Digital Commons & Public Policy

Emma Ghariani and Virgile Deville



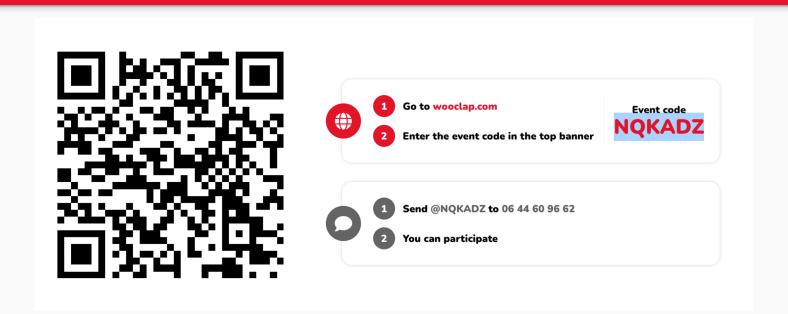
Session 2

Digital commons everywhere

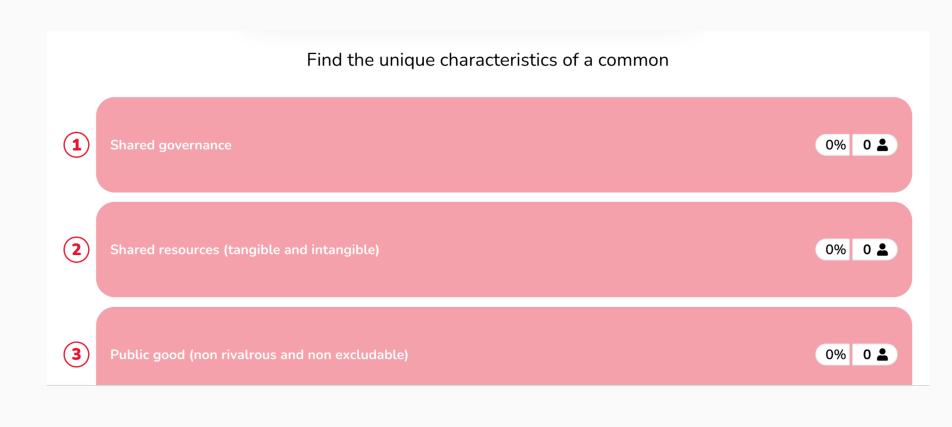
What are digital commons? And why are they (so) important?



Quizz about last session







Commons are special public goods

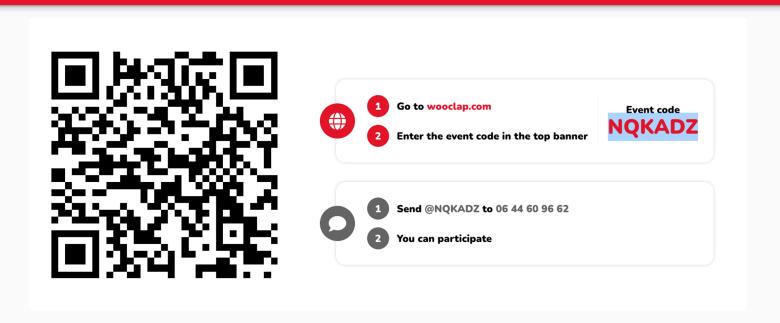
- Multiple users can have access with no effect on their quantity or quality (non rival)
- No permission is required to access the resource (non exclusive)
- Governed with rules that defines usage, management and organization rights





