

# Embarking on the journey of antifragility

Digital Twins empower renewable energy transition.

The need for suitable digital technologies capable of ensuring the reliable functioning of the infrastructure is fundamental for energy operators. **TwinEU**, the federated ecosystem of **DT** solutions on a European scale, for instance, promotes the adoption of **renewable** energy sources while ensuring **resilience** and **cost optimization**.

Why are Digital Twins crucial in modeling and managing renewable energy sources? What specific advantages do Digital Twins offer to the energy sector?

## Key Benefits

Fostering adaptability through learning from unforeseen events, cultivating

antifragility.

Enhance quality and efficiency with rapid response simulation. Empower conscious decisionmaking processes by harnessing Al

capabilities.

Digital Twins are vital for simulating, analyzing, monitoring, and optimizing physical objects or systems. Leveraging our comprehensive end-to-end approach covering industrial product and process lifecycles, we facilitate Digital Twins adoption across sectors, such as energy, ensuring precise virtual representations, enhancing grid resilience, and optimizing resource allocation.

### The Value of Technology's Impact

#### Al-Driven Value

Decision Science is revolutionizing by componies' understanding by blending business acumen with technologies such as Digital Twins, Simulation, Machine Learning, and Al. This cohesive approach empowers decision-making processes by transitioning from predictive to prescriptive scenario analysis within Digital Twins. Not only support the critical shift bowds are the control of th

#### Regenerative Business

By leveraging Digital Twins, energy companies can simulate various scenarios, enhance operational visibility across their infrastructure, and adopt agility in decision-making processes. These capabilities are vital not just for reacting to unexpected energy sector challenges, but also for proactively cultivating antifragile behaviors. Businesses must reconsider their models, emphasizing antifragile bandiregality and flexibility to adopt to changing market dynamics and regulatory landscapes effectively.

#### Composable Business Models

Digital Twins closely replicate real-world entities, enabling organizations to monitor and simulate scenarios for informed decision-macking. Linked to real-time data sources, they provide accurate insights into infrastructure, facilitating prompt adjustments. Advancing Digital Twins involves seemlessly integrating new world of the properties of the pro

## Our Toolbox









# Our Impact



IMPROVE

GROW

ENABLE

DISCOVER MORE →