CAE**SSE**
Single Synthetic Environment

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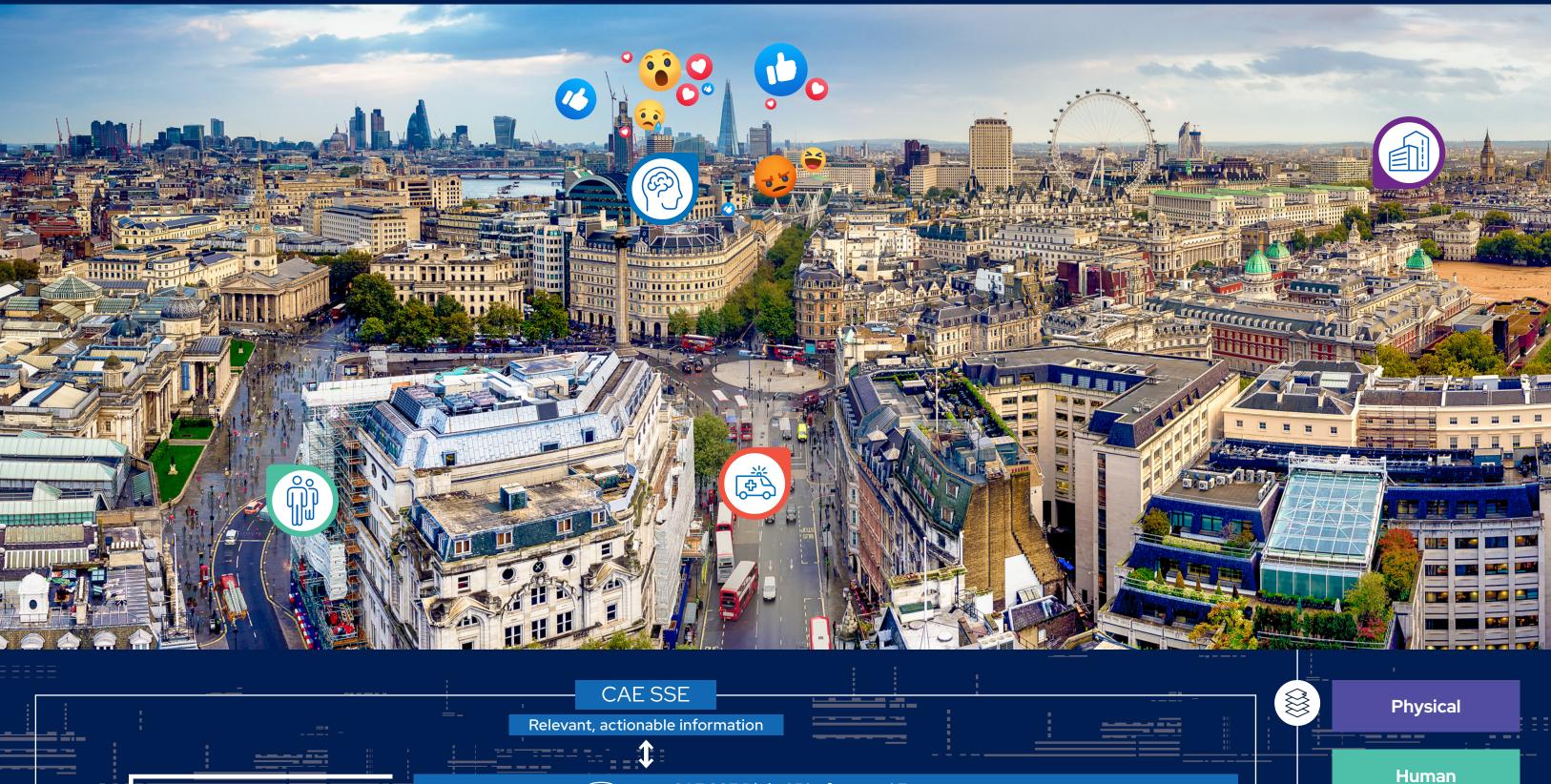Tel: +1-514-341-6780
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Overview

CAE Single Synthetic Environment (SSE) supports planning, operations and support at the national and /or alliance/coalition level. CAE SSE is a digital ecosystem that replicates an operating environment at vast complexity and scale using real-world data. Built on open standards and deployed on secure cloud, on-premise, or both, CAE SSE integrates the widest, bespoke set of data, models and applications to meet customers' unique needs. Artificial Intelligence (AI), Machine Learning (ML), stochastic and historic data analysis, technologies with which CAE has decades of experience as the worldwide leader in simulation, are employed to manage the vast quantity of today's data environment: updating the common operating picture in near real time; and, modeling events and scenarios to perform Course of Action (CoA) analysis in machine time. The value of this digital ecosystem lies in the integrated content itself, in the powerful assisted decision making and in the ability of the system to be distributed to all levels of authority.

> CAE SSE provides an open architecture, secure and consolidated replication of complex operating environments tailored to the user

Operational environments replication

CAE SSE integrates combinations of various input data, models and apps based on user needs to build replications of very complex environments at great scale and detail.

Common Understanding

CAE SSE connects leaders at all levels of authority, fostering a common understanding of complex and rapidly changing situations.

Improved Decision-Making

CAE SSE enables the design and comparison of alternative courses of action faster than real-time using cutting edge AI/ML technologies. The scale and detail of the visualization of possible outcomes supports swift comparison and refinement of plans to a higher level of confidence.

Accelerate Planning and Direction

CAE SSE enables operational plans to be constructed, visualized, tested and shared across all levels of authority, resulting in better planning, clear direction and enhanced communication. All layers of authority are connected in the same replication, significantly enhancing collaboration.

Effective Action-taking in Real Time

As operations and activities unfold, CAE SSE enables observation in near real time, supporting timely and effective contingency planning as well as the rapid adjustment of underway operations.

Rehearse, Experiment and Train

The CAE SSE supports connected mission rehearsal and provides a powerful platform for innovation and experimentation with new equipment and methods.

CAE SSE is supported by a comprehensive, secure, and cyber-resilient suite of resources.

CAE SSE Ecosystem

The CAE SSE provides an open standards and architecture software-based digital backbone, enabling the connectivity between systems tools, applications and platforms, delivering the accurate replication of the chosen operating environment. CAE SSE performs the necessary data translation, transformation and coordination between various (internal, customer and third-party) services. Massive data input leads to the output of relevant, actionable information available to the entire customer network.

Data streams drawn from the CAE SSE may originate from CAE applications, third-party applications and/or the legacy applications used by the customer or myriad other sources, in near real time and all selected based on relevance and need. CAE SSE accelerates understanding and improves decision making, leading to more effective action-taking. Using historical and real-time data, to represent pas, present and future, outcomes can be simulated and their consequences predicted with great confidence provided by cutting-edge AI/ML methods. Motivated by outcomes, tailored to use case and supported by a complete, integrated and cybersecure digital platform, CAE SSE enables the customer to:

➔ See the whole picture
➔ Share the detailed situation
➔ Determine the best solution
➔ Execute efficiently
➔ Continuously improve responses

CAE SSE

A vast, rich and securely distributed replication of your operating environment - a foundational enabler to efficiency, effectiveness and transformation.

CAE

CAE SSE
Relevant, actionable information

Analytics & System Engineering
Data fusion:
Translation, transformation and coordination services

CAE SSE Digital Platform and Ecosystem
A "data fabric" created by aggregating all the data sources

CAE SSE Apps

Third Party / Commercial Apps

Bespoke (Custom) Apps & Systems

Physical

Human

Cognitive

Resource