

# SMART AND SUSTAINABLE CITIES

Single Suite Software solution for Smart Cities

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## CONTACT

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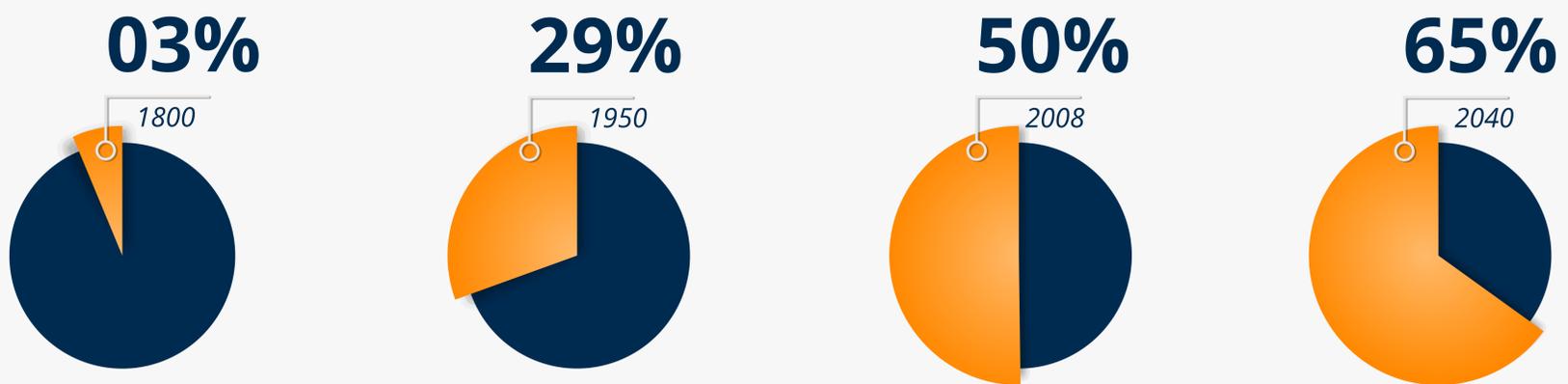
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# THE PROBLEM

The world population is increasingly moving from rural to urban centers, making for larger cities with greater population density. Due to the rapid increase, citizens are burdened with ineffective public safety, inefficient power and water supply, lapses in healthcare, improper water management, huge traffic congestions, transportation issues and inefficiencies in other city-level functions.

## Statistics of people moving to Cities



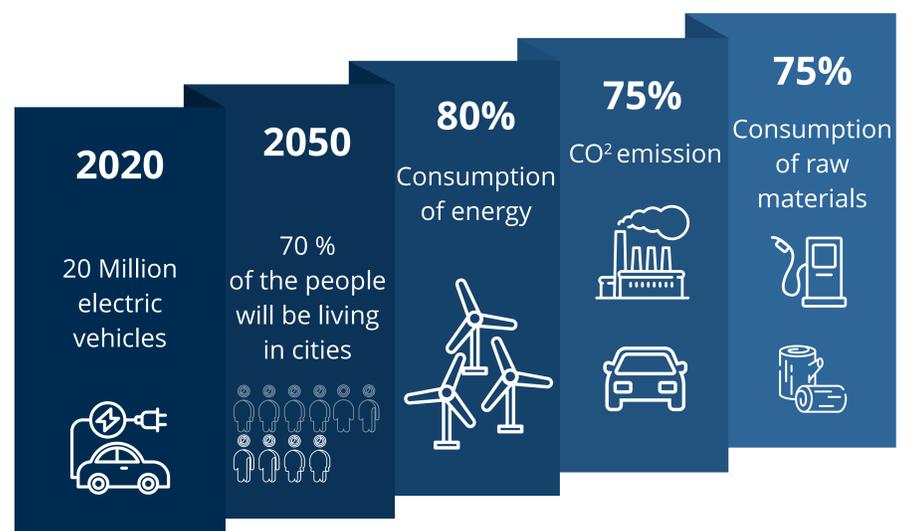
Source: United Nations, Department of Economy & Social Affairs, 2020

## THE OUTSET

Trinity's Single Suite Smart City Software adds digital intelligence to enhance urban systems and help city authorities to efficiently run the city operations by provide better governance and thereby increase citizens' quality of life.

Our smart city products provides the digital infrastructure to make informed decisions and improve the quality of life.

