



Bridging the gap in academia-industry collaboration: Research competitions as a catalyst for open innovation

Benchmarking Brilliance: Identifying Best Models for Complex Business Challenges

Decision Intelligence Specialists

Empowering the right decisions in a complex world with data, models & AI

WHO

- A multidisciplinary team of data scientists, software engineers, and consultants with
- **Optimization, AI solutions and services** for agile, scalable decision-making
- **In-house R&D:** Innovation at every step
- Trusted by industry leaders across Europe and the US **since 2007**

HOW

One-stop shop model

WHAT

Solutions

Decision Support Systems (DSS)

Custom Optimization and AI Solutions

On Demand Optimisation Services

Services

AI-powered consulting

AI acceleration / augmentation

Digital innovation partner

FOR



The core business challenge

In today's landscape, the explosion of AI and optimization approaches offers countless ways to tackle complexity. The real challenge and opportunity is to transform these business hurdles into an opportunity, tapping into a global ecosystem of expertise to find the most fitting and robust solutions through Open Innovation

Current obstacles

- **Inconsistent Validation** → Difficulty in bridging the gap between theoretical models and operational reality
- **Security Risks** → Concerns over testing external or unverified code on proprietary datasets
- **Fragmented R&D** → Manual benchmarking is time-consuming and lacks standardized rigor

Strategic requirements

- **Robustness** → Need for stress-testing algorithms against real-world (stochastic) constraints
- **Security-by-Design** → Requirement for an isolated, sandbox-first environment
- **Decision Speed** → Accelerated path from model selection to industrial deployment

How to do advanced AI benchmarking nowadays?

True radical innovation can be achieved by orchestrating elite research groups and suppliers to compete on business challenges, identifying and validating the most promising scientific approaches through rigorous and automated benchmarking



A Competition Platform for AI Applications Benchmarking

Open Innovation Framework

A secure gateway to engage a diverse ecosystem (Startups, Academia, Tech Vendors) and pit them against internal R&D to spark excellence

Evidence - Based Procurement

Shifting the selection process from "technical promises" to "certified performance" by validating models and performance on identical datasets and KPIs

De-risk Integration

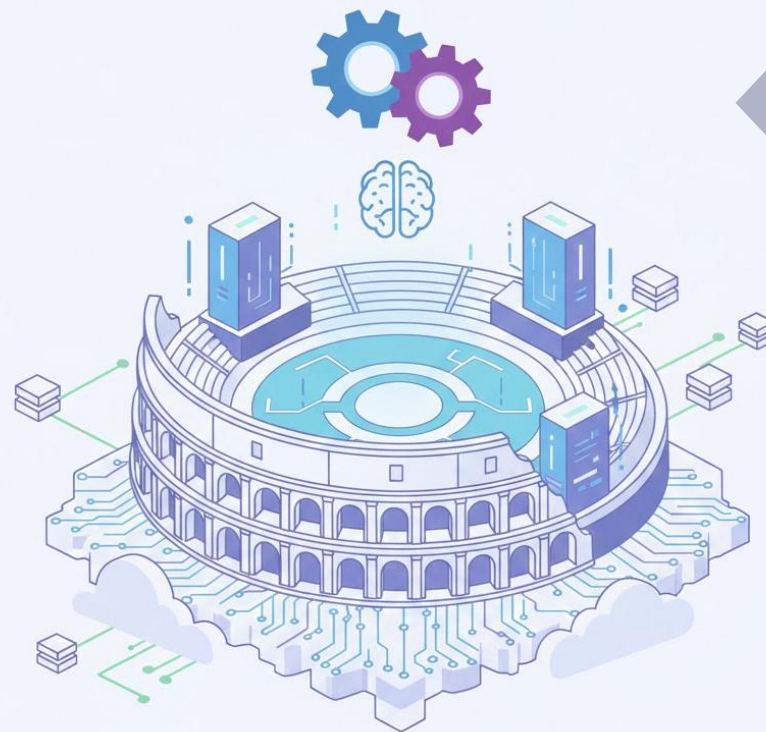
Providing a secure, sandboxed environment where external innovation is stress-tested before full-scale industrial implementation

Arena

Optit's robust, scalable and customizable Competition Platform to find the optimal approach to resolve your business problems through Open Innovation

A secure gateway to turn **Open Innovation** into a strategic asset by utilizing proprietary datasets **safely**.

It fosters **partnerships** by evaluating model logic and trustworthiness, bridging the gap between elite research and operational reality.



