EUROPEAN BIG DATA VALUE FORUM

EUHubs4Data

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EUROPEAN FEDERATION OF DATA DRIVEN INNOVATION HUBS

From Data to Ethics: Towards integrated ethics procedures for data innovation project proposals

Till Riedel

26/10, 12:15-13:45, Room 4C

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IN COLLABORATION WITH

ITI INVESTIGATE TO INNOVATE

European Commission

INCLIVA | VLC Biomedical Research Institute

POLITÉCNICA

UNIVERSITAT POLITÈCNICA DE VALÈNCIA

UNDER THE AUSPICES OF

EU23 SPANISH PRESIDENCY COUNCIL OF THE EUROPEAN UNION

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IANAL*

TINLA

https://en.wikipedia.org/wiki/IANAL

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Credits

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- EUHubs4Data Ethics Monitoring Group: ethics@euhubs4data.eu
  - Christof Wolf-Brenner, KNOW-Center
  - Lucas Sanjuan Viñas, ITI
  - Johanna Walker, KCL
  - Richard Stevens, IDC
  - Till Riedel, KIT
- EUHubs4Data External Ethics Advisor: Ricard Martínez Martínez

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Your expectations (one word)

48 responses

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Data Justice Plan (hope I learned)

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- You contribute feedback, because you want to receive input from others
- We will use the feedback for a white paper and to improve our public toolkit
- We will publish on github during next month, white paper January

- feel responsible for getting that done
- If we do not manage to make public: you can request this information to continue the work
- Anyone should profit that is responsible for setting up experimentation projects

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Motivation

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Do not do data innovation with SMEs!!*

*Giving funding to SMEs, that are not prepared to understand adverse effects of data innovation can cause potential harm to society, environment, …

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Motivation

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Leaving the playing field to Big Tech endangers European Value → your typical ethical conflict ☺

Taking part in EU funded project is an ethical conflict in itself. We should be aware. We should speak about it.

Ethics is all about accountability, balancing, transparency and risk appetite.

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My Personal Motivation

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- I consider the EUHubs4Data ethics framework as perfect failure
- Because it is a failure, we can speak about it can actually lead to success if we make sure that other do not repeat

➔ Exploitation of Ethics Monitoring is speaking about it transparently

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Agenda (Part 1)
goal each 10 min incl. discussion

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1. **Main Lessons learned from the EU-Hubs4Data project: reviewing 42 experiments from SMEs**
2. **Setting up your Project: Preparing a proposal “Ethics First”**
3. **Legal vs. Ethics: set up your own rules, before it becomes a legal problem**
4. **AI Ethics: Why they still matter, but you bother with compliance**

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Agenda (Part 2: Tools)

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5. **Tool Data Management Plans: Evolving ethics from data**
6. **Tools: Ethical self assessment and risk management: managing documentation and enabling transparency**
7. **Sharing our tools: establishing a community that survives projects**

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Main Lessons learned from the EU-Hubs4Data project:

reviewing 42 experiments from SMEs

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Home > Open Calls > Experiments > IoT-SESOD

IOT-SESOD

VARE
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ITY

AGRI-IMPACT

Agri-Impact aims at assessing agriculture environmental impact through data-correlation and social network

COMPANY	COUNTRY
Valeur	France

sed-loop sys
amely gener
their always

mappings

DRONCAS

Ensuring safety along the long-range drone flight by developing a software collision avoidance system. This system generates a complete digital surface model of the flight area using different data sources. Then, the simulation of the flight to be ...

COMPAN

ASSESLEEP

Sleep is important for our health but disorders are challenging to diagnose. We combine new sensor technology with AI-powered sleep analysis. By creating large multi-sensor datasets we create the foundation for future data-driven sleep health ...

COMPANY	COUNTRY
Bit&Brain Technologies SL	Spain

Source/Copyright: ITI [1]

Ethics monitoring supports experiments

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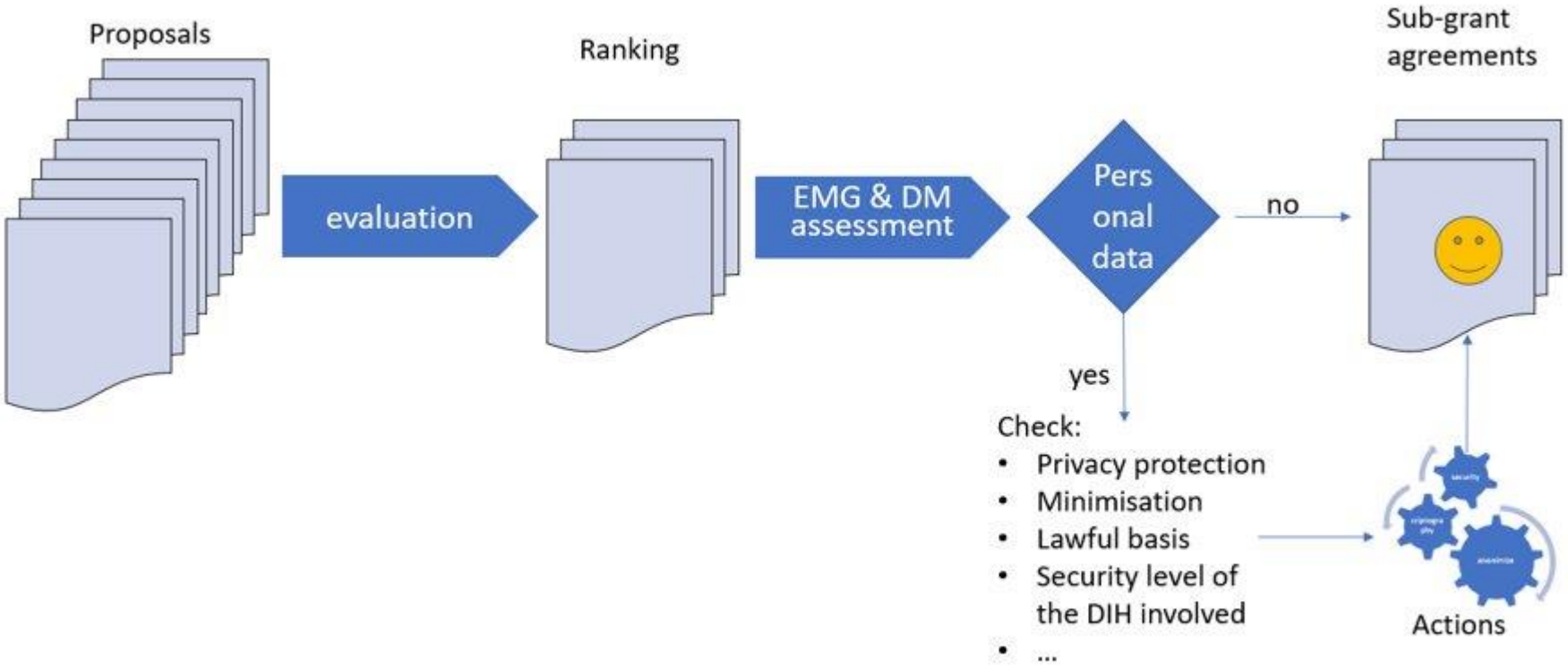

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BLOG

To anybody interested in practical ethics in data innovation, we provide a **preview version of the First EUHubs4Data Ethics Report for download**.
The final version will be published as a public project deliverable on the **CORDIS website** once reviewed and accepted by the European Commission.
You may also want to check other ethics resources offered by the project due to the findings, like the **FAQs on our ethics landing page** and the **Ethics Self-Assessment Excel Form for Data Experiments** that will also be released as part of an upcoming ethics toolkit together with hands-on-training. Stay tuned!

