

The Infinite Glossary: Open Science

All the “Infinite Glossary” items are somehow linked. However, some links are stronger and more direct than others... Here are those related to the actors behind the scenes, how they are organised and how “curiosity driven fundamental research” addresses the core value of open science. This section is in its infancy and will grow in the coming months.



Translated from 'Glossaire', Passeport pour les deux infinis, IN2P3/Dunod, <https://pass2i.ijclab.in2p3.fr/> (French); updated with ICHEP2024 conference (<https://ichep2024.org>) for IPPOG

International Collaboration	As science progresses, experiments focus on more elusive and complex effects. In the physics of the infinite, this trend leads to increasingly large projects (e.g. accelerators are designed bigger so as to reach higher collision energies) and generates more and more data. The teams who fund, build and use detectors adapt to this shift: they grow, extend beyond national boundaries, and involve a wide range of professions. Their organisation structures are called collaborations.
Open Data	Experiments collect unique data at the frontiers of science using one-of-its-kind facilities and large-scale efforts with contributions from thousands of scientists. The data, which enables key insights into the nature of our world, represent a heritage of humanity, that experiments and research centers preserve, curate and share with the public. Given the complexity of particle physics, tutorials and educative material are also provided.
Outreach	Science outreach refers to activities and initiatives designed to engage the general public with science, technology, engineering, and mathematics (STEM). The goal is to make scientific knowledge accessible, interesting, and relevant to a broader audience. Diverse formats and platforms are used to “reach out” diverse audiences, from online dissemination to participation to science festivals and fairs and creation of educative programmes.