

DIGITAL ENGINEERING CONFERENCE FIRESIDE CHAT

Wednesday, May 13, 2026
Industry Leaders



Abhinav Gupta
*Chief Executive Officer
and President of PowerN*



Bryan Lopez
*Senior Director of Health
and Scientific Missions for Microsoft*



Seth Berl
*Co-founder
of OpSpark AI*



Trent Bond
*Chief Technology Officer and
Chief Information Security Officer for Torus*

Dr. Seth Berl



- Former **Deputy Chief Data Officer** for the US Department of Energy
 - Technology lead for EDM program that delivered the Enterprise Data Strategy with a **unified strategy and vision to accelerate mission goals.**
- Principally architected and implemented projects including **high performance compute, data science, AI/ML, enterprise networks, cybersecurity** & more.
- Integrating my academic experience, including a **Ph.D. & M.A. in atomic physics from UVA** with industry experience to **support the success of each organization's diverse missions.**
- Serving as the **Chief Technology Officer, Global GTM Government Technologies** for **Intel Corporation.**
- Member of the **Board of Directors** for **NANO Nuclear Energy**
- Former **Chief Technology Officer** for GovSmart, Inc. focusing on Federal Defense & Civilian agencies to solve complex operational challenges.
- Co-Founder, **OpSpark** – Mission-Driven AI-Ready Data
 - Faster operations, higher productivity, improved CX, lower operational cost

FY25-28

ENTERPRISE DATA STRATEGY

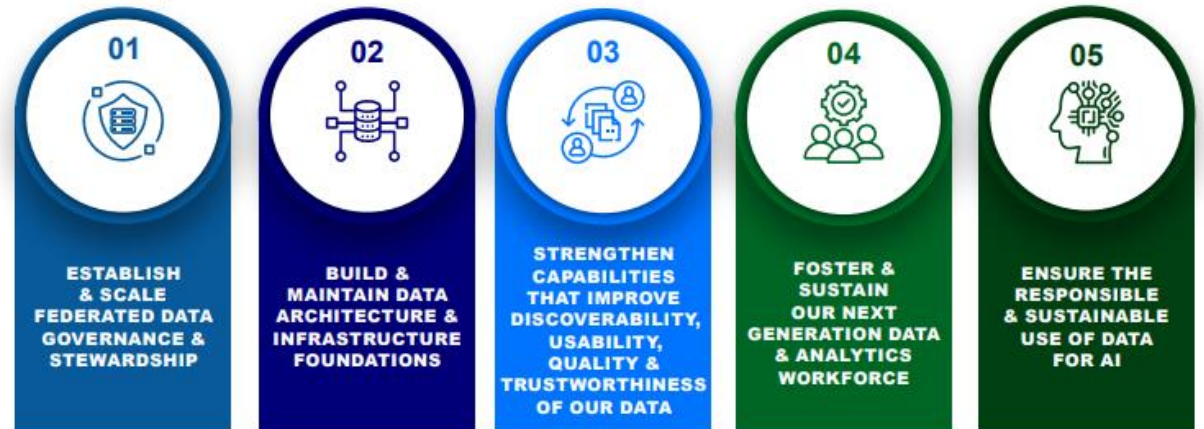
U.S. Department of Energy

US Department of Energy Enterprise Data Strategy

Guiding Principles

-  *Treat Data as a Strategic Asset*
-  *Align to Community Best Practices*
-  *Measure & Solve for What Matters*
-  *Embrace Incremental Progress*
-  *Foster Continuous Learning & Data Fluency*
-  *Design for Scale & Collaboration*
-  *Embed Data Ethics, Equity & Justice*

Goals & Objectives



- Maximizing the value of data for AI
- Scaling impact across energy, science & innovation, safety, security, and operations

Turning Data into Mission Capability for AI

Enabling trusted, scalable AI in regulated and high-consequence environments.

Capability Gap

Fragmented and **inaccessible data**

Weak governance and **unclear ownership**

Data accuracy issues with **the lack of a single source of truth**

Security, policy, and compliance constraints

Limited organizational **readiness** and **adoption**

Pilot programs that never scale

OpSpark



Strategy

Mission-aligned data & AI roadmaps



Governance

Trusted data, stewardship, policy, and AI frameworks



Architecture

Secure, interoperable data for highly regulated environments.



Operational Transformation

Deployment, adoption, and workforce enablement.

