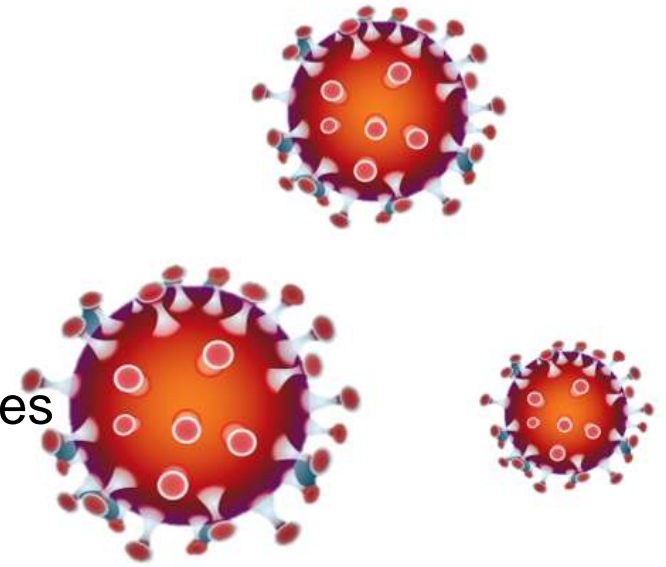


GO-LAB ECOSYSTEM

Facilitating the use of innovative learning technologies
in STEM education



GO-LAB



V. LAZAR RAMESH,
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We need engaging (Science and Engineering) Instruction



INQUIRY LEARNING AS ENGAGED LEARNING

- Students gain knowledge by:
 - Answering research questions
 - Performing investigations and data analysis
- Students act as “**Scientists**”



THE ROLE OF TECHNOLOGY

Technology could have more influence in Education than it currently has.

- Bill Gates



TECHNOLOGY IN THE CLASSROOM

- Popular Applications
 - Drill and Practice(spelling, arithmetic)
 - Learning Management Systems(LMS)
 - Whiteboards
 - MOOCS
 - Online (Adaptive) testing
- All replace one-on-one traditional methods
 - Old wine in new bottles



ONLINE LABS

- Offer new possibilities that never can be done in the class
in real
- Can be combined with online support

Compared to real labs can:

- Be safer
- Enable faster experimentation
- Be cheaper







https://www.golabz.eu/

GO-LAB Labs Apps Spaces Authoring Support Premium About News

Sharing and Authoring Platform

Find the largest collection of online labs, try-out interactive inquiry apps, combine labs and apps into Inquiry Learning Spaces, and share these with your students and colleagues.

Thousands of schools all over the world remain closed for the next weeks or even months due to the SARS-CoV-2 (COVID-19) pandemic. In order to support them in delivering online education, we invite all schools and teachers to use the Go-Lab Ecosystem for online STEM teaching. The platform and all tools (including premium labs and apps) are available free of charge. Find more information [here](#).

LAB	APP	LAB	LAB
			
Electrical Circuit Lab In the Electrical Circuit Lab students	Hypothesis Scratchpad	Gravity Force Labs	Acid-Base Solutions How do strong and weak acids

OVER 600 Labs



ONLINE LABS

- Online Labs: remotely operated and virtual laboratories, data sets and analysis tools in Physics, Astronomy, Chemistry, Biology, and other science domains.
- The Go-Lab Sharing & Authoring Platform is for pre-service and in-service science teachers in primary and secondary school.
- It offers innovative learning tools to support your classroom activities with students from 6 to 18 years old.



