Fortis
Consulting Services Corp.

WE BUILD ADVANCED TECHNOLOGY SOLUTIONS

IoT Era - IoT Systems
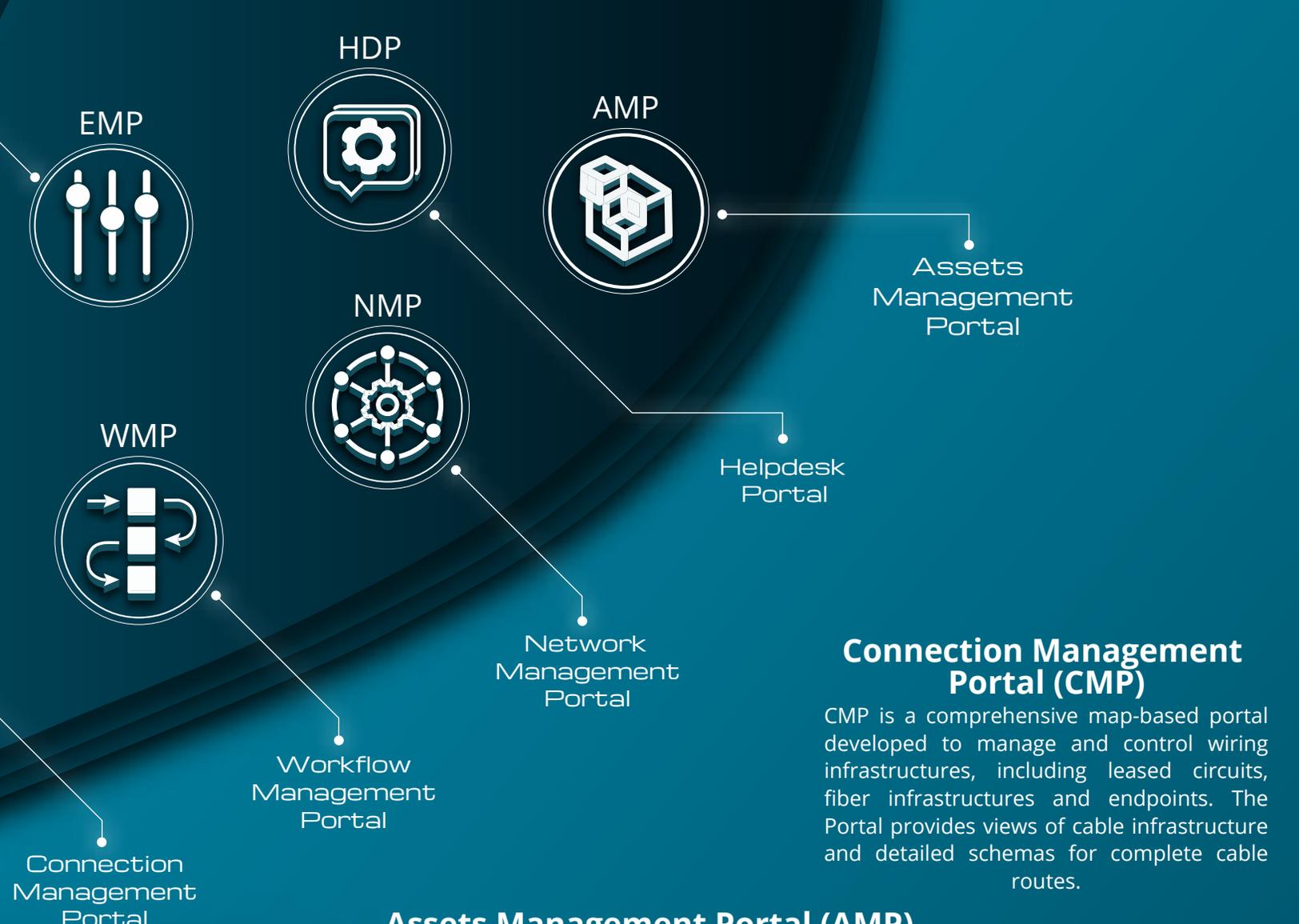
OPEK ITS Orchestrator®

Interconnected Solutions For Future Generations

Fortis
Consulting Services Corp.

SMART CITY SOLUTIONS

Environmental Management Portal

Repair Management Portal

RMP

Contract Management System Portal

CMSP

Overheight Vehicles Detection System

OHVDS

CMP

Incident Management Portal

IMP

FMP

NTCIP Device Tester

CV-AMS

Financial Management Portal

NTCIP

RTPI

Connected Vehicles Assets Management System

TIP

Real-Time Passenger Information

IoT Network Management Portal (NMP)

NMP is scalable to support high network monitoring data ingest volumes, provides detailed status of wireless point, data usage, and audits wireless providers. Dynamic dashboards allow the user to display and monitor selected network views, displaying devices and interfaces. The portal features reports on performance in the form of graphs and/or GIS views. The portal can be integrated with Assets, Environmental and Connection Management portals and the Helpdesk.

