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How to allow...

# MAKING USE OF RESEARCH RESULTS

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# AGENDA

- **About**
- **Characterise research results**
- **“Allow” making use**
- **Sharing mechanisms and laws**
- **Organise data**

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# ABOUT

## ➤ Me:

- Teach and develop web
- IU and Cabri
- For learning, for maths
- Many EU projects
- Some open-source

## ➤ You:

### ➤ Little poll

- Domain of activity
- Object of research

*Answers: (order of frequency):*

*Education, music, teacher, Erasmus  
teaching, mentoring, maths, internationalisation  
language, English, test, focus, digitisation,  
beliefs, impact*

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# RESEARCH RESULTS

- **Classic ideal:**
  - **Theoretical knowledge, argumentation**
  - **Experiment descriptions,**
  - **... results, data**
  - **Their representations**
- **All follow: Producing this knowledge helps society**

*Want to disseminate*

*Others should reproduce*

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# THE OLD METHODS

- **“Under cover” researcher**
  - **Private lab, own elaboration space**
  - **Connection to the world is by reading**
  - **Only results: Papers or project reports**
    - **Only verification: Peers review for credibility**
- **Troubles: Fakes, biases, unreproducible, slow, ...**

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# THE NEW METHODS

- **Results should be: Findable Accessible Interoperable and Reusable (FAIR)**
- **Communities' exchange means are empowered**
- **Direct transparency can exist and be good**
- **Micro-publications can share faster**
- **New formats emerge**

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# A RESEARCH RESULT CAN BE...

- **Raw unedited or curated data**
- **A data-set**
- **A media creation**
- **Digested and analysed data**
- **... always the result of an elaboration**
- **... possibly with experiment or interviews**
- **Tables, CSVs, Excel, ...**
- **With labels, with interpretations**
- **Visual or Audio => tells a story**
- **Reflection, argumentation, relations**

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# POLL

*These words have been suggested  
by the participants (in order of importance):*

- **Find a research result on the sidewalk**
- **Give a verb:**
  - **What can you do with a research result?**

*Publish  
disseminate  
reproducibility  
mechanise  
reproduce  
evaluate  
analyse  
:-)  
share  
store  
disseminate  
check  
cite  
file  
quote  
owner  
reading  
test*



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# “ALLOW” MAKING USE

- **“Know” of the research**
- **What can a recipient do with a result?**
  - **Videos: listen, show, cut, embed**
  - **Text: PDF, paper (read)**
  - **Pictures: read or show**
- **Reproduce: Experiment protocol, data and calculations => open**
- **What can a recipient do with a result?**
  - **Videos: source media, scripts, projects**
  - **Text: Word, LaTeX, InDesign, ...**
  - **Pictures: source vectors, media and data, => any software!**

**AUTHORITY**

**TRANSPARENCY  
REQUIRED OPENNESS**

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# SHARING A RESULT

- **Make it with a license: e.g. choose one with the license chooser**
- **Your own choice, you just give an authorization: link to a deed**
- **Archive the sources**
- **Document the creation method, make that available too**
- **Remember: Expectations you feel will not be the ones of the recipients!**

