Emergency Communication Services

OBJECTIVE

Allow diverse teams distributed across the disaster area to interact in real time in a structured workflow as if they were in the same room.

VALUE

Establishes a practical approach for management of emergency and incident response with a common operating picture.

THE SOLUTION

Integrated information sharing via a Comprehensive Collaborative Command & Control Mission Application Platform (C4MAP) that provides a globally military hardened, distributed, synchronized, uniform collaborative, highly secure Ops Center. Operating System of collaboration unifies access to information at the interaction layer, not the data layer – provides fusion of information on a Single Pane of Glass (SPoG).

DIGITAL TWIN ROLE

Digital Twin provides advanced simulations, predictive analytics, and instant scenarios for decision process from the aggregated information layer to provided optimization of the communication structure for situational awareness collaboration.

BENEFITS AND INTENDED RESULTS

Currently deployed in DoD military operations, our solution, bolstered by Digital Twin, smashes through current technological, collaborative, & cognitive barriers, synchronizing the view across users from operational centers to front-line leaders ensuring that decisions are made and communicated rapidly. Brings new value to old money by coexisting on day one alongside current applications and infrastructures through seamless interoperability on already existing systems.

DISASTER RESPONSE PLATFORM USE CASE

Solution Description

DISASTER RELIEF INFORMATION IS THE DIFFERENCE BETWEEN LIFE & DEATH.

