

# Maximize profitability and meet sustainability goals with real-time operational guidance

## AspenTech's Process Digital Twin Solution

AspenTech is uniquely positioned to help process industries accelerate digitalization. AspenTech's Process Digital Twins provide new levels of operational excellence through enterprise-wide insights that drive improved business and sustainability decisions.



*Dow achieved \$700 million in cumulative benefits over 9 years across 15 sites globally with real-time optimization digital twins\**

\* Please Note: This case study leveraged AspenTech solutions to achieve the stated benefits. While these AspenTech solutions can run on Microsoft Azure, it is unknown if Microsoft Azure was used in this situation.

## WHAT WE OFFER

Today, organizations in the process industry are faced with meeting both ambitious net-zero commitments and production targets. Within their operations, fluctuations require greater agility – and many companies lack the real time visibility into these changes – limiting their ability to make informed decisions to achieve their goals.

Using AspenTech Process Digital Twins to model and predict asset performance can provide better insights to support key decisions that maximize performance, safety, sustainability, equipment health and overall plant efficiency. AspenTech Process Digital Twin solutions embedded with AI increase level of prediction accuracy to further enhance intuitiveness of the processes.

Gain new levels of operational excellence and real time visibility with digital twin solution and AI that provides process, physical, cost & risk models for debottlenecking, turnarounds, and margin improvement.

The AspenTech Process Digital Twin solution has been proven to help organizations to increase production, reduce start-up time, improve energy efficiency, reduce emissions and more! With solutions deployed on Microsoft Azure customers can scale benefits even faster.



## Be future-ready

Continuous innovation from Microsoft supports your development today, and your product visions for tomorrow. With 1,000+ new capabilities in the past year, you can build on the latest advancements in AI, blockchain, Kubernetes, containers, and databases to keep you ahead of the curve.

Our enterprise grade analytics solution outperforms the competition, costs less, and is fully compatible with your existing development, BI, and data-science tools.

## Operate hybrid seamlessly

On-premises, in the cloud, and at the edge—we'll meet you where you are. Integrate and manage your environments with tools and services designed for hybrid cloud.

Enhance security, simplify access, and set smart policies across your different environments with a single-identity platform trusted by 90% of enterprises globally.

## Build on your terms

You have choices. With a commitment to open source and support for all languages and frameworks, build and deploy how you want to. Take advantage of the full-featured, integrated development environments with built-in support Visual Studio and Visual Studio Code, the most popular IDEs trusted by 15M+ developers.

We embrace open source, drive innovation through collaboration, and contribute back to the community.

## Trust your cloud

Get security from the ground up, backed by a team of experts, and proactive compliance trusted by enterprises, governments, and startups.

With a \$1B+ investment in security R&D and 3,500 cybersecurity experts, security is foundational for Azure.



Microsoft Azure is an ever-expanding set of cloud computing services to help your organization meet its business challenges. With Azure, your business or organization has the freedom to build, manage, and deploy applications on a massive, global network using your preferred tools and frameworks.

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