



SMART COMMUNITIES SOFTWARE SUITE

Single Suite Software for Smart Communities

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THE PROBLEM

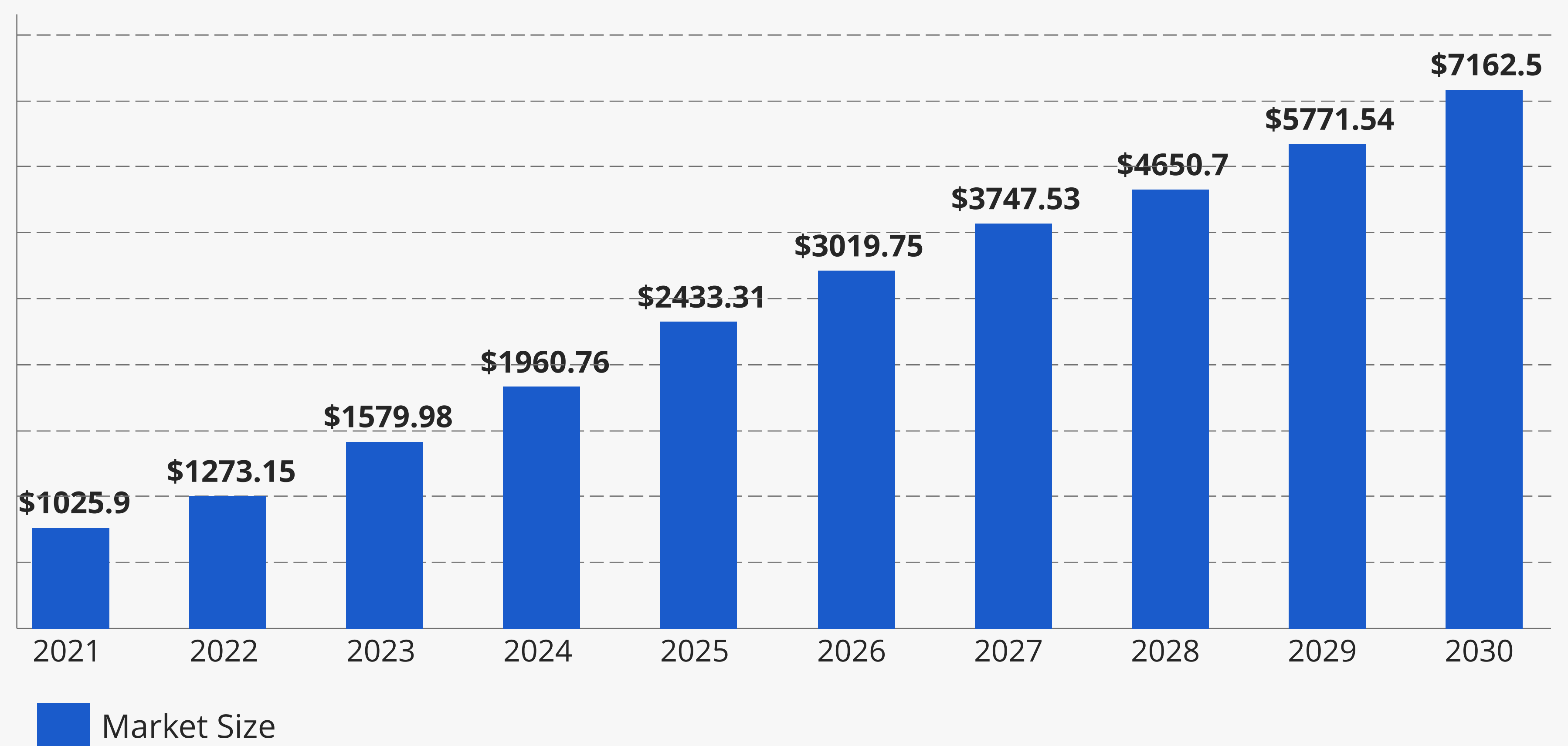
With the exponential growth in urbanization, communities around the world are responding to the needs of their citizens by discovering new ways of using information and communication technologies for economic, social and cultural development. A smart community has a virtual environment composed of Smart homes, local communities, the government and its citizens. With this, there is a growing need for government and private investments in a platform that manages infrastructure and assets for communities.

