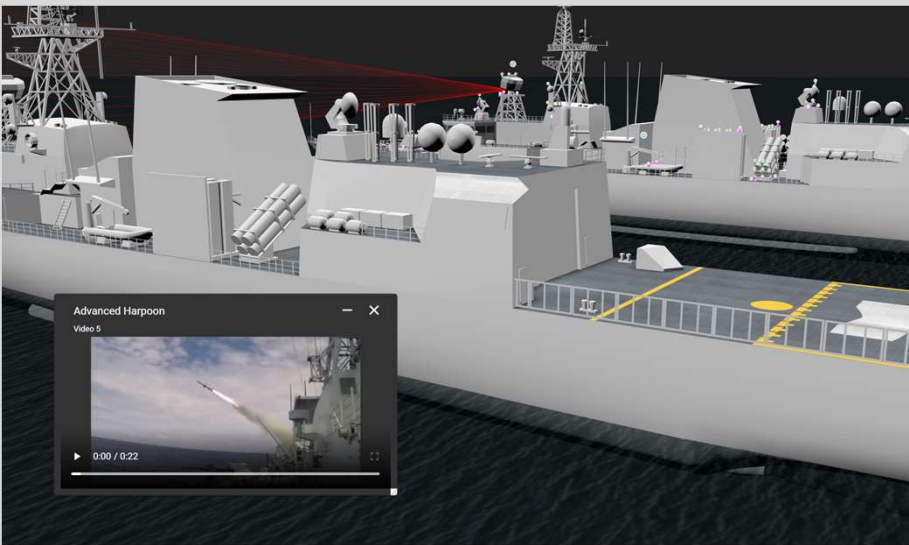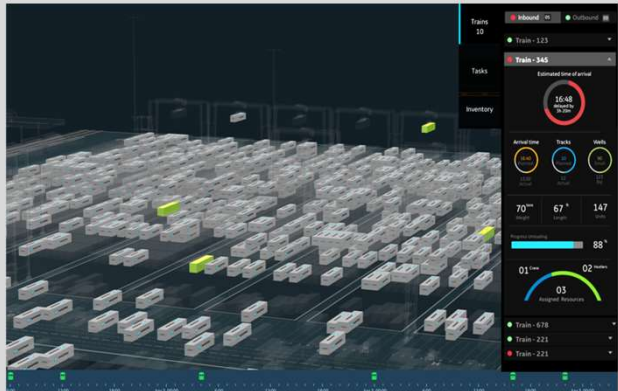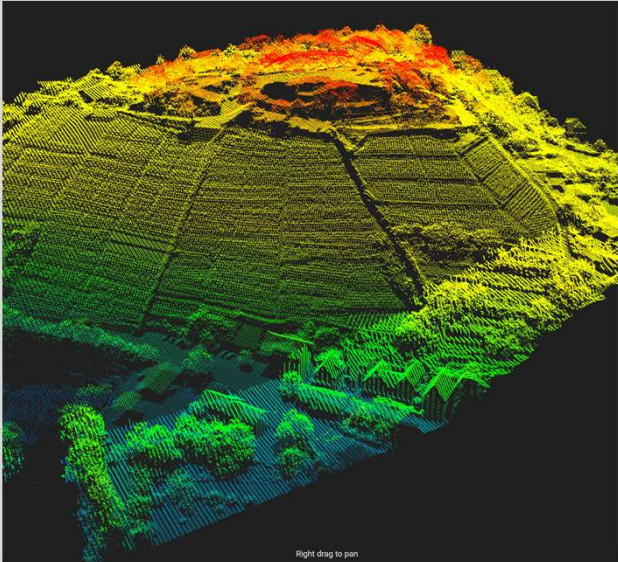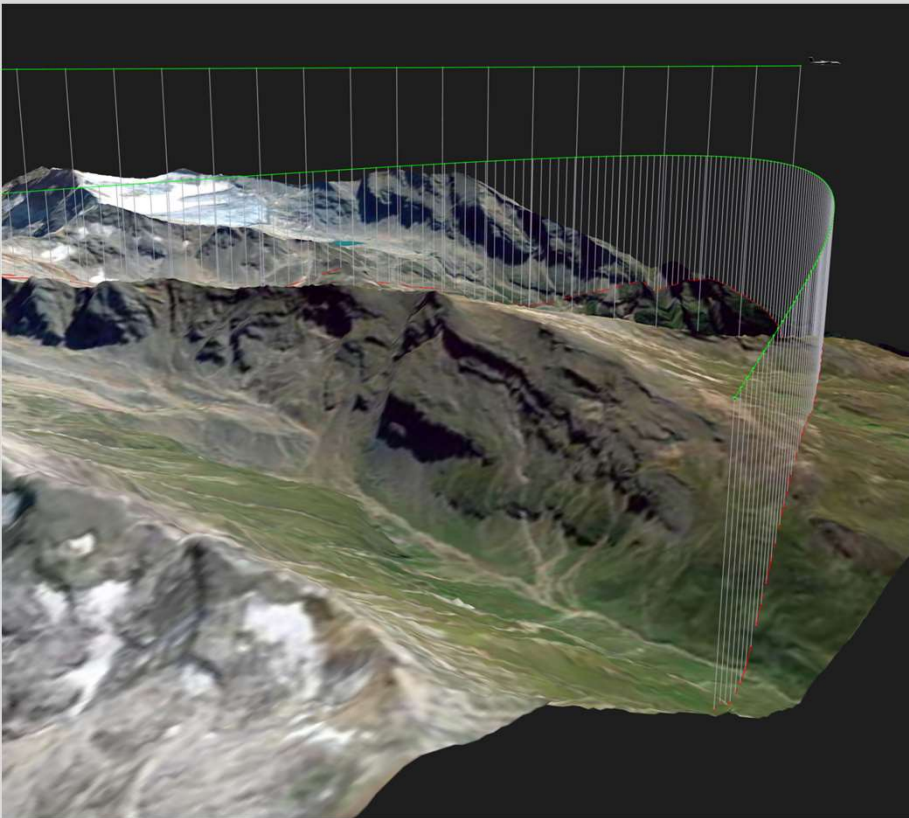# INTELLIVIEW 3D™ Engine