Engineered by Optit

Grounded in years of Operations Research and Optimization expertise by Optit
In collaboration with **Re2n**, Italian leader in Open Innovation digital solutions

Neutral & Objective

Standardized framework for comparing internal and external solutions

Ready for Scale

Designed to handle increasing complexity across multiple departments

Arena: Rigorous Benchmarking & Enterprise Readiness

Competition lifecycle



Challenge Design

Definition of:

- Rules of competition
- Custom datasets
- Business-specific performance metrics



Model Submission

Secure intake and automated orchestration within **isolated Docker sandboxes**



Validation

Beyond black-box validation with **custom evaluation** modes.

Testing across **multiple datasets** for performance stability



Ranking

Generation of data-driven leaderboards for objective decision-making

Technical & Functional Capabilities

Enterprise Security

Total isolation of code and data to protect the your infrastructure and your privacy

SaaS Scalability

Immediate setup with zero hardware overhead and continuous platform updates

Cross-Domain Agility

Adaptable to any department: from Supply Chain to Ops and Maintenance

Decision Intelligence

Deep-dive analytics to identify best-in-class solution patterns

ClarifAI: Unlocking model trust and explain OR* to everyone

Beyond numerical performance: ensuring OR models are understood, trusted, and used.

User sees: "Error: No solution found." → User asks: "Why is this infeasible?"

User feels frustrated & skeptical → User receives: root-cause analysis & data fixes

The OR Result: a "black box" output → The OR Result: an interactive, trustworthy advisor



ClarifAI is a GenAI-Powered Explainability Service
for * exact mathematical models by OPTIT.

Your "translator" that ensure your high-level logic is understood, trusted, and fully utilized by business operations.

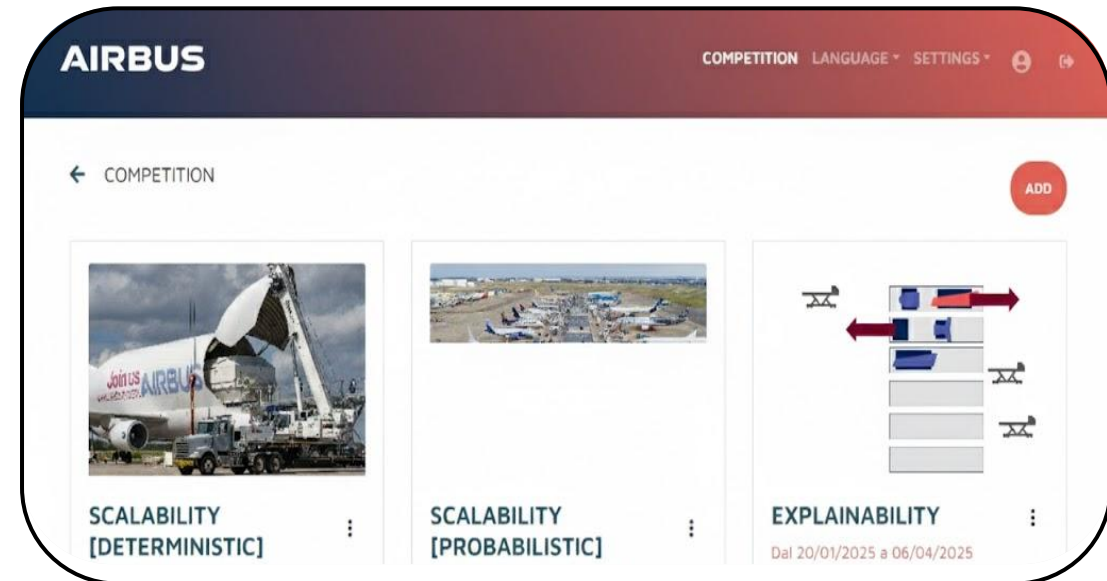
Available as an **ARENA add-on** or **Standalone Enterprise Service**

- **Conversational Guidance**
"What data should I update for a feasible plan?" – "Why is this instance infeasible" – "Which data points are in conflict"?
Get real-time and actionable answers
- **Empowering the end-user**
With root cause analysis and conflict resolution, ClarifAI instantly identifies why an instance has no solution
- **Universal Compatibility**
Designed to integrate with any * exact mathematical model.

Enterprise integration & Identity

Create your AI/Research Ecosystem through white-label customization and secure cloud architecture

- **White-Label Portal**
Fully customized environment to position the platform as a proprietary asset
- **Operational Transparency**
High-level dashboards for executive oversight and progress tracking
- **Strategic Community Building**
Use the platform as a proprietary hub to register, track and manage an elite ecosystem of AI suppliers



Example of customization made for AIRBUS during the TUPLES EU Project

Your Brand, Your Innovation Hub

Full UI/UX customization to align with your corporate identity

Ready to turn elite research into certified industrial performance?

If you want to explore how our Arena competition platform or ClarifAI explainability service can bridge the gap between scientific innovation and operational reality, let's start a conversation.



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Thank you

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