



WHAT IS A DIGITAL TWIN

Digital twins are virtual representations of real-world objects, processes, relationships, and behaviors. They provide a spatial context to assets and natural systems, incorporating information models, data, analyses, and behaviors. Digital twins can depict the current, past, and even future states of assets, offering a comprehensive view of the physical world.

In recent years, the convergence of technologies such as geographic information systems (GIS), the Internet of Things (IoT), and building information modeling (BIM) has revolutionized digital twins. Interactive 3D visualizations have redefined their capabilities and value for organizations. Digital twins are not standalone

solutions, but rather complex networks of technologies and systems that work together to drive transformation and deliver desired returns on investment. Their applications span across industries, continuously evolving and creating value.

Building and scaling a digital twin is generally approached in three steps:

1. Design the Plan: The first step is to come up with a clear plan. Think of it as creating a blueprint that lays out what kinds of digital twins you want to create. Decide on the order to build them to make them useful and reusable, figure out how they will get better over time, and decide who will oversee them.

2. Build the Foundation: Once you have a plan, it's time to start building the first digital twin. Think of this as the foundation. You'll need a team to gather important information and visuals. This will allow your project team to use it for a few basic tasks and get a sense of what it can do.

3. Enhance and Expand: As the initial digital twin takes shape, you can expand, layer and scale. Add more layers of information, use advanced analysis techniques, and bring in artificial intelligence. This enables the digital twin to do more than represent physical assets – it can predict and simulate outcomes by integrating AI, analytics and advanced modeling. This step takes the digital twin from a basic, foundational representation to a powerfully layered, data-rich tool for making informed decisions – progressively enhancing the twin's capabilities and deriving valuable insights for improved operational performance.

With our open architecture Geo-spatial

Digital Twin Platform at the forefront, and the upcoming deployment of our EXPLORER software, we are poised to process, analyze, and visualize an unprecedented amount of data in innovative ways.

As the adoption of digital twins grows, the future becomes increasingly intelligent and automated. The groundbreaking GDT Platform seamlessly merges geo-spatial data with immersive reality capture, reshaping how properties are understood and experienced.

And, the upcoming EXPLORER software release is set to forge fresh connections between systems and data, leading to the transformation of workflows and the establishment of a contemporary digital nervous system and a unified source of truth.

This enables the realization of integrated digital twins, fostering continuous innovation and improvement, delivering a competitive advantage to our clients, channel partners and software partners.

FOR MORE INFORMATION OR TO SCHEDULE A DEMO:

TROY BATCHELOR
 DIRECTOR OF STRATEGIC PARTNERSHIPS
 TROY@IMMERSIONDATA.COM
 MOBILE: 703.357.7530