Digital Twins

Command, control, intelligence

Training

High-performance game engine core

3D web applications

Real-time

Interactive

Animation

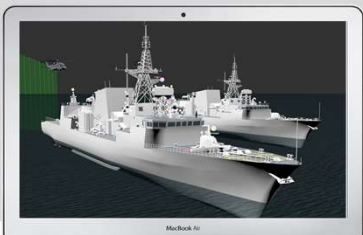Any browser, OS, device

NO software or extensions to install

DATIFEX

Services

Solution engineering

3D UX design and development

Implementation

Support

chris.erickson@datifex.com
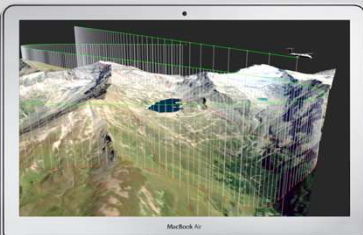
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IntelliView 3D™ Engine

Real-time interactive 3D web applications

DigitalTwin 3D
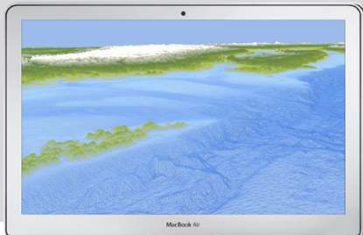
Digital twins

Digital prototypes

Real-time subsystem interaction

Drag and drop disassembly

C2iView 3D

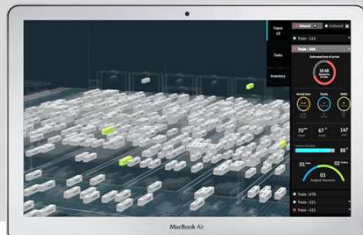Command, control, intelligence

Remote management

Playback and training

Real-time data-driven assets

OceanView 3D

Coastal situational awareness
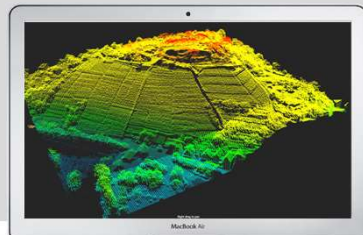
Subsurface situational awareness

Visual environmental conditions

Real-time data-driven assets

TerminalView 3D

Transportation terminals C2I

Intermodal logistics C2I

Distributed operations
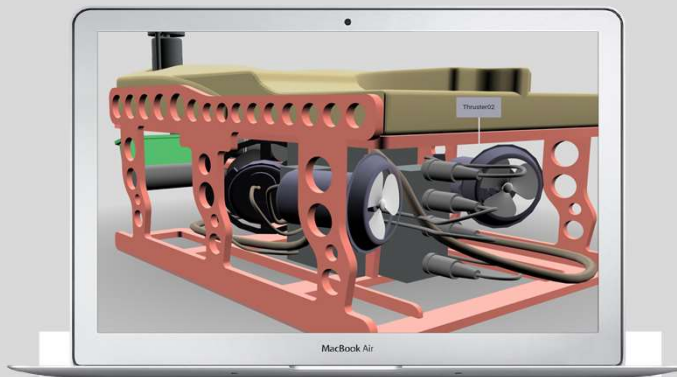
Real-time data-driven controls

LidarView 3D

Interactive LiDAR

Immersive point clouds
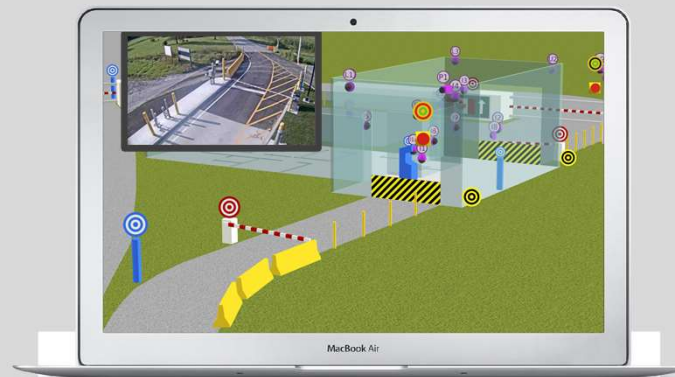
Integration of data sources

Real-time animation

DATIFEX

IntelliView 3D™ Engine

Real-time interactive 3D web applications

Why?

Natural experience

"Single pane of glass"

Broader group of users

Collaboration

Reduced time from insight to action

Safety

Communication

Training

Requirements

Chrome, Safari, Edge, Firefox

Win10, MacOS, iOS, Android, Linux

NO executables

NO extensions

Laptops

Tablets

Phones

ANY digital model

Technical

High-performance game engine core

Real-time interactive web apps

10,000+ interactive objects

Unlimited users

Data-driven

Scalable

External controls

JavaScript Libraries

INTELLIVIEW 3D™ Engine

Real-time interactive 3D web applications
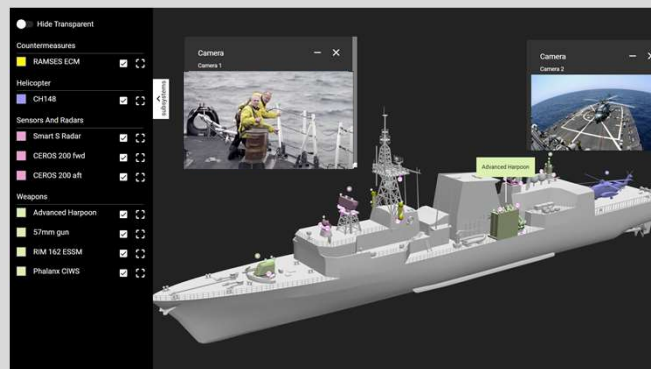
Begin with AutoCAD, 3ds Max, Blender, .obj digital models.

