

Summer School ReDMIL 22 :

**“Literacies to revamp, repair, rekindle our world”**

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# **« Digital info-communication practices in high schools and universities: the case of plagiarism”**

Research methods and epistemology

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# 1. Scientific object

- ▶ **ICS field** : Information & Communication Science
- ▶ Our study concern **information practices and information literacy(ies)**
- ▶ Beyond this educational dimension, we propose in this work a look at the place of **information practices, copy-paste practices** in the field of Information and Communication Sciences (ICS) **between information practices and literacy**. Indeed, to what extent are information literacies implemented and do they improve high school students'information practices ?



## 2. Theoretical framework

- ▶ **Two conceptual models** are used to conduct this research:
- ▶ the model of **SCN**, strategies for digital scrapbooking (Peters and Gervais, 2016) updated (Peters, 2021) encompassing the entire creative process from information retrieval to writing and the **Berrypicking model** (Bates, 1989 et 2016), a key concept for information retrieval.



# Presentation of the two conceptual models used to conduct this research:

The **SCN** model - strategies of digital scrapbooking (Peters et Gervais, 2016) updated (Peters, 2021)

The **Berrypicking** model : evolving research (Bates, 1989 & 2016),

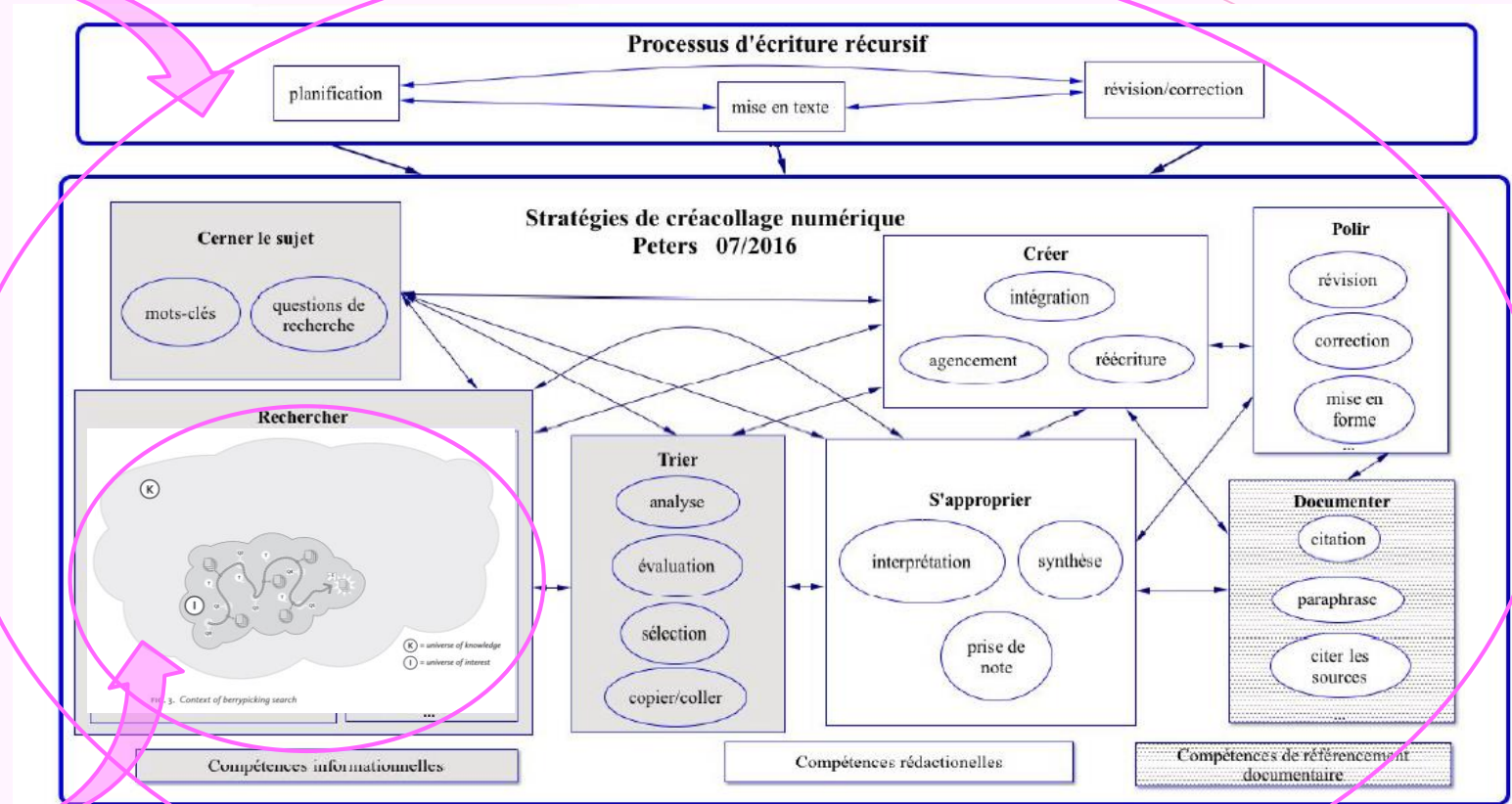


Figure 1. Modèle de l'utilisation de SCN lors de la rédaction d'un texte exigeant une recherche d'informations sur le web, (Peters, 2016)

# Two conceptual models to construct pupils' survey:

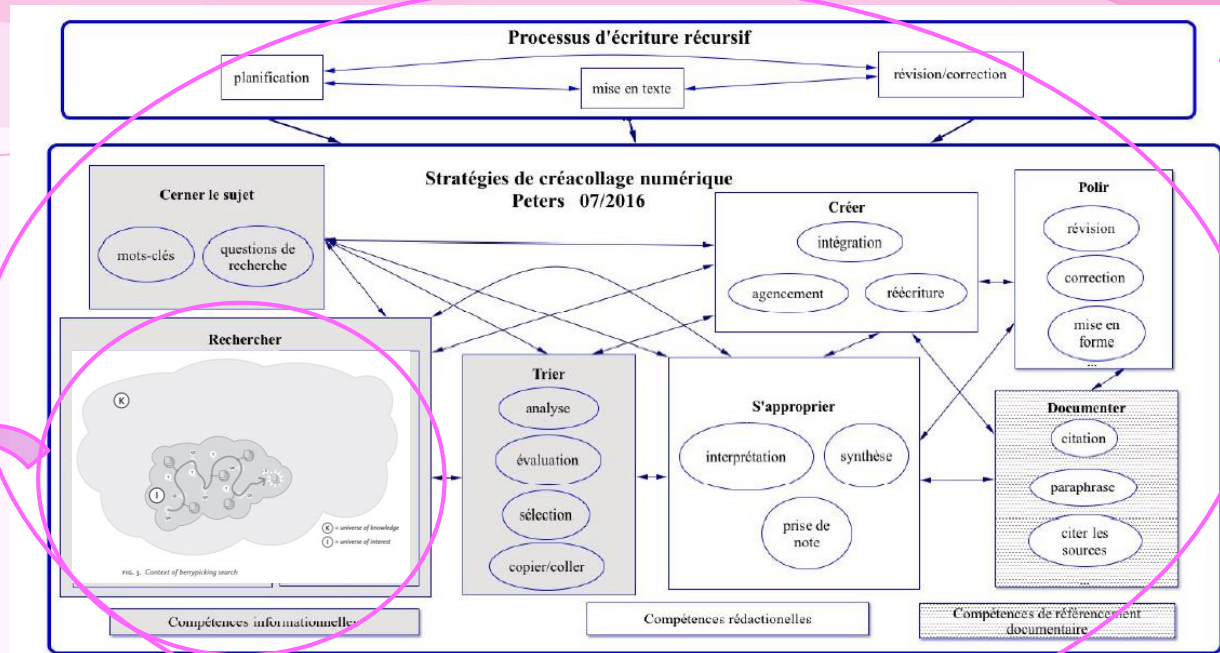


Figure 1. Modèle de l'utilisation de SCN lors de la rédaction d'un texte exigeant une recherche d'informations sur le web, (Peters, 2016)

The **SCN** model for the entire production of the document according to several steps of creation.

