

# Open Action-Research

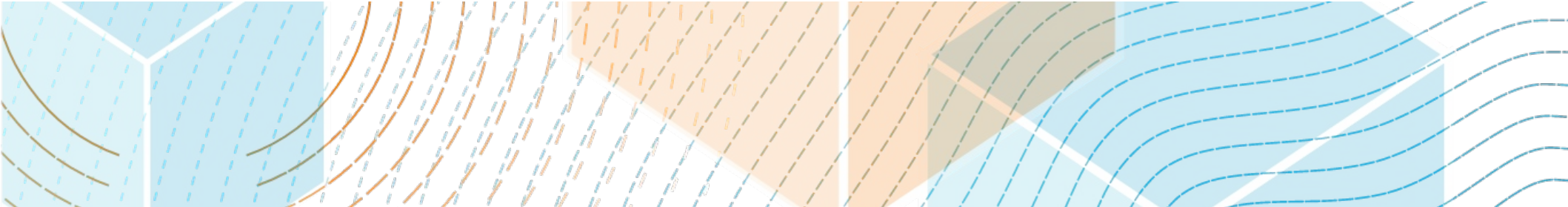
Inno<sup>3</sup>'s scientific posture

Last update : april 2023



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# 1. Action- research at inno<sup>3</sup>



# Context

Open models

Open Source

Ecosystems

Sustainability

Open data

Open science

Digital communs

## Digital transformation and open models

The increasing use of digital technologies in all areas of our society is leading more and more organizations and institutes to **adopt open models**.

In France, these transformations are **encouraged by a legal framework that recognizes openness as the basic principle** for a digital society. However, changing **every day habits and practices in order to fully adapt to open tools, methods and processes** can take time.

# Objectives

Understand

Prototype

Analyze

Develop

Support & Outreach

## Develop sustainable open model

Inno<sup>3</sup> engages in open action-research to provide in-depth understanding, analysis frameworks and tools to support the development of sustainable open models for both public and private institutions.

# Approach



Designing solutions for sustainable open communities

Managing changes and transitions towards open models

## Change management & solution design

We contribute to **designing technical, organizational, and legal solutions** to support the sustainability of open source, open data, open science and digital commons communities.

We provide support for **managing changes and transitions towards open models** in public, private and community organizations, from administrations to companies, from research institutions to non-profits.

# Commitments and values

- **Our approach to action-research is based on maintaining proximity with our fields of expertise and the practices** of various actors within it. This allows us to consolidate **our objectives through concrete actions**.
- We implement mixed (qualitative/quantitative) methods and **co-design/UX research methodologies** that facilitate communication between different stakeholders in order to **find collective solutions or common governance**.
- **We practice open science by** using Open Source tools and providing free access to the data and results we produce.
- **We engage in creating dialogue and reflexivity** by organizing and participating in events on the research topics we know best.

# Team and community

Research at inno<sup>3</sup> is supported by :

- a team of practitioner-researchers with an **interdisciplinary approach** (legal sciences, science and technology studies, design science, data science)
- as well as **groups of researchers** who bring complementary expertise to our studies.

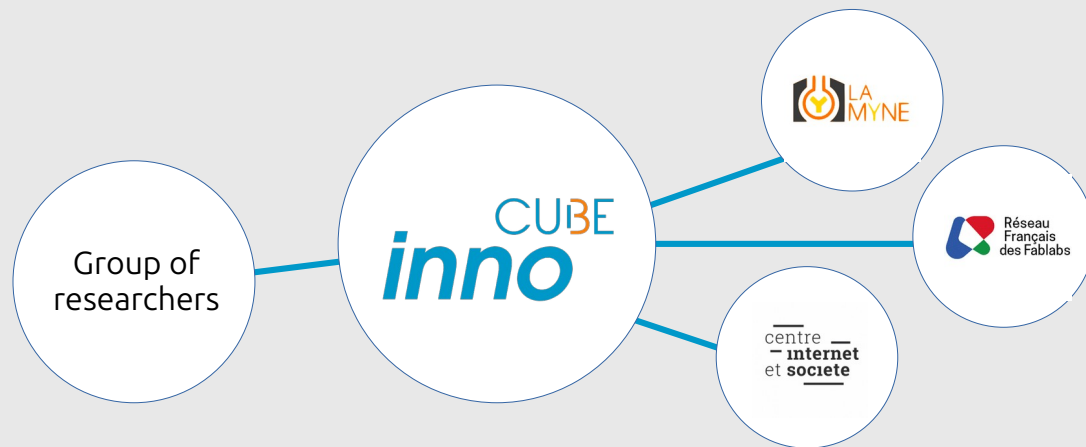
## Legend :