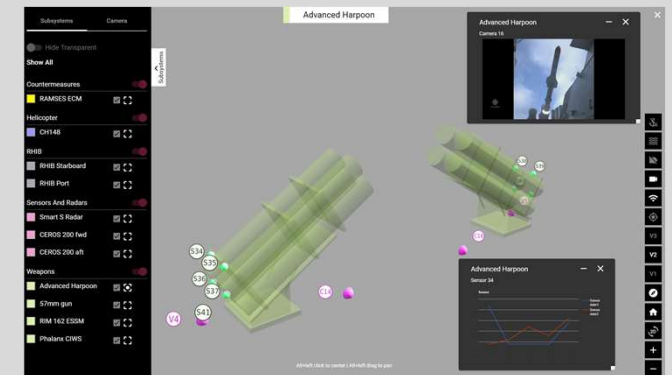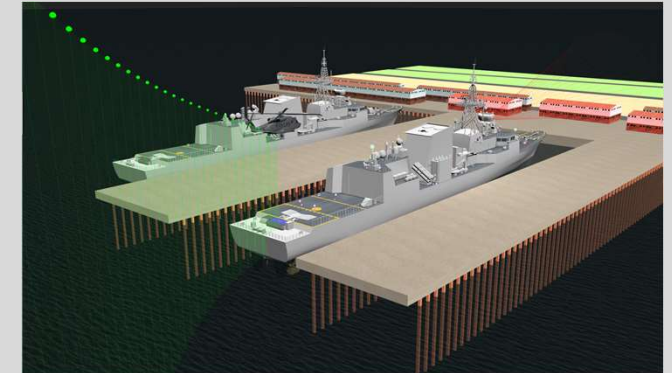Watch real-time video sources by clicking on cameras on the ship.
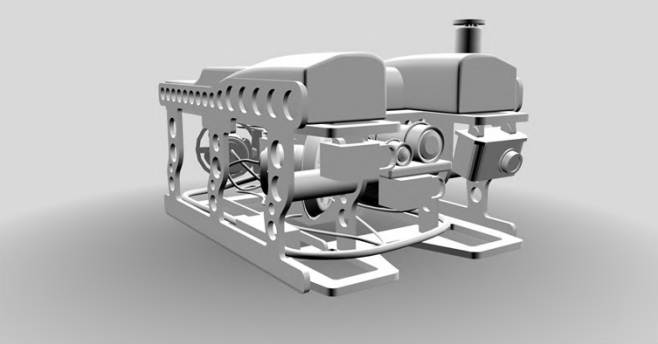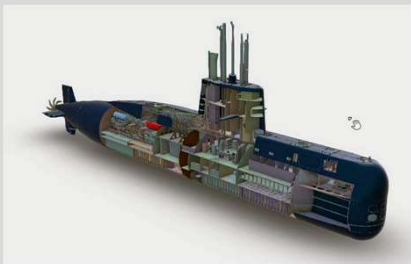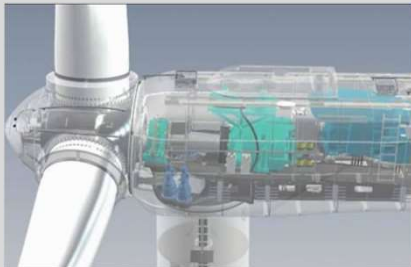
Investigate subsystem detail and sensors.

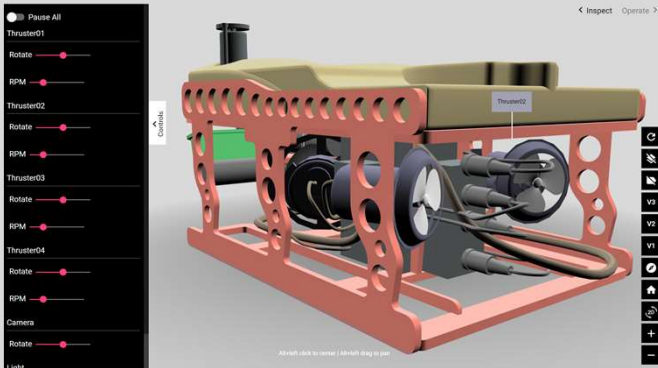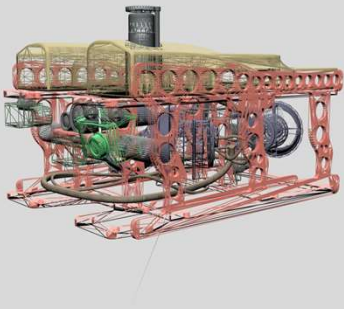Watch the operation of radar, helicopter, RHIB and other subsystems using stored or real-time data.
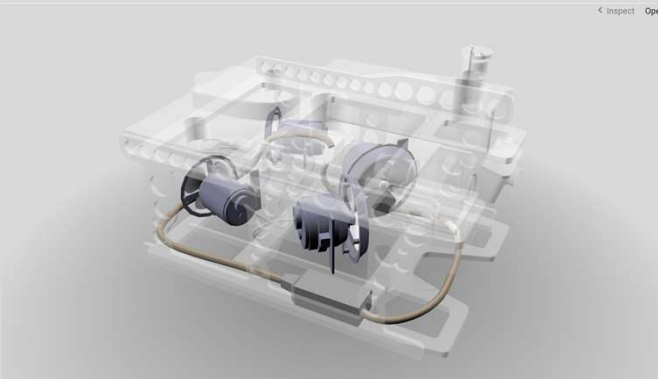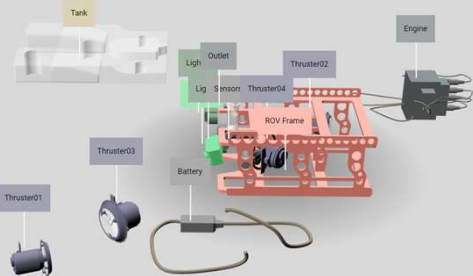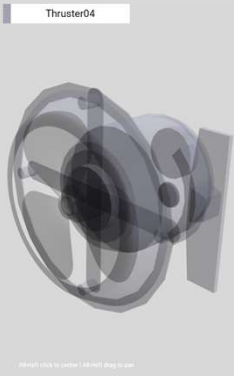
Use game engine to detect RADHAZ.
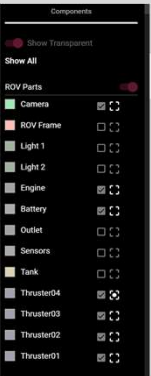
22