The **Berrypicking** model for research part of the survey

Pupils'survey

### 3. Research questions and hypothesis (reminder)

- ▶ We will try to determine what, a priori, in their info-communication practices leads them consciously or unconsciously to plagiarize or to have practices that approach it:

cf **plagiarizers** (plagiaires) and **plagiarists** (plagieurs)  
(Bergadàa, 2013)

- ▶ To what extent are high school students today capable of characterising the shift towards plagiarism in their info-communication practices?



# Two hypothesis (reminder too)

- ▶ The first working hypothesis is that high school students don't plagiarise on purpose (they are plagiarizers in this case) (Bergadaà, 2013) et are not aware of the scope of their copy-paste ... including plagiarism.
- ▶ The second hypothesis concerns the lack of training on information ethics and the impact of the teachers' instructions.



# 4. Research methods

**Composite** data collection :

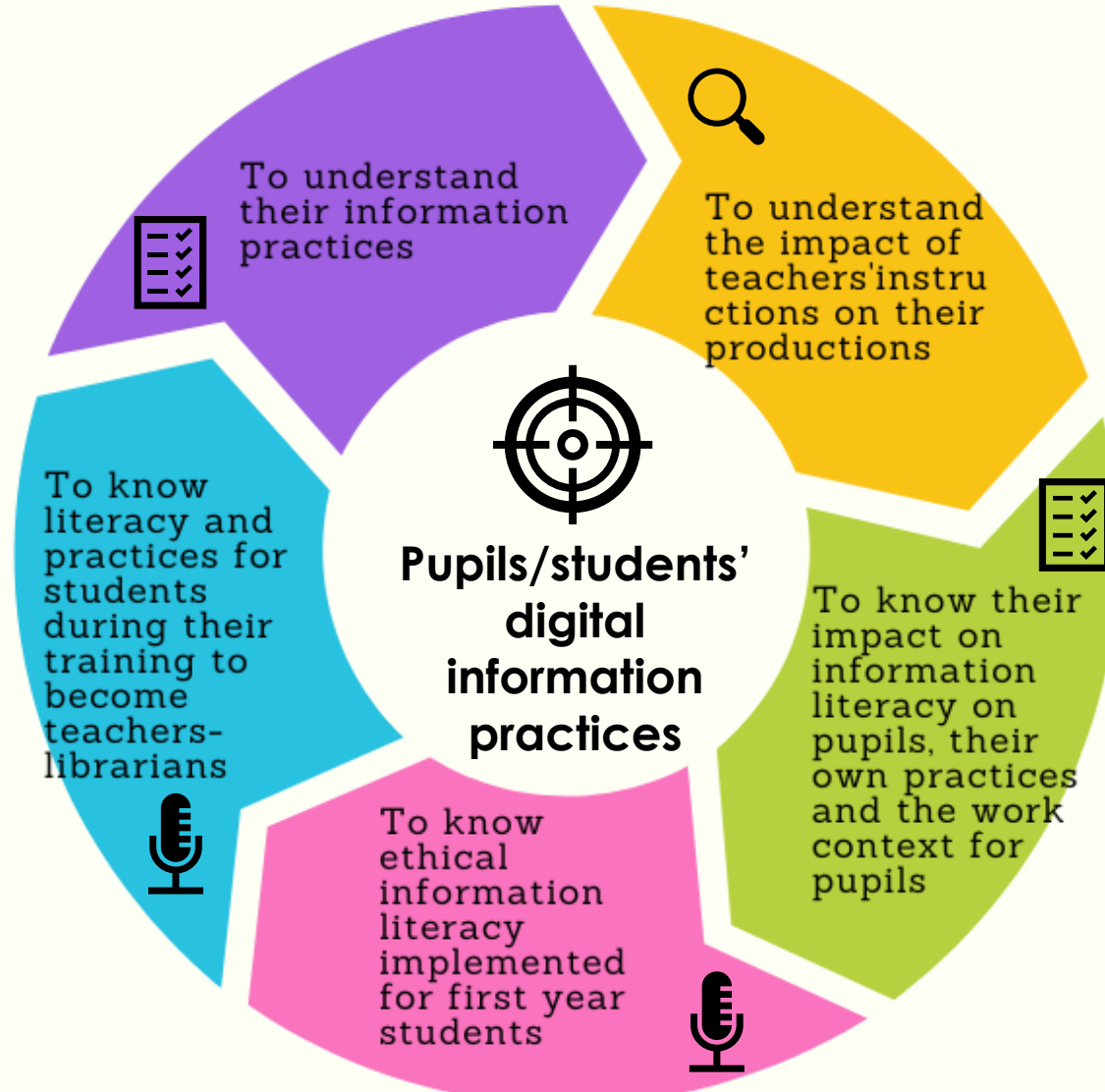
- ▶ Semi-structured interviews (De Ketele et Roegiers, 2015)
- ▶ Surveys / qualitative method
- ▶ Experiment / quantitative method ▶ stats
- ▶ Official texts and devices
- ▶ With **2 phases** :
  - ❖ Data collection phase
  - ❖ Data analysis phase (Deductive analysis to have indicators to better identify practices and behaviours proposed in the hypothesis)