Mission Outcomes

Trusted enterprise data

Faster, higher-confidence decisions

Reduced operational and compliance risk

Scalable AI deployments and capabilities

Sustainable mission impact

Robert King

3-Time Federal CDO

Vice Chair, Federal CDO Council



Seth Berl

Chief Technology Officer

Federal Deputy CDO



Bryan Lopez

Senior Director
Federal Strategic Science Missions & Genesis Mission Leader



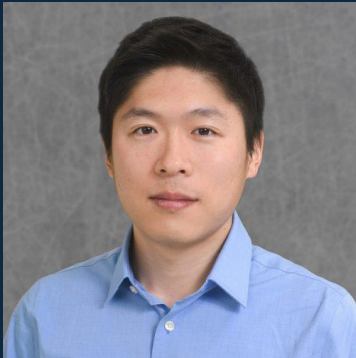
Microsoft is a Genesis Mission collaborator and mission delivery partner to DOE and the National Laboratories. From Microsoft Research's AI-for-science breakthroughs to advanced nuclear, quantum, HPC, classified cloud, and the firm clean power and data centers fueling them — we help translate frontier research into operational outcomes for American competitiveness, resilience, and security.



Abhinav Gupta

Co-founder & CEO

Recognized for providing innovative technological solutions to the nuclear industry



Kevin Han

Co-founder & CTO

Award winning innovator in construction automation and 3D computer vision



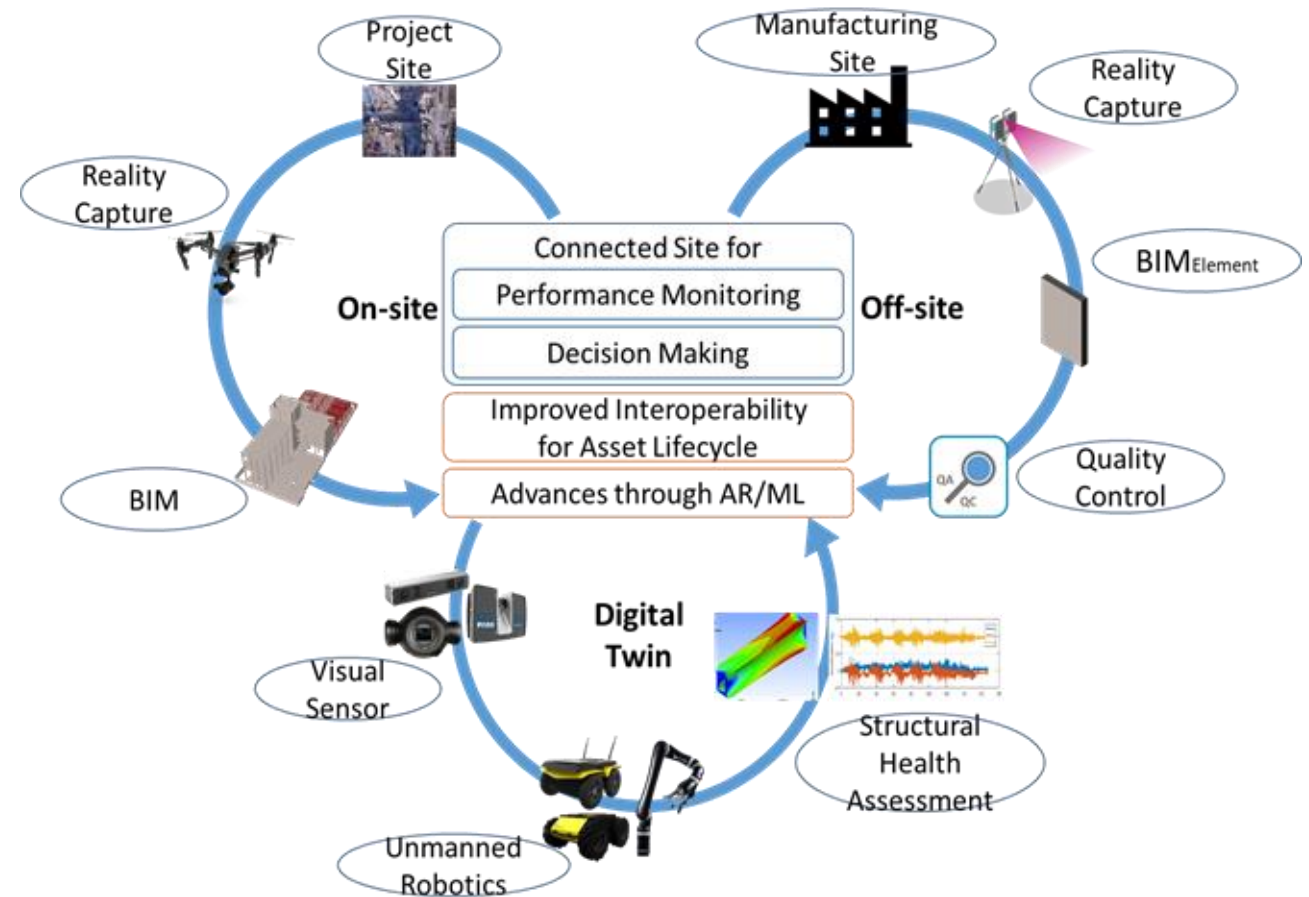
Shekhar Yerramilli

Co-founder & COO

Serial entrepreneur with successful exit of a tech start-up

- 12 persons team with complimentary skillsets
- 50+ years in construction and nuclear industries
- Strong expertise in technology development, customer engagement and building robust financial systems

