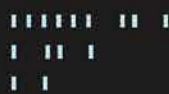




# Digital Twin

## A Unified Digital Twin Platform

ETAP Digital Twin is a unified engineering and real time platform used to model, design, visualize, analyze, predict, control and provide insight on management and performance of electrical power systems.



Automate  
& Control

Design  
& Analyze

Operate  
& Optimize

Monitor  
& Predict

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## Automate

### Intelligent Controllers

- Microgrid
- Nanogrid
- Power Plant
- Substation Automation
- Remedial Action Schemes
- Load Shedding & Restoration

## Optimize

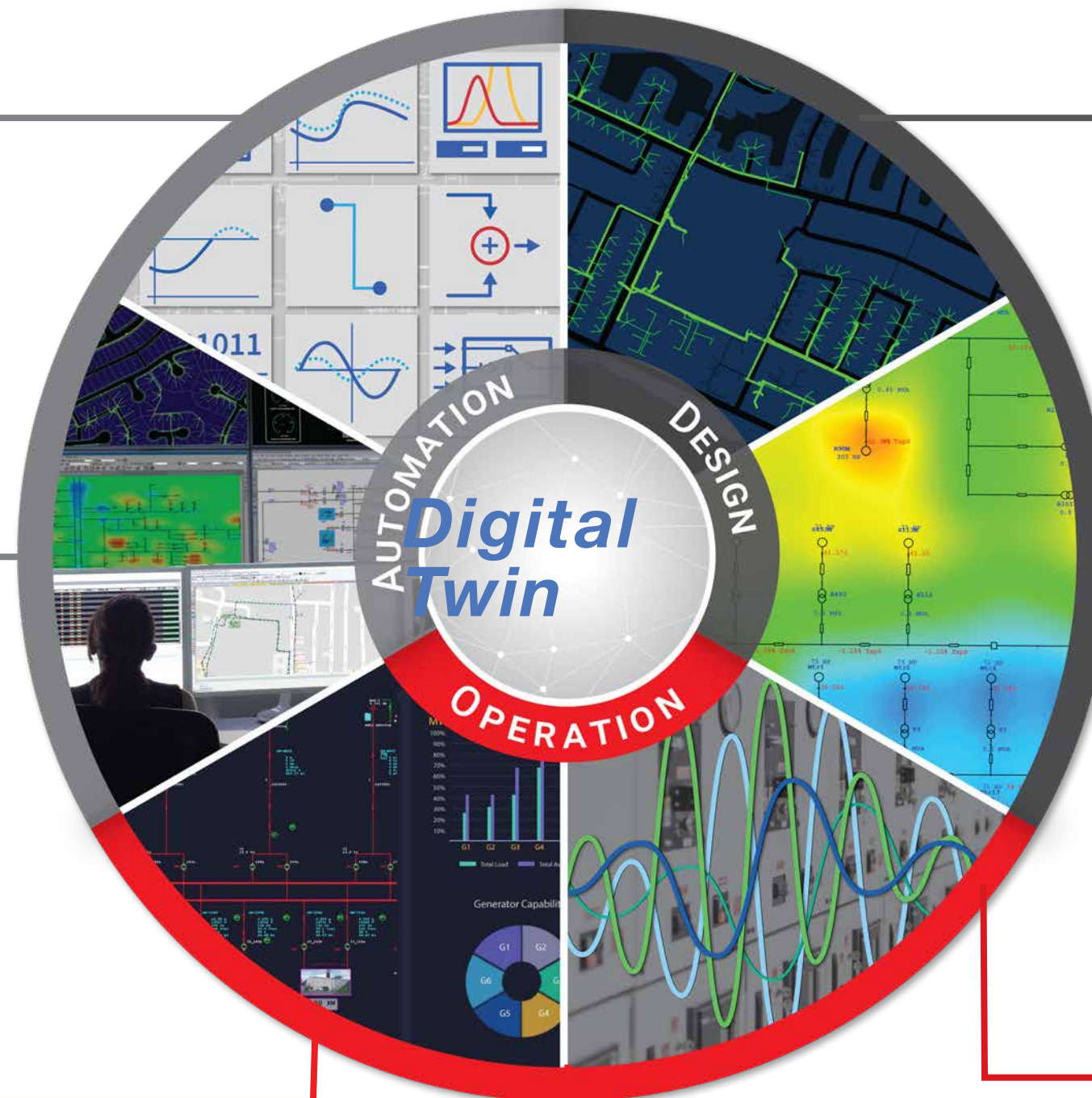
### Proactive Actions

- N-n Situational Intelligence
- Volt / Var Optimization
- Economic Dispatch
- Switching Optimization
- Automatic Generation Control
- Fault Isolation & Service Restoration

## Operate & Manage

### Operational Awareness

- Distribution Management
- Switching Management
- Outage Management
- Load Management
- Operator Training Simulator
- Protection & Asset Management



## Model

### Intelligent Visualizations

- Field Data Collection & Smart Data Entry
- Wide Area Network Modeling Management
- Multi-Dimensional Platform for Planning
- Line & Cable Sizing, Capacity & Constants
- Equipment Sizing & Capacity
- Verified & Validated Manufacturer Libraries