Traveler Information Portal

EMP

HDP

AMP

NMP

WMP

Assets
Management
Portal

Helpdesk
Portal

Network
Management
Portal

Workflow
Management
Portal

Connection
Management
Portal

Connection Management Portal (CMP)

CMP is a comprehensive map-based portal developed to manage and control wiring infrastructures, including leased circuits, fiber infrastructures and endpoints. The Portal provides views of cable infrastructure and detailed schemas for complete cable routes.

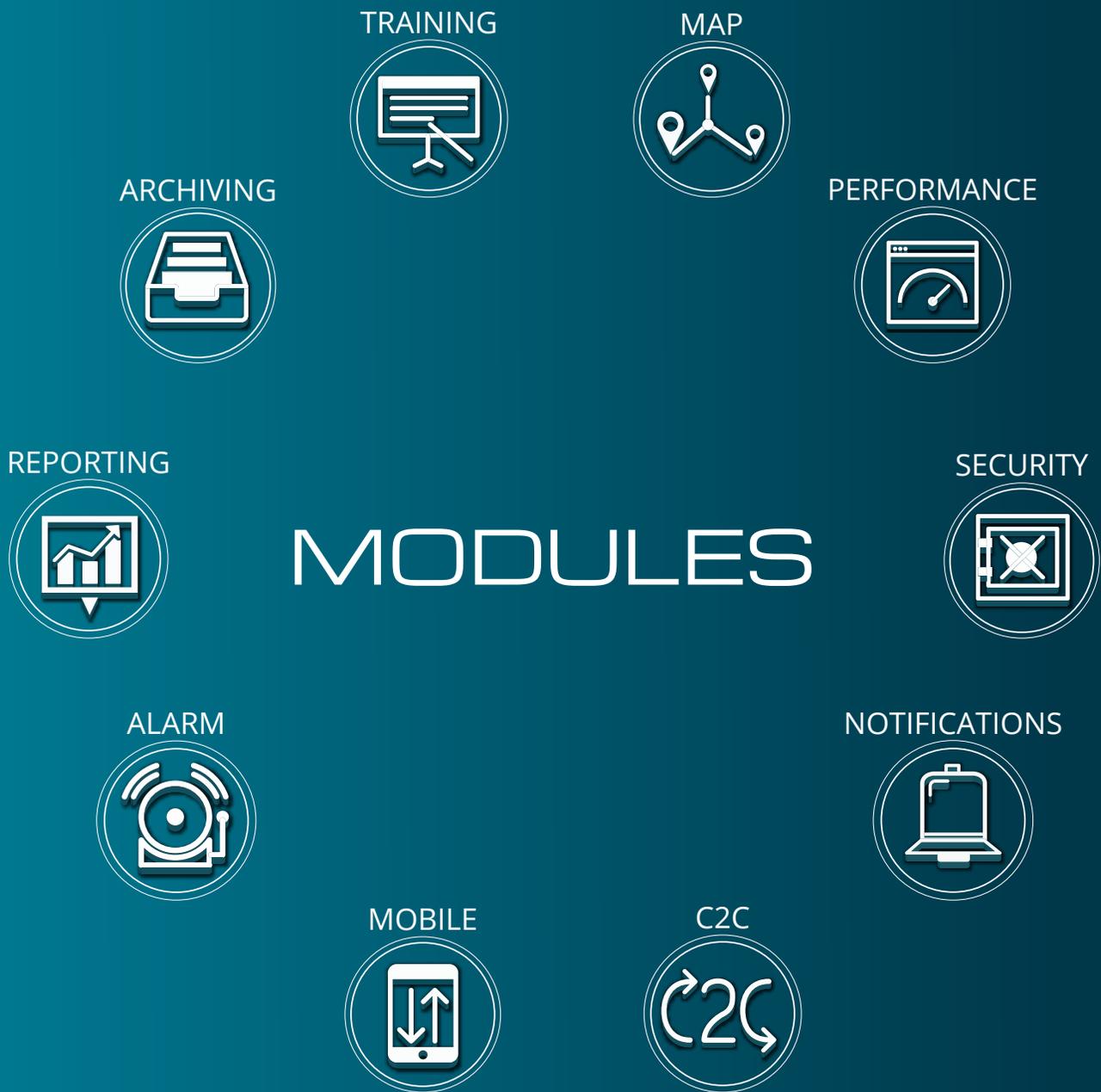## Assets Management Portal (AMP)