### Inno<sup>3</sup>'s research team :

Célya Gruson-Daniel, Vincent Bachelet, Romain Rouyer, Clémence Lascombes, Benjamin Jean

### Research organizations :

RFFLab, La Myne, le CIS

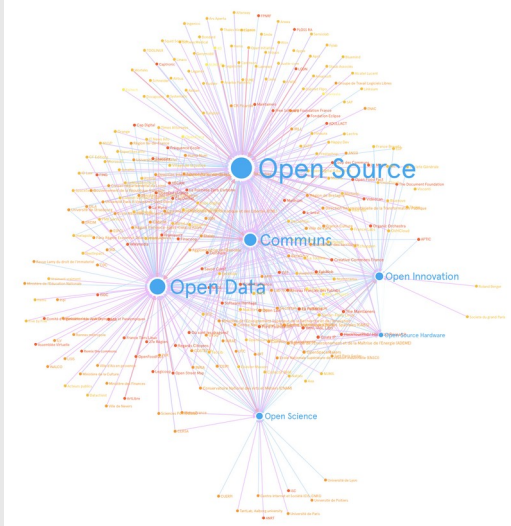




# Ecosystem

## Macro and micro scales

- We take **a systemic look** at the sectors where intersections between commons and open models occur.
- We accompany diverse types of organizations through a **reflexive approach**.



### Legend

*Graph of Inno<sup>3</sup>'s ecosystem at the time of the firm's 10th anniversary: interactive map to explore the roads of innovation travelled with Inno<sup>3</sup> made on GraphCommons*



Commission européenne



**SATT**  
PARIS-SACLAY  
Innovating with confidence



## 2. Methods, tools and expertise



# Mixed methods

- **Quantitative data** analysis and visualization (questionnaires)
- **Qualitative data** analysis and visualization (interviews, open questions, corpus analysis)
- **Big data** analysis and visualization (social networks, crawling)

# Co-Design / UX research

We rely on a variety of methodologies related to Design:

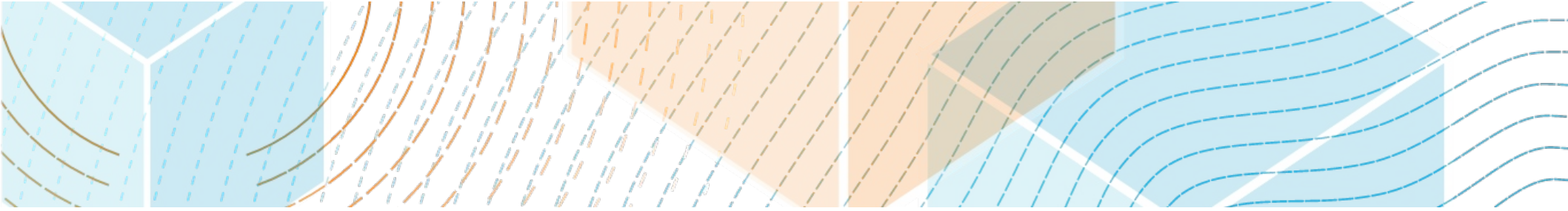
- We inventory the difficulties our clients encounter and reframe the problem thanks to an **ethnographic approach** (observations, interviews, mapping, personas, experience maps, etc.) in order to comprehend final users' needs in as much detail as possible.
- We **prepare and conduct workshops**, from the resolution of a problem (design thinking), to the emergence of prospective or critical scenarios (design fiction).
- We assist in creating models (wireframes) and prototypes (static or dynamic websites) as well as formatting **resources** (documentation, analytical summaries, data visualization, etc.) to **foster better uptake** of research results and outputs.

