END-TO-END

MANUFACTURING

OPTIMIZATION

CREATE a SOFT®
Digital Twin and AI Solutions

with digital twin & AI

AGENDA

getting familiar

▪ **About CreateASoft, Inc.**

   Solutions we provide & how we're different

▪ **Client wins**

   How we've delivered value in the past

▪ **Roadmap**

   How to get up and running on our platform

▪ **Next steps**

   Additional resources and final questions

CREATE a SOFT.
Digital Twin and AI Solutions

WHO WE ARE

about CreateASoft

GEODIS   GreyOrange   Coca-Cola HBC   GOOD FOODS   COSTCO WHOLESALE   OP mobility

- **Over 30 years in business**

  Est. 1992

- **Patented solutions by industry, for industry**

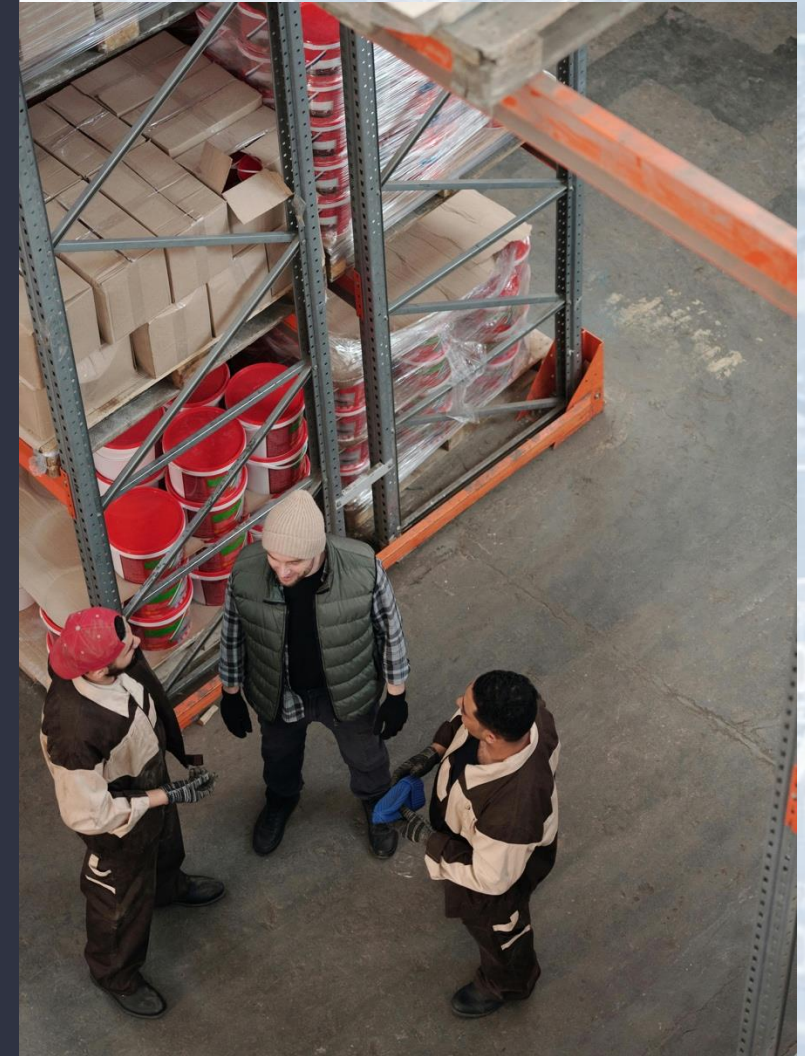 *Direct feedback from industry leaders*
  Up and down the value chain, across multiple industries

- **Our mission:**

  "We provide organizations the tools to ensure competitive advantage and sustainability in an ever-demanding world market."

CREATE a SOFT®
Digital Twin and AI Solutions

WHAT WE PROVIDE

c u s t o m i z e d   s o l u t i o n s

- ## What is Simulation?

    Visualization, bottleneck detection, what-if analysis

    Stochastic modeling and probability distributions

- ## What is a Digital Twin?

    Everything in simulation, plus:

    - Data emulation
    - Machine learning
    - Real-time capabilities at every stage

- ## Custom solutions consulting

    Digital twin modelling, analysis, and optimization

    AI solutions development & integration

CREATE a SOFT

Digital Twin and AI Solutions

HOW WE'RE DIFFERENT

patented toolsets

- **Patented modeling environment**

  Low-code, drag-and-drop model building environment

  Modify and interact with the model as it runs

  Easily define scenarios, add racking, or change your layout

- **Total data connectivity & software stack emulation**

  Direct tie-in to operational data:

  WMS WCS ERP MRP SAP PLCs GPS RFID RTLS

  integrate custom toolsets, proprietary algorithms, and more!

