

# TAILOR

## Foundations of Trustworthy AI Integrating Learning, Optimisation and Reasoning

In September 2020, the TAILOR project, a network of Artificial Intelligence (AI) research excellence centers across Europe funded by the European Commission, started its activities.

### What are the objectives of the TAILOR project ?

- The goal of TAILOR is to develop the scientific foundations for achieving Trustworthy AI by advancing the state of the art in learning, reasoning, optimization and most importantly their integration
- The Network is designed to achieve both research excellence and broad participation as well as active industry involvement
- The funding will be used for developing a strategic research and innovation roadmap for the foundations of Trustworthy AI, doing technical research on the major scientific challenges identified, creating a community around the network, and supporting broad participation including industry

### How do we develop synergies between industry and TAILOR ?

55 partners are involved in the TAILOR project, majority being leading figures in AI from academia and research institutes across Europe complemented with major industrial players, representing sectors like **mobility/transportation, healthcare, smart industry, energy**, etc.

A dedicated work package (WP8 - Industry, Innovation and transfer program) aims at developing strong synergies and cross-fertilization activities between TAILOR partners and industry to provide the basis for Trustworthy AI in Europe.

A collection of mechanisms supporting innovation and effective collaboration within the network will support the following activities:

- Organization of a series of Theme Development Workshops with the objective to bring together key players from specific industry sectors with key AI researchers from the most relevant areas of AI for this sector to contribute to the Strategic Research and Innovation Roadmap
- Organization of **hackathons** (2 or 3 days) and **challenges** (3 to 6 months) based on use cases provided by industrial partners during the Theme Development Workshops turning their results when feasible into proof-of-concepts, demos or services
- Spread innovations from research to industrial partners in and beyond the TAILOR network, make new challenges from industry get addressed by research, both for bridging the gap between research, development, market and society.

## What are Hackathons and Challenges?

- **A Hackathon** can last up to 3 days involving members from research and industrial TAILOR partners and outside with a priority given to TAILOR members. The main goal of a Hackathon is to address one or many business problems in a short timeframe by involving multidisciplinary teams (see Teams section below). It can be used to develop a proof-of-concept, to help define a Minimum Viable Product (MVP), to improve an existing product, to challenge the industrial partner strategy, to open channels for further recruitments and other networking motivations, to improve TAILOR's stakeholders visibility, building bridges between academia and industry, showing industrial partners innovative actions and research institutes willingness to transfer research results to tangible products, etc.
- **A Challenge** with a duration between 3 to 6 months, involving members from research and industrial partners inside and outside the project will produce results to be used in an operational context. Prerequisites are ambitious and complex use cases, sets of validated data, series of well-defined problems of gradual difficulty with operational goals to be provided by industrial partners. The CodaLab platform, an open source framework for running competitions, will be preferably used.

## What is in it for you?

These collaborative events, diversifying and multiplying the stakeholders with whom to innovate, have many advantages which can be summarized as follows:

- Attract people with different backgrounds to think over a problem from different perspectives
- Quickly produce ideas for solutions, informal training, opportunity for learning
- Explore new AI-based solutions and producing software prototypes
- Find better use of the data
- Means of stimulating innovation capacities over short or long time periods
- Showcase once talent to the world and increasing chances of getting recruited
- Start collaborations between industrial partners and the winners
- Start or increase collaboration among companies and research organizations

## What is expected from you?

Hackathon and challenges are organized together between the industrial partner(s) under the supervision of a dedicated Selection Committee.

The industrial partner(s) will provide the following:

- Use case, series of problems of gradual difficulty (challenge only), datasets (open big data or private sources), potential AI tools, plan to use the results, ...
- Resources for the organization (manpower, venue, catering, prizes, etc.) and the event promotion.

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