Security Camera Service
Introduction and Improvements

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SUBJECT MATTER EXPERT
SECURITY CAMERA SERVICE
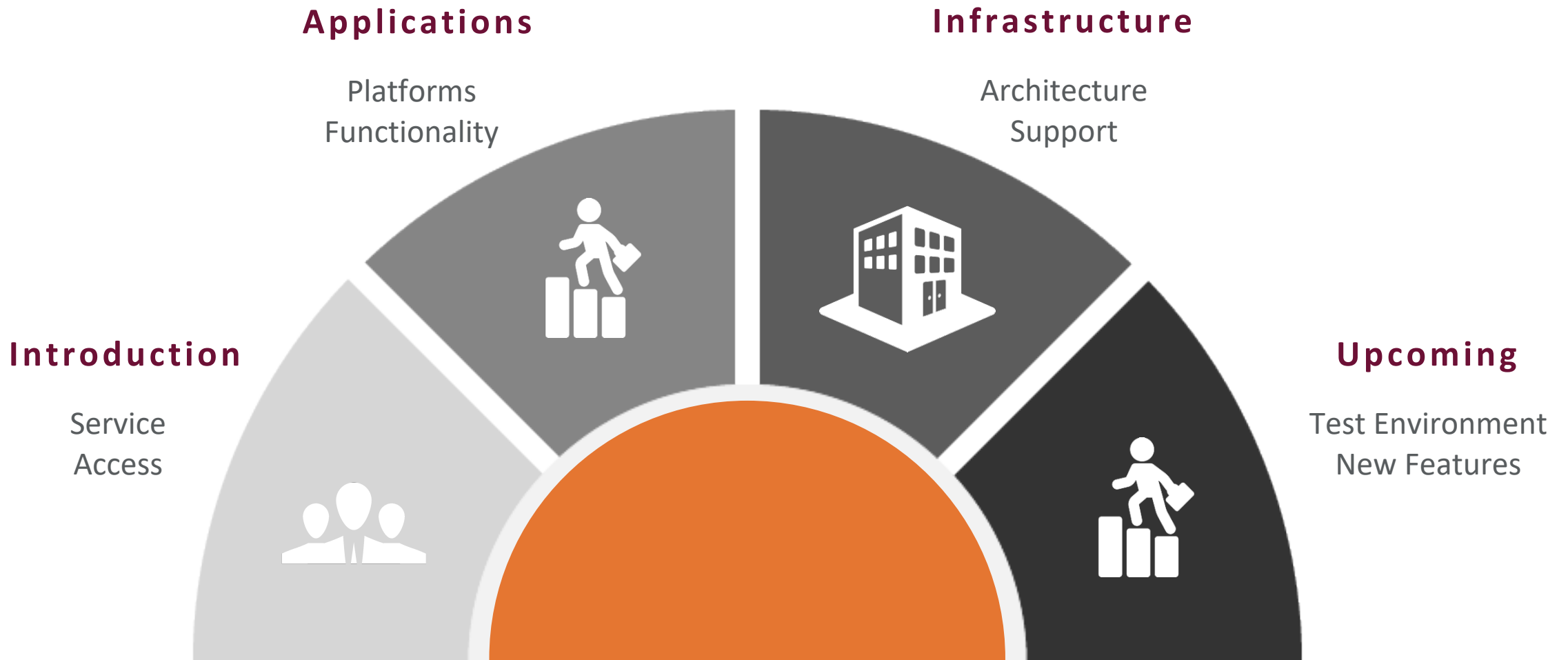
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VIRGINIA TECH™

Agenda

Applications

Platforms
Functionality

Infrastructure

Architecture
Support

Introduction

Service
Access

Upcoming

Test Environment
New Features

Service Overview

Deter crime and assist in protecting the safety and property of VT community

Enhance Quality of Life
Integrate Best Practices
Safety and Security Technologies

