CymbIoT

Making IoT Smarter

Smart Transportation Management

About CymbIoT

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CymbIoT for Smart Transportation

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The CymbIoT Smart City platform uses information and communication technologies to manage transportation hubs and vehicle fleets, as well as coordinate public transportation networks

CymbIoT's transportation C&C integrates sensors and operational systems into a single network, allowing cities to manage traffic, as well as provide valuable services to commuters and residents.

The CymbIoT Solution

An **off-the-shelf IOT management product** that provides cities and enterprises with **rapid integration** of new & existing sensors and systems for **efficiency**, **security** – and **rapid ROI**.

The CymbIoT Offering

Product, not Program

Market-available, off-the-shelf product with over 50 IoT use cases.

Immediate ROI

Immediate ROI for cities and enterprises via integration of existing systems and sensors within 14 days

Flexible

Flexible integration engine to support any sensor and system:
- **70+ formats supported**
- **Up to 14 days for deployment of new format**

Tested & Proven

Scalable & Robust architecture supporting any kind of deployment- Cloud & on premise.

CymbIoT C&C Core Features

Maps
Operational GIS dynamic navigation maps.

Scalability
Endless connectivity with standard COTS HW.

BI Data Fusion
Real-time data & operational fusion of all systems.

Advanced VMS
Internal VMS and 3rd party video support.

Analytics
Video, Audio & Data Analytics turn data to triggers.

Automation
Flexible process automation wizards.

Architecture
Hybrid cloud and on premise deployments.
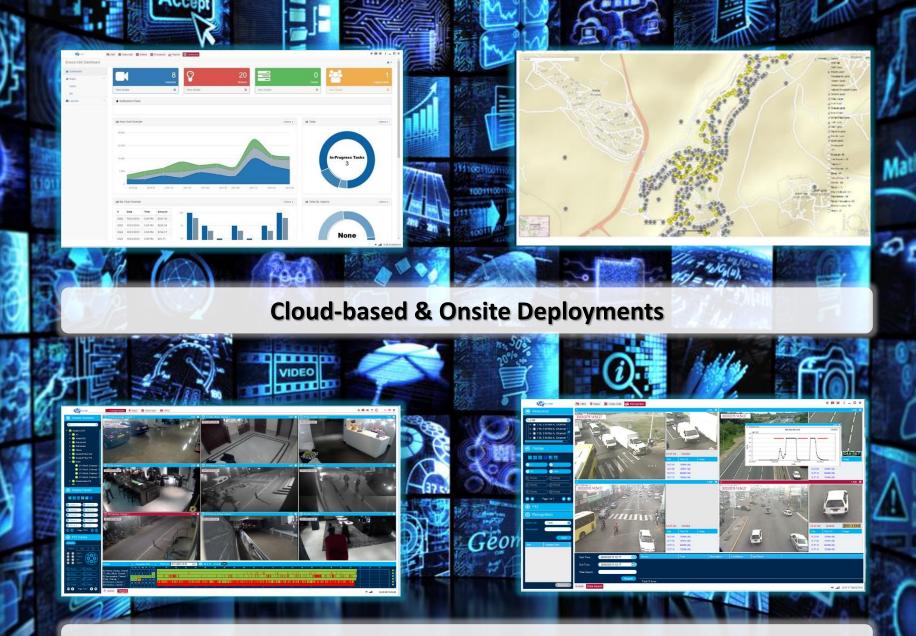
Agnostic
Integrate any 3rd party element.

Customization
On the fly UI design per need.

A Unified Interface for all Security & IoT Systems

Reporting & Task Management Module for Cross-system Queries

Cloud-based & Onsite Deployments

Support for Proprietary VMS & Internal Video Analytics

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External Deployment Example

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Surveillance Camera
With analytics for identifying traffic jams, crowds, etc.

Traffic Lights
Traffic light management system.

Smart Sign
Provides real-time instructions to drivers, commuters, and pedestrians.

Panic Button
For alerting First Responders, Traffic Police, etc.

Smart Parking
Tracking and location of free parking.

Smart Lights
Building wifi + on/off/dim by schedule or ambient light conditions.

Internal Deployment Example

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Surveillance Camera
With analytics for Face Recognition, Abandoned Luggage, and more

PA System
Delivers announcements, alerts, and notifications to commuters.

Smart Sign
Provides real-time information to commuters as well as ads.