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What are the most common ethics issues in data innnovation projects?

32 responses

Privacy

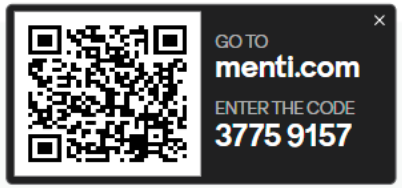
Data management legal and ethics obligation

Framing

Anonimization requirementsBiases

Do I really need to think if that?

Framing



Jobs made redundant

ConfidentialityPrivacyTrustResponsibilityAccountability

Whether I should care for that?

Prejudice

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What is the best method to address them?

12 responses

Discussion	Training in risk management	Get some know-how?Use some consultancy srv?
I have no idea	Hiring specialists (or training them)	Education
Ignore ethics	Careful staff time allocation	Hiring specialists
Training	experts	Build upon previous projects

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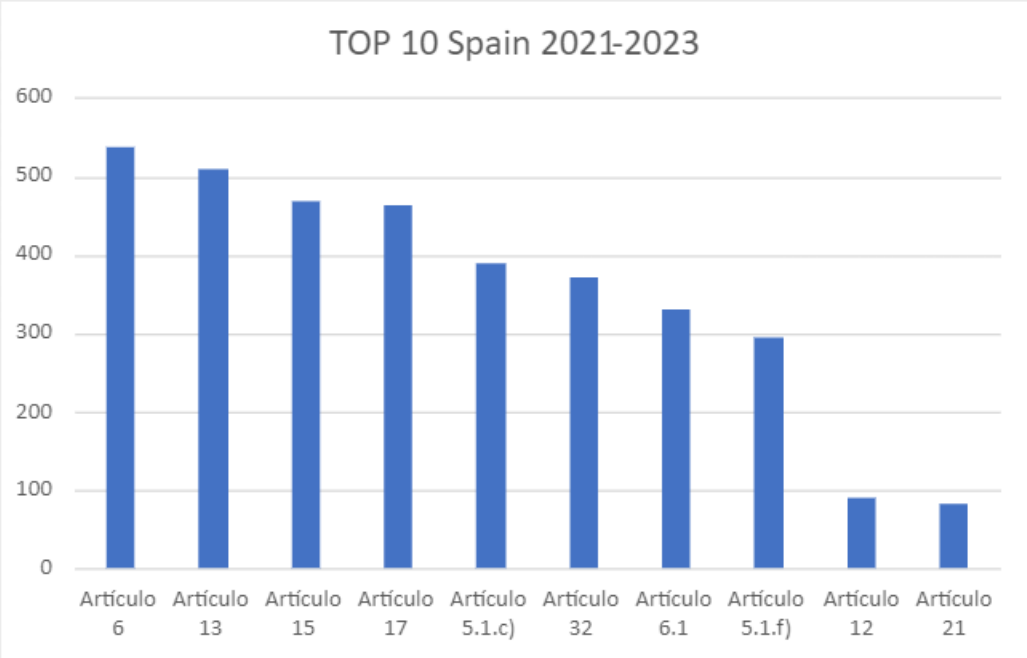
Top 10 GDPR sanctions in Spain



- Article 6 Lawfulness of processing
- Article 13 Information to be provided where personal data are collected from the data subject
- Article 15 Right of access by the data subject
- Article 17 Right to erasure ('right to be forgotten
- Article 5 Principles relating to processing of personal data
- Article 32 Security of processing
- Article 12 Transparent information, communication and modalities for the exercise of the rights of the data subject
- Article 21 Right to object

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Finding: Little risk-based thinking at SMEs (with exceptions)

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- Potential negative impacts are not part of a business model
  - The typical SME will have no problem promising highest impacts on society when applying for funding
- Data ethics need to start with a risk-based approach
  - Such thinking is very difficult to retro-fit
- SMEs often scared of regulatory consequences
  - Rather check “no” one time to often and ask for forgiveness…

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Setting up your Project

Preparing a proposal “Ethics First”

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Ethics and data protection

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/guidance/ethics-and-data-protection_he_en.pdf

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A typical ethics task in a typical EU Proposal

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- The ethics monitoring group “will review activities of the federation and, more specifically, the cross-border experiments, and that will evaluate them with respect to ethical topics that are deemed to be potentially controversial. The EMG notifies the service provider HUB (i.e., the DIH involved in the experiment) about any findings as early as possible. No decision will be made, so the very broad definition of “potentially controversial” is not an inhibition, but helpful to reduce personal biases. Project will focus on discrimination, fairness in a more general sense (like automated decision making for issues potentially affecting substantially lives), and stakeholder involvement of non-identifying personal data, where applicable. Recommendations could include request of consent by stakeholders, dissemination of information about complaint systems, or technical solutions to remove discriminating biases. Statistics both on the occurrences of and absence of issues will be collected, in order to write a report about findings, potential remedies, and the more specific experiences with actual issues, and make it available as a contribution to the public debate on data analytics usage.”

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Surprise: WP X+1 Ethics requirements

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If the ethics review leads to requirements to be implemented *before* grant signature, you will need to take immediate action to comply (and may also have to adapt the description of the action (DoA Part B) to reflect this). If the review leads to additional requirements to be fulfilled *during* the project, they are automatically added as ethics deliverables into the system and DoA Part A and will be placed in an automatically generated work package called ethics requirements. If the review shows that there are serious ethics issues that cannot be solved, funding may have to be refused.

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LESSON: ALLOCATE PROJECT RESSOURCES AND LINK THEM WELL!

Why you will have ethics requirements

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- In cascade funding settings, the actual data and use case is unknown
- The coordinator is passing on EU money and rules apply
- AI and data innovation are likely touching human rights apects

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Experience in Horizon Europe?

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The EU services managing grants and tenders frequently make use of different types of independent experts to assist them with the implementation, evaluation and monitoring of their funding programmes. These include:

- Evaluators
- Observers
- Ethics evaluators
- Monitors
- Ethics monitors
- business coaches

As an expert you perform this work as an independent individual and do NOT represent a company or organisation.

The EU services recruit experts from the **Portal Expert Database**, where you can register at any time. Registration is open to experts of any nationality including those outside of the EU and Associated Countries.

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/guidance/om_en.pdf

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Who should you engage (one word)

1 response

experts

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Who?

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- It is not always about money:
  - is the DPO responsible capable and has capacities?
  - Is there ethics review board that feels responsible?
  - Can you commit experienced people in the team that are willing to forget what the projects needs to do and think beyond?
  - Can you bring in different perspectives?