Policy 5617

Protect individual privacy rights

University Core Values
State & Federal laws
Regulate use of the system

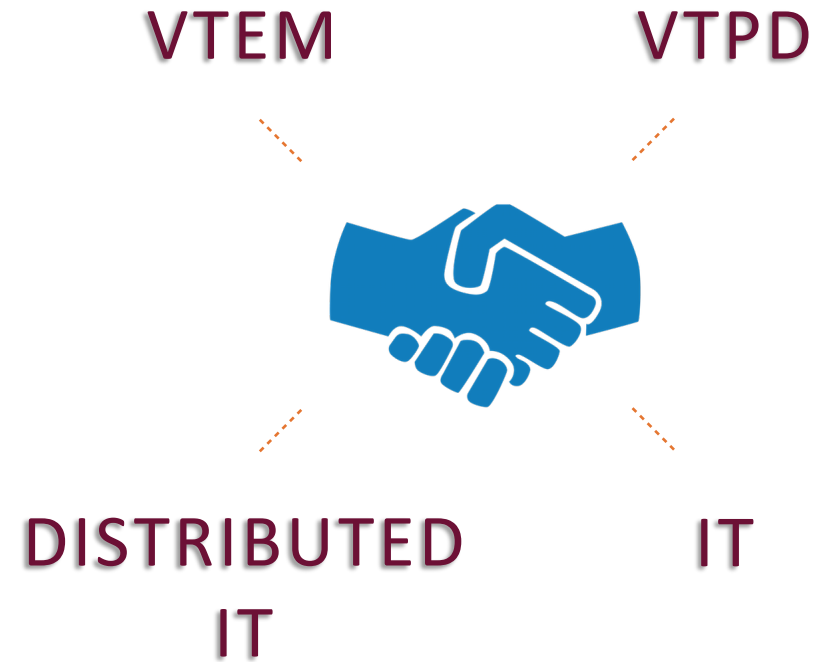»Enable Public Safety & First Responders

Collaboration

- ✓ University Departments

Roadmap and service strategy:

- ✓ VT Police Department
- ✓ VT Emergency Management

Policy 5617:

- ➢ Surveillance Oversight Committee
- ➢ 15 day video retention

VTEM   VTPD

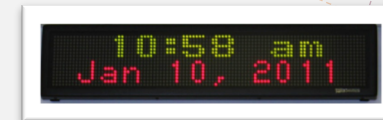DISTRIBUTED   IT
IT

Support

Single support team

Support more than 670 cameras

Support program growth
of ~ 100 cameras / year

Investigate, develop, and implement

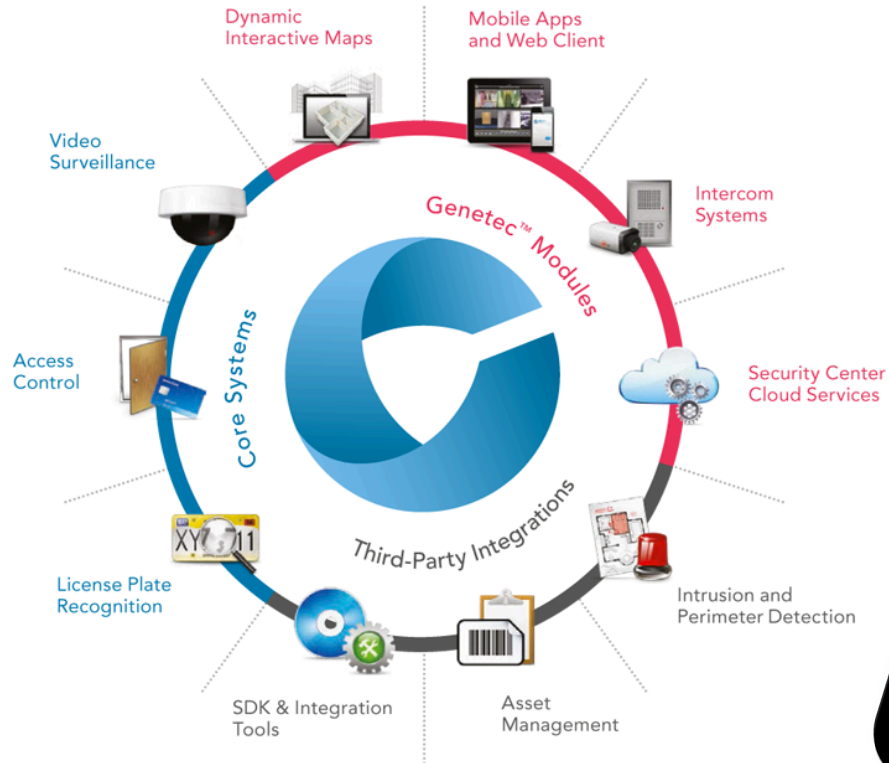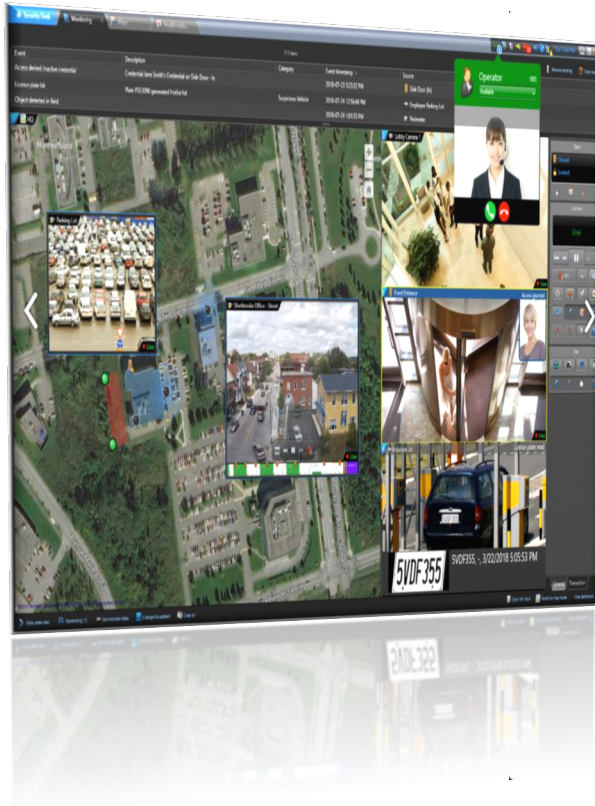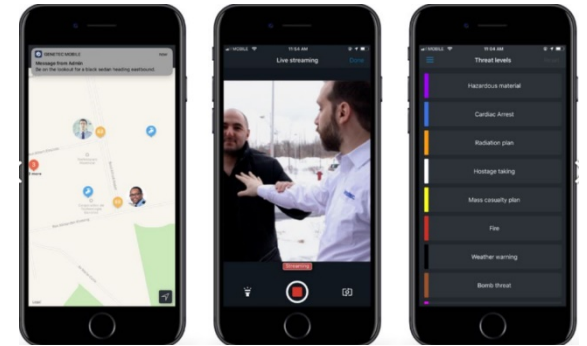new features and functionality

