The process simulation and optimization market is at an inflection point. Artificial intelligence, advanced analytics, and cloud computing are creating a disruption in this market. Cloud computing accelerates the opportunities for business improvement, enabling engineering organizations to create value from Industrie 4.0-type agility and digitization by Software-as-a-Service (SaaS) models.

The market is moving to expand the scope of simulation beyond traditional engineering designs to asset lifecycle optimization. SaaS leverages the respective strengths of both engineering simulation and cloud infrastructure providers to transform simulation to a higher value agile service, to provide scalable web access for legacy software, and to allow users to retain invaluable intellectual property (IP) for engineering.

Leaders in the simulation market focus on easy-to-use models with the ability to create, tune, and visualize with equipment-specific analytics. Automated creation of engineering deliverables like process flow diagrams, piping and instrument diagrams greatly simplifies the handover between project engineering groups and ultimately to the owner-operator.

The cloud deployment approach can also accelerate the engineering process, thus bridging the gap between design and operations. The use of AI creates the potential for value by embedding the expert into the assets, through in-context, AI-enabled cognitive guidance and best practices.

For more information, please visit us at www.arcweb.com/market-studies/.

**Research Focus Areas**
- Strategic Analysis
  - Major Trends
  - Economic Factors
  - Industry Trends
  - Regional Trends
  - Strategic Recommendations
- Competitive Analysis
  - Market Shares of the Leading Suppliers
  - Market Shares by Region
    - North America
    - Europe, Middle East, Africa
    - Asia
    - Latin America
  - Market Shares by Application
    - Optimization
    - Simulation
  - Market Shares by Revenue Category
  - Market Shares by Industry
    - Cement & Glass
    - Chemical/Petrochemical
    - Electric Power Generation
    - Food & Beverage
    - Metals
    - Mining
- Market Forecasts & Histories
  - Total Shipments of Process Simulation & Optimization Software
  - Shipments by Region
  - Shipments by Application
  - Shipments by Revenue Category
  - Shipments by Industry
  - Shipments by Customer Tier
  - Shipments by Sales Channel
- Industry Participants
  - The research identifies all relevant suppliers serving this market.

**Research Formats**
- This research is available as a Market Intelligence Workbook (Excel) and/or a concise, executive-level Market Analysis Report (PDF), with or without detailed charts.