

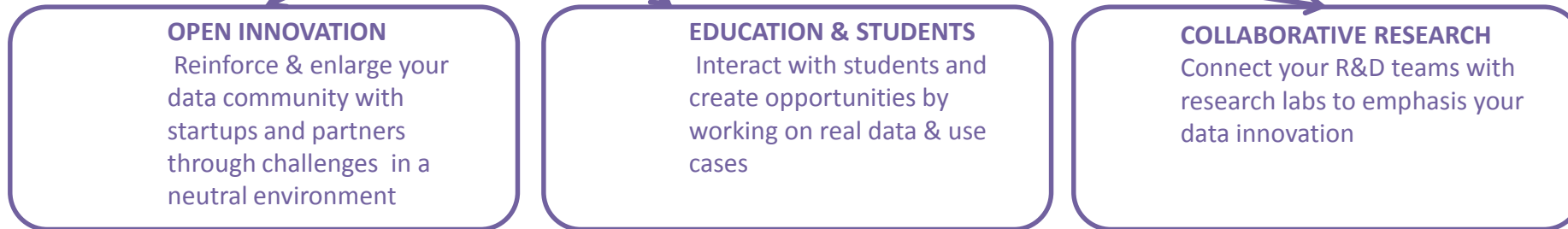


TERALAB


Data Science for Europe


Anne-Sophie Taillandier


# BOOST YOUR COMPANY'S BIG DATA & AI INITIATIVES




**SANDBOX**

  
TOOLS

  
DATA

  
INFRASTRUCTURE

  
SECURITY

Up to 15TB Ram – 520 cores  
400 TB Storage


## TERALAB

A TRUSTED R&I  
BIG DATA & AI  
PLATFORM

**SERVICES**

  
LEGAL

  
ANALYTICS

  
ARCHITECTURE

  
RESEARCH

TeraLab staff +  
Startups & academics


**TRUSTED & SOVEREIGN**

- Adaptative security level
- Stated control facilities
- No private shareholders
- No conflict of interests

**A NON-PROFIT PRICING**

- Pre-established priced
- NO hidden cost
- ~80% market price

**EASY TRANSITION**

Your setup in TeraLab  Your setup in your datacenter

**SUCCESS STORIES**

More than 50 projects hosted !

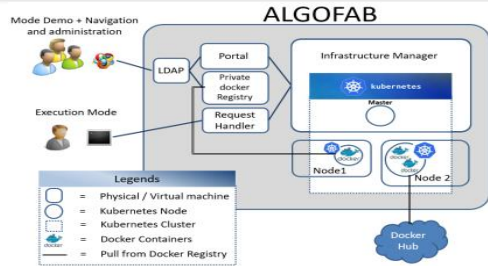






# STATE OF THE ART, AND BEYOND

## Algofab : a ready to use AI toolbox



## Big Data Tools APACHE Suite, Open source And more ....

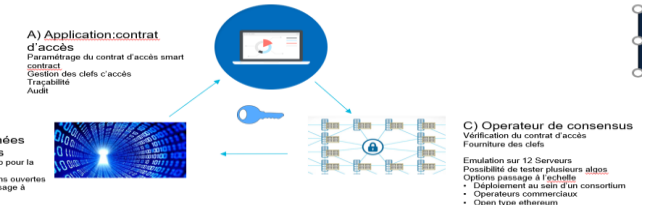


## Data & Data Trust Technologies

### Secured & Sovereign workspaces

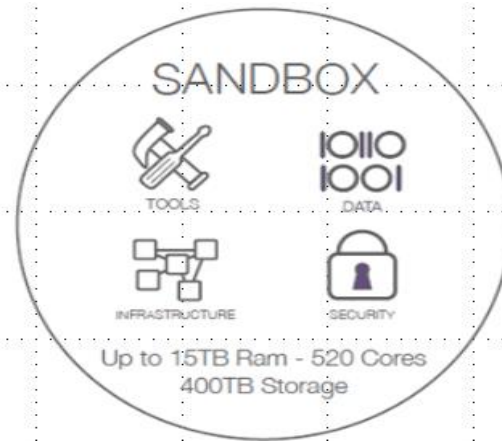


- Distributed Ledger Technologies
- Watermarking
- Crypto
- Anonymization
- Differential Privacy
- ...



