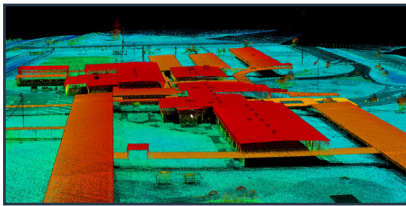


# DIGITAL TWIN

ENHANCE YOUR MISSION WITH INCREASED SPEED AND ACCURACY

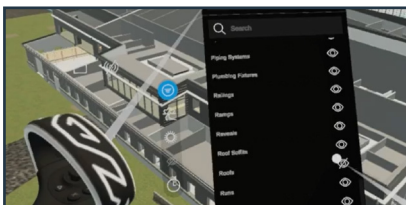
Increase operational efficiencies, inform data driven decisions, and accelerate engineering. The Booz Allen smart ecosystem captures the real world through sensors, understands it with Artificial Intelligence, and recreates it in the digital world.

## DIGITIZED INFRASTRUCTURE AND SECURITY ASSETS



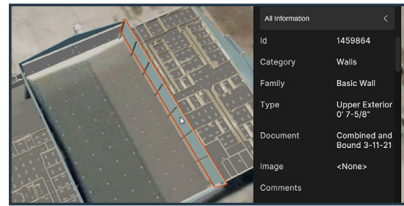
Using multiple sensor platforms connected to the Internet of Things (IoT), our digital twin technology ingests existing, unstructured, and streaming data to deliver the crucial accuracy needed when developing key planning and simulation characterization.

## RICH VIRTUAL AND AUGMENTED REALITY



Optimize design, training, operations, and sustainment activities. Users can fly around the base in first person, see through walls to assess critical infrastructure, and much more.

## INTEGRATED BUILDING INFORMATION MODELS



Harness the powerful performance of a gaming engine to enable seamless integration of engineering grade data and geospatial imagery—strengthening the infrastructure lifecycle output while increasing operational efficiency, resilience, and agility.

## ENHANCED BASE DEFENSE AND SECURITY



Powered by Artificial Intelligence modeling and simulation, users can assess multiple scenarios and mitigate threats including active shooters, gate runners, and malicious small unmanned aerial systems (sUAS).

Optimize your infrastructure and security assets as they move through each stage of their lifecycle:

- Planning
- Design
- Construction
- Sustainment
- Operations
- Base Defense

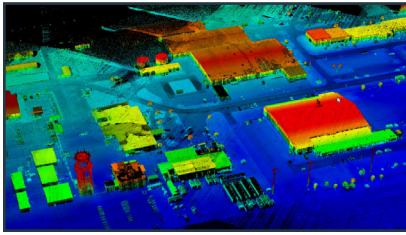
The Booz Allen Digital Twin connects each stage via a digital thread, providing immediate benefits. Address problems before they occur, improve operations, minimize downtime, increase cost savings, and maximize your return on investment (ROI).

### Contact

**FOR GENERAL INFORMATION**  
[digital\\_twin@bah.com](mailto:digital_twin@bah.com)

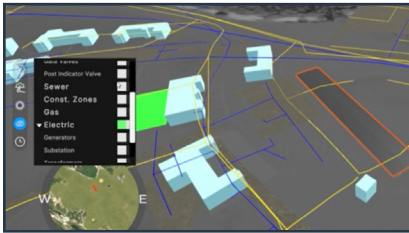
## THE BOOZ ALLEN DIGITAL TWIN'S CAPABILITIES AND BENEFITS

### 1. Ingest Vast Amounts of Data at a High Velocity



Leverage operational data gathered and informed from GIS, LiDAR, and BIM—captured over ten times faster than traditional data collection methods. With this data pipeline, or digital thread, users have access to the most accurate and up-to-date information.

### 2. Digitize the Physical World



Establish an exact digital replica of all spaces and assets—from buildings to pavement areas, utilities and more—at all stages of its lifecycle to enable collaborative design, support scenario planning, conduct predictive analysis, and more.

### 3. Deliver Predictive Accuracy with AI-Driven Analysis



Harness a wealth of data and algorithmic outputs to accelerate the design, planning, and training process and quickly evaluate alternatives and solutions. Detect anomalies to predict and respond to failure, minimizing unplanned downtime and impact to operations.

### 4. Optimize Performance with Simulation Events



Enhance the asset lifecycle, and strengthen installation security and resilience by modeling thousands of planning, training, and other “what if” scenarios digitally—like traffic and pedestrian flow to infrastructure resilience and energy usage.

### 5. Visualize Outcomes in Virtual & Augmented Reality



Display and interact with sensor-captured data to enable greater collaboration and faster, data-driven decision making. Immerse users in a rich 3D environment of physical assets—with real-world context and understanding—to train accurately and test solutions before implementation.

*The Booz Allen Digital Twin enables leaders to:*

**Unveil** a more accurate representation of the future to inform investment decisions.

**Uncover** vulnerabilities and solutions never seen before at unheard-of speed and accuracy.

**Unite** emerging tech and traditional engineering services to accelerate assessments, increase accuracy and efficiency, and reduce downtime.

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#### About Booz Allen

For more than 100 years, business, government, and military leaders have turned to Booz Allen Hamilton to solve their most complex problems. As a consulting firm with experts in analytics, digital, engineering, and cyber, we help organizations transform. To learn more, visit [BoozAllen.com](https://BoozAllen.com).

