

# MPC Platform



Today's industrial processes face constant pressure: tighter margins, stricter regulations, aging equipment, and growing complexity.

Orise's MPC Platform software creates **value by continuously optimizing** the key process parameters online in closed loop, reducing variability and pushing against constraints, keeping the plant in the **most economical operating point** every minute of every day, 24/7.

Push your process to its true potential, operating closer to constraints, minimizing disturbances and energy use, and maximizing throughput and quality — automatically and continuously, with proven ROI through measurable gains in efficiency, production, and energy savings.

## Main benefits



### Cost Effective

Orise's MPC Platform removes traditional barriers to adoption:

- Flexible licensing system
- Significantly lower cost for full value of advanced multivariable control compared to many traditional APC platforms
- Less implementation effort due to lean architecture, intuitive tools and seamless integration with existing control systems



### Proven Technology

Performs in real industrial conditions, backed by engineering expertise and robust technology (25+ years experience):

- Fertilizer: Ammonia, Urea, Nitric Acid, Ammonium Nitrate, CAN/NPK
- Petro-Chemical industry (including specialties)
- Cement plants



### Continuous Optimization

Most economical operation every minute of every day – 24/7.



### Easy & Open Integration

Integrates with most DCS and PLC systems.



### Intuitive Configuration

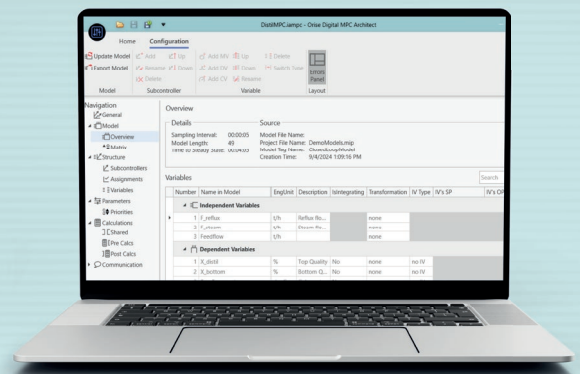
Structured setup and easy-to-use.

## Our technology

The MPC Platform tools enable effortless test data collection, offer state-of-the-art identification methods to build accurate process models, and provide an intuitive environment for configuration and tuning through simulation.

It also streamlines preparation of the MPC setup for online deployment in the runtime environment, making it ready for commissioning.

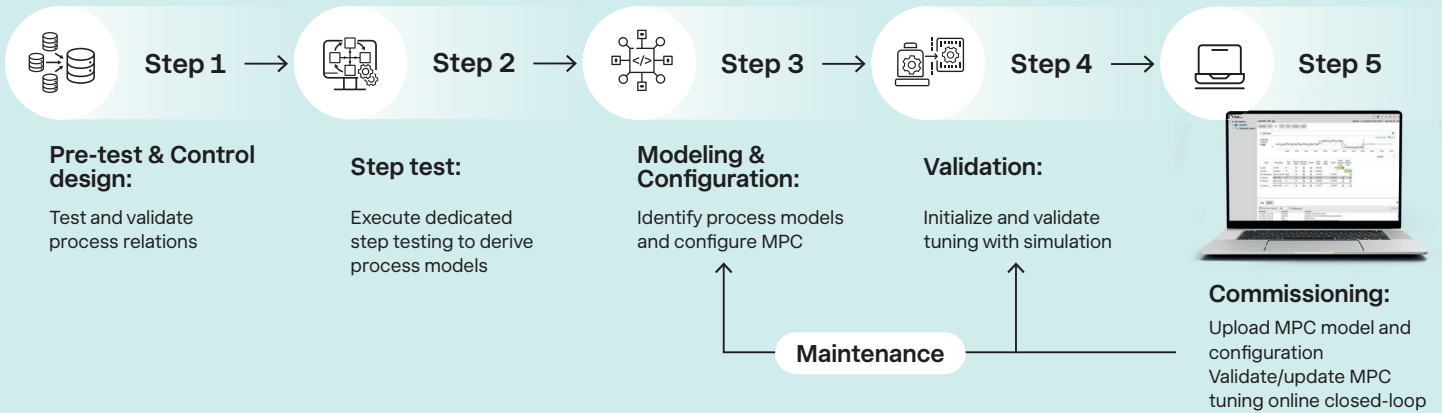
**MPC Platform unlocks maximum value in complex, highly interactive processes, and consistently delivers strong control performance in everyday operation.**



# How this works

Orise's MPC Platform continuously optimizes key process parameters in closed loop, reducing variability and safely operating closer to constraints to keep the plant at its most economical operating point, 24/7.

It does so by predicting plant behavior in real time, accounting for disturbances while strictly respecting all process and environmental constraints.



## Supporting services from Orise



### MPC Optimization Services

#### Benefit and MPC Readiness Studies

- Indication of benefits based on plant data and calculations
- Instrumentation analysis
- Design considerations
- Pay for performance based on studies

#### MPC design and implementation including Virtual Sensors

- MPC maintenance and sustained benefit programs
- Consultancy
- Training
- Interface RTO on all MPC technologies
- Build sitewide multi technology MPC KPI dashboards
- Build MPC interface logic

### MPC Platform Training Course

#### 5-Day course at Orise office

The basic concepts of MPC control technology

- The different steps needed to successfully implement an MPC controller
- Process identification and the identification procedure
- Model Predictive Control and the design of such a controller
- The relation between model, controller and process behavior
- Obtain the skills to use Orise's MPC Platform tools for efficient design of the controller

**Optional: On-premise at customer location**

Orise Digital is the digital innovation arm of Orise, built to connect and optimize the entire digital process and system landscape. With deep expertise in automation, system integration, and process optimization, we deliver industry-proven tools that enhance connectivity, streamline operations, and turn data into actionable insights. Orise Digital helps enterprises integrate technologies seamlessly, boost efficiency, and stay compliant. As the final link in the digital chain, we turn digitalization from vision into reality—empowering smarter, faster, and more informed decision-making through structured, visualized data.