



Personalizing education through human-centric data sharing

Personalizing education

Value

- Adapting pedagogy to each person's needs and situation
- Detecting when somebody is going to drop out
- Personalizing guidance according to people's abilities
- Proposing the right training at the right time in a lifelong learning perspective

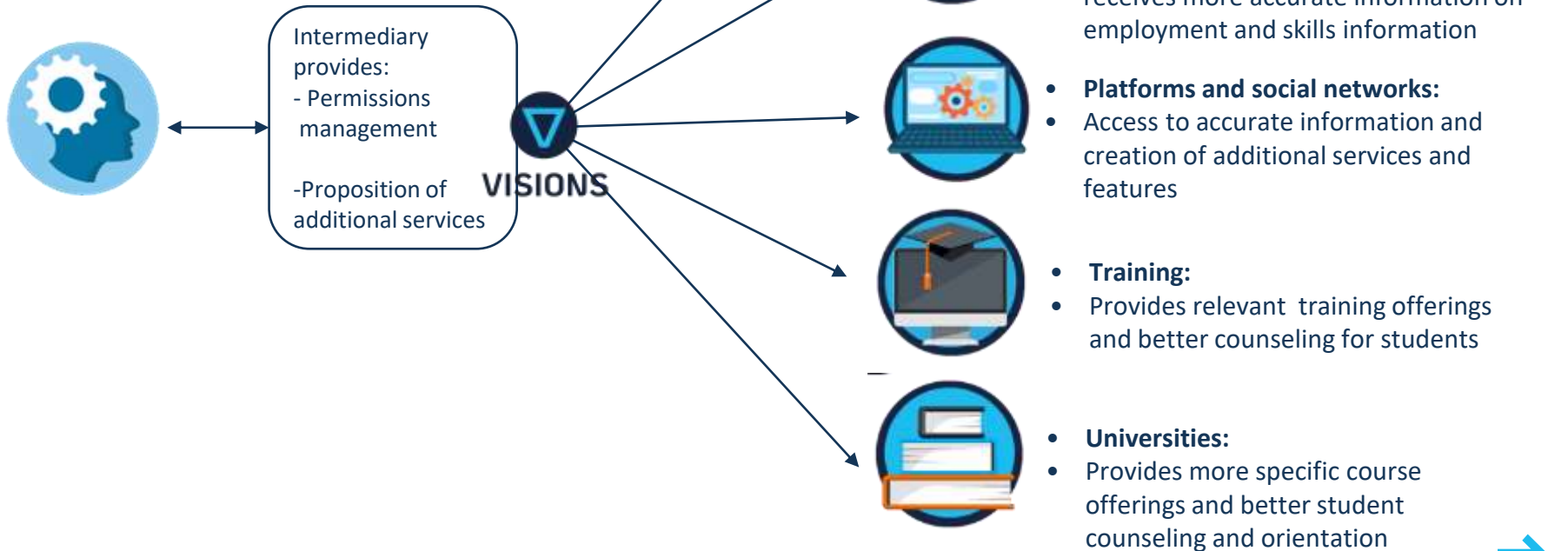
Needs

- Lots of data about people
- Trustworthy AI
- Data sharing infrastructure
- Human centric data management

Challenges

- Accessing data
- Governance
- Interoperability
- UX
- Business models

Skills data ecosystem



Prometheus-X : Community to build digital commons



Public actors and research



Higher ed and lifelong learning



EdTech and Cloud



Bilan d'Orientation : 4 edtechs interconnectées



Découverte de contexte professionnel

Une plateforme numérique d'identification des talents par le jeu et de découverte des contextes professionnels adaptés à la personnalité de l'utilisateur.



Les contenus éducatifs ciblés

Une plateforme qui permet aux utilisateurs de recevoir du contenu éducatif (mooc, contenu pédagogique, vidéos)



JOBREADY

Détermination des soft skills

Grâce à un chatbot interactive et l'intelligence artificielle JobReady génère une série de compétences douces (soft skills) que la personne a acquises.