# Open science

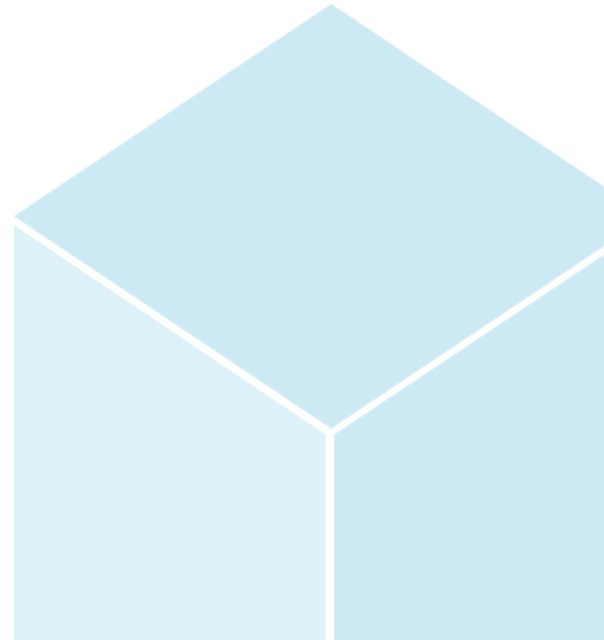
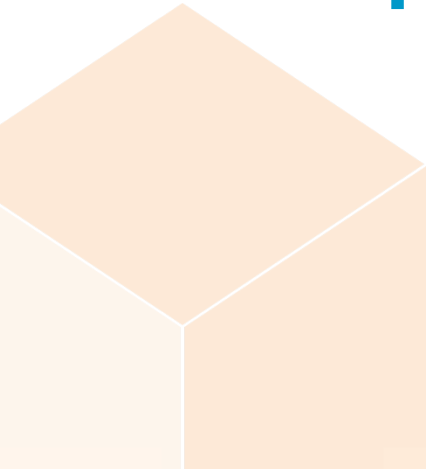
- We use free and open source tools and infrastructures
- We collecte and provide access to data ethically
- We publish action-research outputs and results in open access repositories and platforms
- We harbor inclusiveness through multilingualism and co-construction of knowledge
- We communicate action-research content to different audiences through targeted editorialization

# Reflexivity and ethics

- We facilitate dialogue between stakeholders to define and co-construct solutions together.
- We collect, document and disseminate good practices in the communities we are involved with.
- We communicate and educate about the sustainability of innovation ecosystems and their underpinning ethical principles.



# 3. Project portfolio



# Key areas of expertise and inquiry

- **Open Source Community**
  - How can we best ensure the sustainability of open models through legal and technical innovation?
- **Ecosystem transformation**
  - How can we help drive change within economic sectors that are transitionning to open models?
- **Solution design**
  - How can we make adapting to open models easier for organizations internally through the implementation of legal, technical and organizational solutions?



# Selected portfolio

## □ **Open Source Community**

- Free and Open Source Software for European Public Services (FOSSEPS)
- API Terms of Service: towards trustworthy and sustainable API ecosystems (APIToS)
- European Opensource & free software Law Event (EOLE)

## □ **Ecosystem transformation**

- Exploratory study on "research on research"
- Open Science Legal Workshops
- OpenSatCom Survey

## □ **Solution design**

- Exploring Commons through Design, workshop at Numérique en Commun[s] 2021
- *Et si j'accompagnais* (in English : What if I reached out)
- Open Source – like : Study and adaptation of collaborative processes (OSLike)

## Free and Open Source Software for European Public Services (FOSSEPS)

As part of our activities in 2021, we assisted the European Commission in carrying out the FOSSEPS (Free Open Source Services for European Public Services) study. Its objective was to inventory "critical" open source and free software requiring support.

Our first task was to question the concept of criticality itself. Indeed, the use of "criticality" by the European Commission appeared ambiguous, as it could be understood to designate "critical" software for a given ecosystem (essential component for the development of other solutions) or to refer to software in a "critical state", i.e. encountering difficulties of various kinds. Through interviews and questionnaires, we helped provide a working definition of sustainability in regards to software maintenance. This definition details different essential factors (technical maintenance, technical debt, indicators used, social and human factors in the development of a project, etc.) and takes into account key issues raised by "maintainers".



### Production(s)

- Project's official website ([url](#))
- Report ([pdf](#))

### Client(s) / Financer(s)



Commission européenne

### Key words :

sustainability

maintainers

open source

## API Terms of Service : towards trustworthy and sustainable API ecosystems (APIToS)

Winner of the 2020 Digital Infrastructure call for proposals supported by the Ford Foundation, the Alfred P. Sloan Foundation and the Mozilla Open Source Support Program, among others, the APIToS project aims to understand how API terms of service (ToS) can help build more balanced and trusted API ecosystems.

The first part of the study focused on better understanding the uses of API ToS through interviews with owners and users in different sectors (research, business, etc.), and was completed by a legal analysis of a corpus of APIs.

On this basis, the study's second phase was devoted to designing a trust framework through a contractual tool called FACT, "FAIR API Commitment for Trust". This tool contains a set of clauses that make it compatible with different contexts (business, research, open source, etc.). It also makes some additional commitments more visible such as openness (open source licenses, open data, copyleft, etc.). Prototyping was done through a legal design approach with the inclusion of feedback from different stakeholders.

## API Terms of Service : towards trustworthy and sustainable APIs ecosystem

"I have read the API Terms of Service" is the biggest lie of the programmable web. To increase trust, openness and safety in Digital Infrastructure, we evaluate the opportunity to adopt a new framework to make API ToS easily understandable, shareable to users.

