

# From Simulation to Conversation

An AI-Powered Application for AnyLogic Cloud

AnyLogic Conference 2026

## IndX Value Proposition



Delivering the  
Digital Thread for  
Industry 4.0



Global Industrial  
System  
Integrator



End-to-End  
Software & Service  
Capabilities



Product-Agnostic  
Consulting &  
Solution Engineering



Niche & Distinctive  
Proprietary  
Methodologies



Complete Offering,  
Holistic &  
Coordinated



Strategic Global  
Partnerships  
with Customers

# IndX

We transform the way companies  
think about, design, build and  
deliver their products and services.

# VALUE

We help clients achieve their strategic objectives with a holistic, data-driven methodology

# Digital Twin Practice

We combine technical expertise with consulting mindset to help clients make informed decisions and optimize business performance, through data and digital copy of their business

## 30+

**Modelers, Simulation Experts, Data Scientists & Statisticians** supporting advanced process simulation initiatives

## 200+

**Projects delivered** worldwide by Eng Indx and strategic partners

## 3

**Competence Centers:** Regional Delivery Teams and Hubs in North America, South America and EMEA

### Our Solutions Portfolio

- Design Simulation Modeling
- Manufacturing Simulation Modeling
- Supply Chain Modeling
- Virtual Commissioning
- Intelligent Automation
- Digital Twin
- ML & Process Optimization
- Artificial Intelligence

### Academic Link

- +180 students trained each year
- Multiple publications on peer reviewed journals

### Strategic Consulting

We collaborate with strategic consulting firms to deliver impactful programmes

## In 2025 we drew a line between AI & simulation...Harvard Business Review just named it: Trendslop

AI and simulation are both remarkably powerful,  
for the tasks each is actually good at

Strategic decisions demand deep domain  
knowledge and cannot be based on belief

**Simulation matters most when understanding  
outweighs prediction**

*The webinar "AI and Simulation – What Executives Need to Know," with Andrei Borshchev*

LLMs consistently recommend  
strategies that align with modern  
managerial buzzwords and  
trends rather than context-specific  
strategic logic

*Harvard Business Review, 03/2026  
"Researchers Asked LLMs for Strategic Advice. They Got 'Trendslop' in Return"*