Over 40 Apps

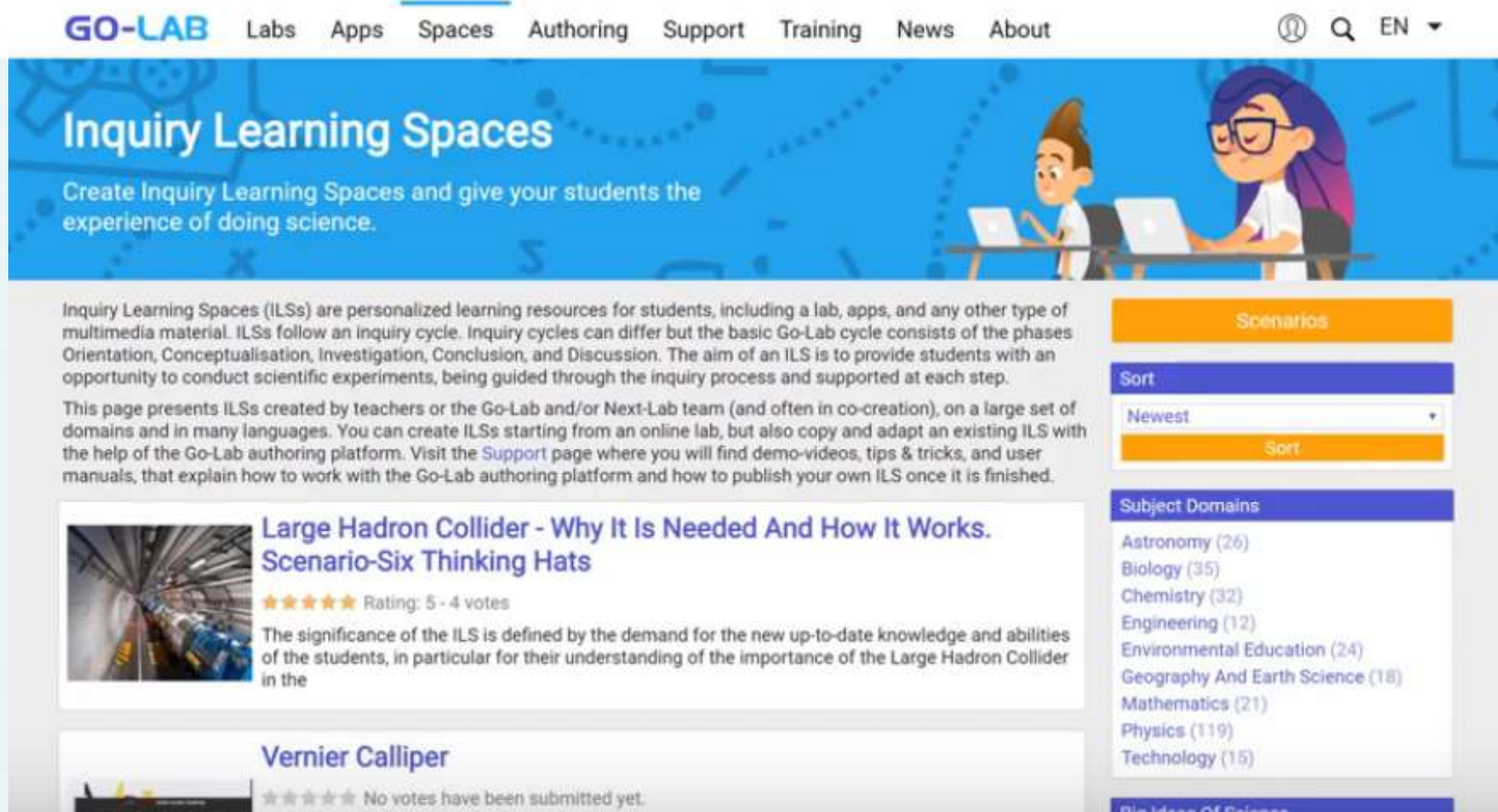


LEARNING APPS

- Learning Apps: guidance applications that assist students in formulating hypotheses, designing experiments, and drawing conclusions.