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LESSON: TALK TO PEOPLE IN YOUR ORG, FIND EXISTING STRUCTURES

Ethics monitoring supports experiments

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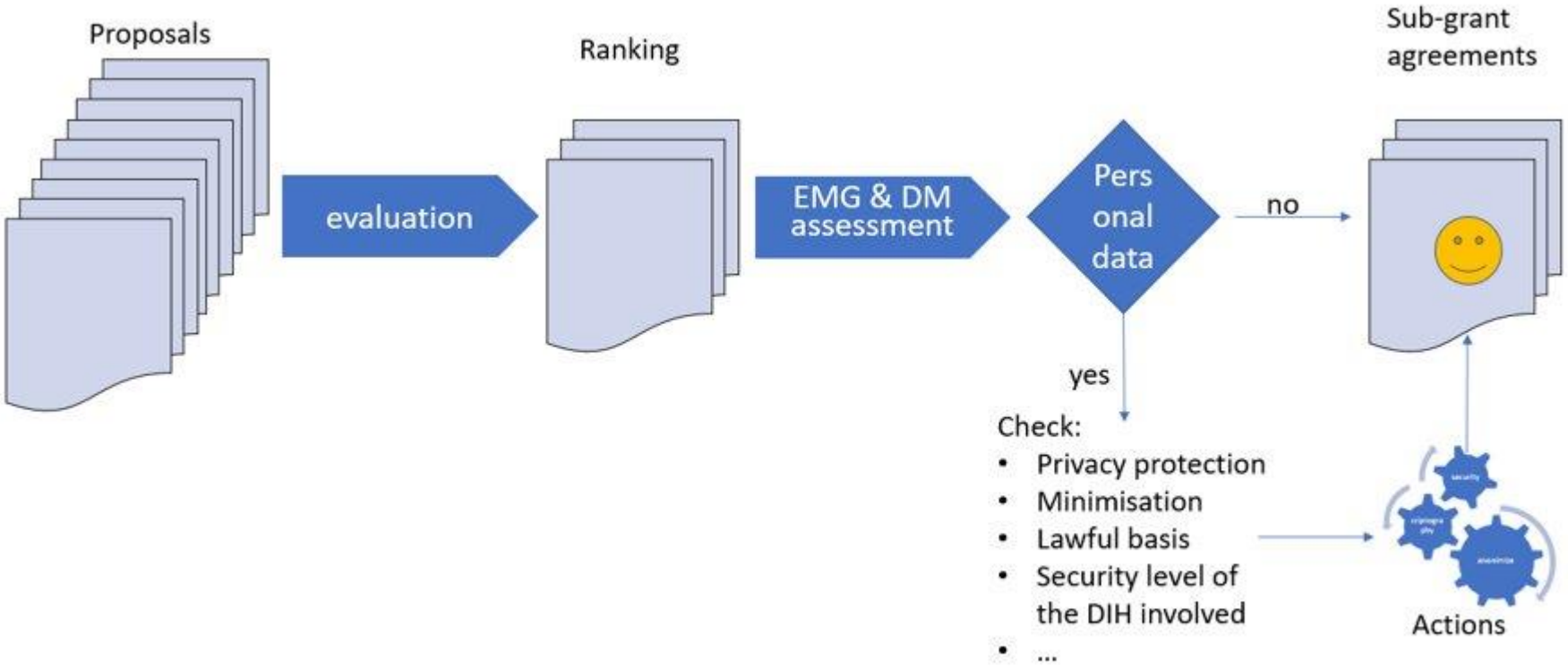

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The big problem of independence

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- Think about the conflict of interest
  - Blocking payout can be serious
  - Independent external advisor partially helps
- External reviewers do not share your values!
  - Include an internal review in selection

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Legal vs. Ethics

set up your own rules, before it becomes a legal problem

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Law vs Ethics :

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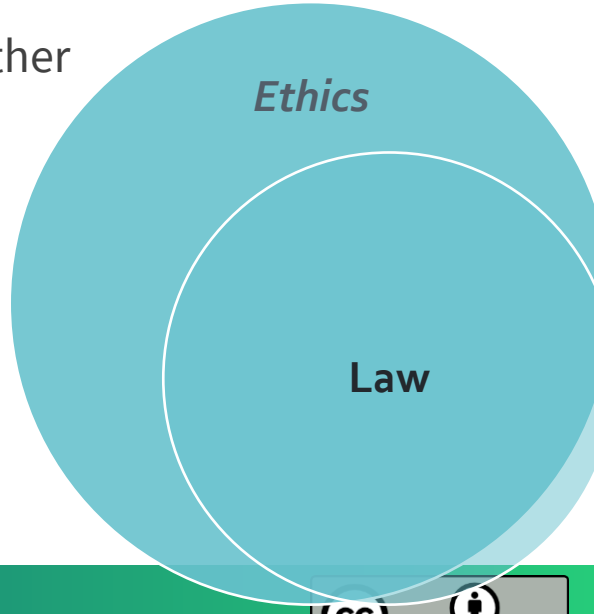
- Greek ethos: character
- Latin mores: customs

- Legal context: how we choose to interact with one another
- Philosophy: the good for the individual and for society: duties for oneself and one another

- Lying/Betraying a friend: “unethical” but “lawful”
- Whistleblowing: “ethical” but “unlawful”



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The theory

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- You need to assume that everybody acts legally
- Ethics should be about reaching an ideal goal
- Beyond that you need:
  - Discuss
  - Agree on
  - Act on

  your ethical standards based on your values

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LESSON: CASCADE FUNDING IS AT THE CORE OF THE PROBLEM

Why not cascade funding

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- Delegation of responsibilities from EC to Coordinator
- Spending others people's money with other peoples rules
- Generates a situation that is far away from the real world

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The practice

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- One of your major values will be just compliance
  - Fulfilling your contract with the EC
  - Feeling safe about what you are doing
  - Getting things done and move on
- Most of what you are doing is going to be incompliant
  - Your focus will be due diligence
  - You are happy for every single person that understands a bit of the bigger picture

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Strategy 1: Checking compliance

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- Ethics monitoring:
  1. Consistency of documentation
  2. Review self-declared issue and look for appropriate
  3. Look for additional challenges by anologies/experience

  Problem: You will stop at 1!

  If you get to 2 you will be frustrated, because it will become trial and error

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The Elephant in the room

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1. You blame people doing illegal things ??
   - Worse if things are already running!!
   - Being GDPR compliant is not something to excel on !?
2. SMEs will ask you what they need to write to finally get the money
   - Monitoring == Testing and not Verification (tip of iceberg ?)
   - Already giving legal advice: demand evidence but better not look at it too closely

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The good, the bad, the ugly: Compliance monitoring

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- Legal compliance is a motivation to act ethically
- SMEs will try to just fix things
- Worst case you end up with even more liability

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> **...the consortium has a high potential to implement ethics education as a service model as a part of the federation catalogue with the aim to educate SMEs and other organizations in data protection and data privacy topics.**

Review recommendation

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Strategy 2: Ethics Training Services

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- Tell people, how you would do things
- Teach SMEs about ethical risk management
- Sustainable offer beyond a project !?!?

- Problem:

1. It is only a service if there is a costumer: why should SMEs spend money on ethics
2. You end in discussing compliance again + you need to be concrete → legal advice?

