# OPEN EDUCATION DATA: EXAMPLES OF REUSE

[What is open data used for in education?](https://datos.gob.es/en/blog/open-data-tool-education-and-training)

* Enrich the experience of face-to-face and virtual learning, improve its effectiveness and efficiency, and drive access to knowledge.
* Make learning more engaging.
* Facilitate tutoring and student monitoring.
* Support teachers in cases of lack of attention or behavioral problems of students.
* Understand the state of the education system and drive improvements.
  + The European Commission has categorized the education sector as an area with [high potential](https://data.europa.eu/sites/default/files/the-economic-impact-of-open-data.pdf) for open data
  + The use of open data in education can contribute to measuring compliance with the SDG on [Quality Education](https://www.un.org/sustainabledevelopment/education/), among others.

### Word cloud

* Virtual and face-to-face teaching-learning
* Internet security
* Online tutoring
* More engaging learning
* Sharing experiences
* Optimising decision-making
* Personalised education
* Online assessment
* Teacher skills
* Digital divide
* More effective educational management
* Boosting STEM fields.

Some examples of open data types related to education:

* Offer of studies at different educational levels
* Enrolment data by educational level, discipline, and centre
* Staff templates in educational centres

In datos.gob.es, you can find over 6,700 [education datasets](https://datos.gob.es/en/catalogo?_tags_es_limit=0&theme_id=educacion&_theme_id_limit=0).

Other examples of open datasets that can be reused for educational purposes include:

* Linguistics and literature documentation, such as the Digital Library of Hispanic Heritage (BDH) or educational resources for language and literature teaching
* Geographic information, such as different types of maps, hydrographic basins, etc.

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[Discover the main datasets about education at datos.gob.es.](https://datos.gob.es/en/noticia/main-education-datasets-gobes)

## Examples of use cases

**Solutions that provide information about the educational system:**

* [Canary Islands Government School Map](https://www.gobiernodecanarias.org/educacion/centroseducativos/buscador-centros-openlayers/index.html): search engine for educational centers in the Canary Islands
* [Dashboard on the Access of New Students to Spanish Universities](https://www.universidata.es/datathon/#proyectos): interactive application that allows data visualization on new student access and answering questions about the project, among others
* [IEscolariza](https://www.juntadeandalucia.es/datosabiertos/portal/aplicaciones/buscador-apps/detalle/101661.html): search for schools and enrollment points in public centers in Andalucía
* [Agrupados Rural Centers in Aragón](https://opendata.aragon.es/servicios/cras): shows the distribution and evolution of rural schools in the community
* [Associative Portal of Pamplona](http://asociaciones.pamplona.es/): online map showing all city resources, including schools, libraries, etc., in the city's neighborhoods
* [Mastermania](https://www.mastermania.com/): search engine for masters from top universities and business schools
* [University of Extremadura Research Portal:](https://opendata.unex.es/investiga) compiles the scientific production of researchers of the academic institution
* [More Women for Science](https://opendata.aragon.es/servicios/focus/history/educaci%C3%B3n-investigaci%C3%B3n-y-desarrollo-82): through Open Data Focus, gender gap is shown in STEAM degrees at the University of Zaragoza
* [UniversiDATA-Lab](https://www.universidata.es/): portal for advanced and automatic analysis of datasets published by universities.

### Educational material solutions for classroom use:

* [Lod4Culture:](https://lod4culture.gsic.uva.es/es/) web application with data about cultural heritage in Spain
* [MatesGG](https://intef.es/recursos-educativos/recursos-para-el-aprendizaje-en-linea/matesgg/): space with materials elaborated with the [GeoGebra](https://www.geogebra.org/?lang=es-ES) tool for learning mathematics
* [Authors in the BNE](https://www.bne.es/es/autores): web portal with biographies and digitized works of more than 300 authors of Spanish literature
* [Educa IGN](https://www.ign.es/web/recursos-educativos): web portal of the National Geographic Institute that includes educational material, maps and games to learn physical and political geography in the classroom
* [Casual Learn](https://casuallearnapp.gsic.uva.es/): application that allows learning about art history in Castilla and León
* [Civil War in Euskadi](http://guerracivileuskadi.eurohelp.es/): website that offers information about the conflict in Euskadi using linked data techniques
* [Sound records of the BNE](https://play.google.com/store/apps/details?id=jfs.registrossonorosBNEgratis): application that brings users closer to the 20,000 musical recordings in the National Library collection
* [Talking in data](https://www.museoreinasofia.es/biblioteca-centro-documentacion/hablando-data): web visualization of the Reina Sofía Museum to learn about the presence of women artists, art critics, curators, writers and authors.
* [Podteca](https://www.podteca.com/): platform that allows finding podcasts for different educational purposes
* [EducaWood](https://educawood.gsic.uva.es/): socio-semantic web portal that allows exploring forest information and enriching it with tree annotations.

As stated by [UNESCO](https://www.unesco.org/en/open-solutions), open solutions including open educational resources and open data, encourage the free flow of information and knowledge, serving as a foundation for addressing global challenges.

Discover datasets, news, companies and education-related applications [here](https://datos.gob.es/en/sector/educacion).