DigitalTwin 3D

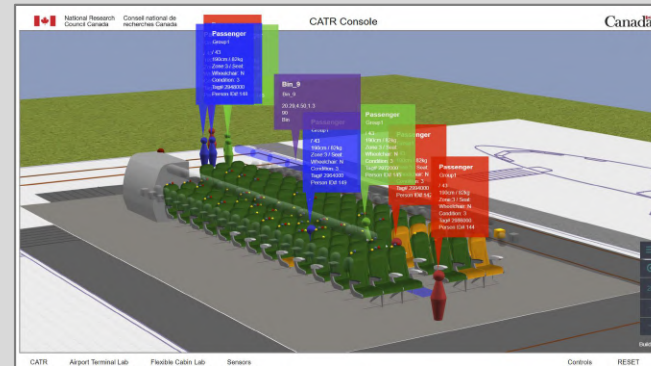Convert static AutoCAD, 3ds Max, Blender, .obj digital models into interactive and animated digital prototypes.

Use controls to operate and test the prototype and its components.

Drag components to deconstruct prototype

DigitalTwin 3D

FLEXIBLE CABIN LAB

Track passengers and crew in real-time and turn on tags to show passenger meta-data.

Associate aircraft cabin sensors to digital objects to watch real-time activity, and for playback.

Everyone with access to the network can view and interact with the aircraft and its sensors.

Communicate research and results to management and customers by playing back recorded data at any time and from any computer with a modern browser.
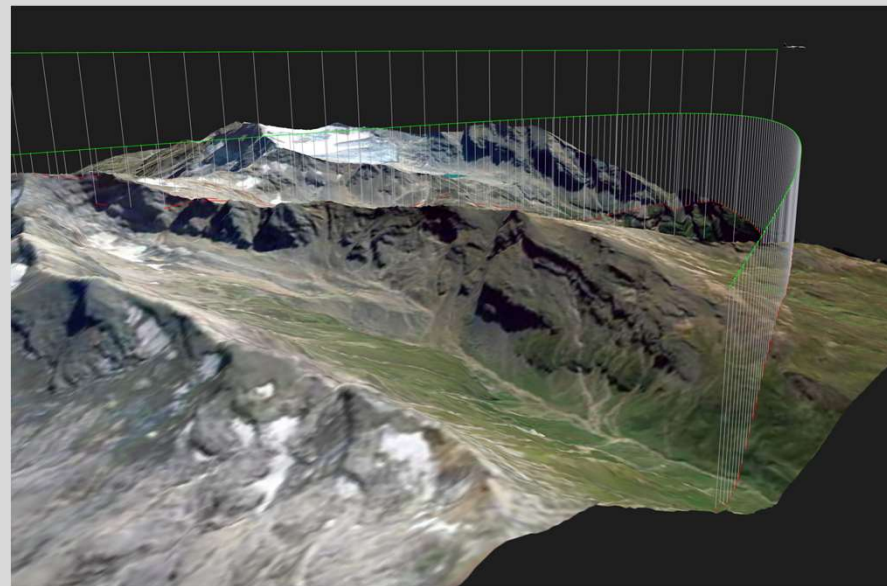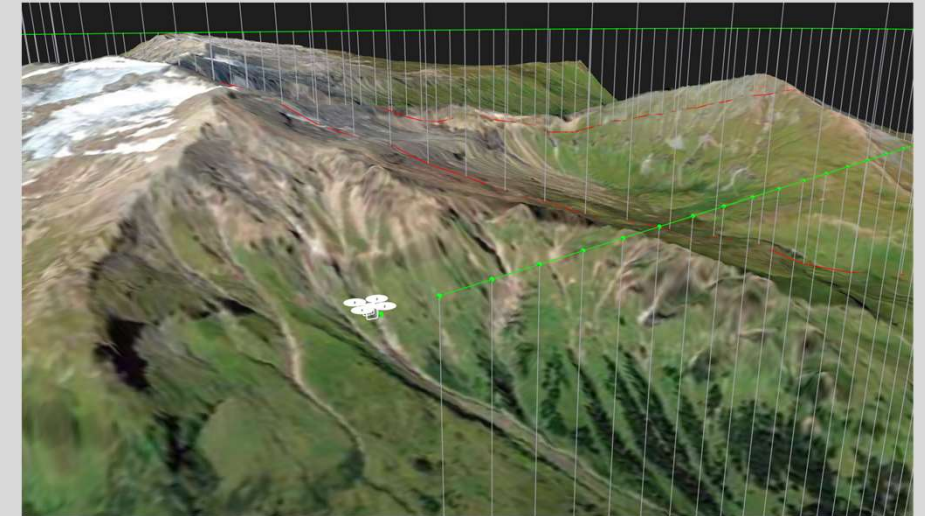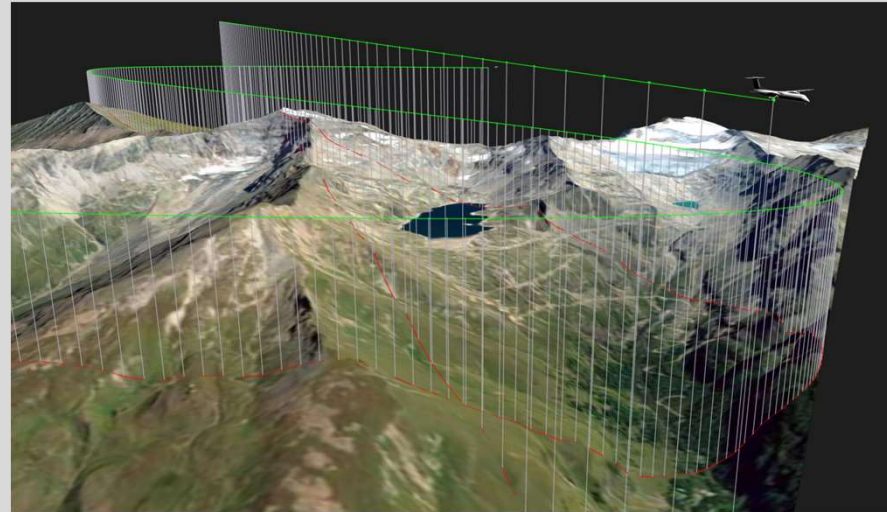
Unmanned aerial vehicles

