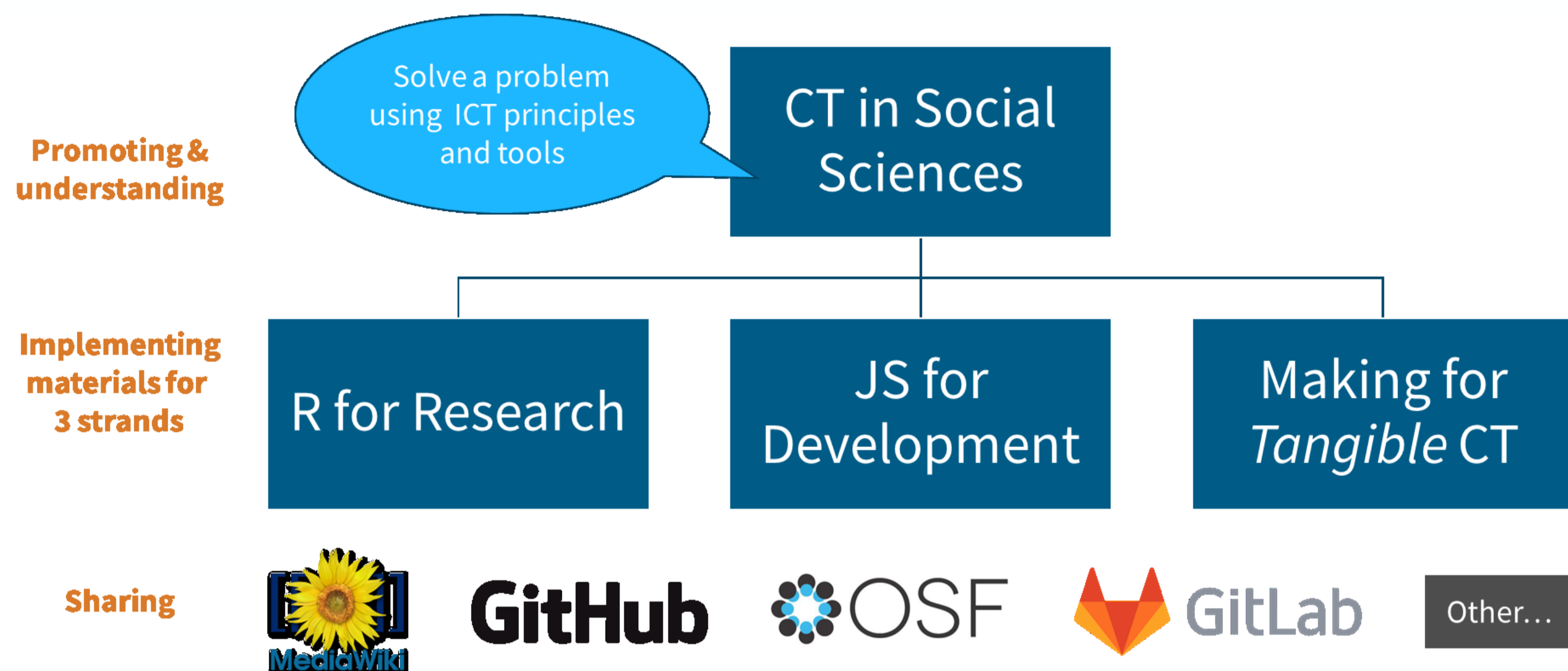