Services

UNIFIED COMMUNICATIONS

VT ALERTS

SECURITY CAMERAS

Applications

Platforms

Software Based

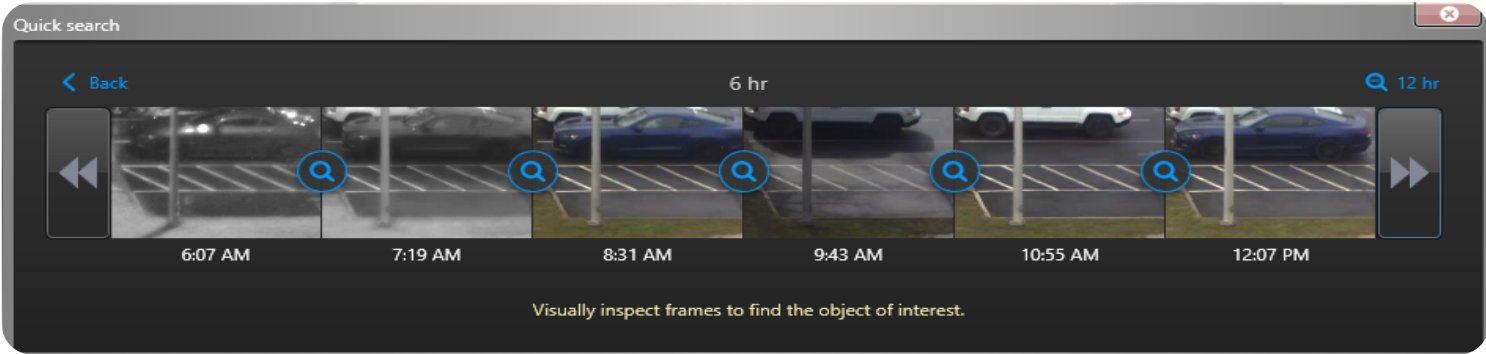## Mobile Application

Web Client

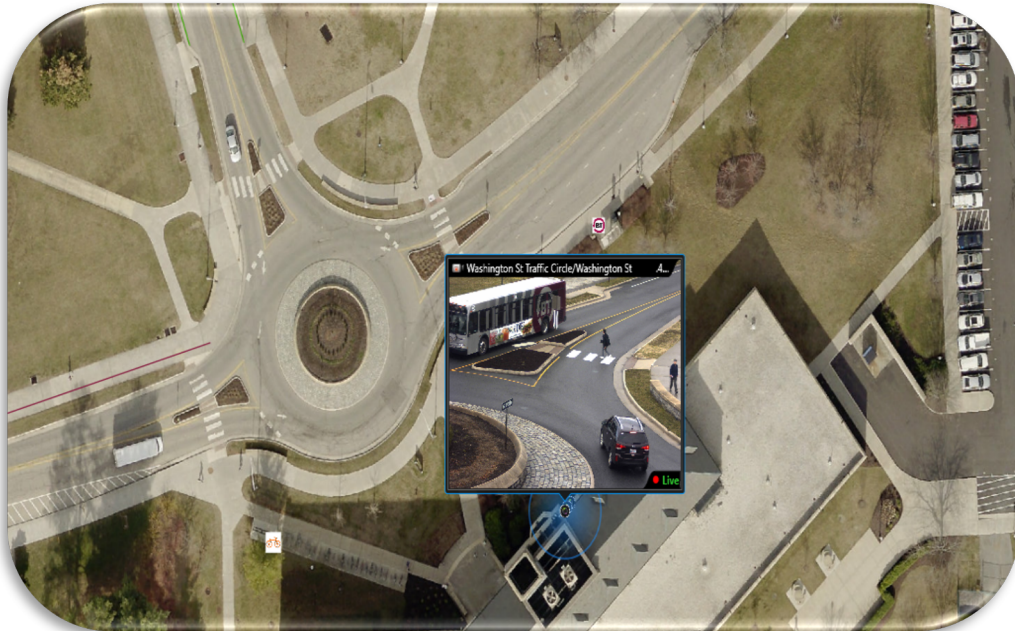# Features

Named List

Quick Search

Multiple Views

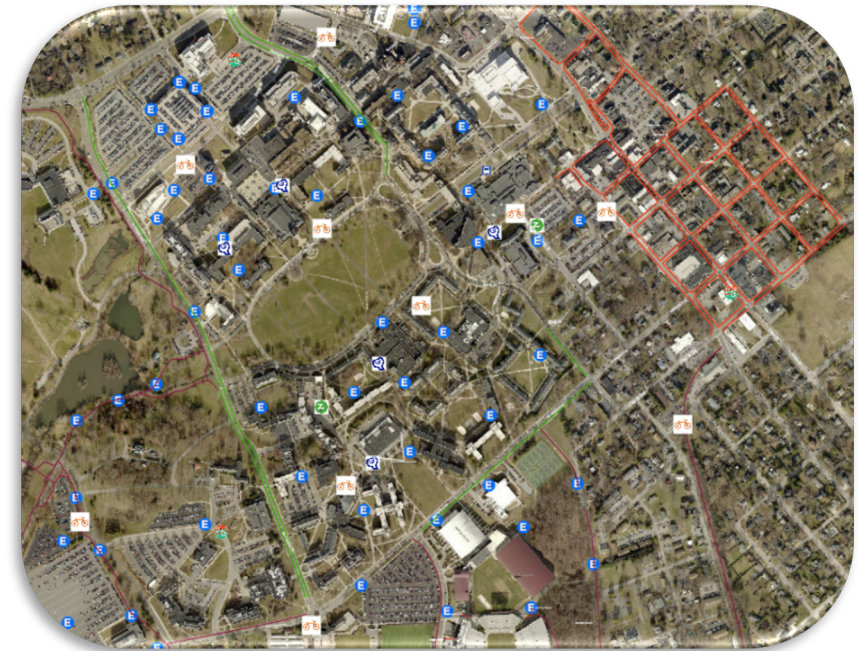# Outdoor Mapping Implementation

ArcGIS

Zoom in for camera pop-up view

Road Closures

Numerous layers available

Visual Tracking

Visual Tracking

Visual Tracking

Visual Tracking

Infrastructure

Security Camera
Architecture

- VT
- NVC

IP Camera

Network

Archiver

- Storage increase 40%
- 240 TB -> 320 TB

Directory Server

- Authenticate users
- Manages device access

Management Tools

Bigfix for server management

➢ Single console endpoint management platform
➢ Security Patches and OS Updates
➢ Manage heterogeneous environment
➢ bigfix-users-g@vt.edu

OEM utilities for camera updates

➢ Individual application for configuring cameras
➢ Individual or Bulk updating
➢ Able to remotely update network parameters, firmware, etc.
➢ Only limitation is client/camera has to be on same subnet

Latest security is applied to servers and cameras as soon as available.