Common Operating Picture

C4Map provides a globally distributed, synchronized and highly secure Ops Center, while being able to be scaled to any sized operation. Adaptable to any local or enterprise environment with multiple disparate entities. Fully scalable.
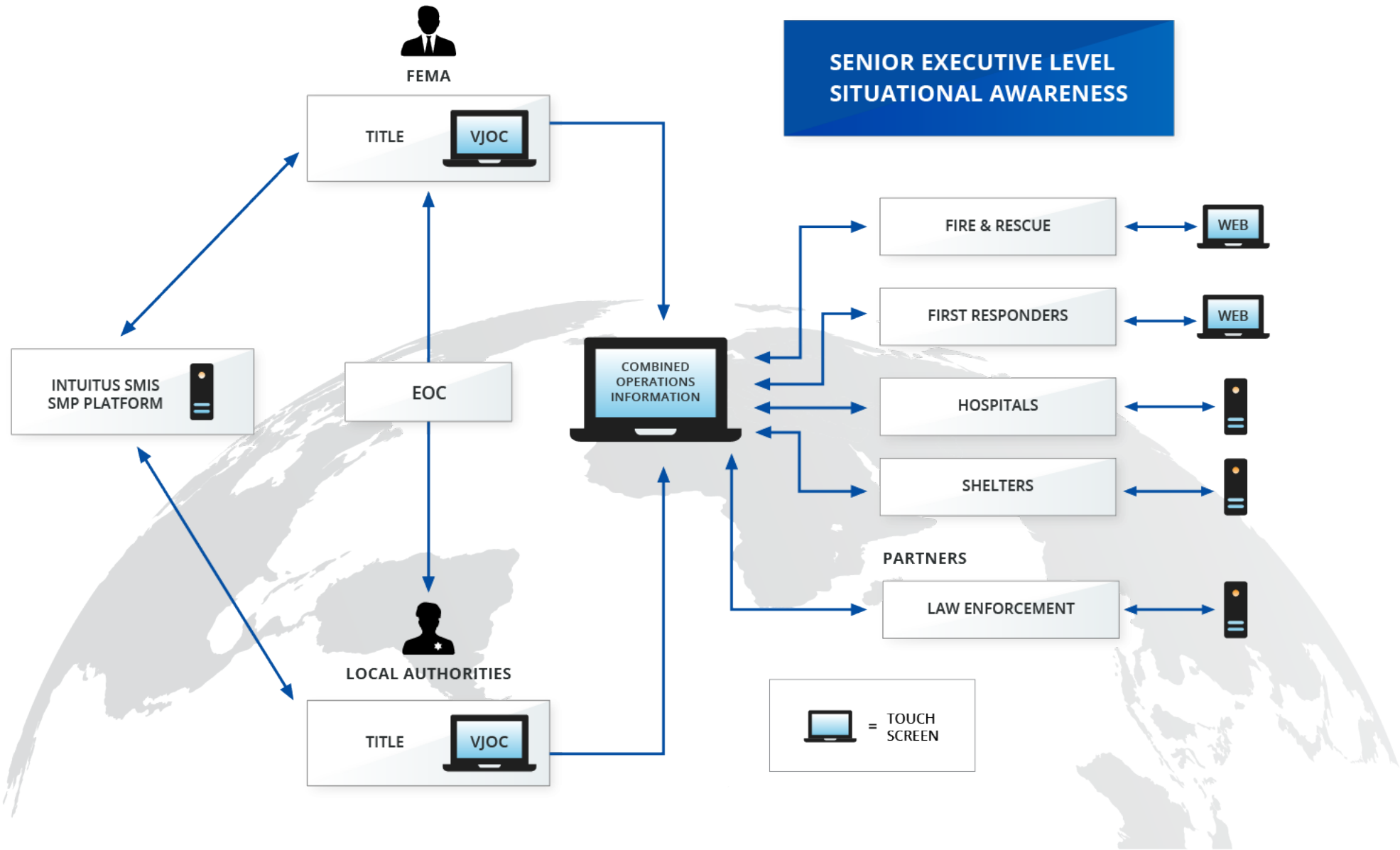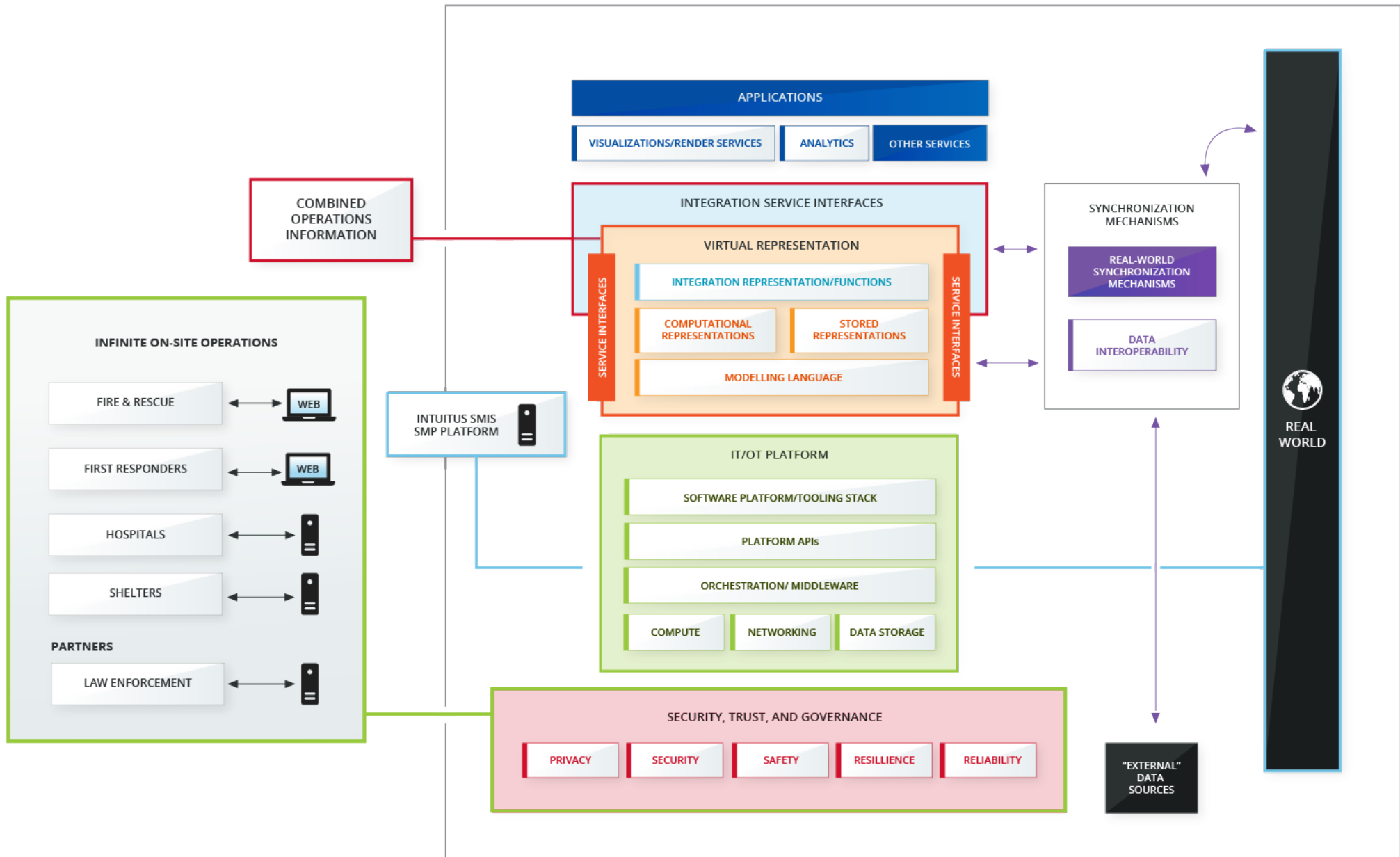
New Value to Old money