The global smart cities & communities market was estimated at US\$ 1,025.9 billion in 2021 and is expected to hit US\$ 7,162.5 billion by 2030, growing at a CAGR of 24.1% from 2022 to 2030

With rising urbanization and industrialization, the demand for the energy has spurred significantly, which has fostered the adoption of artificial intelligence, internet of things, and machine learning technologies to ensure citizen safety and higher efficiency of the resources utilised.

Source: <https://www.precedenceresearch.com/smart-cities-market>

Smart Cities Market Size, 2021 to 2030 (USD Billion)



THE OUTSET

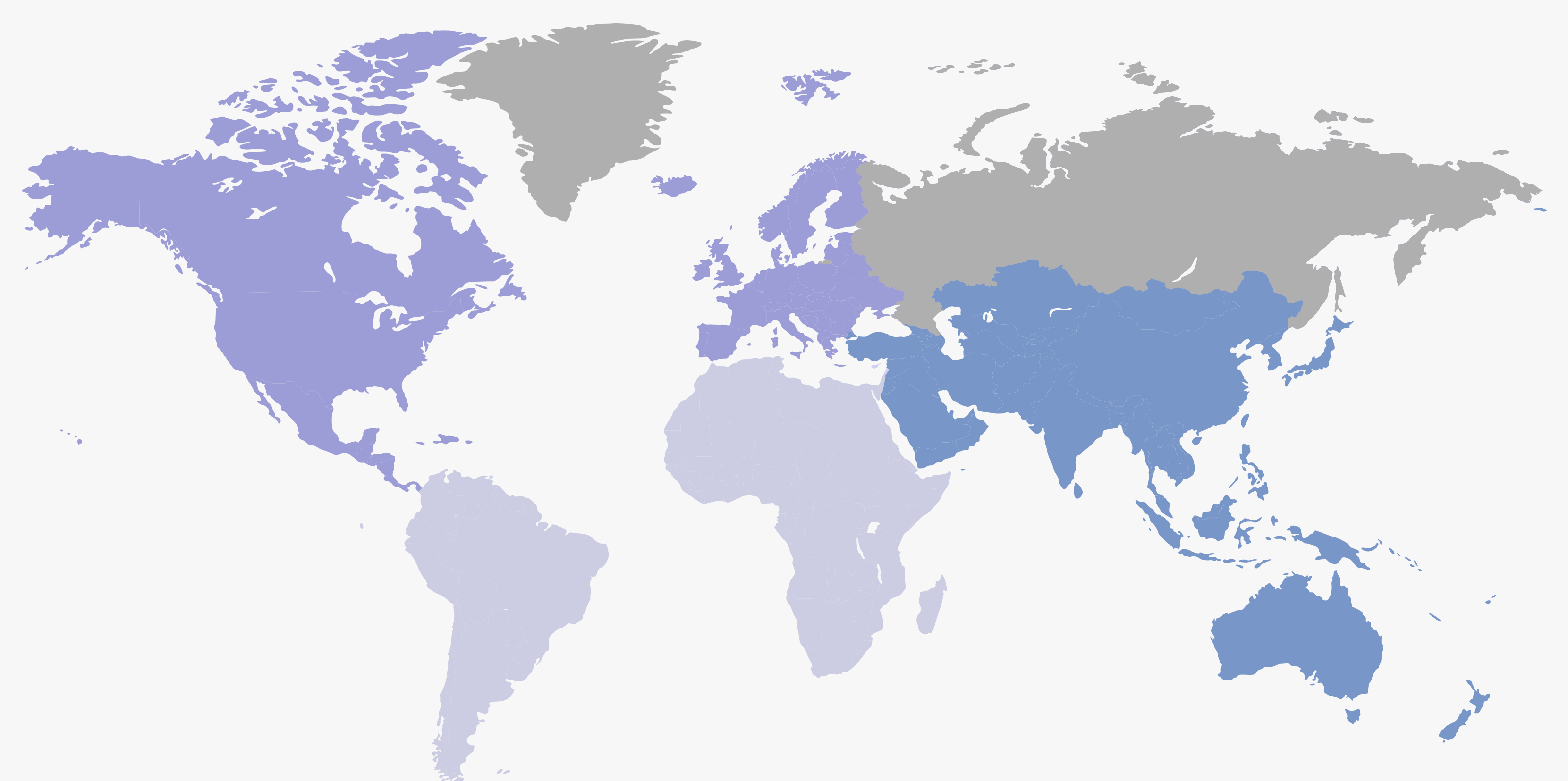
The smart community ecosystem focuses on increasing quality of life by utilising advanced technologies and data for promoting sustainability, improving efficiency and creating new avenues for research and growth.