Monitoring and Reporting

System State Report

Genetec Report

ServiceNow Report

Health Dashboard

It is important to be proactive instead of reactive.

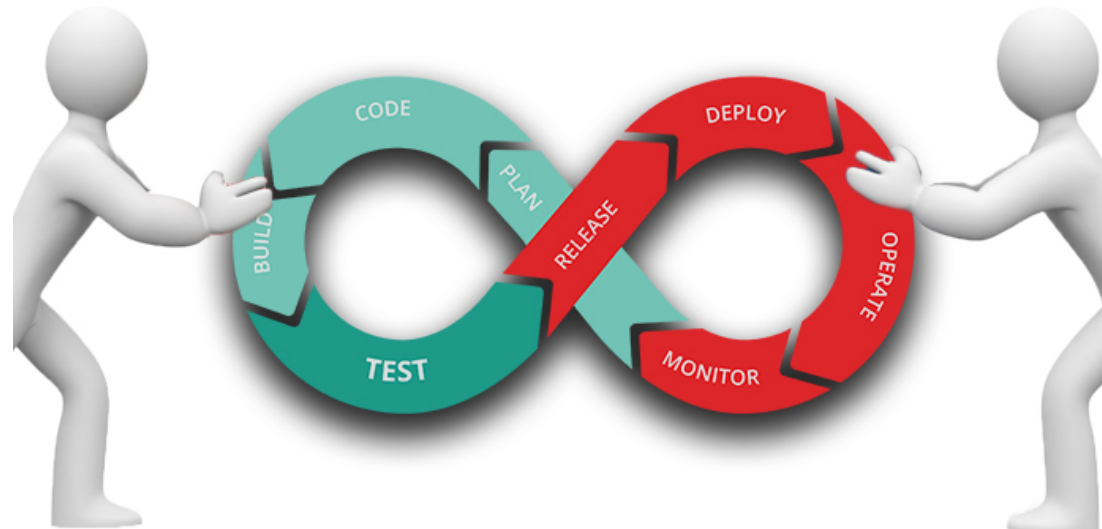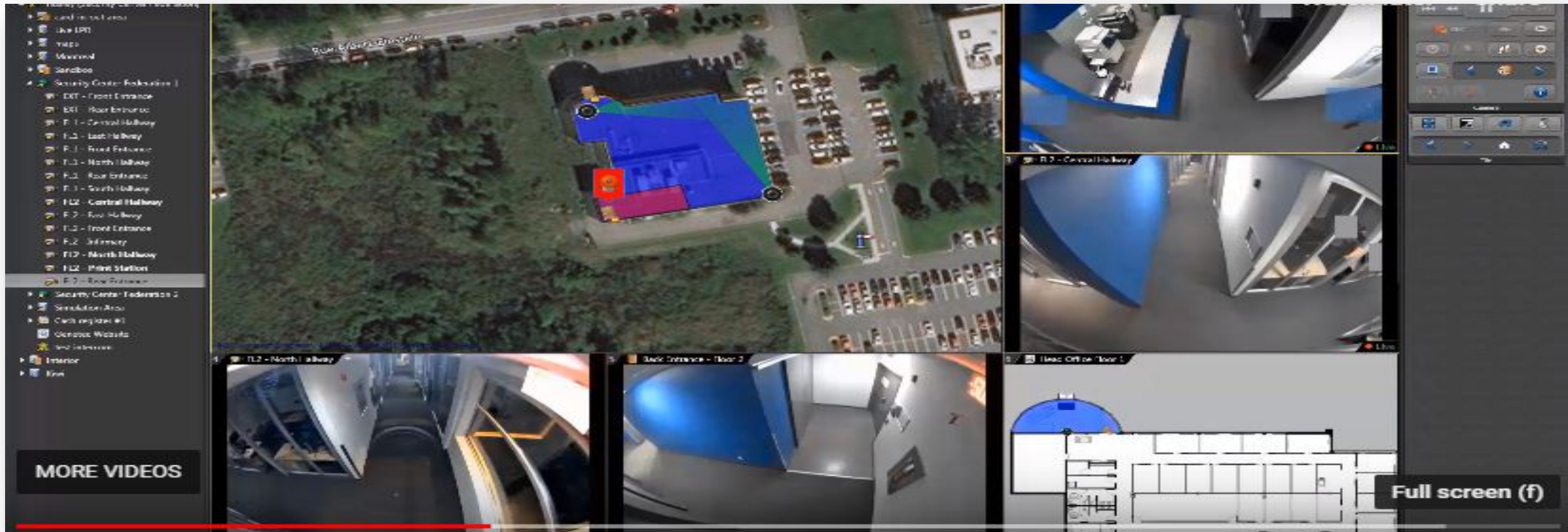# Upcoming