## The increasing relevance



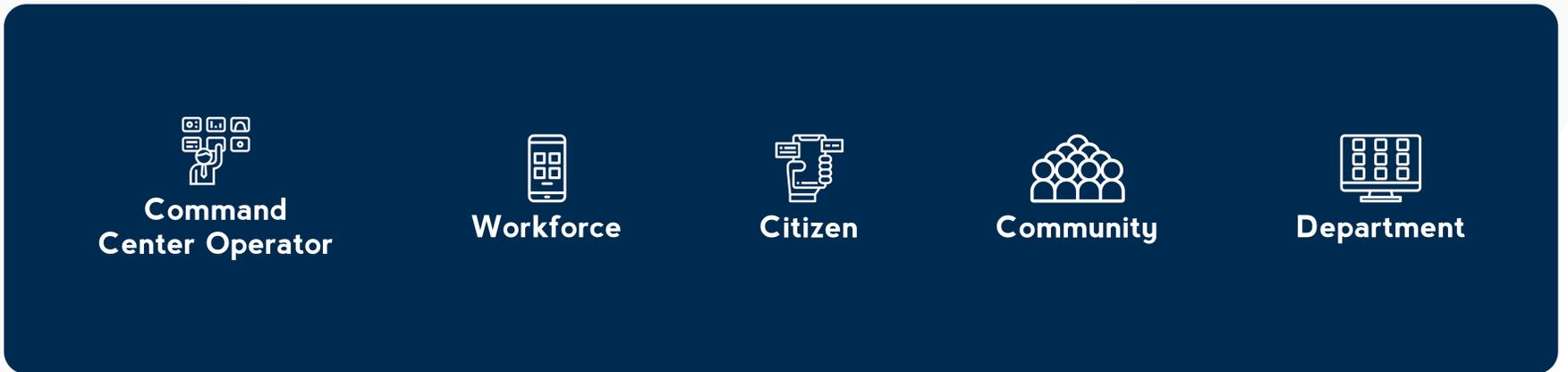
Source: International Energy Agency, 2021, Stated Policies Scenario

# SOLUTION STACK

The smartness is built through three layers using advances in digital technology – the platform, bundled applications and various user personas, which integrates the various operations of the city into a unified system and deliver the total value to drive the city’s digital transformation.

Three Layers of Smartness

Persona



- Command Center Operator
- Workforce
- Citizen
- Community
- Department

Applications



- Command and Control Center  
**trinityICCC**
- AI & BI Applications  
**trinityANALYST**
- Workforce Management  
**trinityMOBILE**
- Citizen Engagement  
**trinityENGAGE**
- Open Data Portal  
**trinityDATA**

Platform



IoT & AI based Digital Platform

**trinityIoT**  
IoT & AI Platform



# KEY OUTCOMES



Seamlessly connect & monitor urban systems



Analyze data in real-time and automate core processes



Drive in-line departments operational efficiency through AI



Build 360° situational awareness for operations



Empower city workforce with insights to respond faster



Deliver civic services digitally to citizens

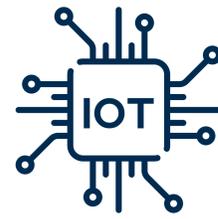


Enable city-driven innovation through Open Data

## CORE PRODUCTS

### trinityIoT - IoT and AI platform

trinityIoT, 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 built-in BI & AI Engine.



### trinityICCC

Integrated Command & Control Center Platform

### Integrated Command and Control Center

The City Operations Centre Application enables the city operators to run the city efficiently. It provides complete situational awareness of the city incidents and enables the city to implement a coordinated response through workflows and SOPs. Real-Time Dashboards provide the data visualisation capabilities.



### trinityMOBILE - Workforce Management

Mobile Workforce Management System

The workforce management application provides intelligence and insights for the city workforce to stay connected and act in real-time. Workforce App enables the field workforce to respond and resolve any city-level issues.



# CORE PRODUCTS



## trinityDATA

Open Data Portal

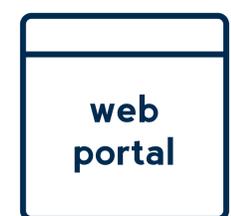
Trinity Open Data Portal enables the city to share the data with the community so that the community can use the data and launch several services for the improvement of the community. The data portal can serve as a Data Exchange.

## trinityENGAGE

Citizen Engagement System

### 1. City App/City Portal

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



### 2. Case Management

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



# BENEFITS

## **More effective, data-driven decision-making**

Connected devices and applications have allowed cities access to information that's never been available before. A well-designed data analytics strategy gives city officials the ability to access and analyze a massive amount of information.

## **Enhanced Citizen Engagement**

Citizens today expect their cities to deliver robust, user-friendly digital services. Expanding and unifying digital services for citizens make smart cities a more attractive place for residents to live and promote a connected citizen experience.

## **360 Degree situational awareness**

Complete bird's eye view of all the city level functions and provide insightful analytics to measure and evaluate the performance of the city which directly correlates to impact on quality of life.

## **Reduced environmental footprint**

Energy-efficient buildings, air quality sensors, and renewable energy sources are providing cities with new tools.

## **Improved transportation**

Connected transportation systems drastically enhance transportation efficiency & quality of commute for the citizen throughout a city.

## **Drive innovation through open data**

Public data, and their re-use, are key resources for social innovation and economic growth. Open Data provides new opportunities for governments to collaborate with citizens and evaluate public services by giving citizens access to data about those services.

**“Smart cities are those who manage their resources efficiently. Traffic, public services and disaster response should be operated intelligently in order to minimise costs, reduce carbon emissions and increase performance.”**

*~ Eduardo Paes*

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