DIGITAL TWIN

CREATE a SOFT

Digital Twin and AI Solutions

DIGITAL TWIN BENEFITS

turn-key optimization

- **From simulation to full Digital Twin optimization**

    Offline analysis to real-time emulation & tracking

- **Machine Learning powers real-time regenerative AI**

- **Data systems come together in the DT environment**

    ex. SCADA talks to ERP to fine-tune production schedules based on real-time machine data

    Data-driven "what-if" historical analysis

    Future state optimization

- **Monitor factory operations from anywhere**

    Up-to-the-moment KPI monitoring and dashboarding

CREATE a SOFT

Digital Twin and AI Solutions

CASE STUDY

A G V & A M R   O p t i m i z a t i o n

▪ **The Problem**

1,000,000 sq. ft. sportswear distribution center

Complex human robot interaction

Trouble with fleet size & mission assignment

▪ **The Plan**

Build complete digital twin warehouse model (6 weeks)

Emulate AGV logic, labor standards & WMS in the DT environment

Compare pick scenarios and optimize bot efficiency
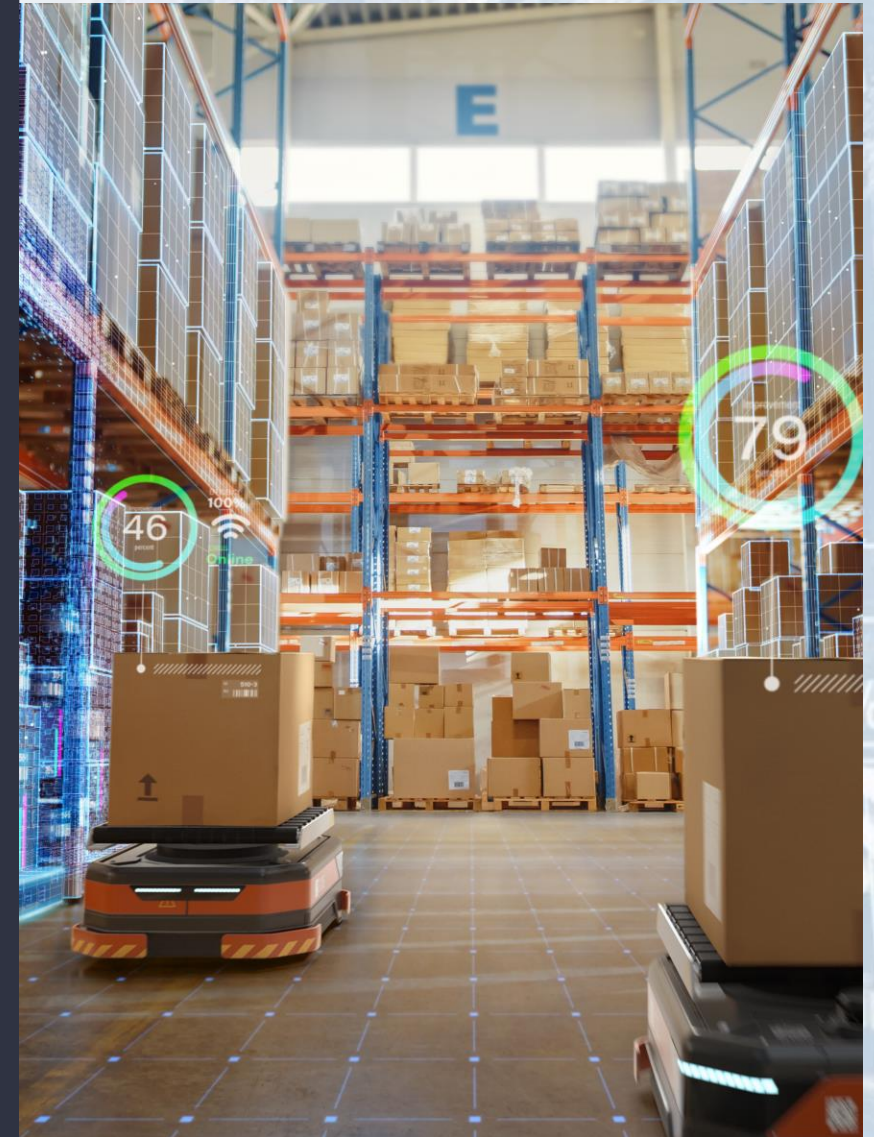
▪ **The Outcome**

Optimized AGV fleet size & mission assignment logic

Minimized empty travel time

Total savings: $900,000

CREATE a SOFT®

Digital Twin and AI Solutions

CASE STUDY

Coca-Cola bottling plant

- **The Problem**

    Large bottling, storage, and distribution facility

    ASRS systems and forklift picks

    Space constraints for floor storage, inbound & outbound sections

- **The Plan**

    Digital Twin models were used to optimize ASRS utilization and storage configurations

    Compared throughput and pick efficiency using historical data across several configurations

- **The Outcome**

    Expanded to 10 real-time Digital Twin models across global distribution network, with plans for further multi-region expansion

CREATEASOFT
Digital Twin and AI Solutions

Coca-Cola
HBC

THE DIGITAL TWIN ROADMAP

MODEL BUILD

CAD layout import
Auto-create parts & routing
Low-code building and editing

ANALYSIS

Replay historical data
Visualize bottlenecks
Value stream mapping

OPTIMIZATION

Built-in neural optimizer
Scenario analysis & reporting
Storage, scheduling, layout

REAL-TIME

Digital Twin Studio
Live KPI dashboards
AI/ML forecasting & alerts

NEXT STEPS

additional resources

- **Onboarding questionnaire**

  Help us understand your facility and process flow

- **Live demo with the CreateASoft engineering team**

  Live model tour, software deep-dive, Q&A

- **White papers & case studies**

  Read about real Digital Twin projects and what powers our solutions

- **Software trial – Simcad Lite**

  Try it for free and start building your process flow

CREATE a SOFT

Digital Twin and AI Solutions