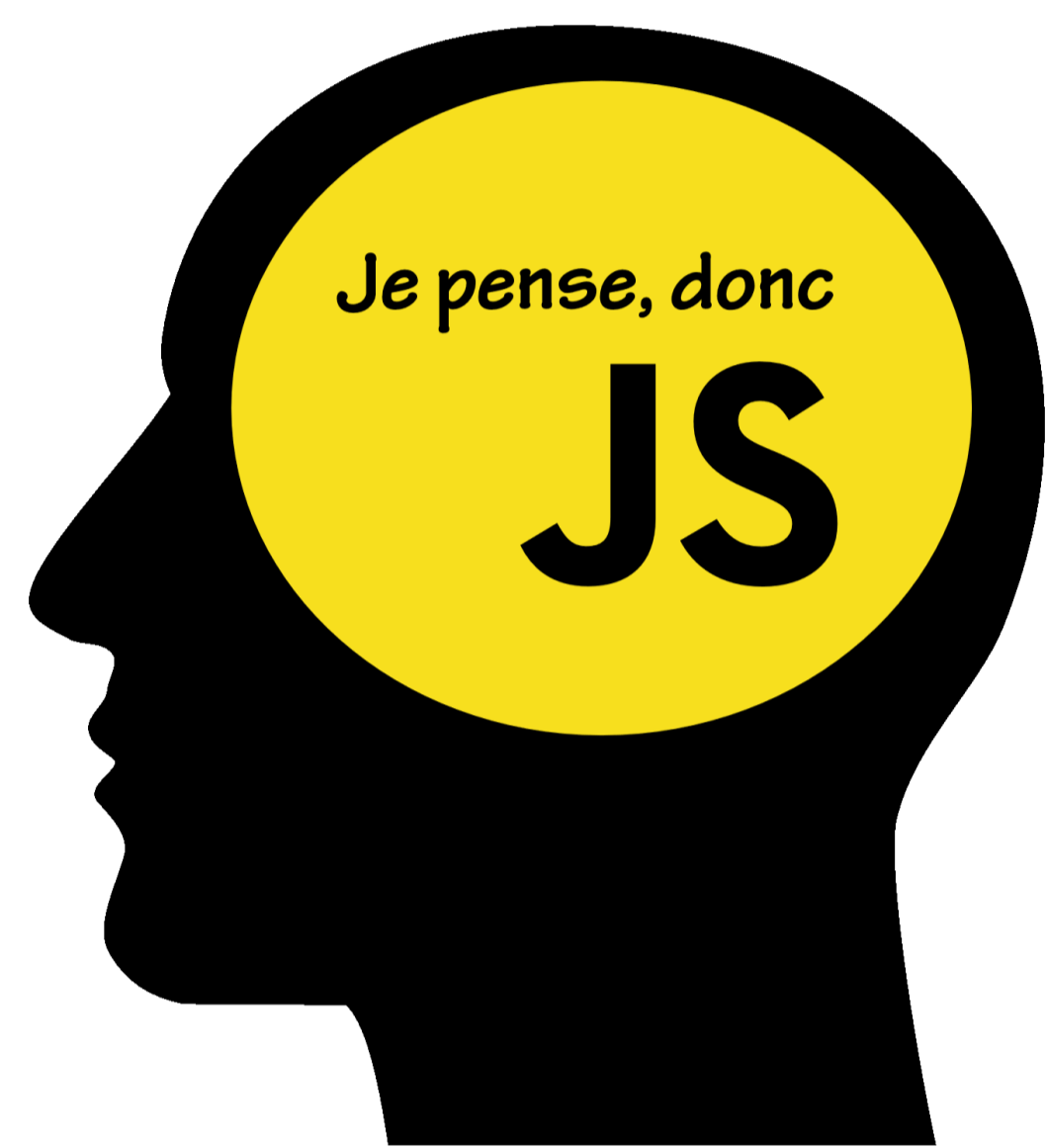