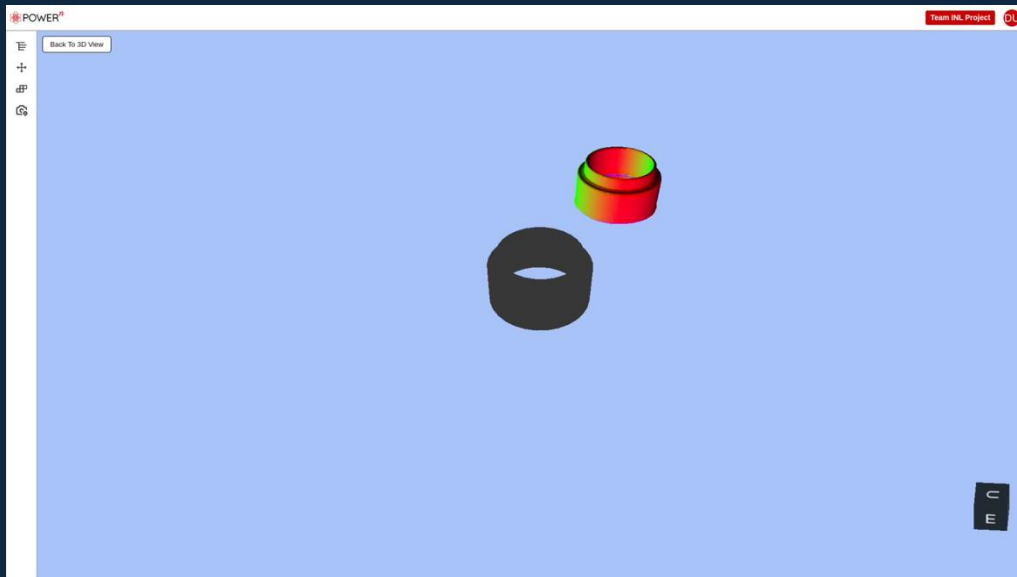
- Eliminates rework in modular construction
- Reduces inspection time through augmented reality
- Accelerates regulatory approvals
- Creates as-built digital twin
- AI-Powered schedule analytics



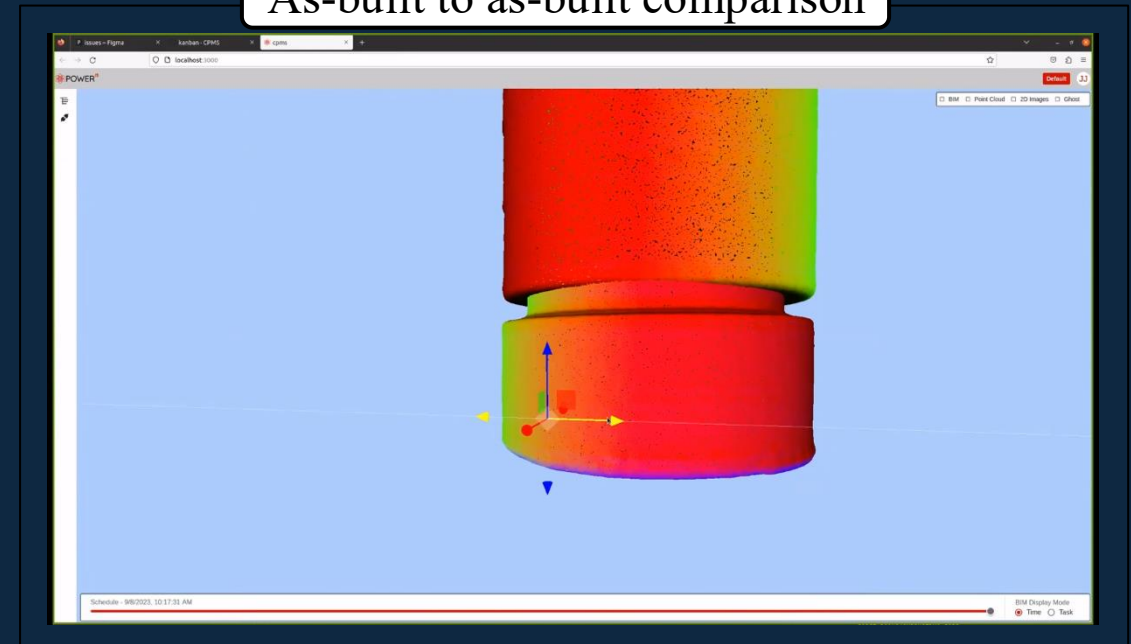
Holistic oversight platform for owners to manage and mitigate risks

- ▶ Comparison between design and as-built models
- ▶ Compatibility check between two modular components

As-built to as-planned comparison



As-built to as-built comparison





Trent Bond

Chief Technology Officer & Chief
Information Security Officer



Torus is the world's first mesh energy
infrastructure, uniting communities through
resilient, sustainable, and intelligent power.

torus.co