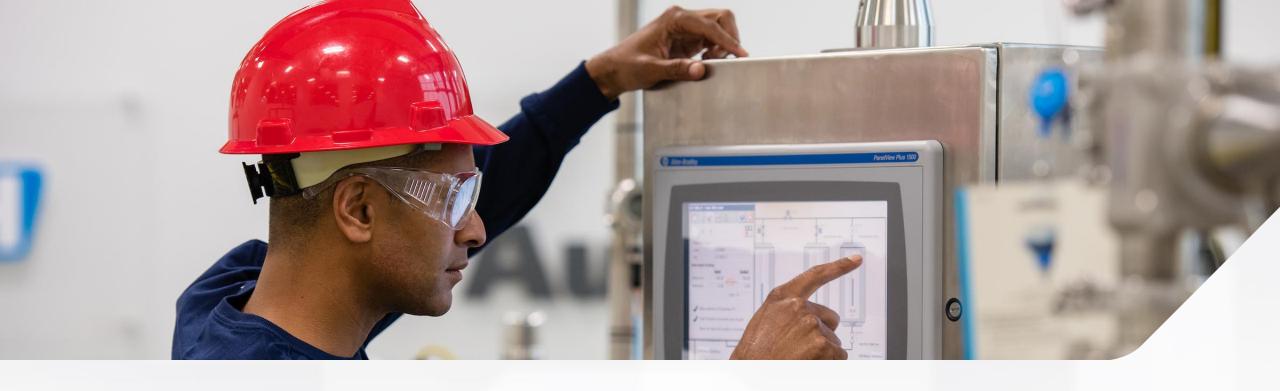# Operational Digital Twin

expanding **human possibility**®

Operational digital twin

Digital twins are a powerful tool in product design, effectively bridging the gap between the physical and virtual realms to create meaningful connections. By leveraging this technology, significant reductions in commissioning times and costs can be achieved. However, the value of a digital twin extends far beyond the initial design and commissioning stages. When coupled with real-time operational data from your asset, it unlocks a multitude of benefits throughout the entire operations and maintenance lifecycle.

Digital Twin Integration

The integration of a digital twin with operational data provides numerous advantages for both end-users and machine builders. These include:

Maximizing efficiency:
By identifying design optimizations without disrupting ongoing operations, you can fine-tune your product to achieve peak performance.

Enhanced asset visibility:
The digital twin adds valuable context to the data gathered from Internet of Things (IoT) devices, offering a comprehensive view of your assets.

Remote monitoring:
Gain a deeper understanding of asset health and performance by leveraging real-time operational data, regardless of your physical location.

Remote operations:
Safely operate assets in hazardous environments from a remote location, mitigating risks and ensuring employee safety.

Remote troubleshooting:
Minimize downtime by granting maintenance teams visibility into the machine's current state, enabling efficient and targeted repairs.

Workforce productivity:
Combat emerging labor shortages by creating immersive training experiences with digital twins, boosting productivity and knowledge transfer.

RA Rockwell Automation

Real-time visualization

The Operational Digital Twin provides a real-time visualization of an Azure digital twin, allowing it to be seamlessly integrated into various tools like 3D Scenes, Vuforia, Unreal, and Unity. This enables a dynamic and interactive experience that **enhances your understanding and interaction** with the digital twin.

By harnessing the power of digital twins and operational data, you can unlock a world of possibilities, optimize your processes, and **drive greater efficiency and productivity** in your operations.

Rockwell Automation

![Rockwell Automation — expanding human possibility. Facebook, Instagram, LinkedIn, Twitter icons. www.rockwellautomation.com]