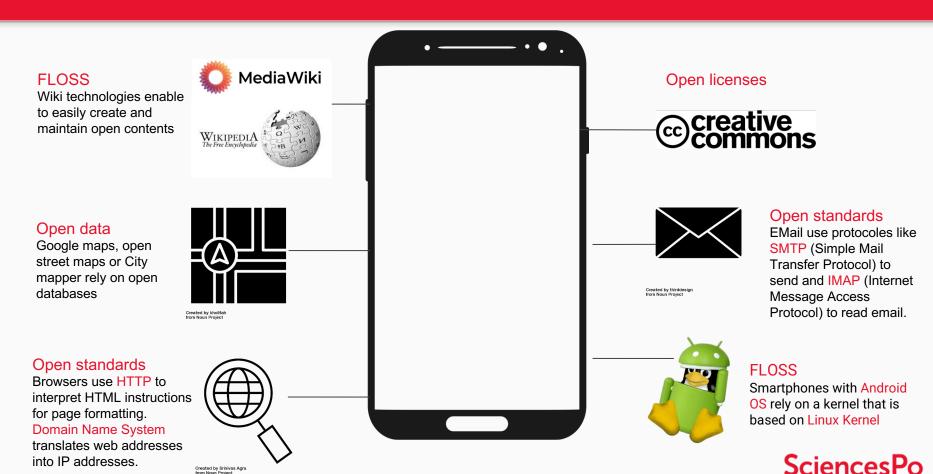


Name all the digital commons you are using on a weekly basis



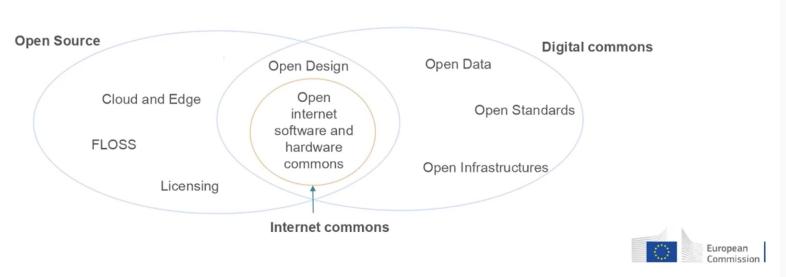


Some digital commons you may encounter on a weekly basis



Identifying different categories of commons

Internet commons vs digital commons vs open source





Understanding theoretical work behind the governance of (digital) commons

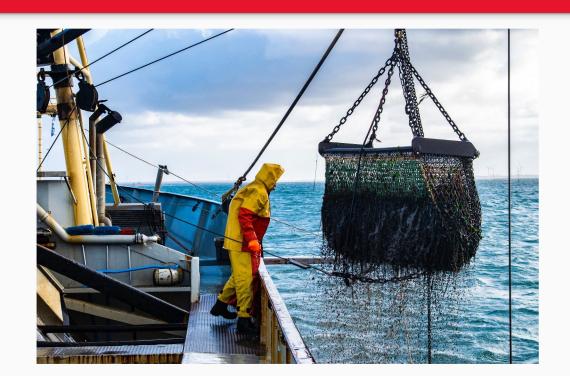


Hardin & the tragedy of the commons (1968)

- The starting point: profit-maximizing economic actors tend to maximize their use of unregulated commons
- The argument: commons property and sustainability of resources are incompatible
- **Solution**: To avoid the tragedy of commons, we should relinquish the freedom to breed. Natural resources should be under the regime of private property or of public property



Understanding principles behind the governance of (digital) commons



Ostrom's Governing the commons (1990)

- The starting point: There is a "third way" between private and public property at local scale
- The argument: Commons are locally-born economic institutions.
 Governance enable commons to flourish as an alternative to state or market approaches to managing resources.
- The solution: Based on several local case studies, Ostrom identifies 8 governance design principles



The 8 design (governance) principles

- 1. Clearly defined boundaries
- 2. Appropriate (fair) rules describe how resources can be used and under what conditions
- 3. Inclusive rule-making process
- Collective monitoring of compliance with the rules
- 5. Community based graduated sanctions
- 6. Efficient and effective conflict resolution mechanisms
- 7. Groups have the authority to conduct their own affairs.
- Local groups coordinate their rules with at different scales (local, regional ...)

Table 3.1. Design principles illustrated by long-enduring CPR institutions

- Clearly defined boundaries
 Individuals or households who have rights to withdraw resource units from the CPR must be clearly defined, as must the boundaries of the CPR itself.
- Congruence between appropriation and provision rules and local conditions
 Appropriation rules restricting time, place, technology, and/or quantity of
 resource units are related to local conditions and to provision rules requiring
 labor, material, and/or money.
- Collective-choice arrangements
 Most individuals affected by the operational rules can participate in modifying
 the operational rules.
- 4. Monitoring

 Monitors, who actively audit CPR conditions and appropriator behavior, are accountable to the appropriators or are the appropriators.
- Graduated sanctions
 Appropriators who violate operational rules are likely to be assessed graduated sanctions (depending on the seriousness and context of the offense) by other appropriators, by officials accountable to these appropriators, or by both.
- Conflict-resolution mechanisms
 Appropriators and their officials have rapid access to low-cost local arenas to resolve conflicts among appropriators or between appropriators and officials.
- Minimal recognition of rights to organize
 The rights of appropriators to devise their own institutions are not challenged by external governmental authorities.

For CPRs that are parts of larger systems:

Nested enterprises
 Appropriation, provision, monitoring, enforcement, conflict resolution, and governance activities are organized in multiple layers of nested enterprises.



Applying the 8 principles to digital commons

- **Boundaries** = producers and users, sometimes with an encompassing legal entity (ex : Wikimedia foundation)
- Rules = Guidelines and procedures are collectively elaborated through participatory process
- Monitoring: the community proceeds to quality control, moderation or edition actions
- Conflicts & sanctions: based on the law (ex: <u>fake-news</u>, licensing), shared values, and advocacy campaigns
- Coordination (nested enterprise): digital commons projects work as ecosystems

Presentation
What are copyleft and open licences?

Exercise: evaluating a Wikipedia article

Steps

- 1. (Optional) Create an account on Wikipedia (you may use a pseudonym)
- 1. Open the exercise : "Wikipedia policies" https://dashboard.wikiedu.org/training/students/wikipedia-essentials
- Open the exercise "Evaluate wikipedia" <u>https://dashboard.wikiedu.org/training/students/evaluate-wikipedia-exercise</u>
- Evaluate the article "Digital commons (economics)"
 https://en.wikipedia.org/wiki/Digital_commons_%28economics%29