MORE THAN 1000 INQUIRY LEARNING SPACES



The screenshot shows the Go-Lab website interface. At the top is a navigation menu with links for Labs, Apps, Spaces, Authoring, Support, Training, News, and About. A search icon and language selector (EN) are on the right. The main banner features the text "Inquiry Learning Spaces" and "Create Inquiry Learning Spaces and give your students the experience of doing science." Below this is a paragraph explaining that Inquiry Learning Spaces (ILSs) are personalized learning resources for students, including labs, apps, and multimedia. It describes the inquiry cycle: Orientation, Conceptualisation, Investigation, Conclusion, and Discussion. A second paragraph states that the page presents ILSs created by teachers or the Go-Lab and/or Next-Lab team. On the right side, there are filters for "Scenarios", "Sort" (set to "Newest"), and "Subject Domains". The "Subject Domains" list includes: Astronomy (26), Biology (35), Chemistry (32), Engineering (12), Environmental Education (24), Geography And Earth Science (18), Mathematics (21), Physics (119), and Technology (15). Two ILS cards are visible: "Large Hadron Collider - Why It Is Needed And How It Works. Scenario-Six Thinking Hats" with a 5-star rating and 4 votes, and "Vernier Calliper" with no votes submitted yet.

GO-LAB Labs Apps Spaces Authoring Support Training News About 🔍 EN

Inquiry Learning Spaces

Create Inquiry Learning Spaces and give your students the experience of doing science.

Inquiry Learning Spaces (ILSs) are personalized learning resources for students, including a lab, apps, and any other type of multimedia material. ILSs follow an inquiry cycle. Inquiry cycles can differ but the basic Go-Lab cycle consists of the phases Orientation, Conceptualisation, Investigation, Conclusion, and Discussion. The aim of an ILS is to provide students with an opportunity to conduct scientific experiments, being guided through the inquiry process and supported at each step.

This page presents ILSs created by teachers or the Go-Lab and/or Next-Lab team (and often in co-creation), on a large set of domains and in many languages. You can create ILSs starting from an online lab, but also copy and adapt an existing ILS with the help of the Go-Lab authoring platform. Visit the [Support](#) page where you will find demo-videos, tips & tricks, and user manuals, that explain how to work with the Go-Lab authoring platform and how to publish your own ILS once it is finished.

Scenarios

Sort

Newest

Sort

Subject Domains

- Astronomy (26)
- Biology (35)
- Chemistry (32)
- Engineering (12)
- Environmental Education (24)
- Geography And Earth Science (18)
- Mathematics (21)
- Physics (119)
- Technology (15)

Big Ideas Of Science

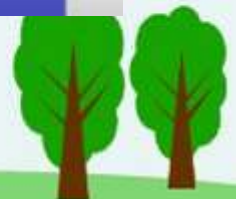
Large Hadron Collider - Why It Is Needed And How It Works. Scenario-Six Thinking Hats

★★★★★ Rating: 5 - 4 votes

The significance of the ILS is defined by the demand for the new up-to-date knowledge and abilities of the students, in particular for their understanding of the importance of the Large Hadron Collider in the

Vernier Calliper

★★★★★ No votes have been submitted yet.