Stockage dans un espace sécurisé de données

Une plateforme permettant le stockage des données sécurisé dans Cozy.io, donnant à la personne la possibilité de visualiser, gérer et envoyer ses données vers un conseiller

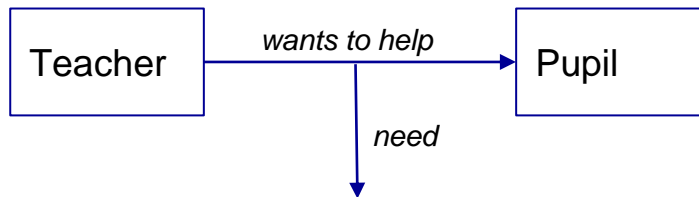
Demo



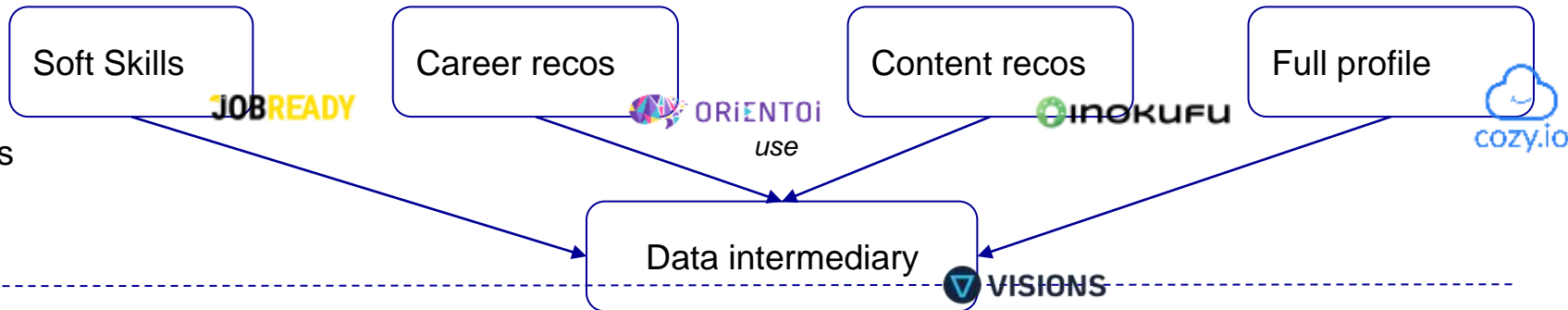
Use case



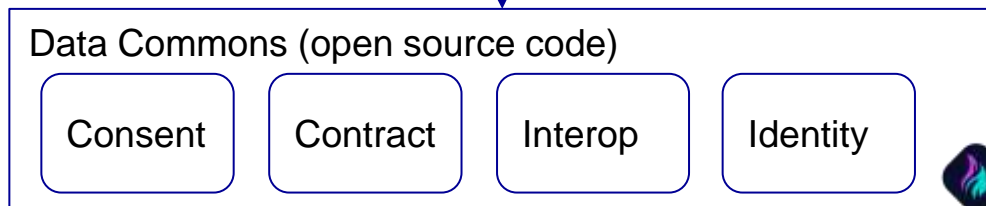
Users



Data & Services



Infrastructure



EUROPEAN CONTEXT : DATA SPACES AS PRIORITY PLAYING FIELD

2018



Silos, winner takes all & privacy issues



Privacy regulation global landmark
(GDPR, portability, rights)



Data-sharing as a cornerstone
(DGA, DSA, DMA, DA)

