42DE

THE SOFTWARE PLATFORM
FOR ENTERPRISE OPTIMIZATION

Specialized AI orchestrates AI, HPC and Quantum Computing to solve optimization problems previously too complex or too expensive to address.

WHAT IS 42DE?

42de is an AI-driven software platform for solving complex enterprise optimization problems.

Specialized AI decomposes each problem into sub-problems and orchestrates them across the best-fit HPC and Quantum resources.

The results are recombined into one actionable decision. One platform. One API. No vendor lock-in.

HOW THE PLATFORM WORKS

01	02	03	04	05
BUSINESS PROBLEM	**AI DECISION LAYER**	**POLYCOMPUTING**	**AI • HPC • QC**	**OPTIMIZED DECISION**
Enterprise objective + constraints	Analyze + decompose	Match task to best compute	Vendor-agnostic execution	Recombine into one action

TODAY - WHAT WE HAVE BUILT

Working platform. Real applications.

- **WORKFORCE SCHEDULING**
  Complex workforce + shift optimization
- **INTELLIGENT ROUTING**
  Fleet, logistics + network optimization
- **ROBOTICS & SWARMS**
  Mission-based heterogeneous autonomy

Robots receive missions - 42de continuously optimizes how heterogeneous systems cooperate to execute them.

3-YEAR VISION

FROM OPTIMIZATION SOFTWARE

TO THE ENTERPRISE DECISION & COMPUTE ORCHESTRATION LAYER

- **UNDERSTAND** the optimization problem
- **SELECT** the best compute combination
- **OPTIMIZE** performance, cost + availability
- **ABSTRACT** heterogeneous infrastructure

DOES IT WORK?

11,500
employees

~1.3 min
14-day plan

~200×
faster

>90%
lower compute cost

SIEMENS HPCWORKS
LOI + commercialization

FIRST REVENUE
LRZ

ENTERPRISE VALIDATION
SIEMENS • TELEFÓNICA • PRIMION

RESEARCH + INFRASTRUCTURE
TUM • IBM QUANTUM NETWORK • LRZ

WHO CAN BUILD IT?

GIUSEPPE "BEPPE" GULLO — CEO & CTO
Technology entrepreneur + enterprise tech executive

JAKOB VON MOERS — COO & CMO
Entrepreneur; Red Bull, Nokia + technology industry

PROF. ALOIS KNOLL — SCIENTIFIC CO-FOUNDER
TUM Professor: Robotics, AI + Embedded Systems

ADVISORY Niko Mohr (Chair) • Reinhold Achatz • Sebastian Wowra • Ingo Faecks

WHY INVEST NOW?

SEED ROUND **€5M**

Capital turns validated technology into a **scalable enterprise software product.**

- Industrialize the platform
- Convert pilots into products
- Productize robotics stack
- Scale enterprise GTM
- Expand product, engineering + sales