13° FEBRUARY 2025

How to boost your plant productivity, safety and sustainability with first principle simulation and AI

Cristina Peretti, Principal Consultant Presales - AVEVA



AVEVA is a leader in sustainable industrial platforms and software

- AVEVA combines the world-leading industrial data management with AI-infused software that builds on more than fifty years of expertise
- Schneider Electric 100% shareholder and strategic partner
- Growing recurring revenue by 10%+
- Cloud growth accelerating
- Market capitalization > US \$9BN
- Revenue > US \$1.2BN



Our **vision** for the future

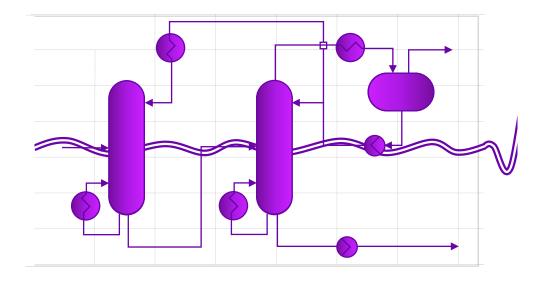
We spark industrial ingenuity

By connecting people with trusted information and insights

To drive responsible use of the world's resources



Problem Statement



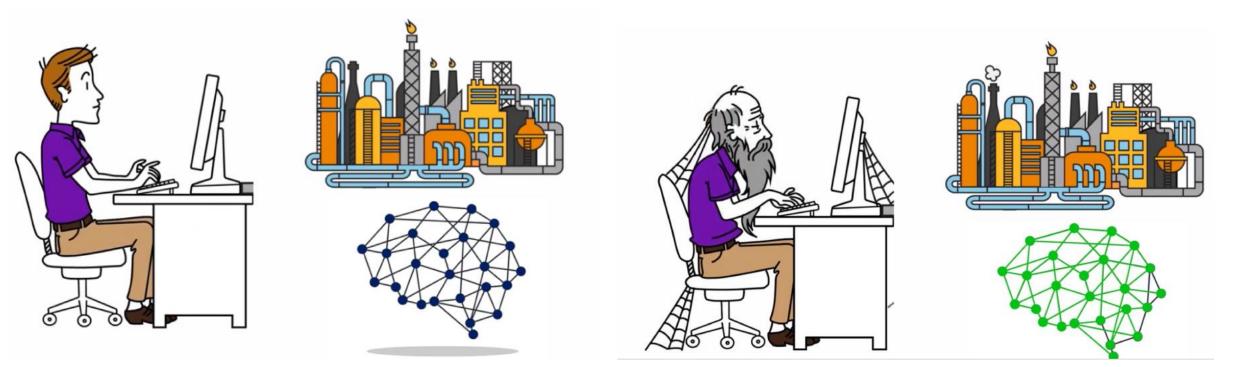
The plant is changing feed weekly It takes the operators 8 hours to stabilize back the plant