Panic Button
For alerting driver, First Responders, central depot, etc.

Smoke Alarm
Identifying early fire & smoke signs.

CymbIoT Command & Control
CymbiOT integrates all data from sensors and systems, managing "handover" between different units and initiating procedures.

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Operational Scenario

Why CymbIoT?

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Scenario A – Bus Breakdown

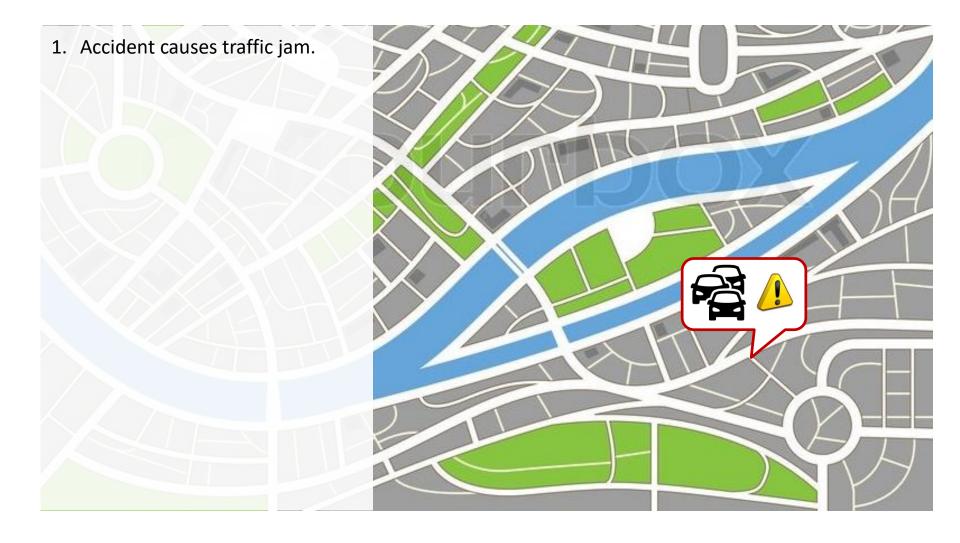1. Bus breaks down en route with commuters on board.

Scenario A – Bus Breakdown

1. Bus breaks down en route with commuters on board.

2. CymbIoT is alerted via:

   - Street cameras
   - On-board sensors
   - Commuter messages

Scenario A – Bus Breakdown

1. Bus breaks down en route with commuters on board.

2. CymbIoT is alerted via:

   - Street cameras

   - On-board sensors

   - Commuter messages

3. CymbIoT implements procedures and:

   - Sends replacement bus

   - Updates schedules in station smart signs

   - Alerts traffic police

   - Sends text message regarding new schedule & bus to commuters.

Scenario B – Traffic Jam

1. Accident causes traffic jam.

Scenario B – Traffic Jam

1. Accident causes traffic jam.

2. CymbIoT is alerted via:

   - Street cameras
   - Audio sensors
   - Commuter messages

Scenario B – Traffic Jam

1. Accident causes traffic jam.

2. CymbIoT is alerted via:

   - Street cameras
   - Audio sensors
   - Commuter messages

3. CymbIoT implements procedures and:

   - Alerts traffic police
   - Sends ambulance
   - Manages traffic lights around accident to reduce jam
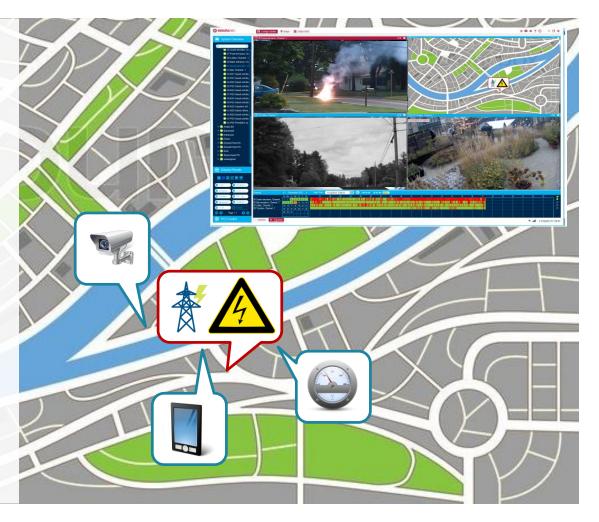   - Updates smart traffic signs in area to reroute traffic