A Smart Community platform can support various applications, integrate various technologies and data infrastructures that increases the capability of existing infrastructure and services and citizen-focused service delivery.

World Map showing Smart Communities Market growth

The smart communities market expected to grow from US\$ 902.91 billion in 2017 to US\$ 3,651.49 billion by 2025; it is estimated to grow at a CAGR of 19.08% from 2017 to 2025.

Source: <https://www.theinsightpartners.com/reports/smart-city-market-research-report>



High Medium Low

Smart Communities Market

OUR SOLUTION

Trinity's Smart Community Software Suite helps the city & community authorities to build a community level Digital Platform that can integrate data from various community systems & sub-systems. It offers a holistic and a specialised approach to help solve problems, meet unique goals, and achieve desired outcomes through its **Singe Suite Software**.

Trinity's Community Digital platform serves as a foundation for Community administration to build a Command-and-Control Center through which the community administrators can monitor & operate various community operations intelligently & efficiently.

The Solution is an industry standard based Commercial-of-the-shelf product, and adheres to the industry standards for interoperability, data representation & exchange, aggregation, virtualization and flexibility.

How is our Smart Community Offering creating a difference for today and tomorrow?

Trinity's Smart Communities Software Suite can enhance several aspects that improve the quality of life in communities today.

Community Safety: Built-in features like Predictive policing, Real-time crime mapping, Citizen safety, Emergency response etc. ensure improved response time of authorities and thus can marginally reduce fatality rates caused by crimes, accidents, etc.

Community Safety

Citizen Engagement: Applications like the trinityENGAGE aims to bridge the gap between the authorities and the citizens by providing an omni-channel interface for grievance redressal along with easy access to city related information thus make services more accessible, inclusive & transparent.

Citizen Engagement

Community Navigation: Citizens & authorities require real-time information to track traffic density, parking statuses, peak commute times, etc. which is critical to the quality of life. Community members can benefit using smart applications like Traffic Management, Smart Parking & Intelligent Transit management to save time and utilize city spaces

Community Navigation

Environment & Health: Smart applications like Solid Waste Management, Street Lighting, Utilities, etc., enable communities to track their energy consumption, power outages, bin collections, workflows & reports with multiple protocols which ensures a safe, secure, reliable space to live and work.

Environment & Health

Workforce Management: A state-of-the-art dashboard for reporting and monitoring seamlessly; it can create, view, manage and track tasks for multiple team members, increasing workforce productivity.

Workforce Management

SOLUTION STACK AND KEY OUTCOMES

Three Layers of Smartness

Persona


Command Center Operator Supervisor Workforce Community Management


Applications

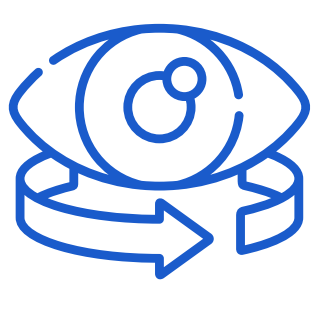
KPI Driven Operation Center **trinityICCC**
 AI & BI Applications **trinityANALYST**
 Workforce Management **trinityMOBILE**
 Citizen Engagement **trinityENGAGE**

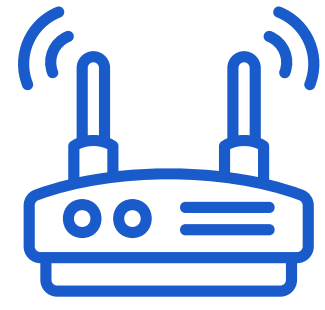
Platform


IoT & AI based Digital Platform
trinityIoT

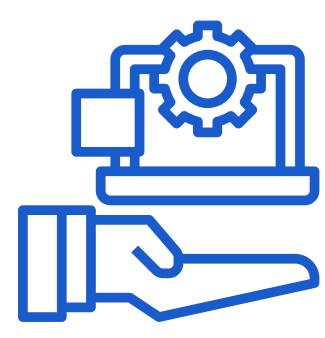
 Seamlessly connect & monitor community system