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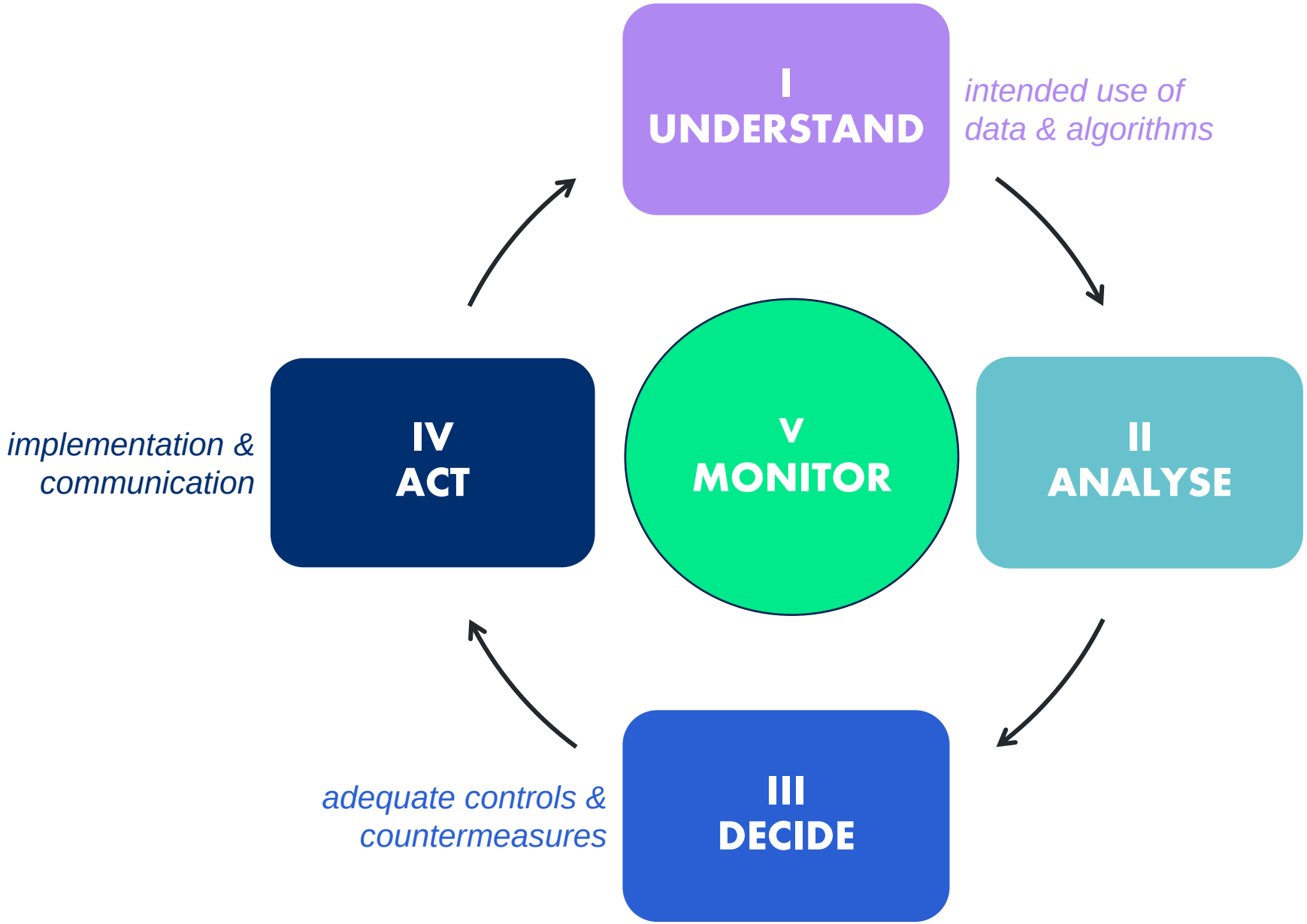

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Best means to boosts ethics for SMEs

also beyond projects

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Compliance never ends

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Internal Standards

European

National

Regional

Contracts (including funding agreements)

Technology specific

Sector specific

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LESSON: GET AHEAD AGAIN

Get ahead again

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- Define your own values and your own rules!
- Make the rules simple, transparent and teach people your rules
- By raising the bar you will create a market for ethics services and training

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Learn from the EC!

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While individual EU-funded research projects processing personal data must comply with EU and national data protection laws, the objective of this guidance note is to ensure that, in addition to respecting legal obligations, all projects are guided by ethical considerations and the values and principles on which the EU is founded.

Particular attention should be paid to research involving special categories of data (formerly known as 'sensitive data'), profiling, automated decision-making, data-mining techniques, big-data analytics and artificial intelligence, as such processing operations may pose higher risks to the rights and freedoms of data subjects (see Table 1). The increasing impact of these and other new technologies on our everyday lives and activity is reflected in the letter and spirit of the EU's 2016 General Data Protection Regulation GDPR).

While the EU's ethics review process is primarily concerned with ethics issues, your project must demonstrate compliance with the GDPR. However, the fact that your research is legally permissible does not necessarily mean that it will be deemed *ethical*.

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What I believe you need to do

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- Have a few month before the rest of the project starts with focus on:
  - Values
  - Common Rules

➔ Needs to be done before you let others into your project

- If that does not work:
  - Make sure you have a break!!
  - Make sure that also your ethics can scale

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Multi-layered approach

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1. Get your due diligence covered with evidence
2. Early on prepare TOS and contracts that cover your ass
3. Then build own ethics on top

➔Make at least 1&2 mandatory or 3 will fall apart

While this is legal stuff. It is not legally necessary!

Ethics perspective: clear responsibilities and

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LESSON: FORCE PEOPLE AT LEAST TO REFLECT

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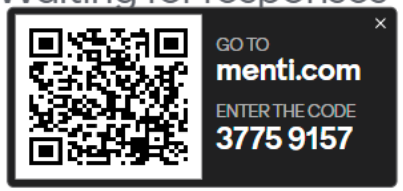
How to engage your consortium?

Waiting for responses ...



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AI Ethics

set up your own rules, before it becomes a legal problem

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Identifying serious and complex ethics issues in EU-funded research

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/guidance/guidelines-on-serious-and-complex-cases_he_en.pdf

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1. Respect for human autonomy
2. Prevention of harm
3. Fairness
4. Explicability

➔ How to make this actionable?