Test Environment

Agile deployment

Load and performance testing

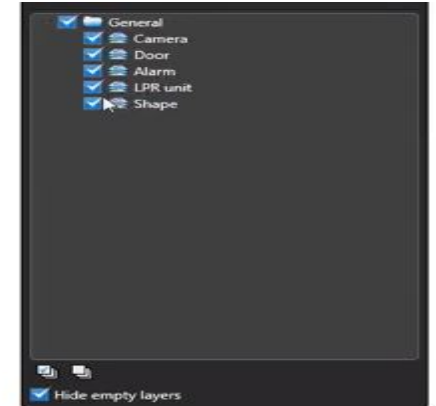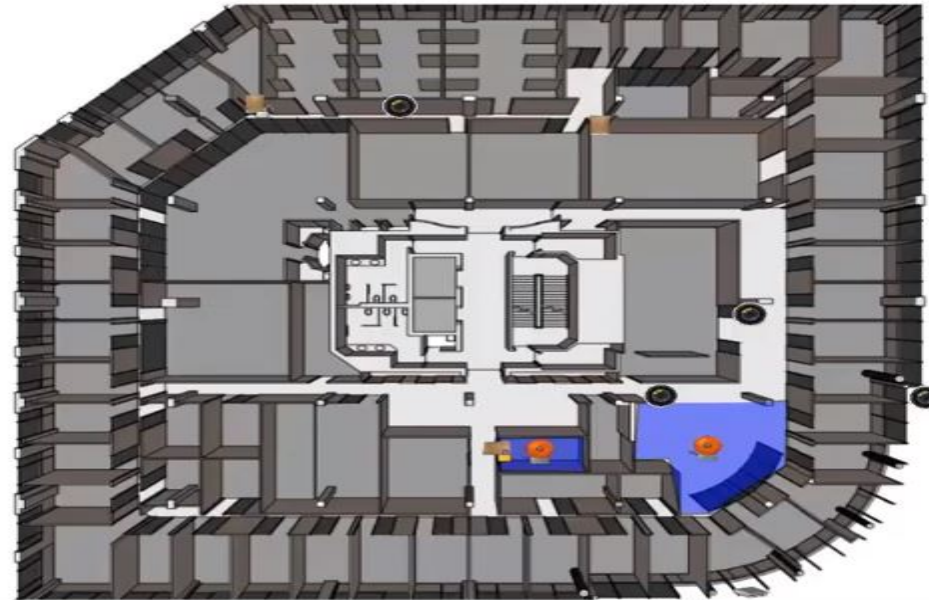New functionalities tested by users early

- ➢ Repeat process
- ➢ More efficient
- ➢ Newest software releases

Indoor Mapping

- ❖ Integrate the GIS maps that exist now with new indoor maps
- ❖ Seamless flow from outdoors to indoors
- ❖ Hyperlinks for multiple floor connectivity

Indoor Mapping

Operators can show and hide layers, simplifying the map's content.

❖ Shows floor plan throughout building with layers for additional details
❖ Pop-up camera views or lasso effect for multiple views
❖ Show emergency phones, fire alarm panels, AED units, etc
❖ Seamlessly pan back to GIS view

New Features 2020

New Features 2020

New Features 2020

Questions?

Thank You !

Questions & Answers
»Conference Session

Takeaway Messages
»It is important to be proactive instead of reactive.
»Latest technology enables public safety.