





Accelerating Chemical and Drug Discovery


 **Insilico Medicine**
Leverages Pharma.AI platform using deep learning and biological datasets for drug discovery acceleration.
Identified fibrosis drug candidate in 46 days vs. traditional years


 **Dow Inc. & Microsoft**
AI-guided chemical discovery for polyurethanes using cloud analytics and AI for historical datasets analysis.
Significantly shortened experimental cycles


 **Novartis**
AI-powered robotics automate chemical compounds distribution into multi-well plates for 24/7 testing.
Accelerated drug discovery, improved reproducibility and increased laboratory throughput

 **Terry Therapeutics**
Uses NVIDIA DGX Cloud to train its COATI foundation model for rapid small-molecule and drug candidate
Achieved 4x higher throughput and cut training time from one week to one day


Optimizing Industrial Operations and Production


 **BASF**
Embedded AI across "Winning Ways Strategy" through predictive sensor analytics, molecular property prediction, and mobile robot inspections.
Thousands of employees using AI in daily operations


 **Dow Chemical**
AI-based predictive maintenance system analyzing data from 50,000+ sensors across global facilities.
35% reduction in unplanned downtime, prevented 200,000 pounds chemical waste annually

 **Siemens**
AI-driven predictive maintenance monitors equipment health using real-time sensor data to predict mechanical failures.
Reduced downtime and extended equipment lifespan

AI for Environmental and Sustainability Goals

 **Veolia**
Integrated AI in water, waste, and energy management with smart sensors, AI-powered sorting robots (Max AI), and Veolia Secure GPT.
Thousands of global facilities with improved resource use and waste reduction

 **Shell**
100+ AI projects including VERS for geospatial monitoring, AI-enhanced carbon capture optimization, and machine vision for safety.
12,000+ professionals in AI community driving digital transformation

 **Covestro**
Implemented an AI- and blockchain-based "Energy Expert" platform on Alibaba Cloud to trace the CO₂ footprint of recycled plastics across supply chains.
Enhanced transparency, forecast accuracy, and Scope 3 emissions compliance