AI ethics/ trustworthy AI

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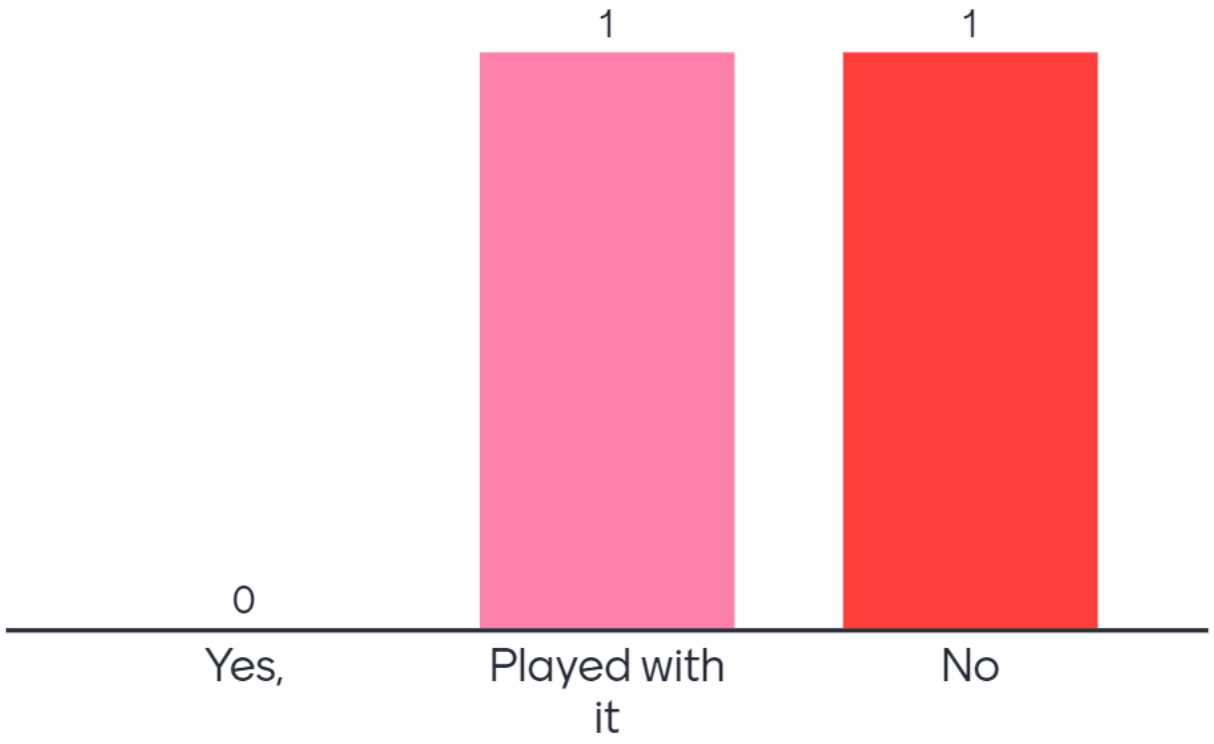
Have you used the ALTAI assessment list in your projects



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What were the benefits

concerning (potential) relevant impact

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Why not ALTAI

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- The Altai assessment list confuses “Hazards” and “Risks”
- Too much “education” needed to fill out
- Results are not actionable: maintaining is not really good

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“Risk Based Approach” – AI ACT

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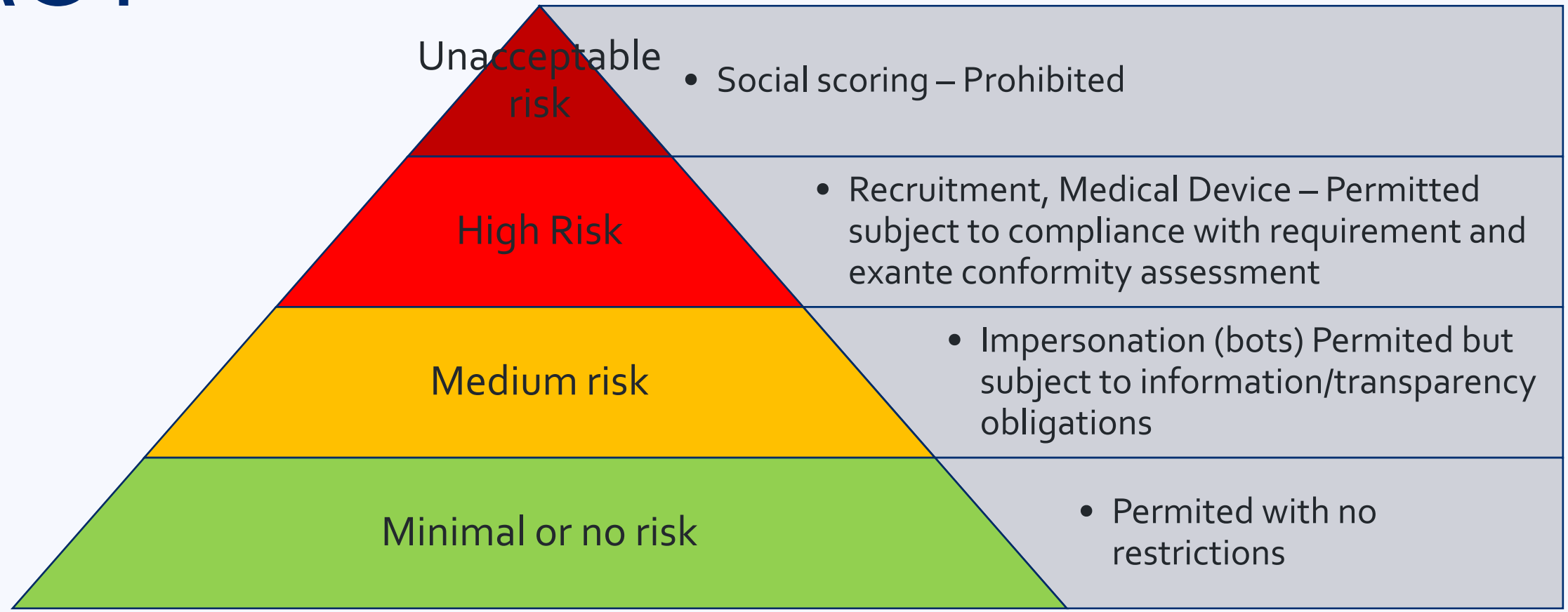

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Neither purpose nor technology is the risk

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- Purpose can induce risks
- We need to understand:
  - Values
  - Stakeholders
  - Impacts
  - Probabilities
- We need responsibilities and remedies!!

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The right to privacy in the digital age (2019)

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Human Rights Council encourages **all business enterprises**, in particular business enterprises that collect, store, use share and process data:

(a) **To meet their responsibility to respect human rights** in accordance with the Guiding Principles on Business and Human Rights: Implementing the United Nations “Protect, Respect and Remedy” Framework, including the right to privacy in the digital age;

(b) To **inform users** about the collection, use, sharing and retention of their data that may affect their right to privacy and to establish **transparency** and policies that allow for the **informed consent** of users, as appropriate;

(c) To implement **administrative, technical and physical safeguards** to ensure that data are processed lawfully, and to ensure that such processing is necessary in relation to the purposes of the processing and that the legitimacy of such purposes, and the **accuracy, integrity and confidentiality** of the processing, are ensured;

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The right to privacy in the digital age

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(d) To ensure that individuals have **access to their data**, and the possibility to **amend, correct, update and delete the data**, in particular if the data are incorrect or inaccurate,or if the data were obtained illegally;

(e) To ensure that the respect for the right to privacy and other **relevant human rights** is incorporated into the **design, operation, evaluation and regulation** of automated decision-making and **machine-learning technologies**, and to provide **compensation** for human rights abuses that they have caused or to which they have contributed;

(f) To put in place adequate safeguards that seek to **prevent or mitigate adverse human rights impacts** that are directly linked to their operations, products or services, including where necessary through contractual clauses, and **promptly inform** relevant domestic, regional or international oversight bodies of abuses or violations when **misuse of their products and services** is detected;

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Data Management Plans

Evolving ethics from data

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LESSON: START FROM DATA NOT TECHNOLOGY

Why data management plans

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- They reveal the actual purpose for using data
  - Purpose is the start of any discussion
- They show responsibilities and reveal hidden cost of data

> Crucially, if your research proposal involves the processing of any personal data, whatever method is used, you – and all of your partners, collaborators and service providers – must, if called upon, be able to demonstrate compliance with both legal and ethical requirements. Such requests could come from data subjects, funding agencies or data protection supervisory authorities.