Scenario C – Power Line Down

1. High voltage power line is down in the middle of a road.

Scenario C – Power Line Down

1. High voltage power line is down in the middle of a road.

2. CymbIoT is alerted via:

   - Street cameras
   - Power grid sensors
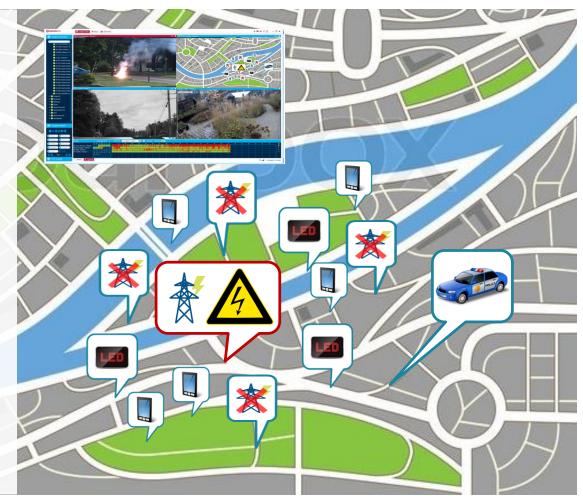   - Resident messages

Scenario C – Power Line Down

1. High voltage power line is down in the middle of a road.

2. CymbIoT is alerted via:

   - Street cameras
   - Power grid sensors
   - Resident messages

3. CymbIoT implements procedures and:

   - Sends traffic police to block road access
   - Alerts power company
   - Switches power off to the affected grid cell
   - Updates area traffic smart signs
   - Informs area residents via text messages

Scenario D – Train Breaks Down on Rails
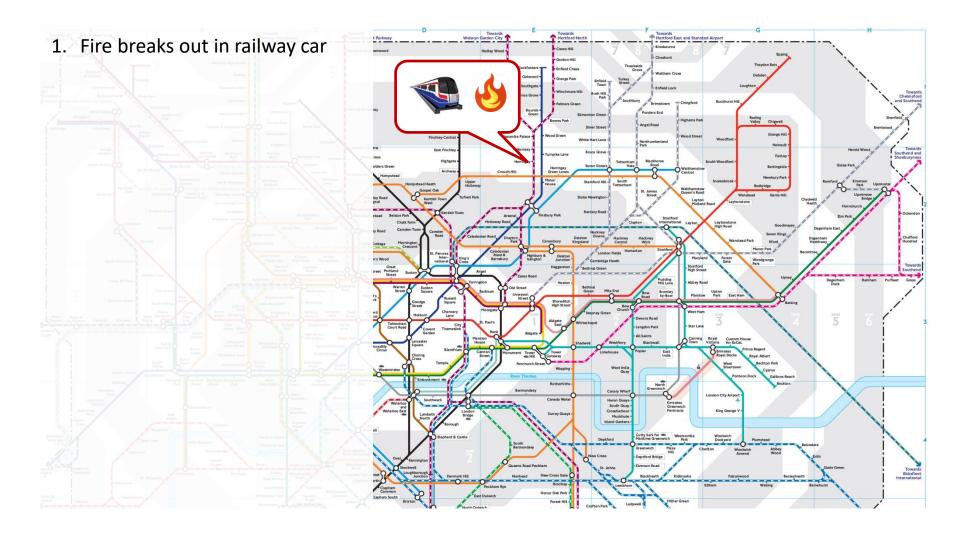
1. Train breaks down en route