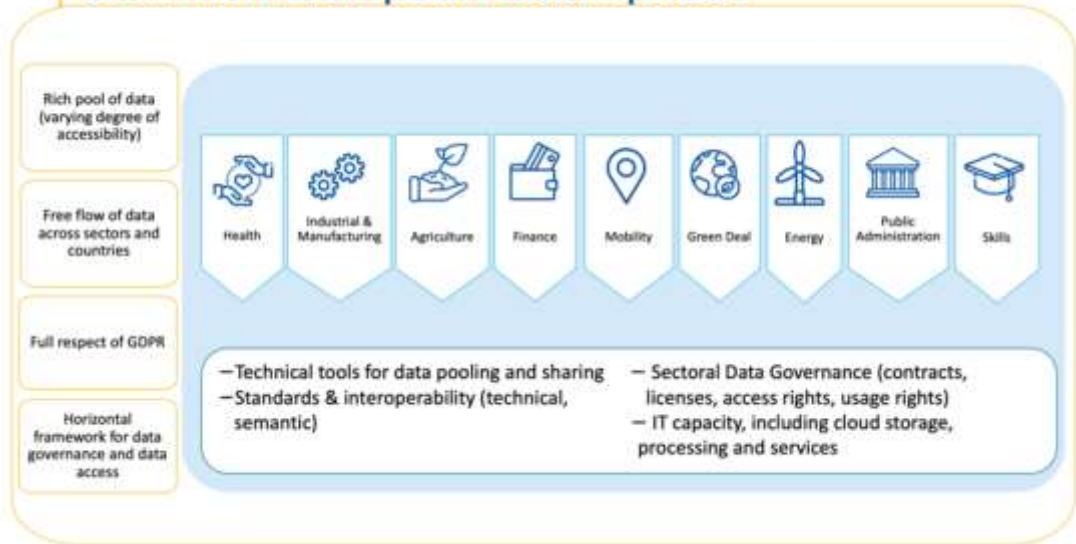


Data Spaces Standardization
(Data Spaces projects)

2022

*‘ Today we are defining a truly European approach to data-sharing. Europe needs **an open but sovereign single market for data**. Our regulation, coupled with the right investments and key infrastructure, will help Europe lead the world in data. ‘* Thierry Breton – EU Commissioner for Internal Market

Common European data spaces



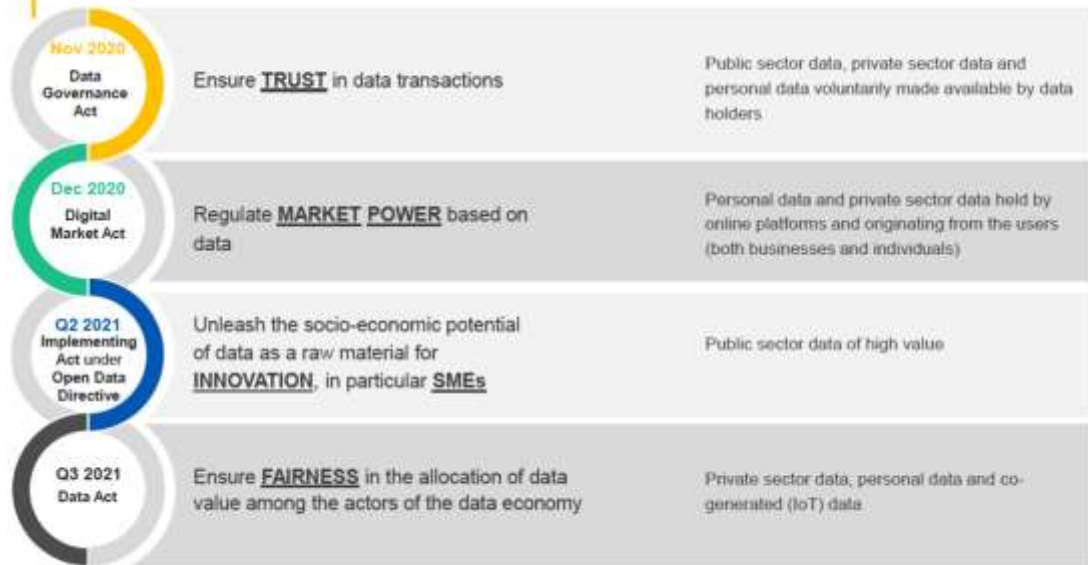
+10 B€ EU Investment
350 B€ Global Market Size

● EU Data Strategy (2/2)

4 legislation pieces

- ❑ **Data Governance Act (DGA):** Trust in Data Sharing
- ❑ **Digital Markets Act (DMA):** Regulate the global platforms
- ❑ **Digital Services Act (DSA):** unleash public data to create value
- ❑ **Data Act (DA):** Level-Playing field in the Data Market

European Strategy for Data: 4 key instruments




EUROPEAN DATA GOVERNANCE

A NEW APPROACH FOR THE DIGITAL DECADE

November 2020

Setting up a new European way of data governance will facilitate data sharing across sectors and Member States. It will create wealth for society, and provide control to citizens and trust to companies.



The economic value of data sharing

- ◆ Data access and reuse can generate social and economic benefits of 1% to 2.5% of GDP¹.
- ◆ The new measures could increase the annual economic value of data sharing by up to €7-11 billion by 2028².
- ◆ In addition, the new rules will have a wider impact on the EU economy and society as a whole.