Swarm drones

Missile defense systems
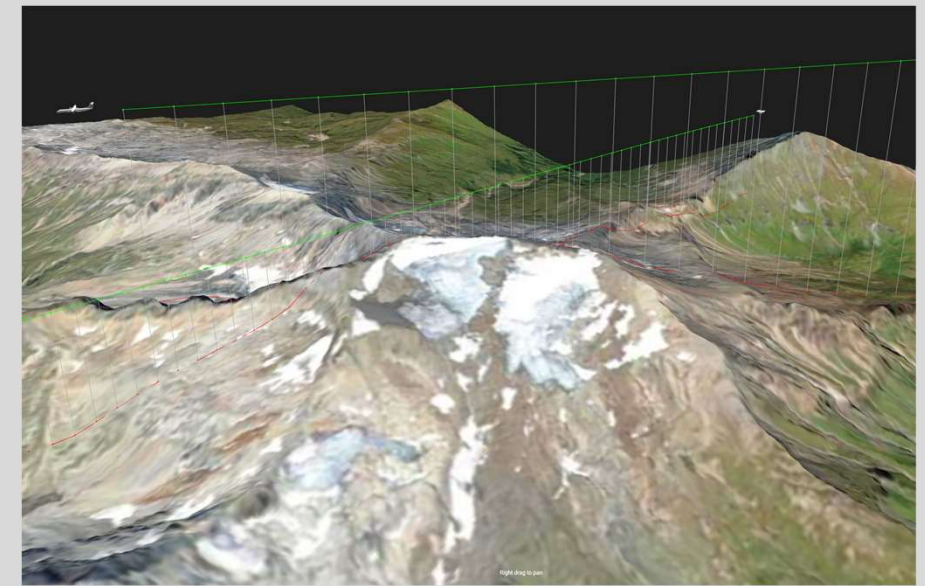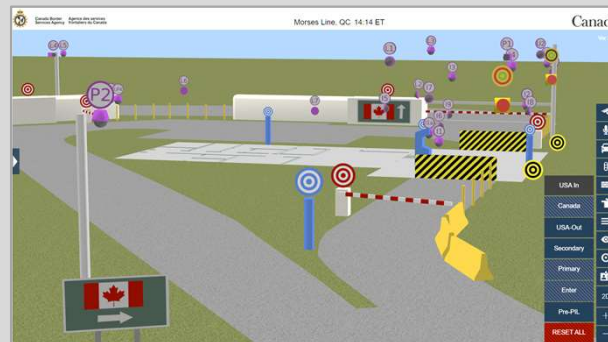
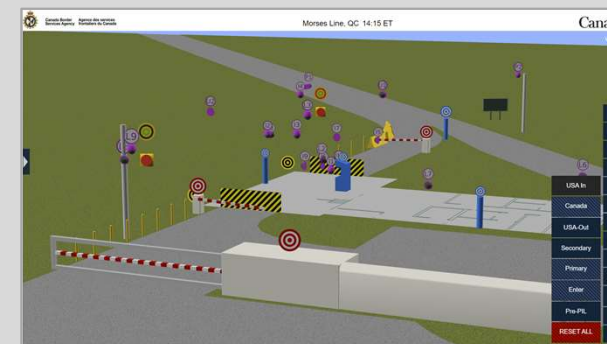Control gates, doors, lights and licence plate readers.

View real-time video feeds by selecting a camera.

Integrate with backend systems.

Playback stored data for training and forensics.