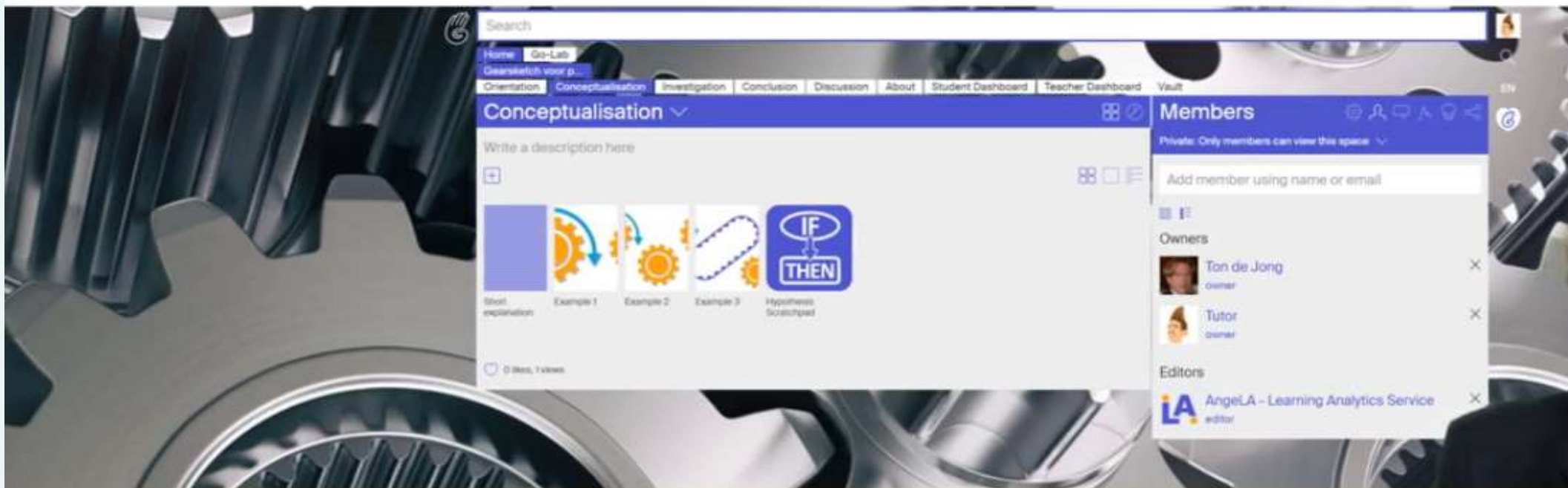


INQUIRY LEARNING SPACES

- Inquiry Spaces: a combination of online labs, apps, and learning resources in a structured online student environment, customizable according to your lesson plans and the needs of your students.



GRAASP.EU (AUTHORING PLATFORM)



GO-LAB AUTHORIZING PLATFORM

- Using the Go-Lab Authoring Platform you can create personalized Inquiry Learning Spaces (ILSs) to enrich your classroom activities with appealing online experiments and demos:
- **Create your lesson plan:** assemble online labs, learning apps, and resources of your choice, and share the Inquiry Learning Space with your students.
- **Set up learning analytics:** monitor the progress of your students and provide assistance. Promote self-reflection and peer-assessment.
- **Work together with your colleagues:** share your ideas, and publish results. Motivate your students to work collaboratively as well



A SHORT TOUR OF GO-LABZ

Activities Firefox Web Browser Sat 14:26 Home | Golabz - Mozilla Firefox


Getting Started with MIT MIT App Inventor Screenshot (Apr 4, 2020 2 X My Drive - Google Drive Home | Golabz

https://www.golabz.eu

GO-LAB Labs Apps Spaces Authoring Support Premium About News EN




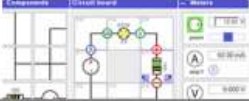
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LAB **APP** **LAB** **LAB**



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[Read more](#) **OK**

A SHORT TOUR OF GRAASP.EU

Co-funded by the

GRAASP.EU (AUTHORING PLATFORM)

The screenshot displays the GRAASP.EU authoring platform interface. At the top, there is a search bar and a navigation menu with options: Home, Go-Lab, Geensketch voor p..., Orientation, Conceptualisation, Investigation, Conclusion, Discussion, About, Student Dashboard, Teacher Dashboard, and Vault. The main content area is titled "Conceptualisation" and includes a text input field "Write a description here". Below this, there are five icons representing different stages: "Short explanation", "Example 1", "Example 2", "Example 3", and "Hypothesis Sketchpad". The "Hypothesis Sketchpad" icon features an "IF THEN" logic diagram. On the right side, a "Members" panel is visible, showing a list of users: "Ton de Jong" (owner), "Tutor" (owner), and "AngeLA - Learning Analytics Service" (editor). The background of the interface is a grayscale image of interlocking gears.



STAY SAFE & HAPPY LEARNING



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