€ 1.3 trillion

In increased productivity in manufacturing through Internet-of-Things data by 2027³



€ 120 billion

of savings per year in the EU health sector⁴

The EU will boost the development of trustworthy data-sharing systems:

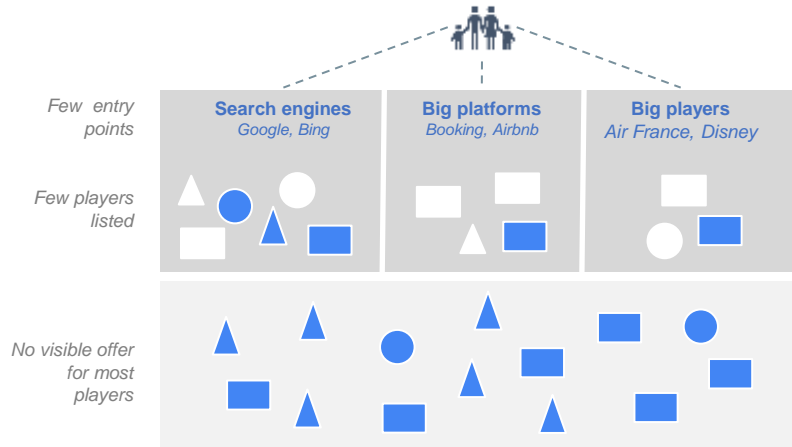
- ◆ Empower Europeans to decide what happens to their data, and what data they would like to share with whom.
- ◆ Facilitate data altruism to make it easier and safer for companies and individuals to voluntarily make their data available for the benefit of society.
- ◆ Enhance the reuse of public sector data that cannot be made available as open data.
- ◆ Create new EU rules on neutrality to allow novel data intermediaries to function as trustworthy organisers of data sharing.
- ◆ Set up a European Data Innovation Board to steer data governance and prioritise standards.

¹ OECD (2019), *Enhancing Access to and Sharing of Data: Recording Risks and Benefits for Data Re-use across Societies*, OECD Publishing, Paris.
² European Commission (2020), *Support Study to the Impact Assessment accompanying the proposal for a Regulation on European data governance*, SWARTT 2019/00234, prepared by Datafor.
³ McKinsey (2020), *Shaping the digital transformation in Europe*.

DATA SPACES: A PARADIGM SHIFT

CENTRALIZED TODAY

Data is controlled by very few gatekeepers deciding by themselves on data-sharing rules



- FEW ENTRY POINTS
- CENTRALIZED LISTING WITH NO VISIBILITY FOR MOST PLAYERS
- MONOPOLISTIC VALUE CAPTURE
- FRAGMENTED USER-EXPERIENCE
- LIMITED PROFILES-BASED

DECENTRALIZED TOMORROW

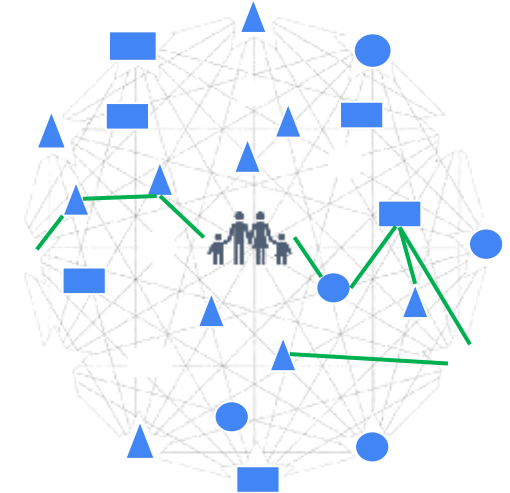
Data is shared P2P among digital services, with individuals' consent and fair value redistribution

DATA SPACE

Incumbents, SMEs, Public organizations, etc

« An ecosystem of organizations willing to share personal and non personal data, in a decentralized manner, through mutualized governance & infrastructure. »

- MULTIPLE (RE-)ENTRY POINTS
- DISTRIBUTED LISTING EFFORT WITH ENHANCED VISIBILITY FOR ALL
- FAIR VALUE REDISTRIBUTION
- END-TO-END SEAMLESS



Next steps

- **Workshop organized in NYC**

Collaboration with INDIA :

- **DEPA**
- **EkStep**
- **Use case discussion**

Working groups

- **Join us and let's discuss how to work together : let's find a powerful international data sharing project**

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