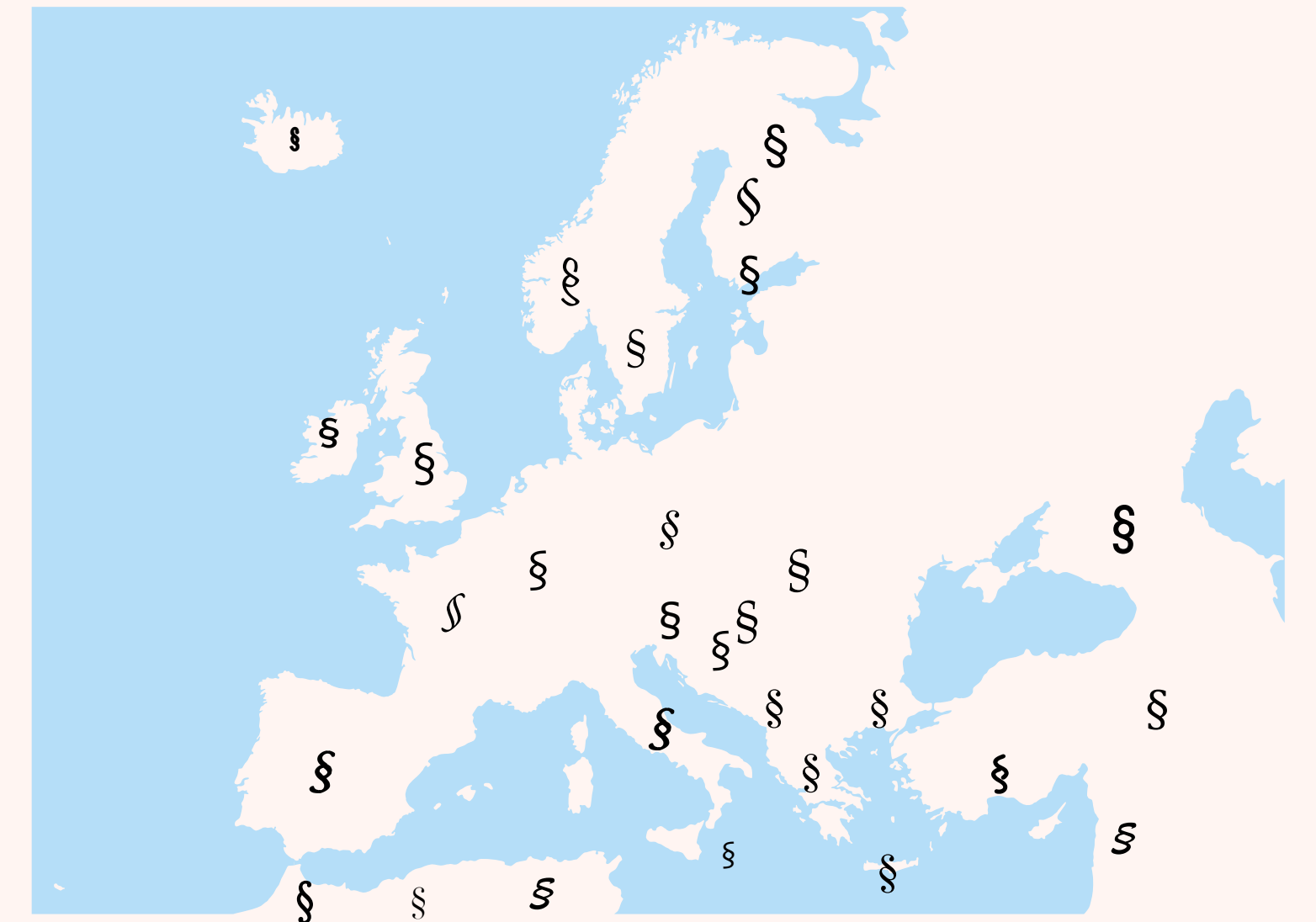


Source: Hand (OpenCliparts, CCO), enrichment by me

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# INTERNATIONALLY?

- **Many licenses can be applied**
- **“Open content” and “open source” has some precedents in Europe**
- **Copyright laws have been somewhat homogenized in Europe**
  
- **Verify clauses by their precedents**
  - **e.g. “non-commercial” has little standing**



Source: Europe (OpenCliparts, CC0), enrichment with apostrophes by me

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# MORE LEGAL CONTROL

- **What contains the research?**
  - **Personal information? => consent needed, right to extract and delete**
    - **Anonimize to the best of your knowledge**
- **For who is this personal?**
  - **=> big stats should be safe but individual traces?**
  - **=> could a big-tech “de-anonimize”?**
- **Protected material?**
  - **=> authorisation or compatibility needed**
  - **All authorisations need to express media and licenses**
  - **Hippie world: all in one open license**
  - **More realistic: Impressum**

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# ORGANISE DATA

- **Personal here? => pseudonimize!, ultra-protect personal (encrypt, restrict)**
- **Share data among project partners (group access)**
  - **Use Web-shared spaces that you trust**
  - **Hosting? Does it need an extra protection? Data-processing-order? Measures?**
- **Regularly ask: What if Delete/Export?**
- **Use versioning systems and regular “publish previews”**

**For all content types**

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# PUBLISH !

- **A release publish ready... let's export**
- **Own web: Care for readable and unique URLs**
- **Use public repositories**
  - **Data: e.g. Kaggle, Germany's FDB**
  - **Docs: arXiv, E+ Results...**
  - **Code: GitLab, GitHub, ...**

*Think: In 10 years?*

*Announce all in a post*

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➤ **Questions?**

➤ **Comments?**

➤ **Futures?**