Know more

Participate to the survey

### Production(s)

- Project's official website ([url](#))
- Report (forthcoming 2022)

### Client(s) / Financer(s)



### Key words :

API

legal design

trust

ecosystem

digital infrastructure

## European Opensource & free software Law Event (EOLE)

EOLE is an event that aims to **promote sharing and dissemination of legal knowledge related to open source software** as well as the development and promotion of best practices.

International annual conference cycle, the European Open Source & Free Software Law Event (EOLE) aims to promote the share and dissemination of legal knowledge related to free software, as well as the development and promotion of good practices. Initiative born in 2008 from practitioners' needs, EOLE has for purpose to develop a legal doctrine dedicated to the dissemination of neutral and qualitative information. This year, the event will be divided into 4 webinars and will take place from May 2023 to November 2023. The event will end with an in person event the 8th of December in Paris, France.

**2023 Main theme will be « Open Source Compliance through open & shared approaches »**

The 2023 edition of EOLE will alternate between a series of thematic workshops (available by video-conference and/or locally in Paris, Barcelona and Turin) mixing legal and technical approaches to Open Source compliance and a synthesis day at the end of 2023 in Paris. The aim, this year, will be to draw on examples of concrete projects and scientific work demonstrating that pen compliance can be – and indeed should be – accessible to all.



### Production(s)

- Project's official website (url) with archives of conference recordings and transcriptions.

### Client(s) / Financer(s)

### Key words :

law

open source

legal innovation

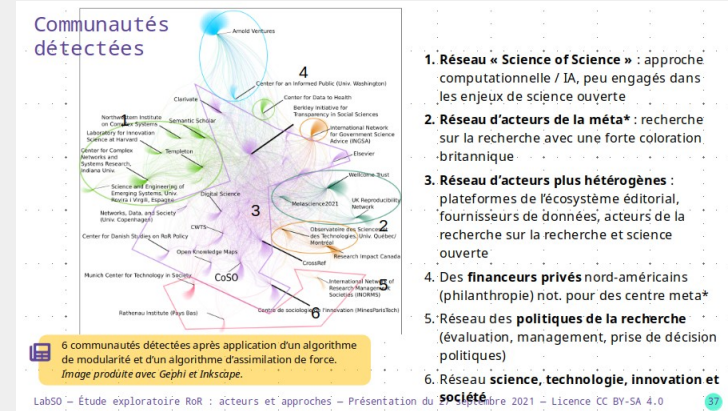
## Exploratory study on "research on research"

As part of the France's second National Plan for Open Science, the French Committee for Open Science requested to conduct **a study to pave the way for an Open Science Lab (LabSO) in order to better understand the international scope and context of research on research (RoR).**

The study's three main objectives were :

- **to identify the major currents in academic science studies in Europe and the Americas**, and indicate the main institutional actors affiliated to each current while differentiating their approaches and methods;
- **to put forward an open science workflow** for analyzing qualitative and quantitative data through mixed methods and digital mapping to facilitate result uptake and communication;
- **to make recommendations** that draw on existing initiatives to help the French Open Science Lab position itself in the current RoR landscape.

*Illustration: Map of the communities detected on the basis of a list of 78 URLs sourced from interviewed experts, which served as a starting point to create a corpus of 8,505 web pages harvested by specialized open source software (Hyphe). The Gephi software was then used to work on the visual aspect of the network, and to detect communities (modularity calculation and Force Atlas 2 spatialization algorithm).*



1. Réseau « Science of Science » : approche computationnelle / IA, peu engagés dans les enjeux de science ouverte
2. Réseau d'acteurs de la méta\* : recherche sur la recherche avec une forte coloration britannique
3. Réseau d'acteurs plus hétérogènes : plateformes de l'écosystème éditorial, fournisseurs de données, acteurs de la recherche sur la recherche et science ouverte
4. Des financeurs privés nord-américains (philanthropie) not. pour des centre meta\*
5. Réseau des politiques de la recherche (évaluation, management, prise de décision politiques)
6. Réseau science, technologie, innovation et

### Production(s)

- Published report in French ([pdf](#)) with a summary in English
- Project's website on PubPub ([url](#))

### Client(s) / Financer(s)



### Key words :

open science

meta  
research

public policies

## Open Science Legal Workshops

The Open Science Legal Workshops were organized as part of a larger project led by the French Committee for Open Science entitled "Successfully appropriating Open Science" (2020-2022). The objective was to bring together a heterogeneous group of research and law professionals to address legal issues stemming from Open Science practices in a format that could be easily accessible for non-specialists. Three thematic workshops were organized around data life cycles, personal data, and image use for research.