 Analyse data in real time and automate core processes

 Build 360° situational awareness for operations

 Optimize utilization of community assets and drive consumption

 Empower facility team with insights to respond faster

 Provide a safe environment and enable community users to digitally avail services

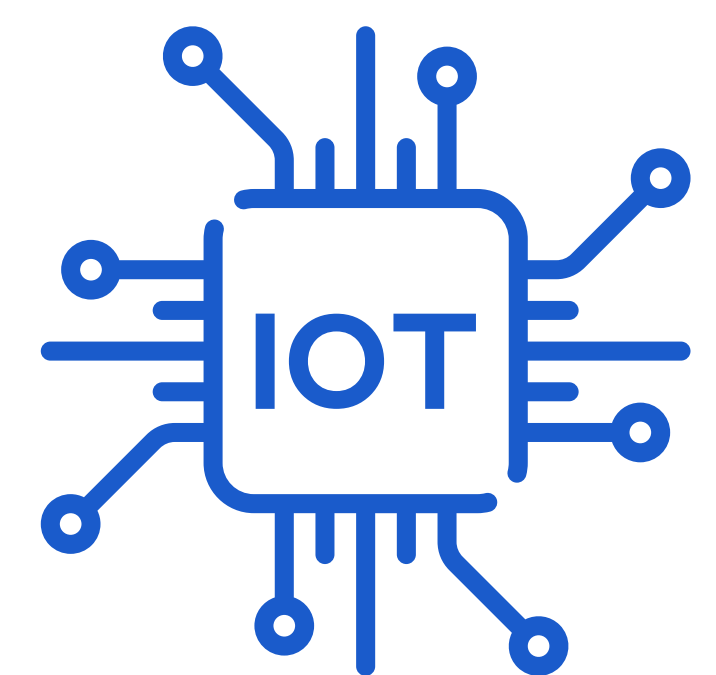


CORE PRODUCTS

trinity **IOTOPS** IoT Provisioning & Administration Tool

IoT Provisioning & Administration Tool

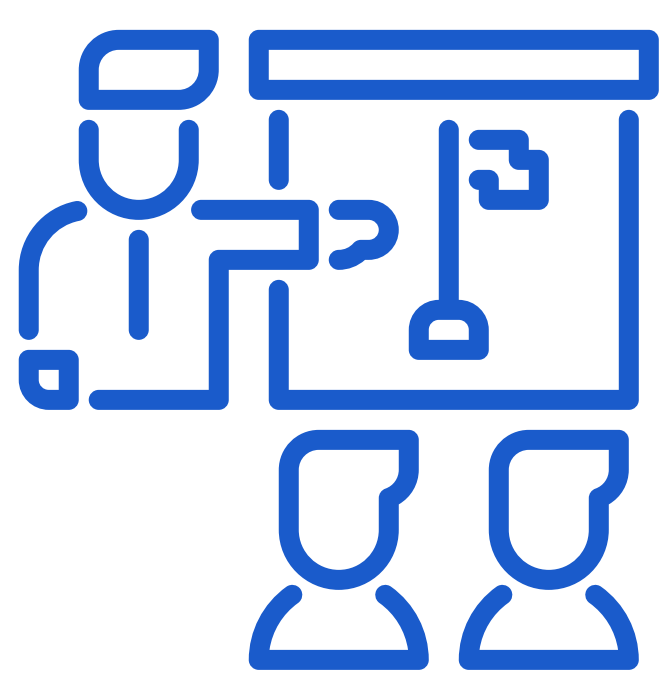
trinityIoT - An IoT and AI based digital platform enables Integration of data from sensor and application system, process the data for complex events, store the data for further consumption by northbound applications and provide advanced data analytics through a built-in BI & AI Engine.



trinity **ICCC** KPI driven Operations Center

Operator

The Operations Centre Application enables the operators to run the community efficiently. It provides complete situational awareness of community incidents and enables the community to implement a coordinated response through workflows and SOPs. These real-time Dashboards provide data visualization capabilities.



trinity **MOBILE** Workforce Management

Mobile Workforce Management System

The workforce management application provides intelligence and insights for the community workforce to stay connected and act in real-time.