Several days of production are lost every year



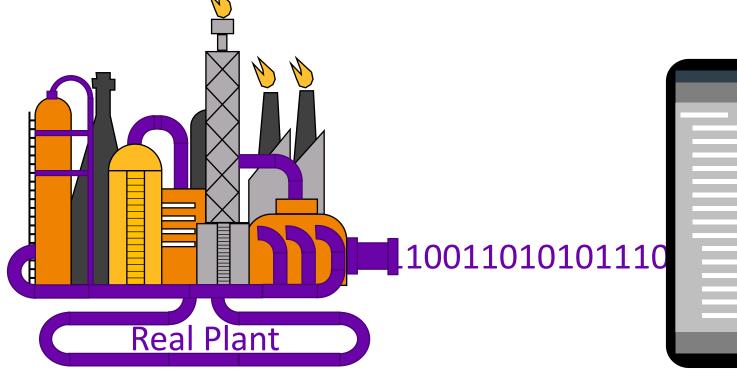


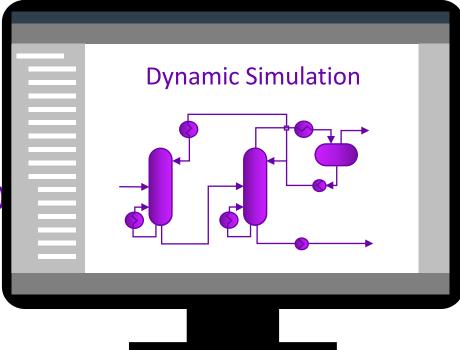




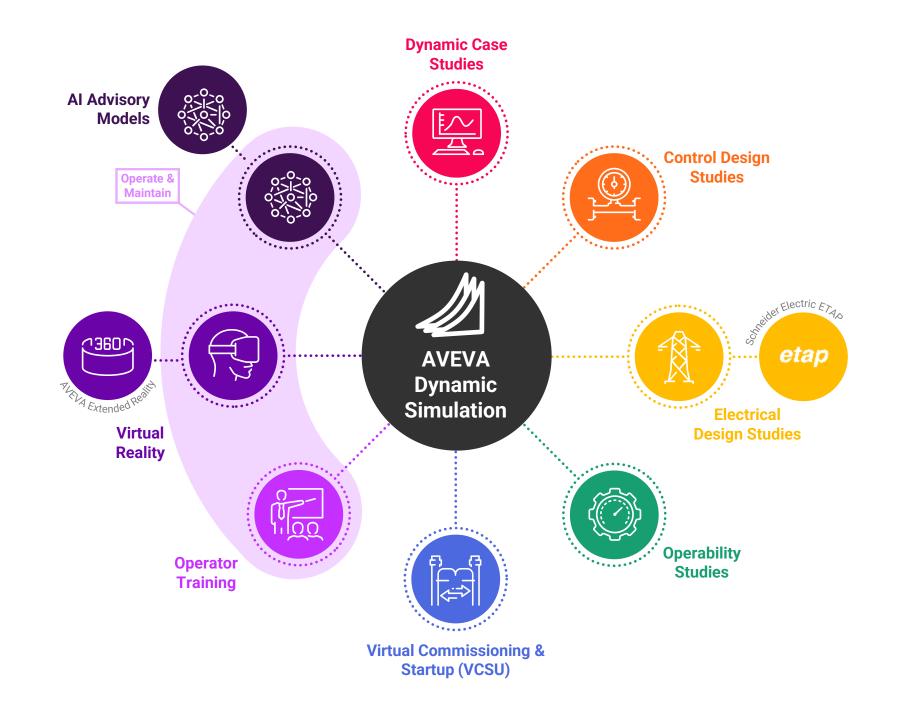
It will take **580** years to collect the required data for training the Al agent using only plant data