Open and participative learning material to take advantage of Computational Thinking (CT) principles and practices to solve problems in the social sciences, **in French and for beginners!**



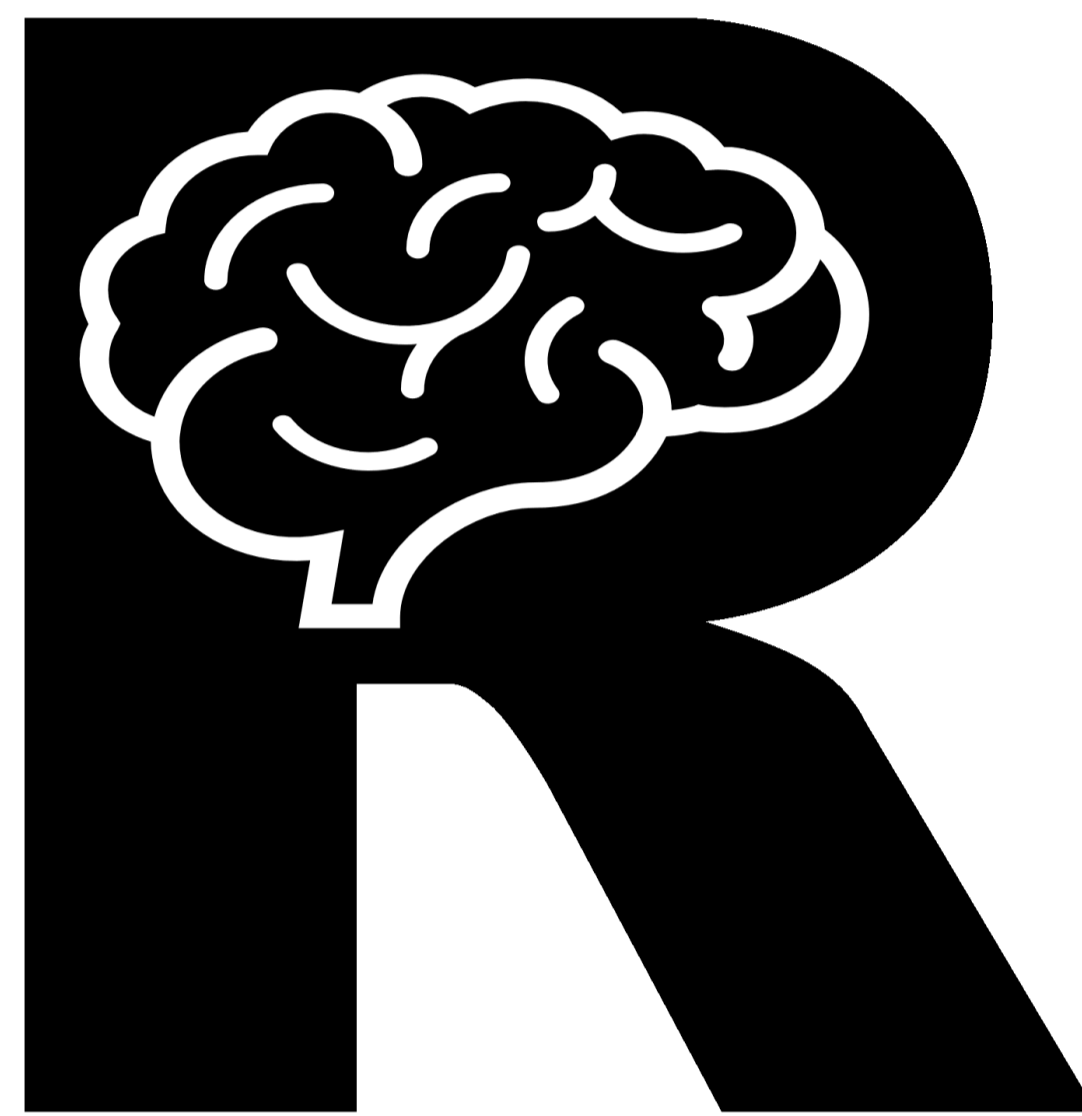
Perspective and Pedagogical Approach

The learning material adopts a **Problem-Solution-Sharing** perspective, which provides learners with theoretical, technical and practical know-how to use Information and Communication Technologies (ICT) in the social sciences in order to identify a problem, compute a solution, and share the result with others through open and collaborative tools and platforms.



Computational Thinking with JavaScript

Covering web development and technologies for multimedia interactivity.



Computational Thinking with R

Covering *Data Science* principles and computational reproducibility of reports.



Computational Thinking and Making

Covering digital design and fabrication such as 3D printing or digital embroidery.