**INFRASTRUCTURE**

- Pour la maquette de service applicatif : 2 serveurs Debian Desktop ( pour la maquette de service) de 16Go à coeurs
- Pour l'émulation des serveurs de l'opérateur consensus : 4 autres serveurs des 8Go et 2 coeurs, à adresses de 8Go et 1 seul coeur, et 8 entre encore de 2Go et 1 coeur.
- Toutes les machines ont accès à internet, au niveau de la taille disque min 40Go sur chacune, et 500Go sur les 2 serveurs de 16Go.
- Procédure installation : Docker



## State of the art infras

### In Memory Analytics

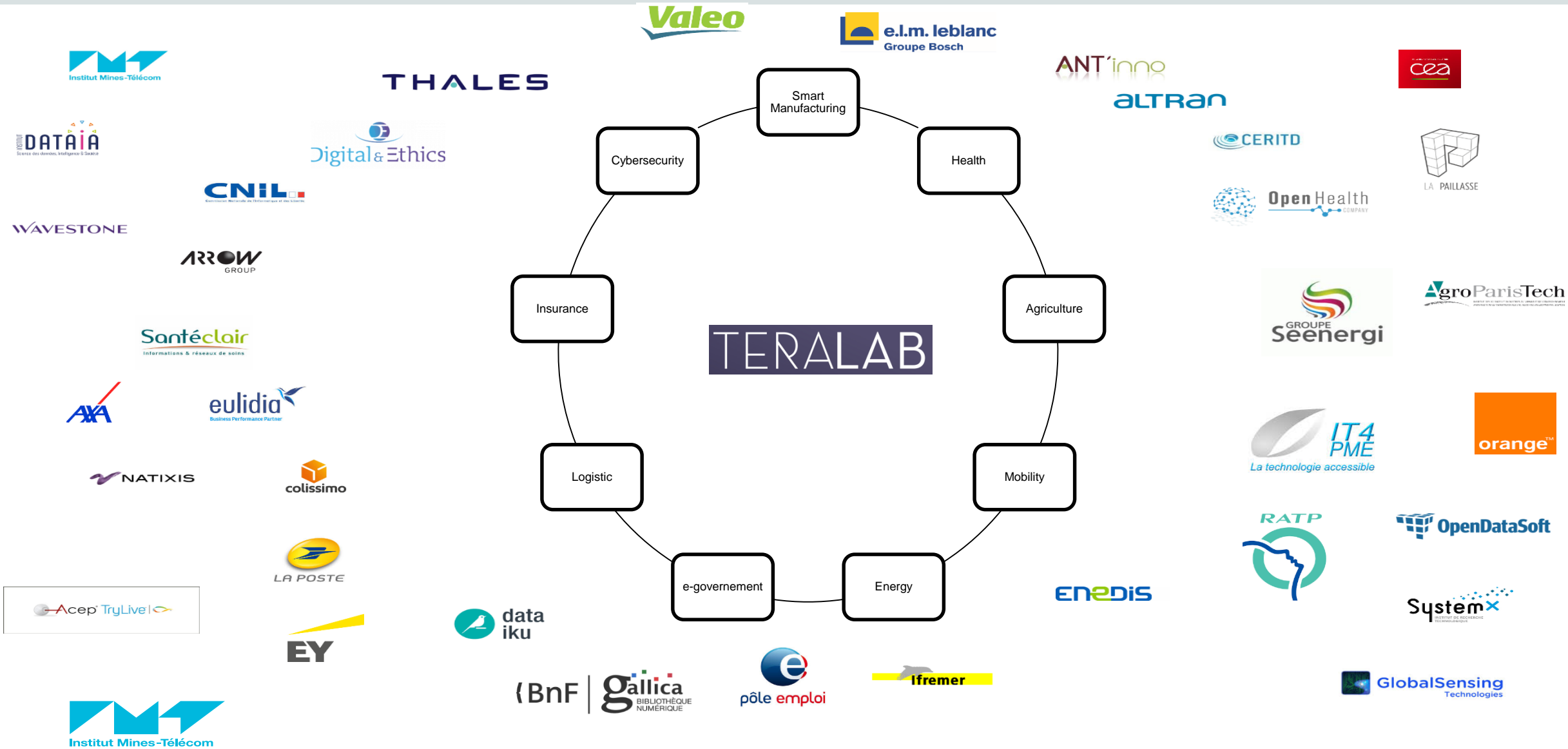


### GPU for Deep Learning



### Distributed Analytics

# MORE THAN 60 PROJECTS, MANY DOMAINS



## Precompetitive Platform

### Data Innovation Community engagement

Large network of Data Owners ,Data Users and Data Innovators

### Support to Use case Formalization

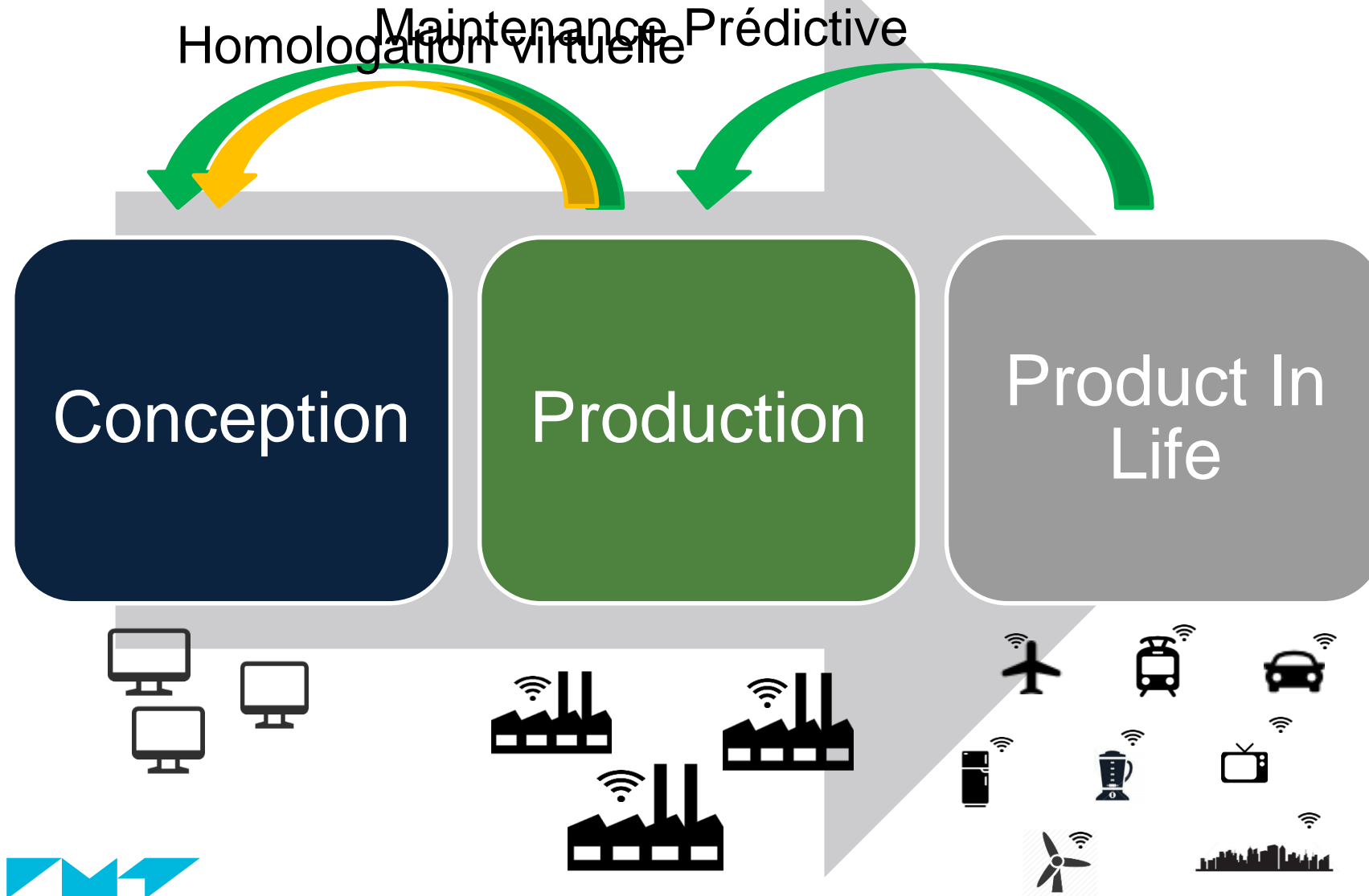
### Support to architecture specifications

### Support to legal and regulatory provisions for your project

### Trusted sovereign neutral platform to host your data and technical development

**“From proof of concept to proof of ROI” contribution to valorization and industrialization of project results**

# INDUSTRIE DATA SHARING & CAS D'USAGE



## Exemples de cas d'usages :

- Détection de défauts de fabrication
- Détection de défauts de conception
- Maintenance prédictive
- Jumeau digital
- ...

Data  
Sovereignty

Decentralized  
data management

Data Economy

Value Creation

Trust

Easy linkage of  
data

Secure data  
supply chain

Data governance



- **International Data Spaces Association (issue des fraunhofer en Allemagne)**
- **AI4EU : H2020 pour création d'une plateforme européenne d'Intelligence Artificielle**
- **BOOST 4.0 : H2020 Industrie du futur, 13 usines pilotes, échanges de données**
- **Soutiens aux PME au niveau régional, national et européen**

# TERALAB

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