The collective format facilitated exchanges between people belonging to different professions who were not used to talking to one another. The challenge was to create a mediation framework that would create awareness around different experiences and practices in order to better understand the complexity and obstacles encountered in each person's situation.

Design work was also provided after the workshops to make the digital outputs, a summary and a methodological kit, available so that others could reproduce this mediation prototype.



### Production(s)

- Summary of the Open Science Legal Workshops – in French (pdf)
- Open Science Legal Workshop Kit - in French (pdf)
- Project on Gitlab (site)

### Client(s) / Financer(s)



### Key words :

law

open science

data

design

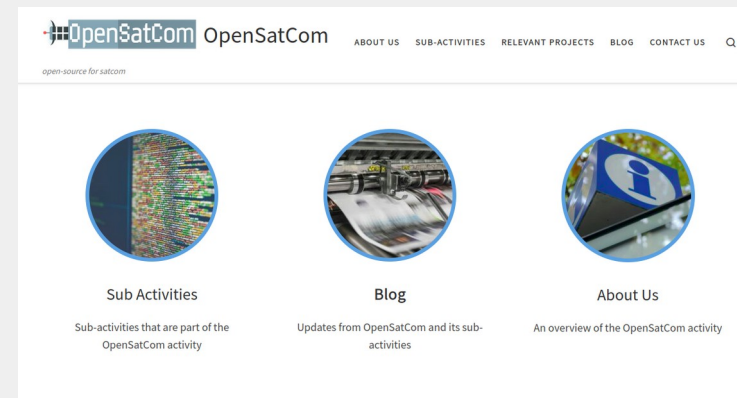
collaboration

## OpenSatCom Survey

The OpenSatCom study focused on the use of open source software in space communication. It was carried out in partnership with the Libre Space Foundation for the European Space Agency (ESA).

In addition to analyzing existing open source tools and associated practices in the field of space communication, our interest was to draw on lessons learned in other domains such as the automotive industry. By drawing up an overview which gave a historical perspective of open source appropriation in the automotive industry, we studied the elements that were transposable to the historically more recent sector of space telecommunications. This specifically led us to make recommendations regarding the "re-enclosure" mechanisms already encountered in the automotive industry and how to avoid them.

The project led to the publication of a website presenting the whole study, which also highlighted the report produced by Inno<sup>3</sup>, "Open Source Development Models in Satellite Communications".



### Production(s)

- Project's official website (url)

### Client(s) / Financer(s)



### Key words :

space

open source

communications

## Exploring Commons through Design, workshop at Numérique en Commun[s] 2021

During the 2021 edition of Numérique en commun[s] (NEC), inno<sup>3</sup> designed and conducted three workshops in the Exploration "Design and the Commons": public initiatives for digital commons.

Several questions were asked:

- How can we develop public digital services differently by putting communities, mediation structures and final beneficiaries at the heart of their design?
- Which procedures and which financing mechanisms favor the deployment of shared digital services for general public interest?
- How can we develop knowledge of the commons among administration professionals, to enable them to choose, invest in or manage them?

For this workshop, inno<sup>3</sup> used the "double diamond" design process inspired by the British Design Council (Discover, Define, Develop, Deliver). Two phases of idea divergence and convergence took place: the first one aimed at creating an overview of public commons initiatives; the second one focused on creating an action and coordination plan with the public actors involved.



### Production(s)

- Summary of the workshop (blog)
- Workshop material designed by inno<sup>3</sup> (pdf)

### Client(s) / Financer(s)



### Key words :

digital commons

territory

design

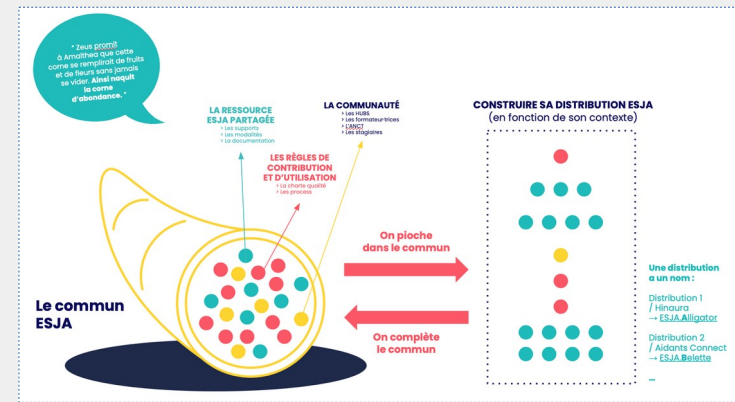
outreach



## Et si j'accompagnais (*in English : What if I reached out*)

The "Et si j'accompagnais" (What if I reached out) workshops were organized in 2021 to help various social action professionals (community groups, non-profits) develop a digital commons through the definition and deployment of a brand policy and the management of contributions.