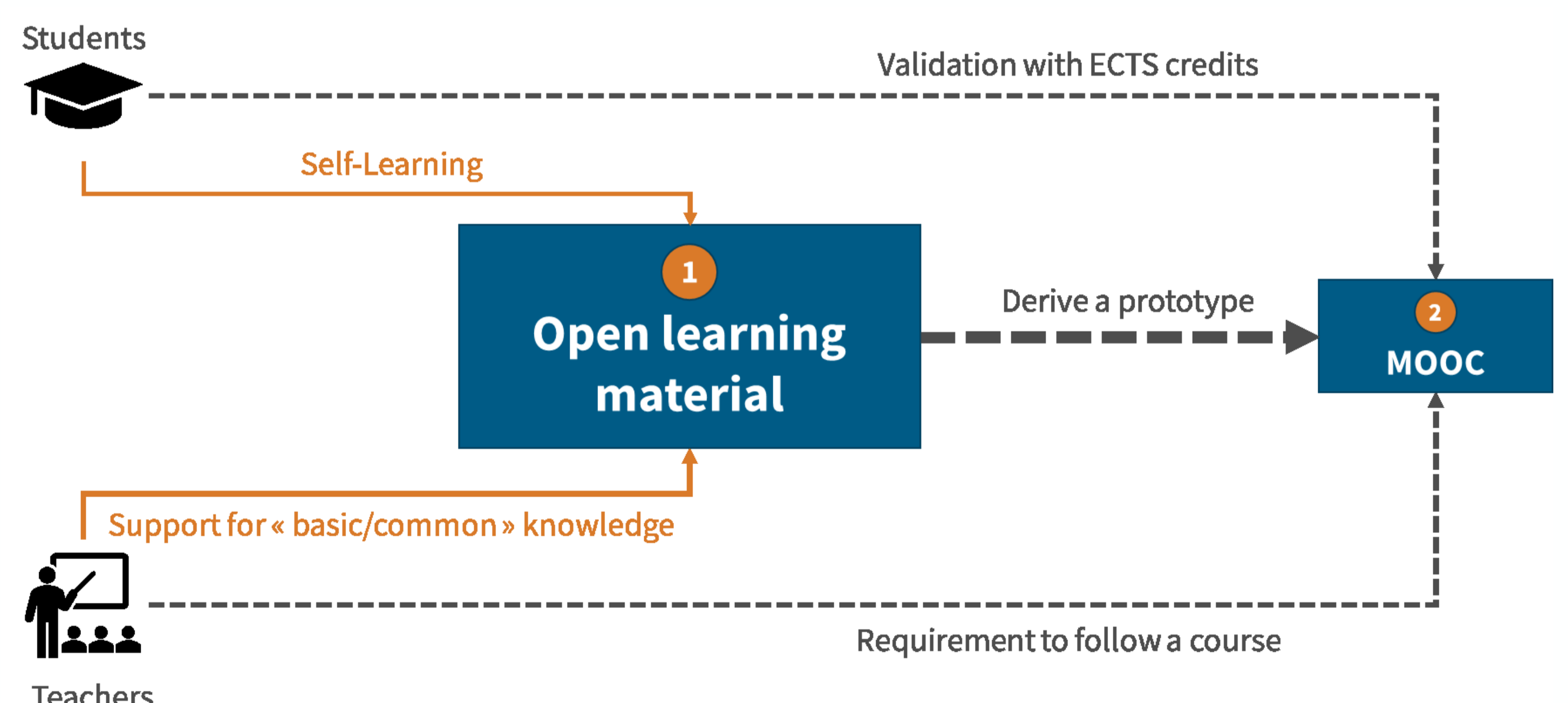
The material is hosted on EduTechWiki, a public portal maintained by TECFA since 2006. It is free on access and can be modified by any registered user to the platform. Registration is free and pending verification to avoid spam.



The material can be bundled into guided tours or accessed as single pages. It can also be exported as PDF or printed - from an independent online service - as an always up-to-date book, featuring the latest changes and contributors.

A Project in Two Phases

During the 2019-2020 first phase, the learning material will be created and made available through the public portal. Students can start to use it as soon as it is available for self-learning, whereas teachers can adopt it as support for basic or common knowledge, upon which their courses are built on. In a second phase (to be confirmed), the material will be used to derive a MOOC to be adopted in formal educational settings.



Visit <https://tecfa.unige.ch/proj/ctss/> for more details

By default all the material is licensed under the CC BY-NC-SA License