# 5. Data collection steps



HOW & WHO



WHY

**+**  
**Institutional framework**



# What about the experiment ?

**Object** : Copyright and impact of teacher's instructions

**High school** = Seconde (15 yo), Première (16 yo), Terminale (17 yo)

**University** : first year students (18 yo)

**Partnership** with 3 teachers

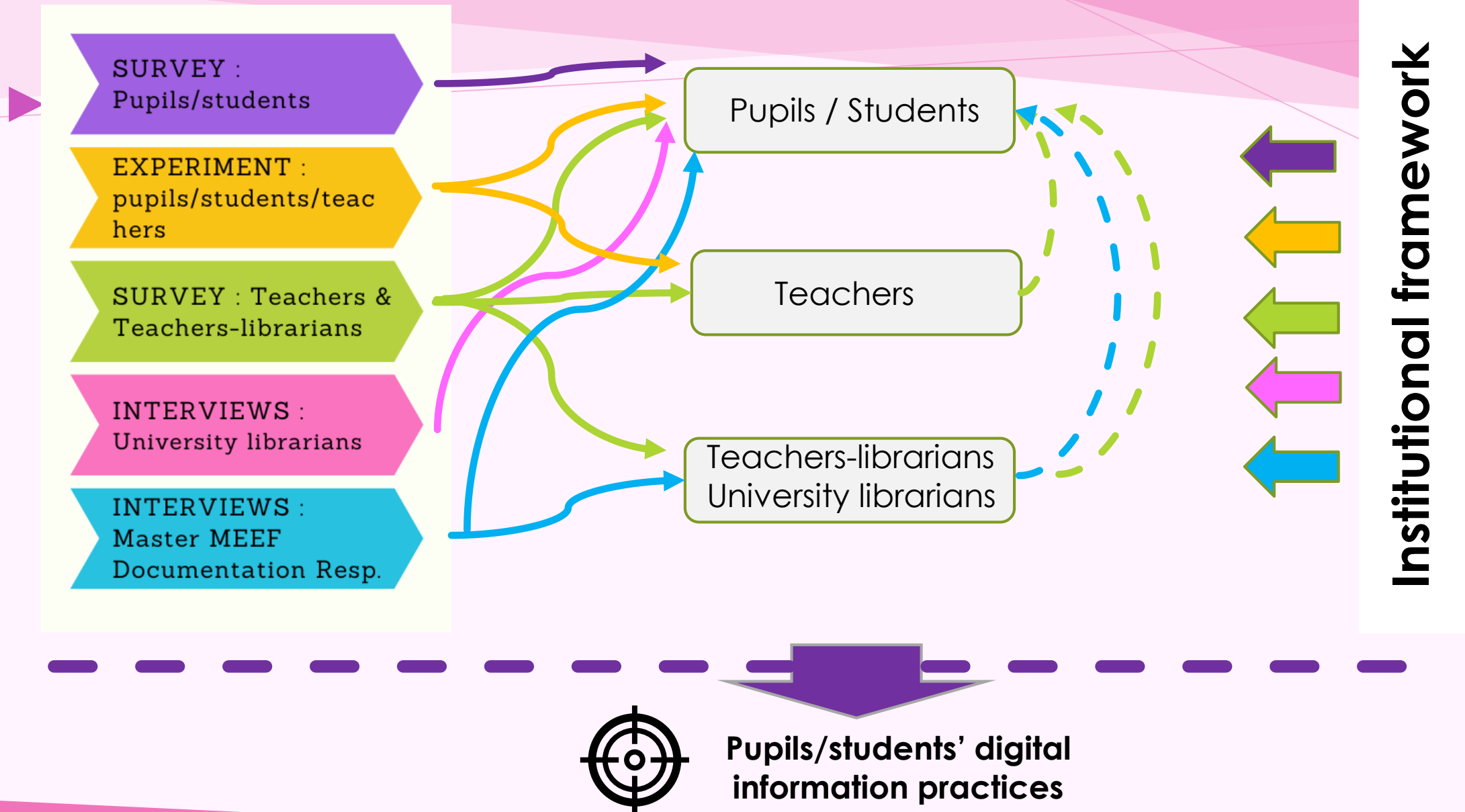
**Period** : 2021-2022



= 150 pupils/students / 300 productions + or -



# 6. Data analysis phase



# 6. Data analysis phase

## EXPERIMENT

Anonymous students' Productions

3 steps

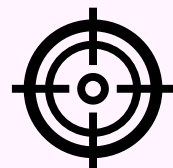
2021 - 2022

Compilation / Magister

① work on a topic without further instructions

② work on a topic respecting copyright

③ work on a topic respecting copyright and it counts towards the evaluation



Stats and indicators around Pupils/students' digital & ethical information practices



