Analytics and Optimization towards Operational Excellence

Focus: Horizon matchmaking
Company Profile

Accredited Spin-off of the Alma Mater Università di Bologna (Operations Research and Management Science). We design, develop and provide state-of-art Solutions and Services in Advanced Analytics and Optimization.

We integrate the talent of highly skilled Data Scientists, Business Consultants and SW Development Engineers to support our Customers and Partners in their Digital Innovation roadmap.

We enable efficiency and effectiveness for medium and large enterprises in several industries (Energy, Waste, Logistics, Retail), unlocking exceptional returns on investments (ROI).

Bologna: Consultancy Services and Commercial HQ

Cesena: Software Factory
Our target Markets

ENERGY
- CHCP Systems’ Generation Management
- DHC Operations and Development Optimization
- DHC Network Maintenance Planning

WASTE
- Collection Services
- On Demand Logistics
- Waste Supply Chain
- Waste Asset Allocation
- Digital Innovation strategy

ANALYTICS & OPTIMIZATION
- Advanced & Customized Models And Algorithms
- Business Intelligence
- Machine Learning And Data Science
- Data Mining

LOGISTICS & SUPPLY CHAIN
- Distributive Logistics Network Design
- 3-2d Bin Packing
- Workforce Strategic Placement
- Fleet Track & Tracing

DIGITAL INDUSTRY
- Data Structuring & Management
- Process Workflow Digitalization
- Industry 4.0 Data Exploitation
- Customized Decision Support Systems
Our current EU projects

European District Heating Improvements - Upgrading 8 DH networks with investment evaluation and scenario analysis

Integrated Planning of Multi-Energy Systems - Design of efficient transition paths for future energy systems, on both generation and infrastructure at national and local level

Industrial Retrofitting Support System - Implementation of a Smart Retrofitting Framework (DSS) in 5 Energy Intensive Industries (REIIs)

Trustworthy Planning and Scheduling with Learning and Explanations - transparent, robust and safe algorithmic solutions for planning and scheduling, combining symbolic P&S methods with data-driven methods, on quite different 5 use cases
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Advantages of a collaboration with Optit

- Possibility to cover a large set of tasks:
  - **Consulting** for functional and process analysis
  - **System modeling** for both simulation and optimization
  - **Technical design** of tools and system integrations
  - **Software tools** implementation
  - **Data science** consulting and data analysis
  - Also **project coordination** and **dissemination/communication**, if needed

- **Domain knowledge** of energy system/markets (and others e.g. manufacturing, logistics)
- **Ability to reach a high TRL** in order to have a fully engineered tool ready for commercial exploitation
- **15 years of experience** with a documented success track (also on EU projects)

We are currently looking for consortiums to join about these topics:

- **HORIZON-CL5-2022-D3-03-04**: Integrated wind farm control
- **HORIZON-CL5-2022-D3-03-08**: Development of digital solutions for existing hydropower operation and maintenance