Toulouse

Montréal

The project will provide industrial partners with the artificial intelligence (AI) tools and technological bricks that enable them to **secure and certify** in a short time the development of their critical systems integrating AI functions.
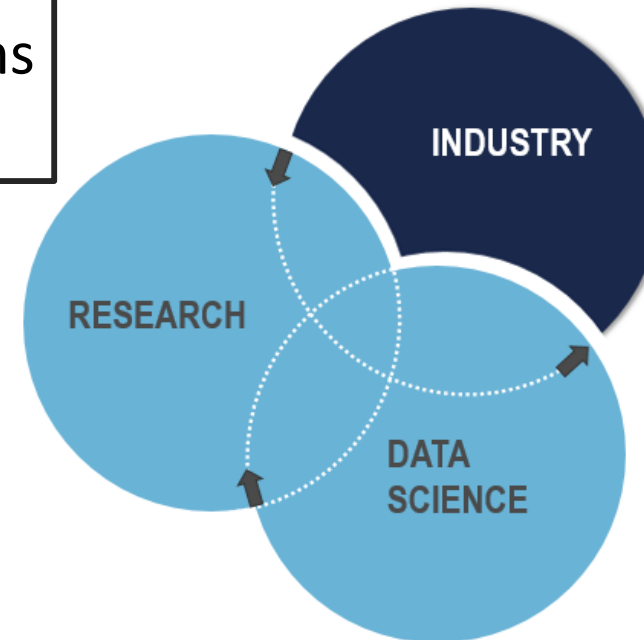
Main topics:
- Explainability,
- Robustness,
- Fairness,
- Certificability,
- Privacy

INDUSTRY

RESEARCH

DATA SCIENCE

26 M€

5 ans

24 partners

60

DEEL project

DEpendable & Explainable Learning

Fairness challenge objectives:
- removing bias from training (training data, unfair decisions)
- effects of the learning sample in the ML process use it to improve training datasets
- collaborative training with separate and secret datasets

M. Serrurier, Jean-Michel Loubes, et E. Pauwels, « Fairness with Wasserstein Adversarial Networks », 2019.
Risser, Vincenot,Couellan, Loubes, 2019 https://arxiv.org/abs/1908.05783

Explicability challenge objectives:
- User concepts for explainability toolbox (industrial and certification level)
- Explainability of black box models
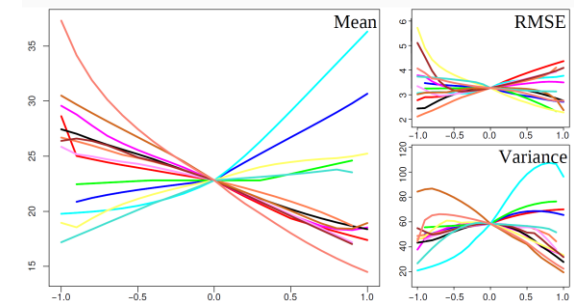- Stability of models and interpretability
- Metrics

Deliverables:
- methodology, tools, metrics to measure bias
- algorithms to correct bias in models
- benchmark with industrial applications,
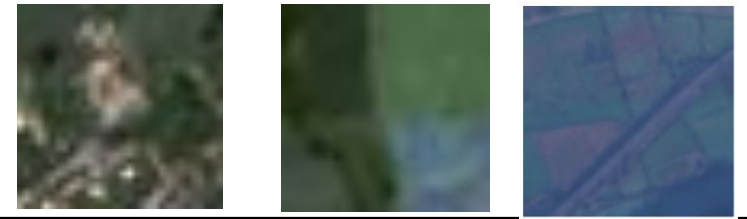
Deliverables:
- Methodology, tools, metrics for explanation
- Algorithms to explain black box models
- Turorials on industrial use cases

« Certification of AI » mission presented yesterday (paper We.1.B.3)

https://github.com/XAI-ANITI/ethik

26 & 27 MAI 2020

TOULOUSE

www.mobilit.ai

THANKS!