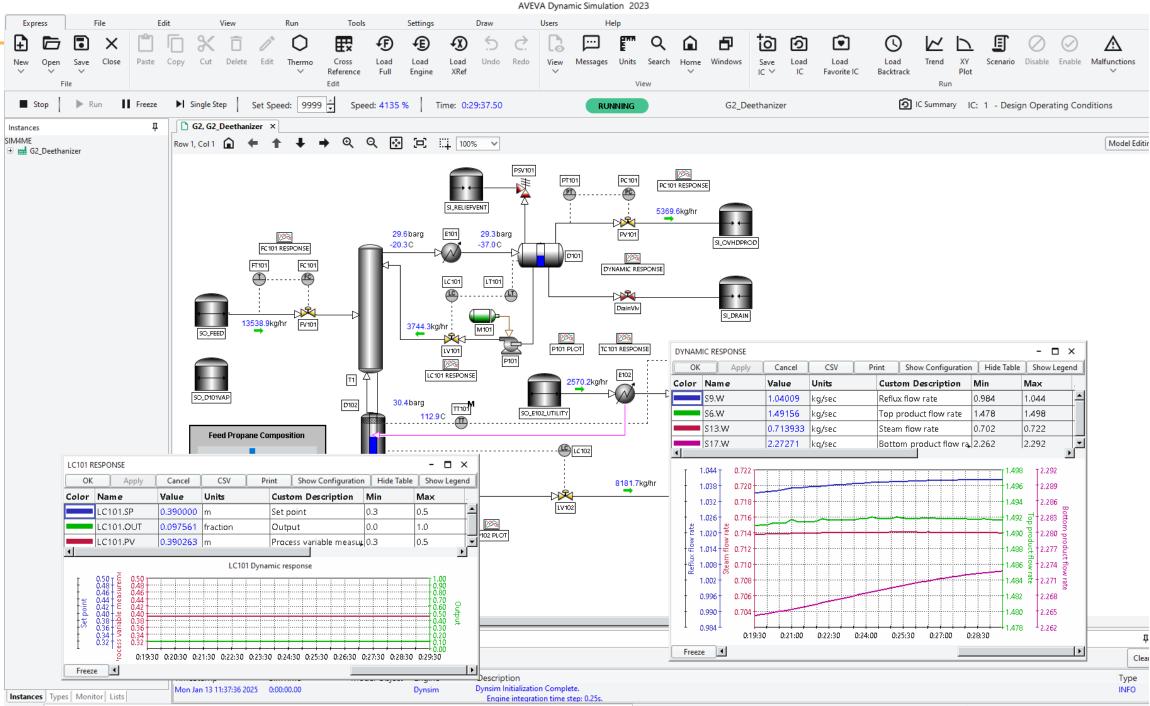












Command:

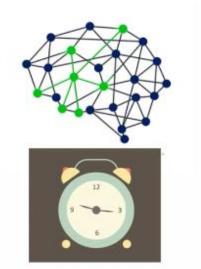
Selection cleared

User: simsci Environment: SuperUser SimExecutive

The Process Digital Twin meets AI

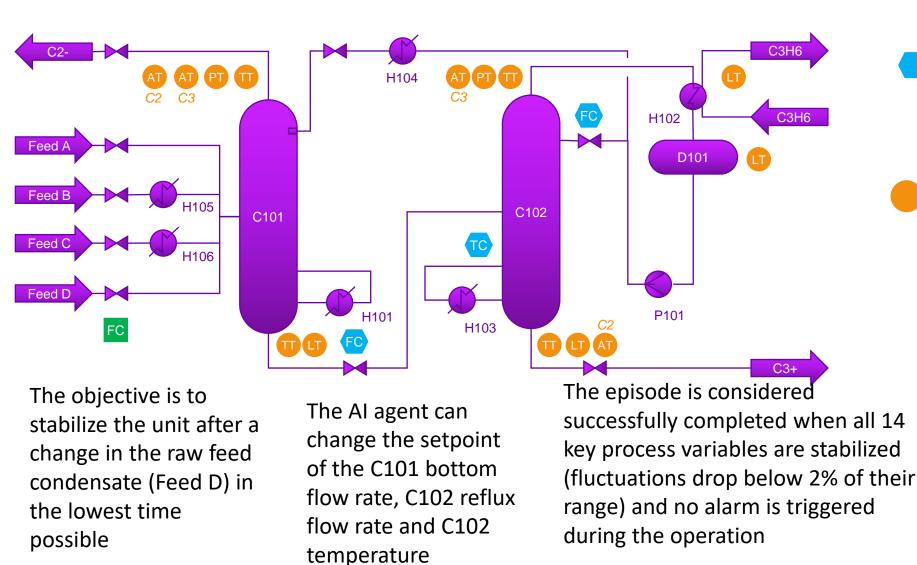


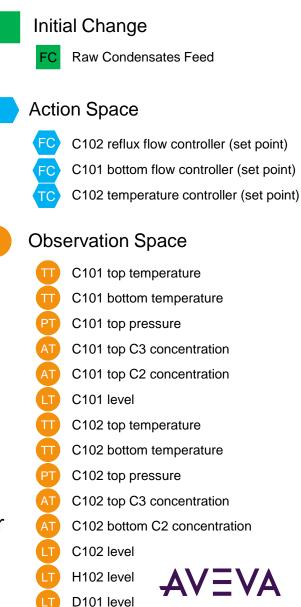


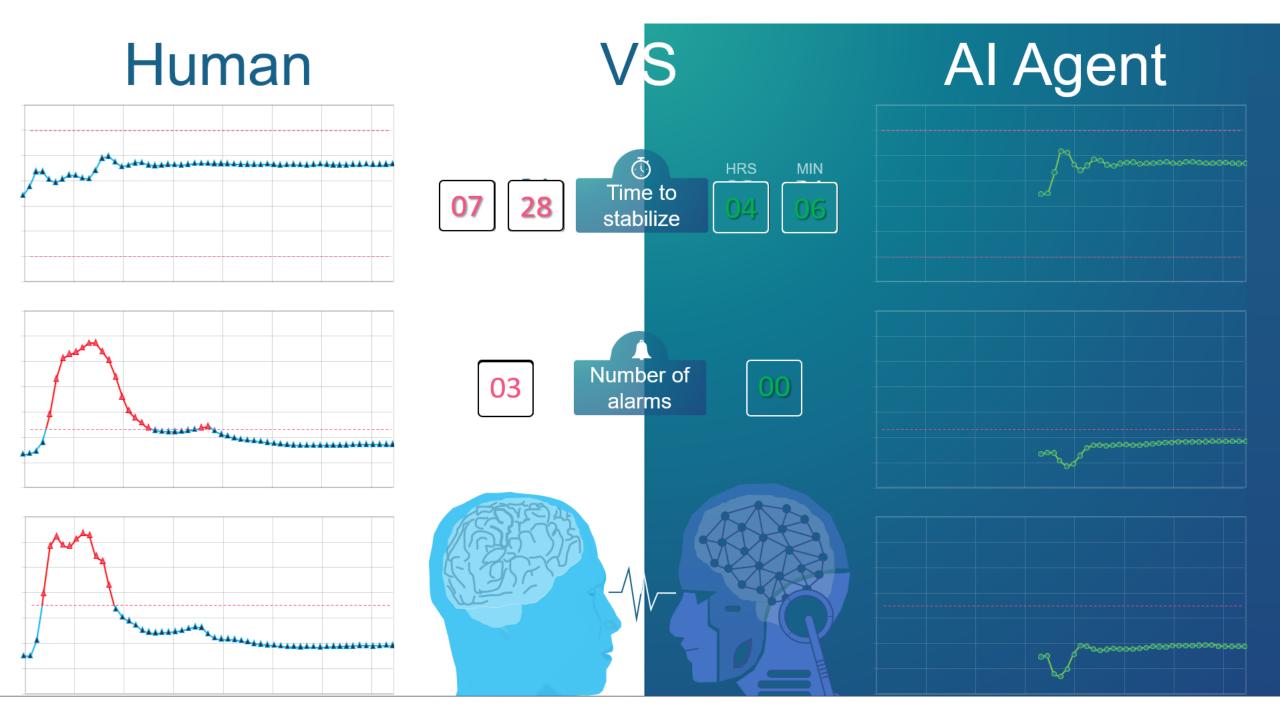


With just 15 clones it took 41 days to collect the equivalent amount of data of 580 years

Problem definition

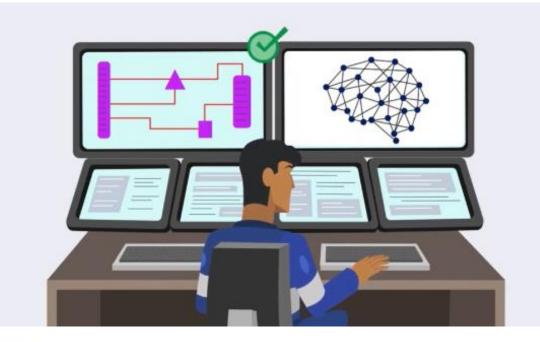






What are the benefits?