# 6. Data analysis phase

## ► Production of a sheet for statistics

| Id copie            | Niveau<br>2/1/T/L1 | % global de<br>copier-coller | Nbre de sources très<br>probables repérées par<br>compilatio | Similitude à<br>l'identique (%) | Sources référencées<br>oui/non | Si oui, format des<br>sources<br>simple/élaboré | Nbre de<br>sources citées<br>par l'élève | Sources<br>communes<br>entre la copie<br>et rapport<br>Compilatio | Différences<br>entre sources<br>(Compilatio<br>et élèves)<br>oui/non | Note | Citations<br>entre<br>guillemets<br>oui/non | Si oui<br>citations<br>sourcées<br>oui/non | copier-coller<br>oui/non | Images<br>oui/non | Images<br>nombre |
|---------------------|--------------------|------------------------------|--------------------------------------------------------------|---------------------------------|--------------------------------|-------------------------------------------------|------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|------|---------------------------------------------|--------------------------------------------|--------------------------|-------------------|------------------|
| 2_consigne1_copie1  | 2                  | 42                           | 6                                                            | 35                              | non                            |                                                 | 0                                        | 0                                                                 | oui                                                                  | 12   | non                                         |                                            | oui                      | oui               | 3                |
| 2_consigne1_copie2  | 2                  | 5                            | 5                                                            | 5                               | oui                            | simple                                          | 5                                        | 0                                                                 | oui                                                                  | 16   | non                                         |                                            | oui                      | oui               | 5                |
| 2_consigne1_copie3  | 2                  | 1                            | 1                                                            | 1                               | oui                            | simple                                          | 4                                        | 0                                                                 | oui                                                                  | 16   | non                                         |                                            | oui                      | oui               | 1                |
| 2_consigne1_copie4  | 2                  | <1                           | 0                                                            | 0                               | oui                            | simple                                          | 3                                        | 0                                                                 | oui                                                                  | 14   | non                                         |                                            | oui                      | oui               | 1                |
| 2_consigne1_copie5  | 2                  |                              |                                                              |                                 | oui                            | simple                                          | 5                                        |                                                                   |                                                                      | 15,5 |                                             |                                            | oui                      | oui               | 5                |
| 2_consigne1_copie6  | 2                  | 5                            | 1                                                            | 4                               | oui                            | simple                                          | 5                                        | 0                                                                 | oui                                                                  | 14,5 | non                                         |                                            | oui                      | oui               | 2                |
| 2_consigne1_copie7  | 2                  | 15                           | 4                                                            | 6                               | oui                            | simple                                          | 5                                        | 1                                                                 | oui                                                                  | 18   | non                                         |                                            | oui                      | oui               | 5                |
| 2_consigne1_copie8  | 2                  | 4                            | 2                                                            | 3                               | oui                            | simple                                          | 8                                        | 1                                                                 | oui                                                                  | 19   | non                                         |                                            | oui                      | oui               | 3                |
| 2_consigne1_copie9  | 2                  | 3                            | 2                                                            | 3                               | oui                            | simple                                          | 6                                        | 1                                                                 | oui                                                                  | 16   | non                                         |                                            | oui                      | oui               | 6                |
| 2_consigne1_copie10 | 2                  | 8                            | 6                                                            | 8                               | non                            |                                                 | 0                                        | 0                                                                 | oui                                                                  | 12   | non                                         |                                            | oui                      | oui               | 4                |
| 2_consigne1_copie11 | 2                  | <1                           | 0                                                            | 0                               | non                            |                                                 | 0                                        | 0                                                                 | non                                                                  | 10   | non                                         |                                            | non                      | non               | 0                |