## Yet simulation itself has an **entry barrier**

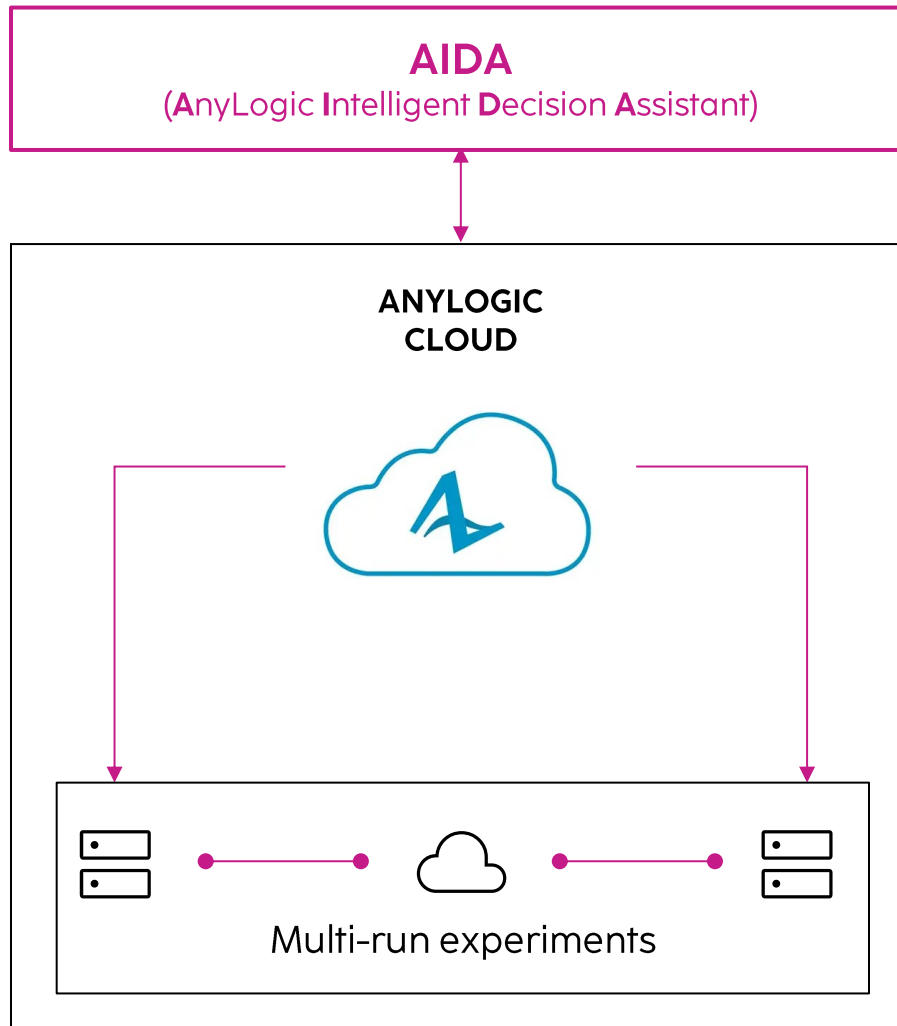


**The right AnyLogic model can be locked inside a narrow circle of technical users**

## Our idea

**What if you could just  
ask questions to the model?**

## Our idea: **AIDA** tool to democratize the access to simulation insights



The **conversational AI engine** interprets the question, selects the right analysis and orchestrates the experiments

The **validated model stays on Cloud**: experiments execute on the platform, with no duplication or reconfiguration

The model's intrinsic knowledge becomes an **understandable answer**, with the reasoning behind the number

**The value is not only the quick answer, but also the model's complexity made accessible**

## How AIDA works: one routing agent and the toolsets

# AIDA

### ROUTING AGENT

Interprets the question and calls the right tool

#### Tool 01

##### **SENSITIVITY ANALYSIS**

Identifies which inputs really drive the KPIs; currently based on Sobol indices, suited to small-scale problems

#### Tool 02

##### **TARGET ANALYSIS**

Finds alternative input configurations that meet a given KPI target, instead of testing one scenario at a time

#### Tool 03

##### **SCENARIO COMPARISON**

Puts the candidate scenarios side by side on the same KPIs and explains the trade-offs between them.

### WHY IT MATTERS

- **Conversational access on the surface, consolidated statistical methods underneath**
- **Toolset designed to grow as new analyses are needed**

## How AIDA works: a multi-agent execution framework inside each tool

**Each tool runs on a team of cooperative agents, each specialized in one element of the job:**

### Run

#### Experiment execution

Configuration and running of the experiments on AnyLogic Cloud

- Request interpretation
- Experiment configuration
- Run launch and monitoring

### Translate

#### Output explanation

Turning technical simulation results into understandable insight

- Raw results reading
- Pattern extraction
- Business-language phrasing

### Iterate

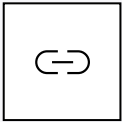
#### Thread continuation

Conversational follow-up on results already produced for deeper analysis

- Review of results achieved
- Follow-up questions
- Next analysis proposal

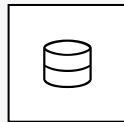
## How AIDA works: AnyLogic Cloud, the enabler

### WHY IT MATTERS



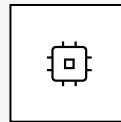
#### Ready-to-use APIs

Standard APIs available,  
no further integration work



#### Model Portfolio

Every model published on  
the Cloud is reachable



#### Managed Execution

Experiments run and scale  
on the platform



#### Security

Models, data and runs stay  
inside the platform

## Built to outlast any model or LLM, breaking the entry barrier

### KEY DESIGN ELEMENTS

- **Model-agnostic**  
use any documented model available on AnyLogic Cloud
- **No LLM lock-in**  
switch between models as capabilities, performance, and costs evolve
- **Multi-analysis**  
add new analysis without rebuilding the underlying infrastructure

### MAIN RESULTS

**Time to set up analysis**

compared with the traditional scenario-configuration workflow

**-70%**

**Scenarios explored per session**

within a single conversational session, reusing the same context

**3x**

**Simulation skills required**

to ask a simulation-related question and get an answer

**0**

**The measurable  
gain is speed.  
The deeper gain is  
who gets to ask.**

## Live demo: The Beer Distribution Game, a textbook model where asking beats guessing

The **Beer Distribution Game**: four supply chain tiers, each seeing only its neighbor's orders, and a **distortion** that grows with every step upstream — the **bullwhip effect**



## Let's watch **AIDA** in action!

## Live demo: AIDA - AnyLogic Intelligent Decision Assistant



AnyLogic Intelligent Decision Assistant

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## What's next?

We've only touched the tip of the iceberg...

**AIDA toolset keeps growing.**

**What drives its direction is which questions people want answered.**

# Thank you



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