Scenario D – Train Breaks Down on Rails

1. Train breaks down en route

2. CymbIoT is alerted via:

   - Rail sensors
   - Internal sensors
   - Surveillance cameras

Scenario D – Train Breaks Down on Rails

1. Train breaks down en route

2. CymbIoT is alerted via:
   - Rail sensors
   - Internal sensors
   - Surveillance cameras

3. CymbIoT implements procedures and:
   - Alerts main control
   - Updates schedule on station smart signs
   - Sends buses to pick up passengers from train
   - Sends repair crew
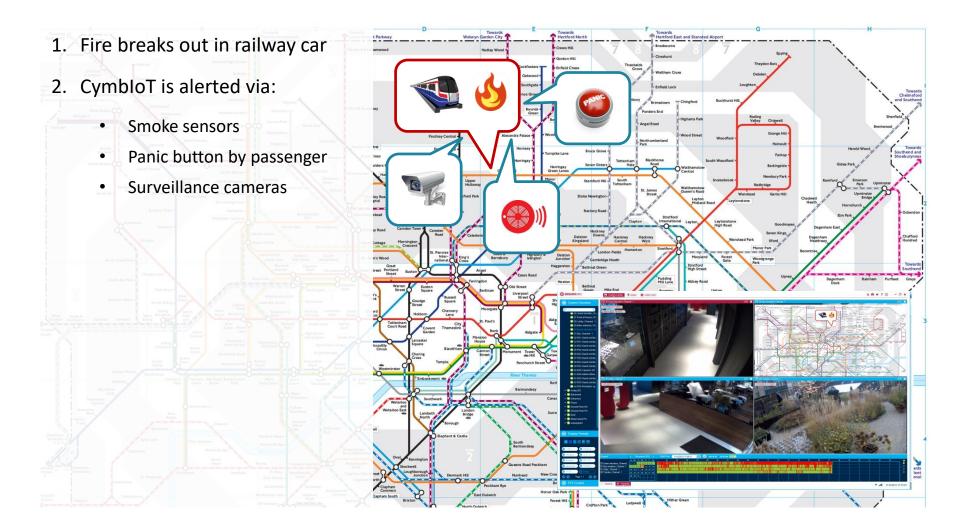   - Reroutes around stalled train to avoid collisions

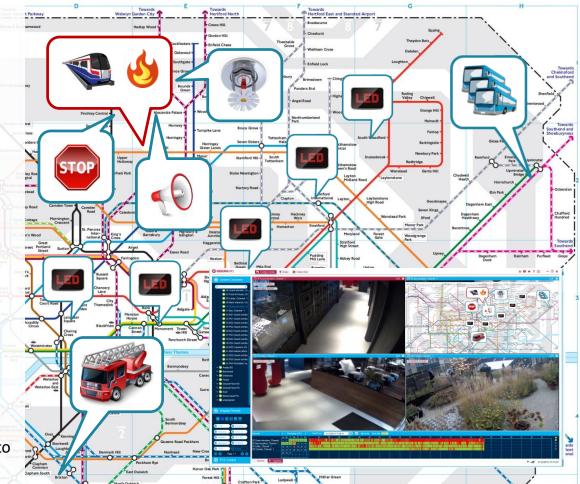# Scenario E – Fire in Railway Car

1. Fire breaks out in railway car

Scenario E – Fire in Railway Car

1. Fire breaks out in railway car

2. CymbIoT is alerted via:

   - Smoke sensors
   - Panic button by passenger
   - Surveillance cameras

Scenario E – Fire in Railway Car

1. Fire breaks out in railway car

2. CymbIoT is alerted via:

   - Smoke sensors
   - Panic button by passenger
   - Surveillance cameras

3. CymbIoT implements procedures and:

   - Stops train & implements fire control measures inside train
   - Alerts main control
   - Announces evacuation via PA
   - Sends buses for evacuation
   - Alerts fire department
   - Updates schedule on station smart signs
   - Reroutes around stalled train to avoid collisions

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Why Choose CymbIoT C&C?

A single Command & Control interface for all existing and new sensors, systems, and subsystems, providing:

Rapid, out-of-the box integration.

Immediate ROI from Day One

Interface between all data & systems.

UX for operational & executive levels.

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Some Global References…

NETHERLANDS
Hyatt Hotel Chain
Management & Security

ISRAEL
4 Smart City Programs

MEXICO
Federal Jail Management
& Security

JAMAICA
Kingston Safe City

NEPAL
International Airport
Management & Security

NETHERLANDS
Private port Management
& Security

SINGAPORE
Safe Transit Program

INDIA
Petrol Station
Management & Security

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HEADQUARTERS

Mail: P.O.B 37, Azur 5819001
ISRAEL
Tel: +972 (0)3-631-6881
Contact Us: info@cymbiot.com

SINGAPORE OFFICE

Mail: 6A Shenton Way
SINGAPORE 068807
Contact Us: APJ@cymbiot.com

ROMANIA OFFICE

Mail: Hareju 29, 2nd District, Arh.
Bucharest, ROMANIA
Contact Us: office@cymbiot.ro

ONLINE CONTACT

www.cymbiot.com/contact