This set of workshops acted as case studies that allowed inno<sup>3</sup> to prototype different legal, economic and governance solutions for commons. The objective is ultimately to draw larger lessons from each prototyping opportunity in order to extend the field of application for each solution.



### Production(s)

- Project's official website (web)

### Client(s) / Financer(s)

## FUTUR COMPOSÉ

### Key words :

Communs numériques

droit

modèle

accompagnement

design

## Open Source – like : Study and adaptation of collaborative processes (OSLike)

The Open Source Like (OSLike) project led by the French National Center for Space Studies (CNES) was focused on securing the collaborative innovation approaches implemented by its longstanding partner, the Open Space Makers Federation.

The OSLike project aimed at better understanding the regulations limiting open source freedoms in the context of export control to find a way of articulating different legal and organizational tools adapted to several types of projects and levels of technological maturity.

Several collaboration frameworks were proposed for a new management of intellectual property through recommendations in terms of governance and use of licenses as well as the drafting of a first proposal of licenses.



### Production(s)

- Project's official website (web)

### Client(s) / Financer(s)



### Key words :

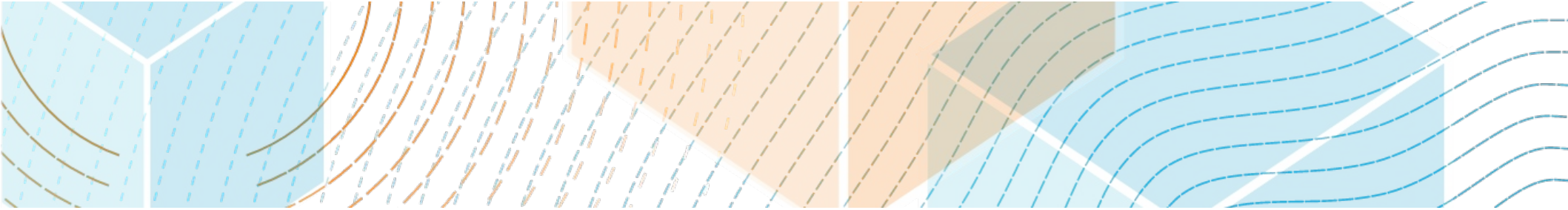
spatial

open source

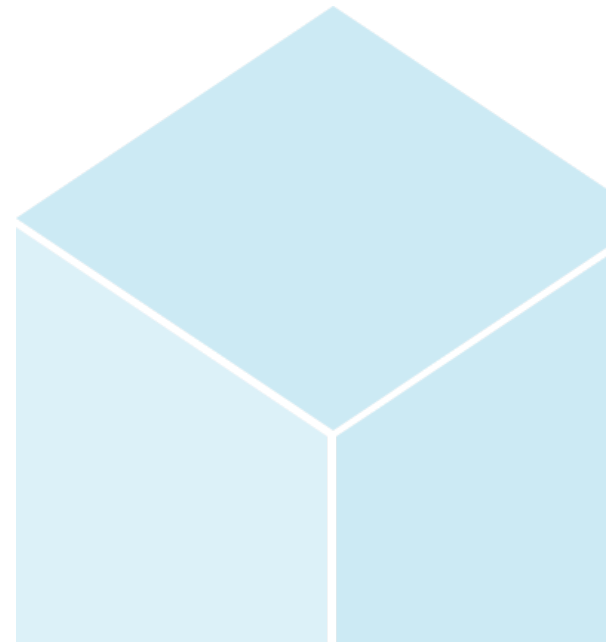
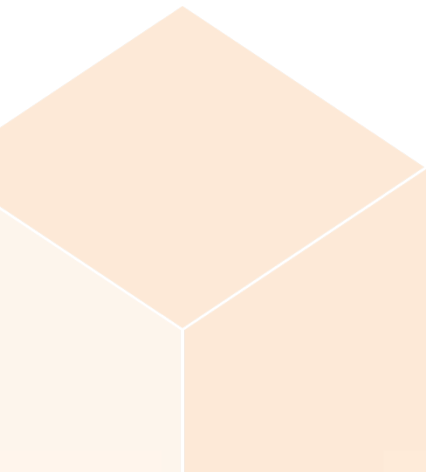
gouvernanc  
e

collaboration

licences



# 4. Our Team



# Team



# Team : a taste for imparting knowledge

## Knowledge transfer within higher and continuing education

Our team teaches in several types of programs (Master, DU, engineering schools, doctoral schools) to create awareness about open models in multiple areas (law, sociology, design, etc.). Some examples of programs in which we teach:

- CNAM : Digital and public innovation
- École des ponts : Master in Public policy and action for sustainable development
- Université de Montpellier : DU Scientific Data Management and Master in Law (2nd year)
- Université de Grenoble : Master in Law (2nd year)
- Learning Planet Institute : Master in Digital Science and FIRE doctoral school
- Centrale Supélec Exed : Master in Information Systems Architecture
- IMT Atlantique : Introduction to legal aspects of Open Source, "Economic, organizational and legal environment for developers" unit

## Knowledge dissemination through freely available content

- Zenodo <https://zenodo.org/communities/inno3/>
- Zotero [https://www.zotero.org/groups/4434045/inno\\_public/collections/XBEZIGUC](https://www.zotero.org/groups/4434045/inno_public/collections/XBEZIGUC)



# Benjamin JEAN

## CEO and expert in open model

With over fifteen years of experience, Benjamin Jean, the Founder and President of inno<sup>3</sup>, has been instrumental in aiding public and private entities to foster collaboration and openness. Benjamin's expertise lies in intellectual property law, and he is highly regarded as an authority in open models. His passion for technical facets associated with digital practices and design methods that facilitate transformation processes is unparalleled.

Benjamin is an esteemed researcher and educator at several academic institutions, and frequently serves as a consultant for the reputable law firm Vercken & Gaullier. He is also a regular participant in various working groups, seminars, and conferences across France and Europe, focusing on the aforementioned areas.



## Current position

CEO et founder

- Inno<sup>3</sup> SAS. 2011 – present.

Consultant

- Law firm Vercken & Gaullier. 2008 – present.

## Training

- University Montpellier 1 – DEA in Intellectual Property Law
- University Grenoble 2 Pierre Mendès France – Master's degree in law, majoring in fundamental private law (specialising in business law - industrial property), course in Behaviour Analysis and Interaction Engineering.

## Skills

- Digital transformation of organisations and ecosystems through openness strategies (Open Source, open data, Commons).
- Valuation of intangible assets and evaluation of valuation strategies.
- Intellectual property law, control of legal risks and specificities of Free and Open Source software.
- Drafting of contracts (confidentiality agreements, evaluation contracts, service contracts, licence contracts, consortium agreements, European contracts, distribution contracts).
- Code audit, implementation of governance and Open Source intellectual property strategy.

## Specialisation

**Offer:** Change management support (transformation), Strategy consulting (enhancement), Tailor-made training, Collaborative dynamics (collaboration) (commons approaches)

### Teaching:

- Sciences Po Paris. 2011 – present. Intellectual Property
- EISEIRB/IPB. 2013 – present. Software Right

## Major contributions

**Projets:** Digital commons cartography for Numériques en Commun[s] 2021, Hermine software, APIToS, Open ESR, Digital Commons Toolkit, Open data flowchart, State Open Source Software Contribution Policy.

### Publications:

### Blogpost:



# Célya GRUSON-DANIEL

## Consultant and practitioner-researcher

Célya is an expert in supporting private and public institutions in their research and open innovation initiatives by advocating for the adoption of open science and data science practices and fostering co-creation of knowledge between science and society.

With a PhD in Social Sciences, Célya is a frequent lecturer in various research and higher education institutions. She employs a pragmatic and participatory approach to impart digital methodologies, including data collection, analysis, and management.



## Current position

### Consultant

- Inno<sup>3</sup> SAS. September 2019 - present.

### Associate researcher

- Laboratoire COSTECH (UTC). 2018- present.
- LabCMO (UQAM-Québec). 2015- present.

## Training

- PhD in Social Sciences (Paris Descartes/CRI)
- Certificate of specialisation in Science, Democracy and Social Innovation (CNAM)
- Master's degree Cognitive and behavioural neuroscience (University Pierre et Marie Curie)
- Diploma from the École Normale Supérieure (ENS)

## Skills

- Qualitative research (survey, comprehensive interviews, usage studies, analysis by anchored theorization) equipped with digital methods (mixed methods) in an "open science" approach.
- Advice and support for the implementation of "open science" practices within institutions (DMP, FAIR principles, legal compliance, etc.).
- Facilitation of participatory workshops and co-design.
- Project and event management (face-to-face and digital).
- Implementation of research programmes and multidisciplinary/professional team building.
- Writing scientific articles, white papers and blog posts.
- Training and development of critical thinking on "digital".