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Why not use EU Data Management Plans

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- They are useless because nobody reads them!
- They are very verbose!
- They are too much focused on open data!
- They are not showing complex provenance of data!

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How to improve data management plans

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- Include better Ethics section
- Include links to evidence
- Ingress: Particularly reveal the trace to personal data
- Egress: Reveal the threats and potential benefits to the general public

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Data Management Plans used in EUHubs4Data

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- Short own Excel template: see later
  - + good overview over multiple data sets
  - + write once
  - - ethics concerns often overlooked
- Online https://argos.openaire.eu:
  - + linkable also to datasets via DOIs (OpenAIRE ecosystem: zenodo)
  - + can be easily published
  - + living documents
  - - complex templates (Horizon Europe already much better)
  - - no easy tools to assemble many experiments

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- If the collection or use of data raises specific ethics issues (e.g. as regards consent and transparency, privacy and the rights and expectations of the data subjects), you must provide a detailed overview of the planned data collection and processing operations and explain how the ethics concerns will be mitigated.
- If you are using data that are publicly available, you must provide details of the source(s) and confirm that the data are openly and publicly accessible and may be used for *research purposes.* You must also do this where the data you intend to use have been manifestly made public by the data subject

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Ethical self assessment and risk management

managing documentation and enabling transparency

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EU Grants

How to complete your ethics self-assessment

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/guidance/how-to-complete-your-ethics-self-assessment_en.pdf

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LESSON: TOOLS NEED TO BE SIMPLE

Self assessment for SMEs

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ADAPTED FROM EU ETHICS TEMPLATE

- Adds data related aspects like re-identification risks and explicit AI-Risks related to automated decision making
- Latest version is more compatible with “upstream” EU Template

	group (ethics@euhubs4data.eu) proactively.		
Part 1			
	Does the experiment or gathering of the dataset involve	human embryos/ foetus,	
		human cells/ tissues,	
		animals,	
		interaction with people from non-EU countries,	
		or risks for the environment or safety?	YES/NO
	Does the dataset or experiment allow dual usage	in a military	
		or criminal context?	YES/NO
	Does your experiment or dataset involve	human participants	
		or emprical data based on human participation?	YES/NO
	Does the dataset or experiment involve processing of	personal data?	YES/NO
	I have answered any of the above with yes,	and provided a full ethics-selfcheck including required information and documents mentioned in the EC guidelines to ethics@euhubs4data.eu	YES/NO
Part 2			
	Do you use	previously anonymized data?	YES/NO
	If yes, if someone had a serious interest in recovering personal data,	how easy would it be to deanonymize data?	1-10
	If yes, in the case of successful deanonymization,	how harmful would this be?	1-10
	Could the data and/or the results of the experiment be used to	profile individuals or	
		to establish fully automated decision making on personal data?	YES/NO
	Could there be data included where individuals did **not** have the chance to explicitly	agree to the specific use of their data?	YES/NO
	Could existing biases in the dataset lead to discrimination based on	ethnic,	
		religious	
		sexual groups	
		disabilities ,…	YES/NO
	Is your experiment or data set so complex/automatized that	human oversight and sanity checking is not possible?	YES/NO
	How high is the risk that errors in the data or in the processing	cause harm to human when used in a productive system?	1-10
	How much of what is done with the data is needed to be kept	secret about automated decision making on data	
		how data is transformed?	1-10
	Are there remaining ambiguities on who is	responsible for the data or code provided or used?	YES/NO
	Could the (incorrect) use of the data or the execution of the experiment lead to	potential harm to societal and environmental well-being	YES/NO

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Documentation schemes

ANNEX 4: EVIDENCE CHECKLIST

Evidence checklist adapted from checklist provided by Ricard Martinez

The purpose of the file structure and the verification form to provide a basic guidelines to the requirements necessary for regulatory and ethical compliance of experiments as well as to systematize the evidence required for projects within a cascade funding activity such as EUHubs4Data. The evidence summary at the end can be used as a project management tool to e.g. approve execution or pay-out based on the evidences collected.

File structure of evidences

Please provide links to archived documents for each item if applicable

A.- Information on the participating entities and the roles they play (data controller, data processor, data provider-consumer, etc. ....) in relation to the overall purpose of the experiment

B.- Ethical and Regulatory Compliance (GDPR).

1. Ethical requirements

1.1. Experiment design

Scientific documentation that provides relevant information for the ethical and legal evaluation of the research.

1.2. Data Management Plan

Individual documentation on handling of all processed and/or published data set according H2020 standards with particular reference to ethical and GDPR aspects related to individual dataset and processing/publication purposes

1.3. Documents of approval by the Ethics Committee or Regulatory Bodies

Evidence summary

Section	Document	
	Datasets created	Datasets used
1.-Brief Description	☐	☐
2.- Ethical requirements	Datasets created	Datasets used
2.1 Detailed Experiment Design	☐	☐
2.2. Data Management Plan	☐	☐
2.3 Ethics Committee Approval	☐	☐
2.4 Informed consent	☐	☐
2.5 AI impact assessment	☐	☐
3.- GDPR evidences	Datasets created	Datasets used

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LESSON: DO NOT RELY ON LEGAL NECESSITY FOR ETHICAL EVIDENCE

Tools we use for “evidence”

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- Data protection impact assessment template (ICO UK):

https://ico.org.uk/media/for-organisations/documents/2553993/dpia-template.docx

- Legitimate interest assessment template (ICO UK)

https://ico.org.uk/media/for-organisations/forms/2258435/gdpr-guidance-legitimate-interests-sample-lia-template.docx

- Altai assessment list

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Problem: Understanding

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- Responsible Persons at SME do not understand the language
- Anonymization vs Pseudonymization is already difficult for expert s
- Tying legal basis and purpose is not understood
- Best practices for consent are not establised