The Workforce Mobile App provides all the intelligence to stay connected and act in real-time. It is based on user roles and supports the workforce across the various departments by supporting several types of services, e-forms, map data and image data. The progress of tasks assigned can be monitored in real-time. The app can be utilised by various workforce personas such as facility management teams, security teams, housekeeping, etc.



trinity **ENGAGE**

Citizen Engagement System

Community App/Portal: Trinity's solution covers building an app/portal to stay connected with the citizens and the community. The app/portal provides information on a real-time basis about the events, enables the citizen to interact with the authorities for reporting grievances and availing smart services.

Case Management: The case management system provides omni channel interaction with citizens so that grievances can be addressed efficiently at community level, as well as providing a wide range of smart services.



web
portal

BENEFITS



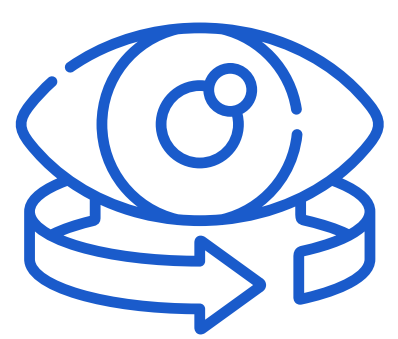
Seamlessly Connect Various Community Systems and Detect Anomalies

IoT Ops provisioning and administration tool provides an easy-to-use interface to onboard, provision sensor data, data from various applications systems, and CEP engine helps to detect anomalies.



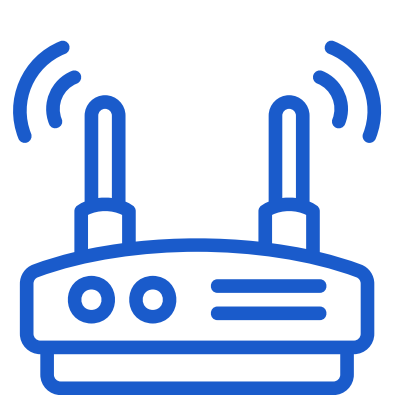
Automate the Core Process of Several Functions to Drive Efficiency while Reducing Costs

An easy-to-use pre-integrated BPM engine enables the operator to configure various types of SOPs and automate the processes.



Community Operations via 360° Situational Awareness

By unifying the data from the various systems and creating a common operating picture for stakeholders, the solution helps to handle major events and incidents that occur in the community.



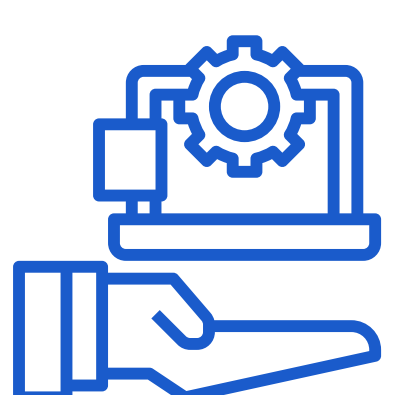
Optimize Utilization of Community Assets and Drive Consumption

Pre-Integrated AI engine drive intelligence using ML/AI technologies to drive efficiency for various community system.



Unified Facility Management Teams with Insights to Respond Quicker

Trinity provides a Unified facility management system for use by facility teams across all departments and can efficiently handle operations. The solution provides complete visibility to the events and real time insight to act faster for Workforce.



Provides a Safe Environment and Enables Community Users to Digitally Avail Services

Enabling easy access to community facilities and digitally avail services through mobile apps and provide safety.

CASE STUDY

Implementation of an Integrated Smart Community System for a leading thermal power Township in South Asia

Trinity deployed its Integrated Smart Community solution for a Smart Community project in the South of Asia with the township population close to 3500. This solution integrates sensors through IoT OPS – camera, smart lights, PID, VMD, etc. to monitor & manage operations. Along with adding 360° Command & Control Centers for running township operations, the core process if the street lighting system is also automated.

Key Features & Benefits

- Citizen Engagement to transform city-wide service delivery.
- Identification of excess energy usage, theft & leakages for utilities like gas, water,
- Seamless linkage of power outage information to multiple stakeholders.
- Remote turn on/off service for customers.
- Ensuring Community mobility by shared information on traffic, parking, etc.
- Integrated Visitor Management & Digital Twin capabilities for the Community.