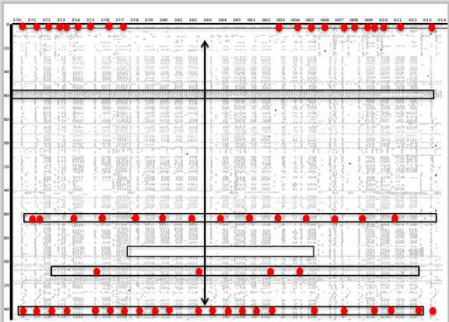Collaborate with supervisors and other staff simultaneously connected to border facility.
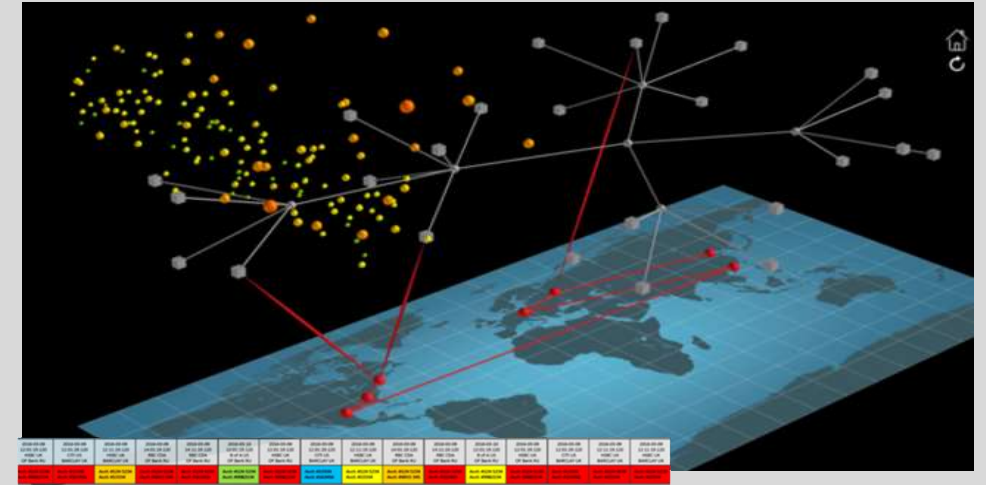
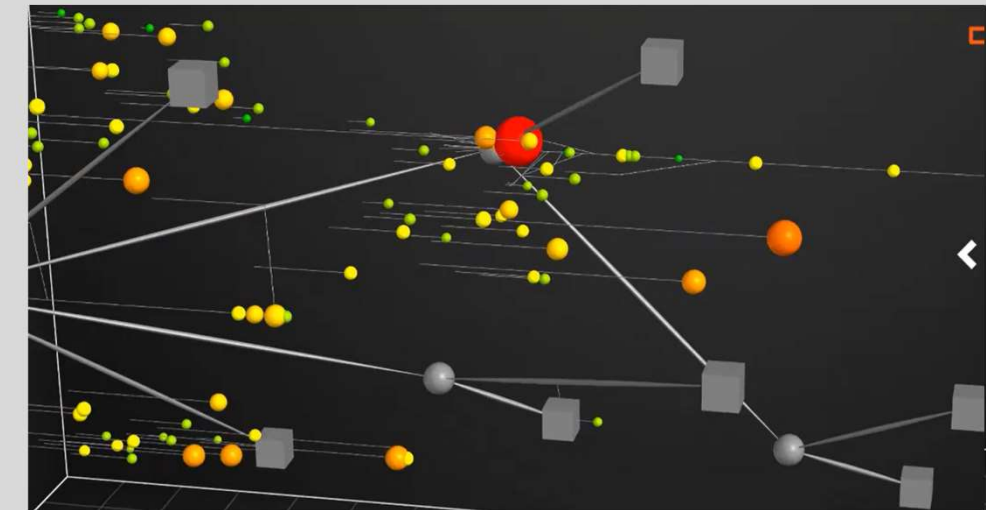Combine legacy systems into a single pane of glass.

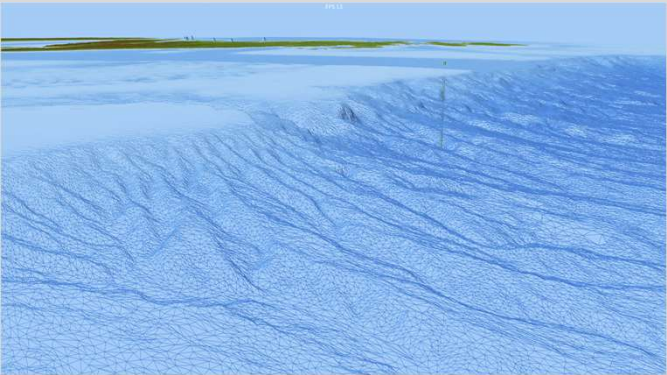Watch real-time progression of viruses through public and private networks.

Click on objects to see meta data, and to take control of routers and switches.

Playback recorded data for forensics and training.

OceanView 3D

Investigate ocean topology generated with opensource mesh data.

Track whales and submersible routes in real-time.

Watch animation of iceberg movement.
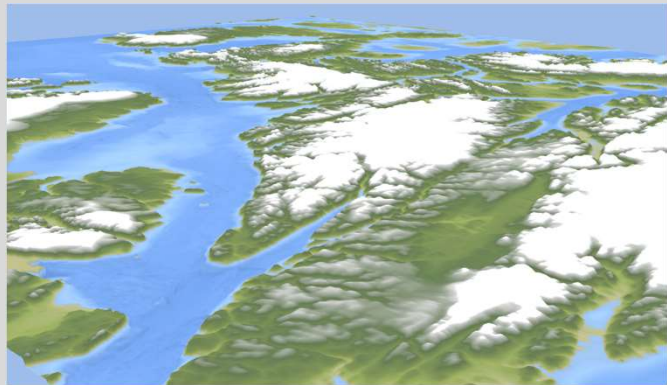
Superimpose shipping lane, protected areas, dedicated fishing locations and navigation aids.

GE Transportation

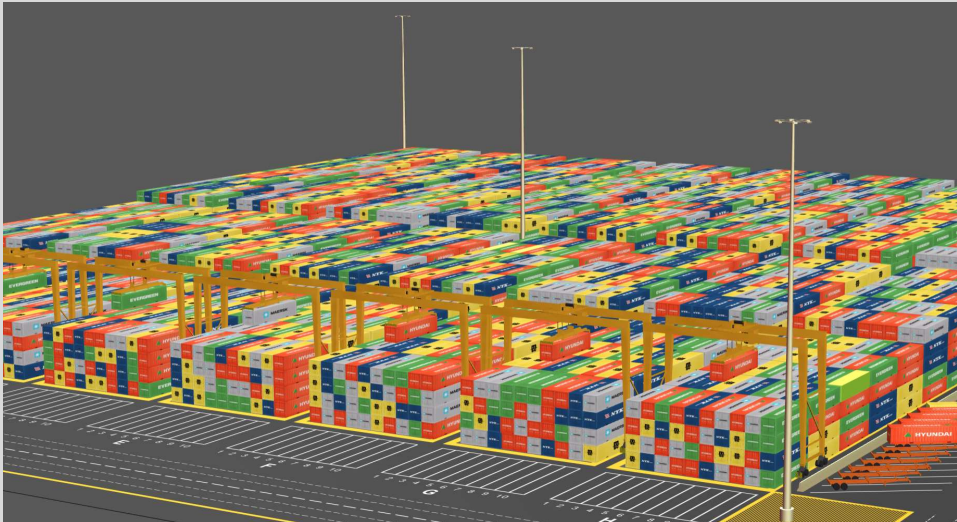**TerminalView 3D**

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AI to detect and automatically correct operational errors in real-time