| 2_consigne1_copie12 | 2                  | 2                            | 2                                                            | 2                               | oui                            | simple                                          | 3                                        | 0                                                                 | oui                                                                  | 15,5 | non                                         |                                            | oui                      | oui               | 2                |
| 2_consigne1_copie13 | 2                  | 1                            | 1                                                            | 1                               | non                            |                                                 | 0                                        | 0                                                                 | oui                                                                  | 14   | non                                         |                                            | oui                      | oui               | 1                |
| 2_consigne1_copie14 | 2                  | <1                           | 0                                                            | 0                               | oui                            | simple                                          | 5                                        | 0                                                                 | oui                                                                  | 19,5 | non                                         |                                            | oui                      | oui               | 7                |
| 2_consigne1_copie15 | 2                  | 10                           | 3                                                            | 0                               | oui                            | simple                                          | 9                                        | 3                                                                 | oui                                                                  | 17,5 | non                                         |                                            | oui                      | oui               | 3                |
| 2_consigne1_copie16 | 2                  | 46                           | 3                                                            | 33                              | non                            |                                                 | 0                                        | 0                                                                 | oui                                                                  | 17   | non                                         |                                            | oui                      | oui               | 6                |
| 2_consigne1_copie17 | 2                  | 49                           | 3                                                            | 43                              | non                            |                                                 | 0                                        | 0                                                                 | oui                                                                  | 14   | non                                         |                                            | oui                      | oui               | 1                |
| 2_consigne1_copie18 | 2                  | 15                           | 6                                                            | 14                              | non                            |                                                 | 0                                        | 0                                                                 | oui                                                                  | 17   | non                                         |                                            | oui                      | oui               | 8                |
| 2_consigne1_copie19 | 2                  | 22                           | 4                                                            | 16                              | oui                            | simple                                          | 3                                        | 1                                                                 | oui                                                                  | 14   | non                                         |                                            | oui                      | oui               | 2                |
| 2_consigne1_copie20 | 2                  | 2                            | 1                                                            | 0                               | oui                            | simple                                          | 5                                        | 1                                                                 | oui                                                                  | 17   | non                                         |                                            | oui                      | oui               | 2                |
| 2_consigne1_copie21 | 2                  | 27                           | 5                                                            | 21                              | non                            |                                                 | 0                                        | 0                                                                 | oui                                                                  | 12   | non                                         |                                            | oui                      | oui               | 2                |
| 2_consigne1_copie22 | 2                  | 31                           | 9                                                            | 23                              | non                            |                                                 | 0                                        | 0                                                                 | oui                                                                  | 14,5 | non                                         |                                            | oui                      | oui               | 2                |
| 2_consigne1_copie23 | 2                  | 10                           | 4                                                            | 0                               | oui                            | simple                                          | 4                                        | 3                                                                 | oui                                                                  | 15   | non                                         |                                            | oui                      | oui               | 5                |