Scale of Operations

**3000 +
Lives Improved**

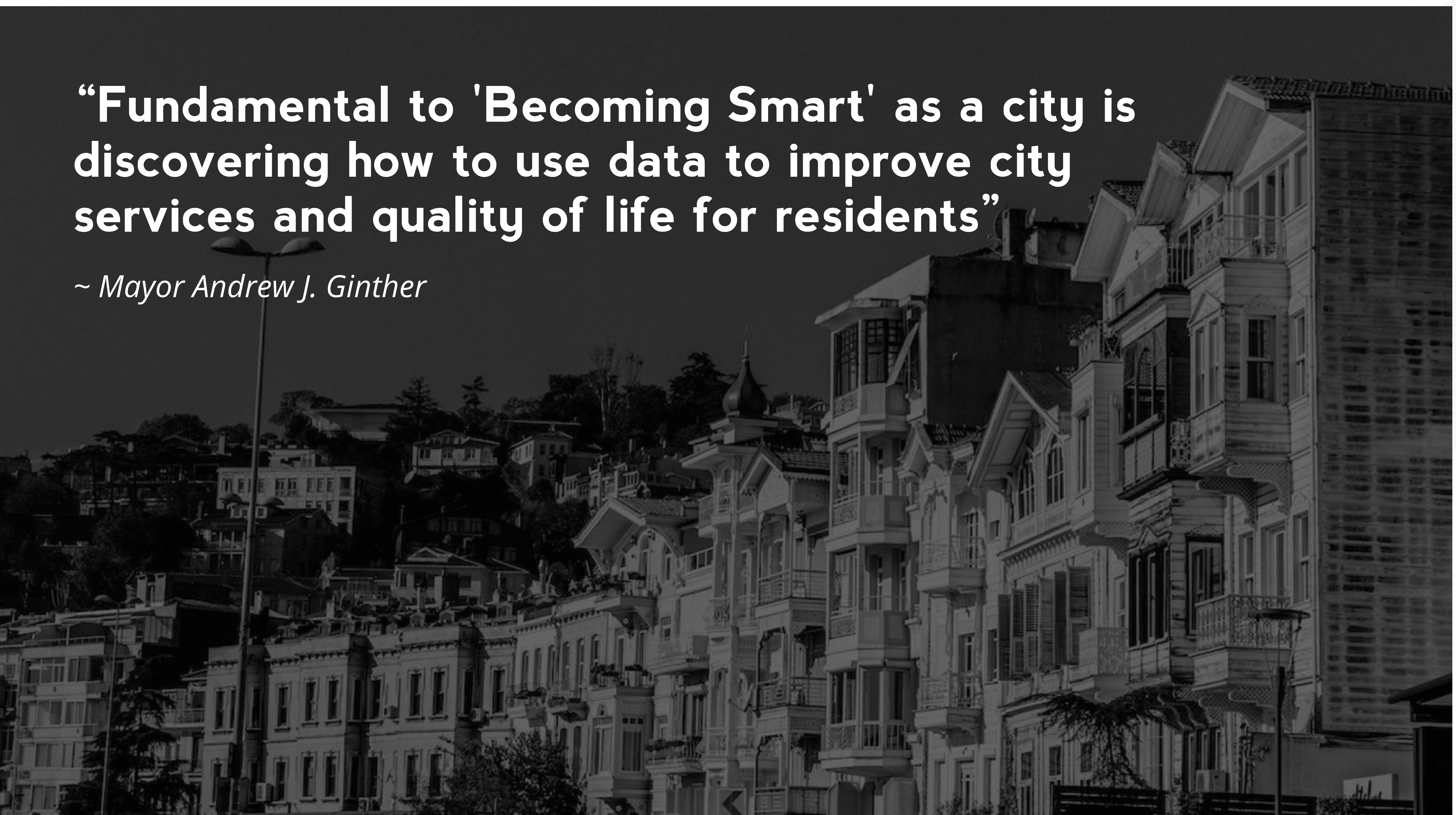
**100%
Digital Provided
Smart Services**

**500+
Smart Lights**

**40+
UPS & Backup
Systems**

“Fundamental to 'Becoming Smart' as a city is discovering how to use data to improve city services and quality of life for residents”

~ Mayor Andrew J. Ginther



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