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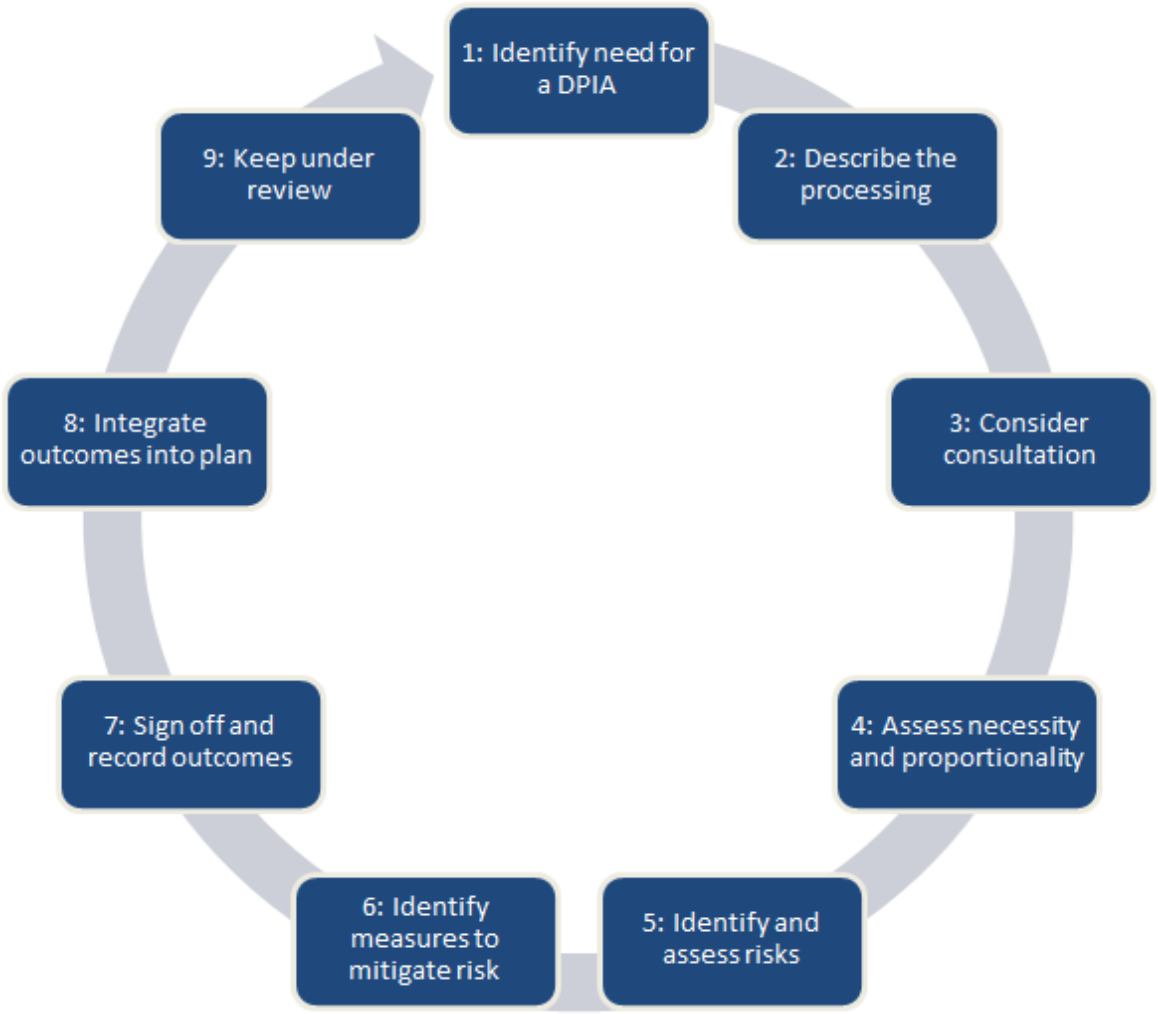
LESSON: REQUIRE PARTNERS/SMES TO OBTAIN CAPABLE RESSOURCES ADAQUATE TO TASK



https://ico.org.uk/for-organisations/uk-gdpr-guidance-and-resources/accountability-and-governance/guide-to-accountability-and-governance/accountability-and-governance/data-protection-impact-assessments/

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Risk Based Approach

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- What is it?
  - Stablish management of risk as the center of your project/solution.
  - Ethical Concern/issues will enter a risk management process

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LESSON: RISK BASED THINKING NOT COMMON FOR ENGINEERS

Our Ethics Risk Tool in EUHubs4Data

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#ID Risk	Risk identification						Initial Risk			Risk Control			Risk Evaluation			Residual risk evaluation			
	Ethics Issue	Std reference	Cause	Consequence	Detection Date	Applies	Severity	Probability	Risk area	Method Reduction Risk	Implementing Risk Control measures	Date of Control measure implementati	Severity	Probability	Risk area	New Risks introduced?	Evaluation final residual risk	Needs Tracking	Next Milestone
DS1	Dataset		are business	not using	-	OC3	MA	OC	UNACCEPTABLE	Elimination	the data set	-	MA	IM	Acceptable	No applicable	experiments.	No	aproval
WP1	Reporting Dataset Form asKed for unnecesary Data	It does not comply with the Data minimization principle	we ask for telephole and email one of them is not necesary	GDPR principle violation	-	Web Page	MA	FR	UNACCEPTABLE	Elimination	Eliminate the telephone from the form	-	MA	IM	Acceptable	No applicable	All data selected must be eliminated	Yes	
WP2	forms ask for thelephone	It does not comply with the Data minimization principle	we ask for telephole and email one of them is not necesary	GDPR principle violation	-	Web Page	MA	FR	UNACCEPTABLE	Elimination	Eliminate the telephone from the form	-	MA	IM	Acceptable	No applicable	All data selected must be eliminated	Yes	
WP3	The first layer of information is not appropriate	GDPR EEA	missing information on the first layer of information	GDPR principle violation	-	Web Page	MA	FR	UNACCEPTABLE	Elimination	Add the required information to the first layer	-	MA	IM	Acceptable	No applicable	No risk	Yes	
	It is said in the guidelines that proposals data will only be		We need to keep the data until EC Auditory Time expires. We need to inform	Information about the							mail after submission that the data is going to be kept for legal obligation during longer								

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LESSON: ETHICS NEEDS TIME BUT ALSO REQUIRE AGILITY

Sharing our tools: establishing a community that survives projects

Establishing a community that survives projects

Not start from scratch

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- Being able to set up an adapted ethics framework with start of project is wishful thinking
  - KPIs and deadline weight more than ethics: just don’t smooth talk it
- You start with what is there and will evolve by your challenges
  - You will live off good practice by others before, you will fail with own ideas
- Often it is more luck than reason that you end up with something useful
  - Don’t undervalue the disruption caused by confusion, though

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Our offer

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- If there is enough interest, we will publish and maintain the EUHubs4Data Ethics framework on

https://github.com/OpenCallDataInnovationEthics

(name subject to change, so subscribe ☺)

- Idea is to form an open source community across projects

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Join at menti.com use code 3775 9157