Stats and indicators around Pupils/students' digital & ethical information practices



## 7. Epistemological position

- It could be :
- « Interactionist - systemic" model (Fondin, 2001)
- Between the **deterministic paradigm** (cause - consequence) and the **subjectivist paradigm** (interaction)

Pupils and students' relationship with the teachers (instructions, working environment and expectations)

students are not trained enough so they tend to make mistakes and ... not respect or disrespect copyright



# 8. Conclusion

► Data collection phase and analysis in progress

## ❖ Surveys

- **Pupils/students** : in progress and not submitted
- **Teachers** : created and not submitted
- **Teachers-librarians** : created, submitted in 2 academias (analysis OK) and will be deployed in France in 2022-2023 (cf Canopé\*)

\* : **Canopé** is a public operator of the French Ministry of Education in charge of lifelong training and support for teachers



# 8. Conclusion

▶ Data collection phase and analysis in progress

## ❖ **Semi-structured interviews**

- **University librarians** : done and analysis OK
- **Master MEEF Documentation responsables** : done and analysis OK

## ❖ **Experiment and stats**

- Done in 2021-2022
- Analysis in progress

## ❖ **Institutional framework**

- In progress and advanced



# 8. Conclusion

- ▶ **Epistemological position** in progress
- ▶ **ICS field** : Information & Communication Science  
but I have to **clarify my position** in relation to  
Educational Sciences
- ▶ I hope that my research will enable pupils/students  
to develop tactics to make ethic use of copy-paste  
in their information practices and not to plagiarise.



# Personal comments

- ▶ Surveys limited : Surveys and interviews are geographically **limited**. It is therefore impossible to make generalizations.
- ▶ One response to this shortcoming is to extend the survey to teachers-librarians throughout France. It's possible only for this survey and not for the one concerning high school and university students for example.
- ▶ **Bias** : There are several biases in my data collection (limited number of schools, student profiles, and no field observations of their practices / Compilatio)
- ▶ Difficulties with for example the creation of partnerships with high schools, with GDPR (General Data Protection Regulation)

(JOUE, 2018)



# Nature of the expected findings (reminder)

- ▶ Highlight that high school students are not sufficiently trained in French high schools visited in this work
- ▶ Gap between French institutional framework and implementation in high schools and universities visited
- ▶ To show that the role of teachers is essential :
  - ❖ both in their own “visible” practices of respecting copyright
  - ❖ in the importance given to copyright in their lessons and to copyright in evaluations
- ▶ In a constructive and not "repressive" vision



## 6. Bibliography (1/2)

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## 6. Bibliography (2/2)

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### Images :

- ▶ All slides'image : PEXELS. "Lotus" [JPG]. In Pixabay, 2016. <https://pixabay.com/fr/photos/lotus-fleur-rose-bloom-fleurir-1839558/>
- ▶ Slide 5 :  
Peggy\_Marco. "Domino" [JPG]. In Pixabay, 2015. <https://pixabay.com/fr/illustrations/mikado-domino-des-pierres-payer-1013877/>



# Thanks for your attention

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