

SERVICES

Smart Data Factory

Laboratory for recording and smart analysis of complex data

Free University of Bozen-Bolzano
Faculty of Engineering

Head of laboratory:
Prof. Diego Calvanese

SERVICES		All prices listed are exclusive of VAT
Data Spotting	<p>This service supports private and public organizations to embrace the attitude of data management and evidence-based decision making. The service includes:</p> <ul style="list-style-type: none"> - the identification of the relevant data sets; - the documentation of the identified data; - the design of the software architecture for data integration and retrieval; - the design of the data exploration functionalities. 	<p>Technical Feasibility Study: 1.200 €/day</p> <p>Short project (~3 months): 5.000 – 15.000 €</p> <p>Long project: 30.000 €/year</p> <p>Post-project consultancy: 1.200 €/day</p>
Data Understanding	<p>This service helps private and public organizations to analyze the content of their data sources in order to assess the usefulness and value they represent to their business, and to understand how such data can effectively used.</p>	<p>Technical Feasibility Study: 1.200 €/day</p> <p>Short project (~3 months): 5.000 – 15.000 €</p> <p>Long project: 30.000 €/year</p> <p>Post-project consultancy: 1.200 €/day</p>
Data Analytics	<p>This service helps customers leverage their data assets, in order to improve their services and products, increase performance, reduce costs, and design new offers. It is specifically tailored to address data analysis and predictive modelling needs.</p>	<p>Technical Feasibility Study: 1.200 €/day</p> <p>Short project (~3 months): 5.000 – 15.000 €</p> <p>Long project: 30.000 €/year</p> <p>Post-project consultancy: 1.200 €/day</p>
User Interaction Analysis	<p>Knowing how your users interact with your software or website can lead to great improvements in usability and customer satisfaction. We collaborate with your software development team to instrument existing softwares or websites so that we are able to log how users interact with it and analyze the resulting log.</p>	<p>Short project (~1 month): 5.000 – 10.000 €</p>
Ontology-based Semantic Annotation in Legal Documents	<p>This service intends to support the organization of a set of legal documents so that they can later be used in jurimetry, in the automatic verification of the</p>	<p>Technical Feasibility Study: 1.200 €/day</p> <p>Long project: 30.000 €/year</p>

LAB DESK

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admissibility of documents according to requirements prescribed by law, and in the elaboration/proposition of decisions in recurrent legal cases.

Agile Software Architecture Design	This service supports the implementation of agile processes to identify risks during a software development project and evolve the software architecture to avoid them.	Technical Feasibility Study: 1.200 €/day Short project (3-6 months): 7.000 – 20.000 €
Support for Software Architecture Refactoring	This service provides support to clients to identify problems with a software architecture and help their development team in finding the best options for its redesign and refactoring.	1 week consultancy: 1.200 €/day
Applicability of Process Mining	This service consists of a pilot consultancy on process mining. Process mining is a technique that allows one to create a process model using the logs of the running process as input, to reason over it (e.g., identify bottlenecks) and to propose how to optimize it.	Technical Feasibility Study: 5.000 €
Digitalisation using Business Process Modeling (BPM) Solutions	This service provides the client with a pilot consultation on digitization using BPM solutions, by eliciting data and process models, and discussing which architectural solutions could be adopted depending on the nature of the processes involved.	Technical Feasibility Study: 5.000 €
Applicability of Recommender Systems	Recommendation systems automatically match online users with products, documents or in general, items. Based on a set of domain-oriented requirements and with access to data, experimentations will be performed to assess the applicability of different recommendation algorithms. Typical application domains are online platforms for e-commerce/e-tourism.	Technical Feasibility Study: 1.200 €/day Short project (~3 months): 5.000 – 15.000 €
Applicability of Video Analysis	Video analysis provides methods to automatically extract information about a scene captured by one or more cameras. Such information can be obtained from video by detecting and tracking objects and people in the scene and inferring their (inter)actions and activities. Based on the analysis of use cases and representative data, the applicability of the current state of the art in computer vision will be assessed, and the effort required to customize it to meet the requirements of specific use cases will be evaluated.	Technical Feasibility Study (2-4 months): 5.000-15.000 € Medium project (6-12 months): 15.000 – 30.000 €
Computer Vision Solutions for Industry	In cooperation with Covision Lab, feasibility studies, prototyping, and industrialization of computer vision solutions for companies are offered. Example application domains are manufacturing, e-commerce, printing, agriculture, and mobility.	Technical Feasibility Study and Prototyping (2-4 months): 5.000 – 15.000 €
Human Computer Interaction and the Internet of Things	This service offers expertise in the design and co-design of smart things and their interaction with people, for a quality User eXperience (UX). We offer: <ul style="list-style-type: none"> – evaluation of research project proposals concerning smart things and their interaction with people; – methodologies and prototyping tools for (co) designing smart things and their interaction with people; – expert evaluation of smart things and their interaction with people for a quality UX. 	Technical Feasibility Study: 1.200 €/day Short project (~3 months): 5.000 – 15.000 €

Mapping of Business Assumptions	Any innovative project starts with an idea that has a set of business assumptions associated with it. Some of these assumptions are crucial and risky, and if unvalidated, may become major failure factors. By interacting with the client, in this service we will apply a state-of-the-art technique called “Hypothesis Mapping”, complemented by some industry-based assumption mapping techniques, to help the client in better understanding the feasibility of the innovation initiatives they are undertaking.	Technical Feasibility Study (2 days): 1.200 €/day
Verification of AI-enabled Systems	This service consists of a pilot consultancy on how to create and automate testing scenarios for AI-enabled systems, either software or cyber-physical. Example application domains are automotive, vertical farming, eHealth, smart transportation and smart household.	Medium project (~6 months): 5.000 – 15.000 €
Verify Your Software	In this service, we provide a pilot verification on your software system to evaluate the degree of exposure to cyber physical attacks. We verify the coverage of your tests for GUI and internal logic as well as test performance of the software system under different loads and resources utilizations and green requirements (carbon footprint).	Medium project (~6 months): 5.000 – 15.000 €
Data Preparation and Restructuring	Data preparation is the foundation on which analytics is built and Business intelligence analysts spend most of their time dealing with data preparation-focused tasks. In this service, based on the notions of data independence and semantic enrichment, we provide methodologies to support better data cleaning and data preparation tasks.	Technical Feasibility Study: 1.200 €/day Short project (~3 months): 5.000 – 15.000 € Long project: 30.000 €/year Post-project consultancy: 1.200 €/day

The services are offered by Smart Data Factory, also on behalf of the Faculty of Engineering.

The prices reported here are approximate and may vary depending on the duration of the project, the involved personnel, and its effort.

The services might be provided by exploiting the NOI Lab Bonus or the innovation calls of the Autonomous Province of Bozen-Bolzano.