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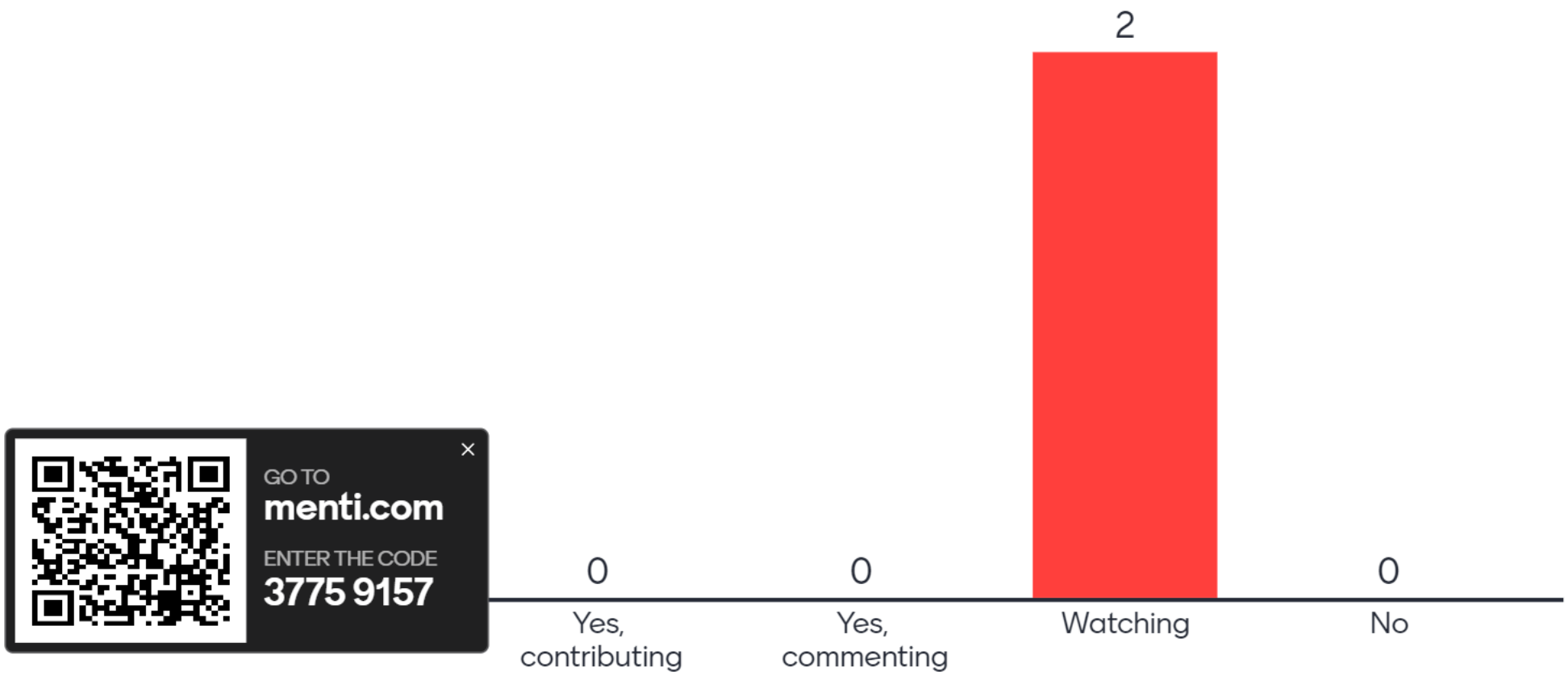
Will you activively participate?



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Thank you!

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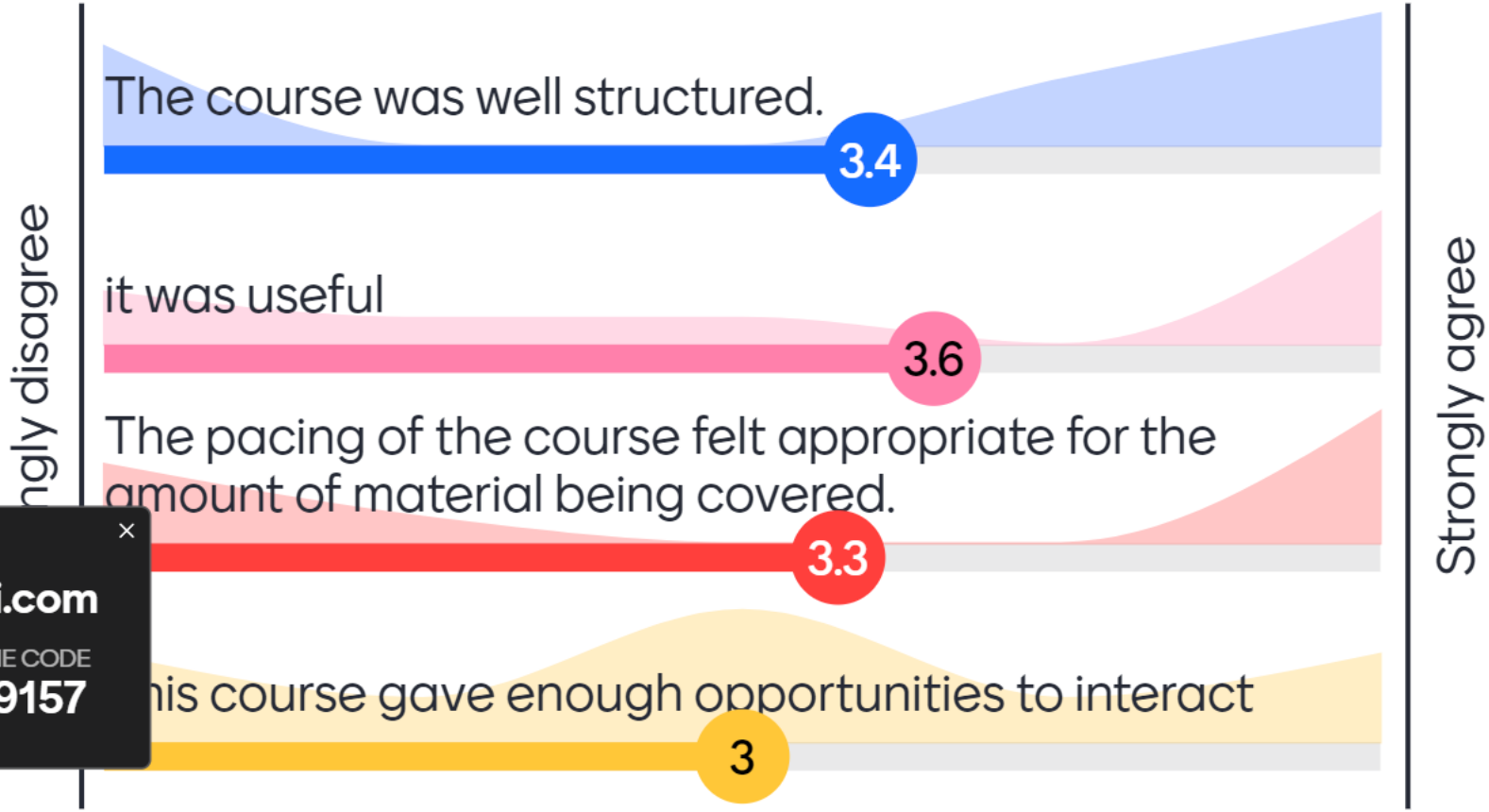
Evaluate the Course Structure



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One thing that could be improved for next time?

6 responses

All, boring and useless, confusing, could not really see the point

Reduce content, lessons hard learned & very valuable. Focus on your excellent insights with relevance for others managing diff projects. Leave tools to slides afterwards for those interested.

Maybe more distinction between legal and ethical problems

Focus on key messages, reduce

Put also QRs for the legal documents mentioned

Thanks for using your academic freedom to shed

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One thing that was good about the course

4 responses

More concrete than expected

Real world problems

Honesty was welcome.

A lot of documentation to read if you are interested

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