Real-time controls
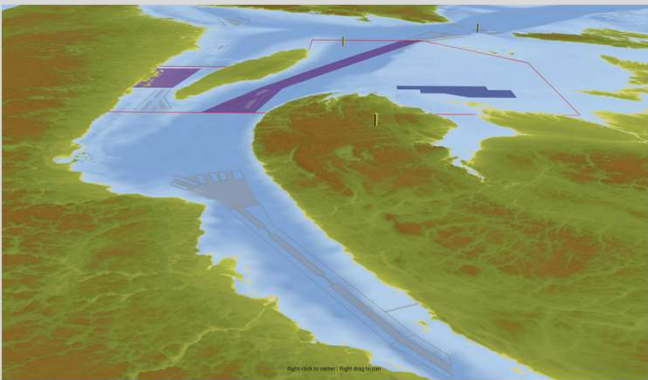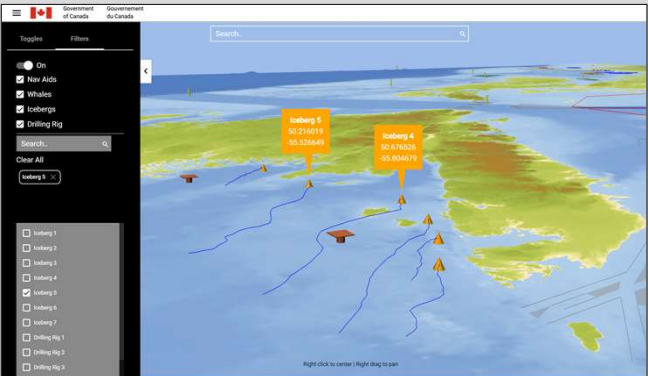
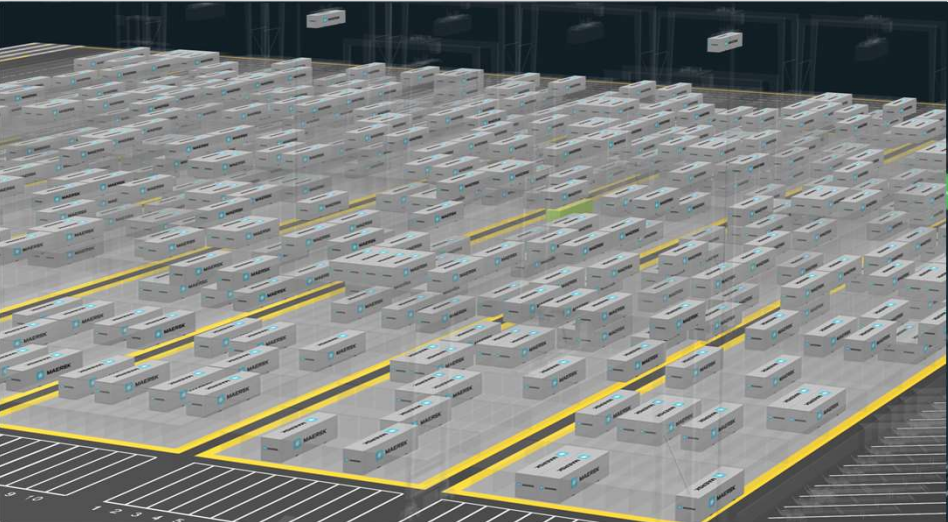Excel source for yard definition
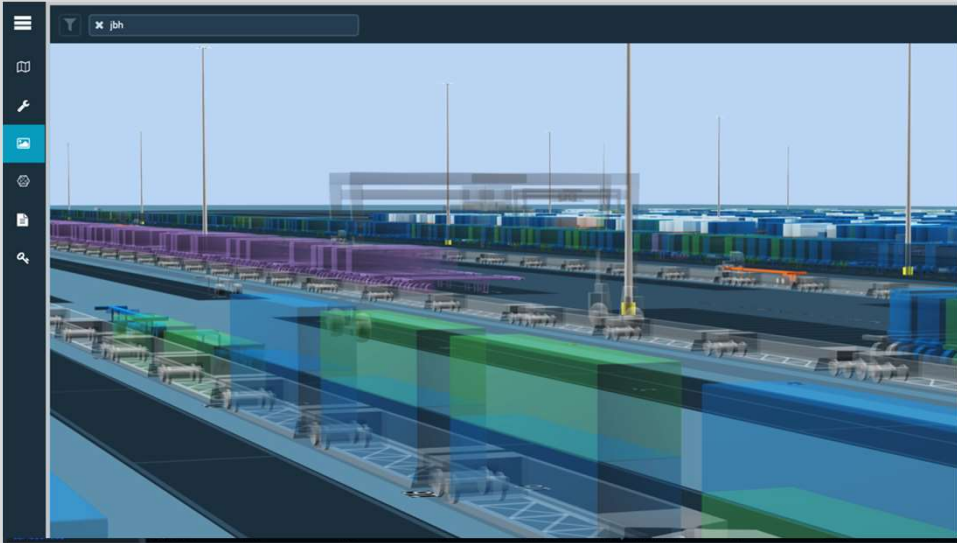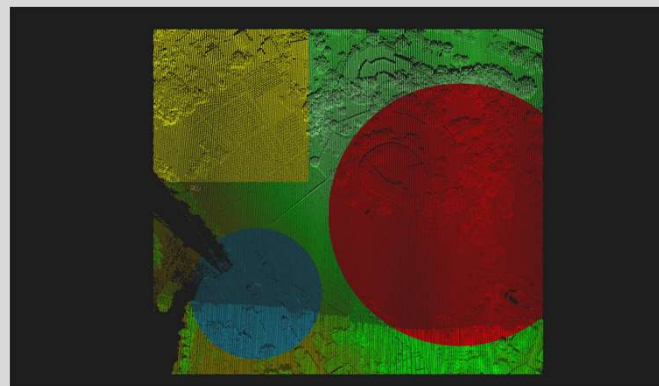
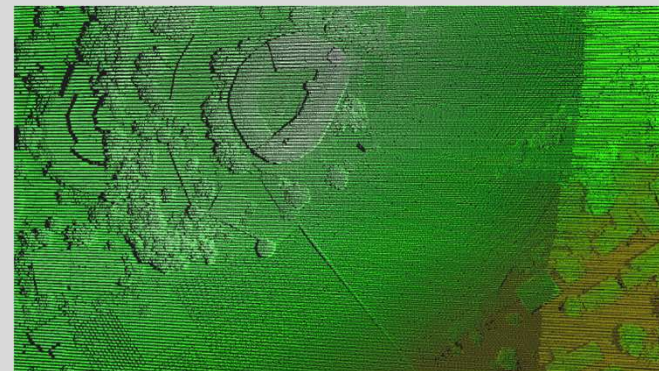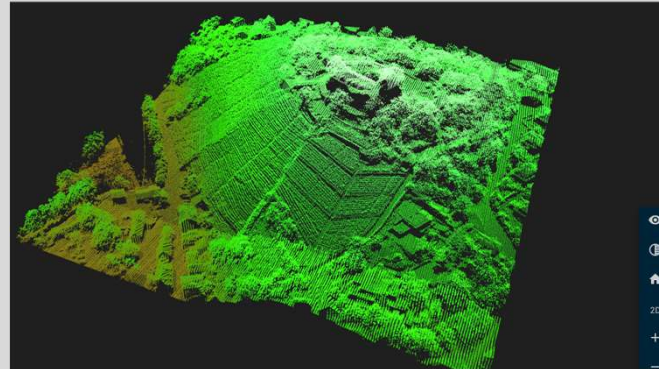Existing real-time and static data sources