The solution is agnostic of hardware, software, network, or operating system; and is designed for seamless integration with standalone, virtualized, or pure data stream systems. Use of drone, AWS, and Digital Twin technologies further enhances C4MAP's viability in even the most desperate situations.

Reliable and Secure

The processes and information passed throughout the communication network are backed by 24/7 automated diagnostics. Network Health and Cybersecurity as a service in the same platform.

SENIOR EXECUTIVE LEVEL SITUATIONAL AWARENESS

FEMA

TITLE — VJOC

INTUITUS SMIS SMP PLATFORM

EOC

LOCAL AUTHORITIES

TITLE — VJOC

COMBINED OPERATIONS INFORMATION

FIRE & RESCUE — WEB

FIRST RESPONDERS — WEB

HOSPITALS

SHELTERS

PARTNERS

LAW ENFORCEMENT

= TOUCH SCREEN

Capabilities Periodic Table

Data Services		Integration	Intelligence			UX	
1 Data Acquisition & Ingestion	**9** Synthetic Data Generation	**17** Enterprise System Integration		**29** Prediction			**45** Dashboards
2 Data Streaming		**18** Eng. System Integration	**24** Command & Control				**46** Continuous Intelligence
3 Data Transformation	**11** Digital Twin (DT) Model Repository	**19** OT/IoT System Integration	**25** Orchestration		**35** Prescriptive Recommendations	**41** Real-time Monitoring	**47** Business Intelligence
4 Data Contextualization	**12** DT Instance Repository	**20** Digital Twin Integration	**26** Alerts & Notifications		**36** Business Rules	**42** Entity Relationship Visualization	**48** BPM & Workflow
5 Batch Processing	**13** Temporal Data Store		**27** Reporting	**33** Simulation	**37** Distributed Ledger & Smart Contracts		
6 Real-time Processing	**14** Data Storage & Archive Services		**28** Data Analysis & Analytics	**34** Mathematical Analytics	**38** Composition		
7 Data PubSub Push	**15** Simulation Model Repository	**52** Device Management	**54** Event Logging	**56** Data Encryption	**58** Security	**60** Safety	
8 Data Aggregation		**53** System Monitoring	**54** Data Governance	**57** Device Security	**59** Privacy	**61** Reliability	**62** Resilience

Legend:
- ⬤ Data Services
- ⬤ Integration
- ⬤ Intelligence
- ⬤ UX
- ⬤ Management
- ⬤ Trustworthiness