- Rulebooks & Warehouse

## Simulate & Analyze

### AC & DC Network Analysis

- Unified Multi-Systems
- Arc Flash & Safety Systems
- Protection & Coordination
- Dynamics & Transients
- Design & Optimization
- Auto-Run Study Wizard

## Monitor

### Model-Driven Monitoring

- Power Management System
- Intelligent Electrical SCADA
- State Estimation & Load Allocation
- Energy Tracking & Accounting
- Sequence of Events Playback
- Cloud & Mobile Interfaces

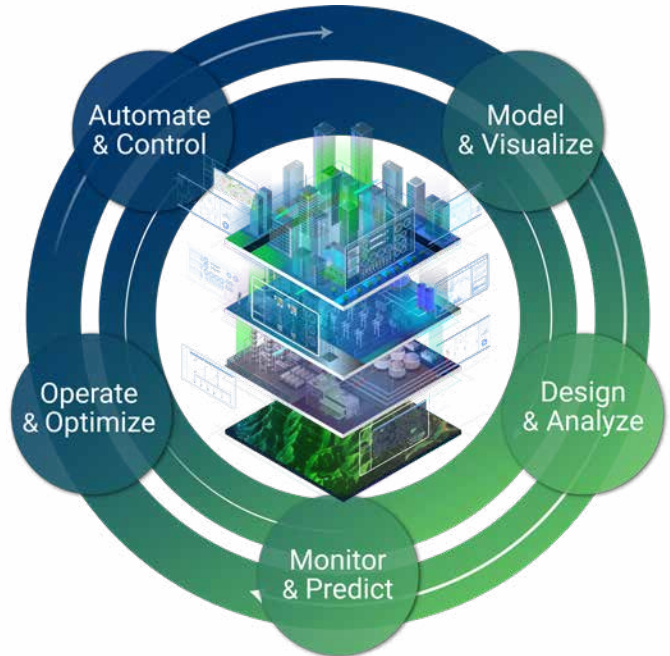
## Predict & Control

### Predictive Simulation

- AC & DC Network Analysis
- Grid Code Compliance
- Failure Mode Analysis
- Reliability Centered Maintenance
- Short & Long-Term Load Forecasting

# Sustainable Digital Transformation

- Increased safety
- Early decision support
- Improved productivity
- Shortened design time
- Validate system settings
- Reduced cost of operations
- Virtual test of operator actions
- Accelerate engineer & operator training
- Identify the cause of operation problems
- Asset performance monitoring & optimization
- Determine under-utilization of system resources
- Eliminate inadvertent outages caused by human error



Thinking Power at your Fingertips<sup>®</sup>



+1.800.477.ETAP | +1.949.900.1000 | info@etap.com

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