Watch 10's of thousands of containers moving through the port in real-time.

Filter the venue to reveal information that cannot be seen in databases.

Explore LIDAR and point cloud data sources.

Apply colour to points based on altitude data.

Look at scene from a 2D orthographic view.

Add real-time animated objects (i.e. tank) to static LIDAR environment.

Combine multiple sources of data into a single pane of glass, like an autonomous vehicle's LIDAR vision system and heat map sensors to see what the vehicle perceives in real-time.
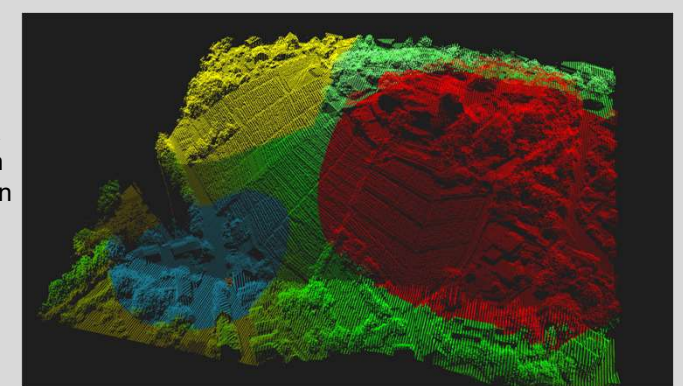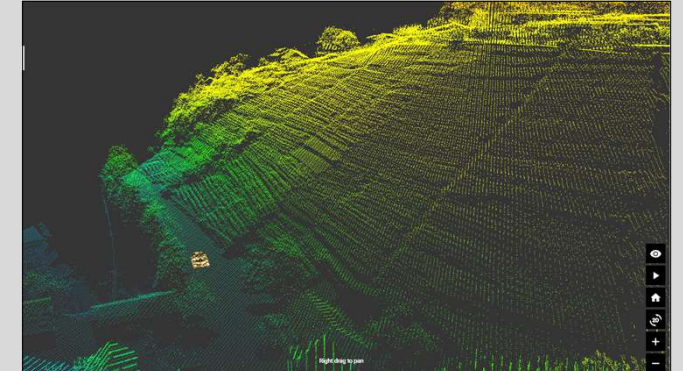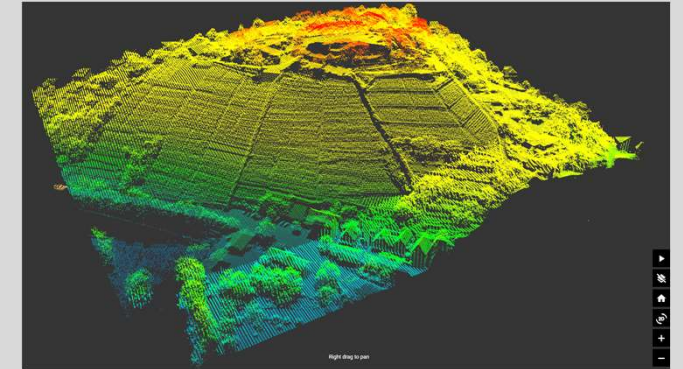
DigitalTwin 3D

DigitalTwin 3D

C2iView 3D