Forum Catalyst
Connected Citizens Platform

A TM Forum Catalyst

- Accelerate Your Local Digital Ecosystem
- Improve Your Public Services Efficiency
- Foster Your Citizen Engagement
- Boost Your City’s Attractiveness
Connected Citizens – A Smart City Enabling Digital Platform

Executive Summary

Connected Citizens – Smart Digital Enabling Platform catalyst is a platform designed for smart cities with open APIs which will allow the development of various applications to stimulate citizen engagement. This cloud operated neutral digital platform is a secured data-hub that supports distributed ledgers such as Blockchain, IoT gateway, identity and access management, big data lakes and AI analytics, advertising engine, software defined networks. It enables new business models that address the TM Forum’s Smart City Manifesto.
VISION

- Helps Smart Cities with Open APIs
- Drives External Development of Applications
- Stimulates Citizen Engagement
- Supports State-of-the-Art Technologies
- Enables New Business Models
Catalyst History and Timeline

- **2015**: TM Forum Live! Nice, Smart Life: My Home, My City, My Planet
- **2016**: TM Forum Live! Nice, Connected Citizens: Life in a Green, Clean, Smart City
- **2017**: TM Forum Live! Nice, Connected Citizens v2
- **2018**: Action Week Lisbon, Connected Citizens Smart City Enabler
- **2019+**: Connected Citizens cloud, Yinchuan SCWS DTW Asia

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Catalyst Outlook

DTW- Nice 2018

Phase 2 – Smart City in Focus Yinchuan China

Catalyst Phase 2 – DTW Kuala Lumpur

2019 – Turn Vision into Reality

Catalyst Phase 3

Technical, Business and Operations Concepts

Living Lab/Sandbox with Nice, St. Quentin, Austin

Further Advancements on Technical, Business and Operations Concept

Create Live Product from Vision and integrate new catalyst projects into it.
Use Cases

Business Models

Partnering

Business Streams

Technical Streams

Operational Streams
The Global View - A Three Layer Approach

1st Layer
Connected Citizens
A Technical Platform

2nd Layer
Connected Citizens
A Use Case Enabling Platform

3rd Layer
Connected Citizens
A Business Model Realization Engine
Stream Overview
The Global View – Technical Integration

- Datahub
- Context Broker
- MongoDB
- Smart City Network
- Distributed Ledger
- Blockchain Based Reward System
- Integration (Orchestration)
- Orchestration of API Portal
- IoT-Cloud
- OpenData
- BearPoint
- BSS Business Support System
- Smart City Network
- Service Providers
- Artificial Intelligence
- Security and Identity Management
- Operations
- Orchestration of API Portal

Citizens
Tourists

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The Connected Citizens API layer

**Network Layer**

- **TMF658**: Loyalty Management API
- **TMF622**: Product Ordering API
- **TMF641**: Service Ordering API
- **TMF650**: Onboarding API
- **TMF644**: Privacy Management API
- **TMF658**: Loyalty Management API
- **AP-1040**: Distributed Ledger API
- **IoE/IoT Data Management API**
- **TMF623**: Service Level Agreement (SLA) API
- **TMF650**: Onboarding API
- **TMF675**: Location API
- **TMF621**: Trouble Ticket API
- **TMF628**: Performance Management API
- **TMF622**: Product Ordering API
- **TMF641**: Service Ordering API

**IoT Integrators**

- **Data Providers**
- **Software Companies**
The global technical view: OSS – Operations & Emergency Plan

- Integration of different components
- Drill-down into different components
- Monitoring & Performance Management
- Alarming & Fault Management
- Provisioning/Configuration Management
Use Cases: A Variety of Needs and Capabilities

CONNECTED CITIZENS PLATFORM

- Innovative & Inclusive City
- Exciting City
- Attractive City
- Sustainable City
- Clean City

- Dynamic Network Management
- New Digital Services
- Advertising Monetization Engine
- Data Collection
- Partner Management

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A Systematic Engagement System

Citizen Engagement Tools Offer Goal Outcome
Business Models

The Connected Citizens Platform grants cities an opportunity to build business models around their digital use cases. For demonstration purposes the Team created Use Case related Value Networks:

- The Connected Citizens Platform
- Different Actors
- Data Flows
- Service Flows
- Monetary Flows
- Flow Direction Indicators
Define Business scenarios, ecosystems, products /services

Design With intelligence using proven TM Forum blueprints

Scope Using the common language of Frameworx models

Collaborate Inside and outside of your company Business and technology
TM Forum City as a Platform Manifesto Compliance

- Improve Life
- Bring Together Stakeholders
- Support Sharing Economy
- Foster Innovation
- Privacy and Security
- Strengthen Democracy
- Involve Local Government and Strive for Excellence
- Open Standards and APIs
- Federation of Data & Services
- Support UN Sustainable Development Goal

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Partnership

Onboarding → Adding Value → Delivering

- Financial Models
- Business Models
- Contractual Models
- Operational Models

Partnership Success
Merci

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