## Specialisation

**Offer:** Valorisation strategy, Organisational transformation, Open science study, Co-design workshop, Open Action research, Customised training

### Teaching:

- SciencePo Paris, CRI, UPEC, URFIST. 2017 – present. Teacher and lecturer for Master and Doctorate courses

## Major contributions

**Projets:** Adapting Open Science, Laboratoire Science Ouverte, Kit AJSO, Working group Open Science & Society

**Publications:** Mémoire Covid-19,

**Blogpost:** Mémoire Covid-19,



# Vincent BACHELET

## CIFRE PhD student and Consultant

Vincent specializes in intellectual property and digital law, focusing on matters related to free software, open data, and digital commons organization. In addition to his work at Inno<sup>3</sup>, he is currently pursuing a thesis on the legal tools for valuing digital commons in private law, directed by Professor Mélanie Clément-Fontaine through a CIFRE agreement.



## Current position

### Consultant

- Inno<sup>3</sup> SAS. 2019 - present.

### PhD student

- University UVSQ – Paris-Saclay. 2020-present. Laboratory DANTE (« Les outils contractuels de la valorisation des communs numériques »)

## Training

- University UVSQ – Paris-Saclay. Master's degree Intellectual Property and Digital Business Law

## Skills

- Intellectual property and digital law applied to open models.
- Mastery of legal issues (open source, open data).
- Organisation of open ecosystems and digital commons.
- Editorial work and writing of summaries, posts and articles for acculturation purposes.
- Communication in conferences (academic, specialized) on the issues of the commons and their legal structuring.

## Specialisation

**Offer:** Tailor-made training, Compliance auditing (auditing), Strategy consulting (valorisation), Collaborative dynamics (collaboration) (joint approaches).

**Teaching:**

## Major contributions

**Projets:** Digital commons cartography for Numériques en Commun[s] 2021, Open data flowchart, Open ESR, Legal regime for the creation of digital commons within the administration, Tutorial to the digital commons, ANCT, LaboSoNUM, Public Procurement and Digital Commons Clausier, Maintainers' Contract.

**Publications:**

**Blogpost:**





# Romain Rouyer

## Designer

Designer (UX-IHM), teacher and Creative Technologist, Romain ensures the proper dissemination of information and knowledge using Design methodologies and practices.



## Current position

### Designer

- Inno<sup>3</sup> SAS. Aout 2021 - present.

### President and founder

- CogLab, NeuroTechX Paris. 2013 - present.

## Training

- Master's degree Digital Science (CRI, Université de Paris, 2020)
- Master's degree in Cognitive Sciences (IDMC, Université de Lorraine, 2013)
- DUT in computer science (IUT Nancy-Charlemagne, 2010)

## Skills

- Project management: implementation of appropriate methodologies and tools to manage a team, facilitate meetings, facilitate interactions with stakeholders, produce and disseminate documentation.
- Design Methods: experimentation with a range of design methodologies [Strategic, UX, Fiction, Ethical, Thinking, Attention, Inclusive, Systemic], with a scientific and technical eye.
- UX Architect: expertise in information architecture, rapid prototyping (Sketch, Axure, Figma tools) and user-centered research (heuristic evaluations).

## Specialisation

### Offer:

### Teaching:

- Centre de Recherche Interdisciplinaire (CRI). 2020 - present. Teacher and alumni of track Digital Science

## Major contributions

**Projets:** Adapting Open Science, Digital commons cartography for Numériques en Commun[s] 2021, Hermine Software, Framework for the governance of the digital commons, Open Science Legal Workshops

### Publications:

### Blogpost:



# Clémence LASCOMBES

## Open action-research officer

Clémence has a master's degree in Scientific and Technical Information and Mediation with a particular focus on science and open data issues.



## Current position

Open action-research officer

- Inno<sup>3</sup> SAS. september 2022 - present.

## Training

- Master's degree in Scientific and Technical Information and Mediation (University Claude Bernard Lyon 1, 2020-2022)
- Bachelor's degree in cellular and physiological biology, specialisation in neurosciences, bilingual course (Université de Lille, 2017-2020)

## Skills

- Consideration of open science and open data criteria when conducting research.
- Valorisation of research data through editorialization, dataviz or graphic design.
- Use of DTP (Desktop Publishing) software to enable the popularisation of scientific information via drawing or more generally via graphic facilitation.

## Specialisation

**Offer:** Valorisation strategy, Open science study, Action research

## Major contributions

**Projets:** Design of publishing contracts, Organisation d'EOLE, MOOC Open Data, Design & Communs,

**Publications:**

**Blogpost:**

# Publications (1/2)

- Briatte, François, et Célya Gruson-Daniel. 2017. « **L'ouverture Des Données de Santé: Une Entrée Par Les Acteurs** ». In . <https://halshs.archives-ouvertes.fr/halshs-01531792>.
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