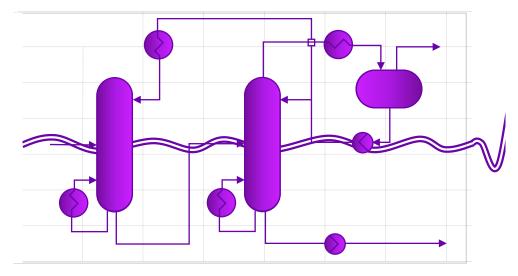


Less Time for Completing the Operation





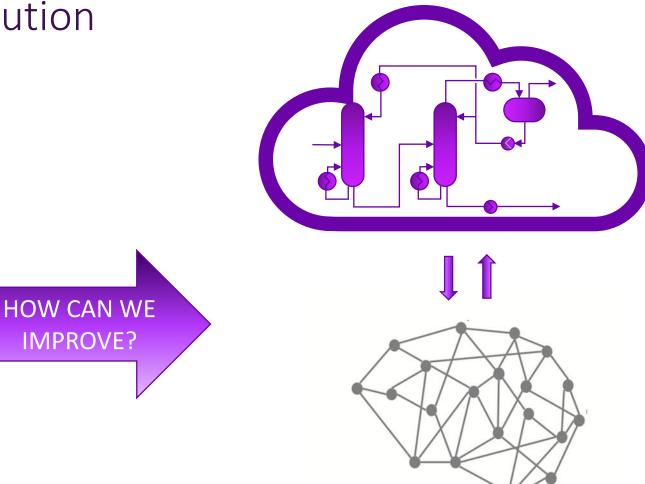
Problem Statement and Solution



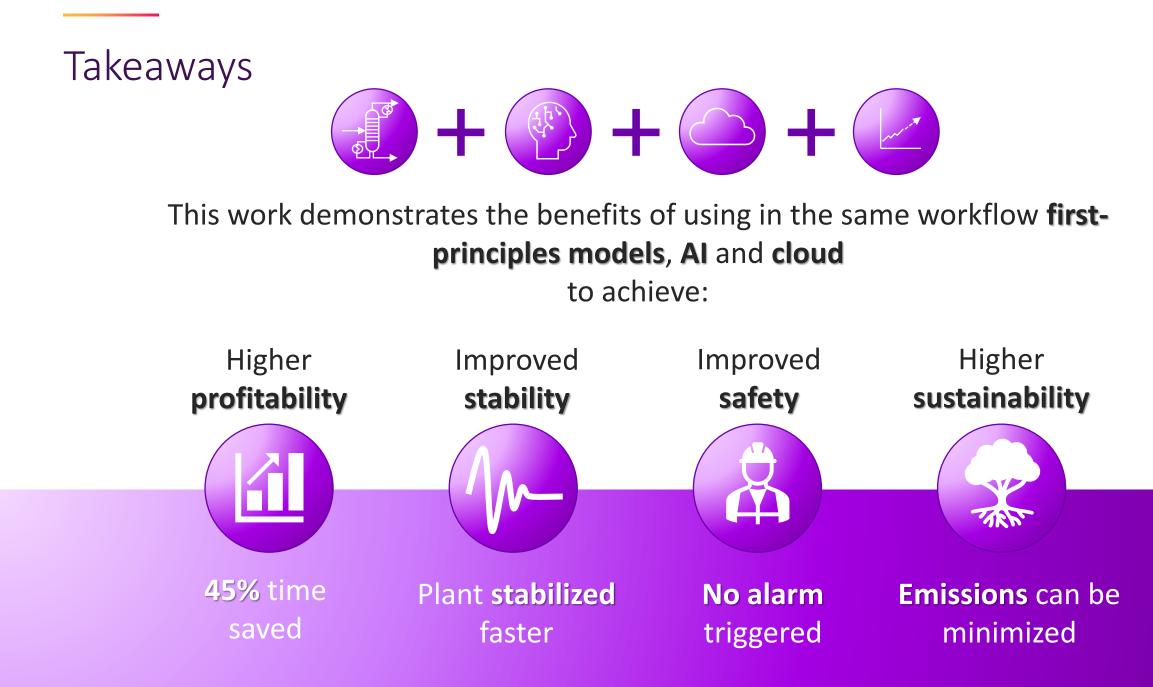
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Al agent can be trained to optimize the operation using a digital replica of the plant on the cloud



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ABOUT AVEVA

AVEVA is a world leader in industrial software, providing engineering and operational solutions across multiple industries, including oil and gas, chemical, pharmaceutical, power and utilities, marine, renewables, and food and beverage. Our agnostic and open architecture helps organizations design, build, operate, maintain and optimize the complete lifecycle of complex industrial assets, from production plants and offshore platforms to manufactured consumer goods.

Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

Named as one of the world's most innovative companies, AVEVA supports customers with open solutions and the expertise of more than 6,400 employees, 5,000 partners and 5,700 certified developers. The company is headquartered in Cambridge, UK.

Learn more at <u>www.aveva.com</u>