AMP is an innovative IoT-based solution which unifies management of IoT, IT and non-IT assets, and ensures quality of day-to-day operations and maintenance. The Portal is capable of discovering, managing and tracking IoT and IT devices in real-time, including the ability to manage the lifecycle of assets from procurement to decommission. AMP features include a dynamic and highly customizable dashboard, an intuitive report builder, alarm and notification modules, and data integrity and encryption modules. Performance measurement add-on module provides visibility of device utilization and includes the capability to automate tasks and proactive actions. The system has been designed to accommodate and manage 5M+ devices under a single portal with built-in capability for multi-instance expansion. The portal includes a variety of API interfaces and flexible connections to utility providers, warehouses, environmental, financial and repair management portals and the Connected Vehicles Management System. Geo-coded Map module driven view allows to add, position, and manage geocoded assets from a single map interface, and connects with other OPEK ITS Orchestrator® portals and modules.

Environmental Management Portal (EMP)

EMP is designed to manage and monitor power and cooling infrastructure, including UPSs, Generators, Charging stations, Solar panels as well as sensors and beacons. Real-time monitoring, proactive notifications, and failure prediction engines allows EMP to detect a single point of failure, isolate power outages and to minimize systems downtime. Historical power usage and data analytics used by EMP provide an ability to detect energy inefficient devices and gears and to reduce total system power consumption. EMP provides the foundation for the "Green ITS Cabinets, Green ITS Infrastructure and Green Highway" initiative, that integrates transportation functionality and ecological sustainability.

Repair Management Portal (RMP)

RMP automates the logistics of repair tasks, allowing to track and schedule maintenance activities. The portal identifies repair delays and other issues, providing the ability for proactive oprations, reducing downtime and increasing tasks efficiency. The repair status update and notification features enable agencies to track contractors and consultants activities and to detect off-schedule repair tasks. Realtime interface with power providers traces minor and major power outages and eliminates duplicate and unneccesary troubleshooting efforts. RMP can be integrated with Work Order, Help Desk, Traveler Information and SMART Street Light Portals.

TRAINING

MAP

ARCHIVING

PERFORMANCE

REPORTING

MODULES

SECURITY

ALARM

NOTIFICATIONS

MOBILE

C2C

OPEK ITS Orchestrator® Modules

OPEK ITS Orchestrator modules are designed to create a technologically advanced IoT ecosystem platform. The platform allows rapid response to industry challenges, by simplifying and expediting system implementations, upgrades, and minimizes cost of integration. From the highly customizable report builder to the user training module, the software provides functionalities which automate day-to-day operations and maintenance, minimize the number of human errors, and enhances system security and sensitive data integrity. The advanced system design allows for integration of new software plug-ins and customer-specific modules without system interruptions. A variety of API's and data exchange mechanisms are available and are based on the latest industry standards

IN 2021
2M+
**MANAGED
IoT ASSETS**

IN 2016
96K+
**MANAGED
IoT ASSETS**

AWARDS

IRF Global Road Achievement Awards
"Asset Preservation and Maintenance Mangement"
2021

Transportation Management Systems
"Project of the year"
2019

Innovative Transportation Systems
"Outstanding ITS Project"
2019

OPEK ITS Orchestrator®

OPEK ITS Orchestrator ® is an advanced foundation platform for the SMART City concept, which interconnects and synchronizes information in real-time for the transportation, energy, sanitation, municipal and security sectors. The system simplifies and improves inter-agency communication, minimizing maintenance efforts, response times, and introduces "green-based" technologies to day-to-day operations. The system controls a variety of intelligent transportation devices and supports V2X communication. Included in the system are award winning solutions such as Incident Management Portal (IMP) and Connected Vehicles Assets Management System (CV-AMS) which aid in the deployment of CV/EV technologies and infrastructures. Financial, Contract, and Repair Management Portals help control budgets and manage contractors, improving agencies' performances and ensures project timelines. The IoT Network Management Portal provides the ability to secure and monitor network infrastructures, and together with the Connection Management Portal adds the capability to increase communication uptime between IoT devices.

SYSTEM ADVANTAGES

MODULAR Architecture

CUSTOMIZABLE User Interface

DYNAMIC Reports Builder

ADVANCED Scheduler

EMAIL, SMS and Push Notifications

GLOBAL Search and Flexible Filtering

BULK DATA Import/Export Tools

DYNAMIC ASSET Properties Registration

BUILT-IN Security and Authorization Control

MAPS Geocoding/Mapping System

REAL-TIME Information

CENTRAL-2-CENTRAL Data Exchange

DESKTOP, Tablet and Mobile Ready

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