

Go-Lab

Global Online Science Labs for Inquiry Learning at School

Collaborative Project in European Union's Seventh Framework Programme

Grant Agreement no. 317601



Appendix 1: Analysis of Existing Repositories and Federations of Online Labs

1. PhET



PhET

URL: <http://phet.colorado.edu>

Short Description: *PhET* provides access to physics virtual labs, referred as simulations. It has been developed by PhET research team at the University of Colorado Boulder. Currently, PhET includes one hundred twenty-five (125) interactive simulations and two hundred sixty-six (266) relative activities.



Searching/Browsing Mechanism

The searching/browsing mechanism of PhET includes **4 searching/browsing elements**, as presented in **Fehler! Verweisquelle konnte nicht gefunden werden..**

Table 1. PhET Searching/Browsing Elements for Labs

Searching Element	Description
Publication Date	This searching/browsing element is related with the term “ <i>New Sims</i> ” that is presented to the searching/browsing mechanism and denotes the date that the lab was published to the repository.
Subject Domain	This searching/browsing element refers to the lab’s subject domain (i.e., forces and motion, energy etc.)
Grade Level	This searching/browsing element refers to the grade level for which the lab can be used
Language(s)	This searching/browsing element is related with the term “ <i>Translated Sims</i> ” that is presented to the searching/browsing mechanism and denotes the languages that the lab is available



Figure 1. Searching/Browsing Mechanism of PhET



Lab Owner Metadata

PhET's online labs are described with **10 metadata elements**, as presented in Table 2

Table 2. PhET Lab Owner Metadata Elements

Lab Metadata Element	Description
Lab Title	This metadata element refers to the title of the lab
Lab Description	This metadata element provides a textual description of the lab.
Language(s)	This metadata element refers to the languages that the lab is available
Version	This metadata element provides information about the current version of the lab.
Publication Date	This searching element refers to the date that the lab was published to the repository.
Subject Domain	This metadata element refers to the lab's subject domain (i.e., forces and motion, energy etc.)
Grade Level	This metadata element refers to the grade level for which the lab can be used.
Educational Objectives	This metadata element refers to the educational objectives that the lab addresses
Technical requirements	This metadata element refers to the technical requirements that are needed for

<i>Lab Metadata Element</i>	<i>Description</i>
	using the lab.
Contributor(s)	This metadata element refers to the entities that have contributed to the current state of the lab.



Social Metadata

Social metadata elements are not provided by PhET.



Additional Resources and Apps

PhET's online labs are linked with additional resources, presented in. On the other hand, there are not additional apps linked with PhET's online labs.

Table 3. PhET Additional Resources and Apps

Additional Resources		Supportive Apps
Student's Materials	Teacher's Material	
No	Yes (Lesson Plan)	No

2. Library of Labs (LiLa)



Library of Labs (LiLa)

URL: <https://www.library-of-labs.org/startPage/startPage.action>

Short Description:

The Library of Labs (LiLa) is an initiative of eight universities and three enterprises, for the mutual exchange of and access to both virtual and remote labs. LiLa currently includes 273 virtual labs, referred as virtual labs. Many of the experiments originated from other federations like PhET.



Searching/Browsing Mechanism

The searching/browsing mechanism of LiLa includes **2 searching/browsing elements**, as presented in Table 4.

Table 4. LiLa Searching/Browsing Elements for Labs

Searching Element	Description
Subject Domain	This searching/browsing element is related with the term “ <i>Scientific Field</i> ” that is presented to the searching/browsing mechanism and it denotes the lab’s subject domain (i.e., mathematics, physics, chemistry etc.)
Language(s)	This searching/browsing element refers to the languages that the lab is available.

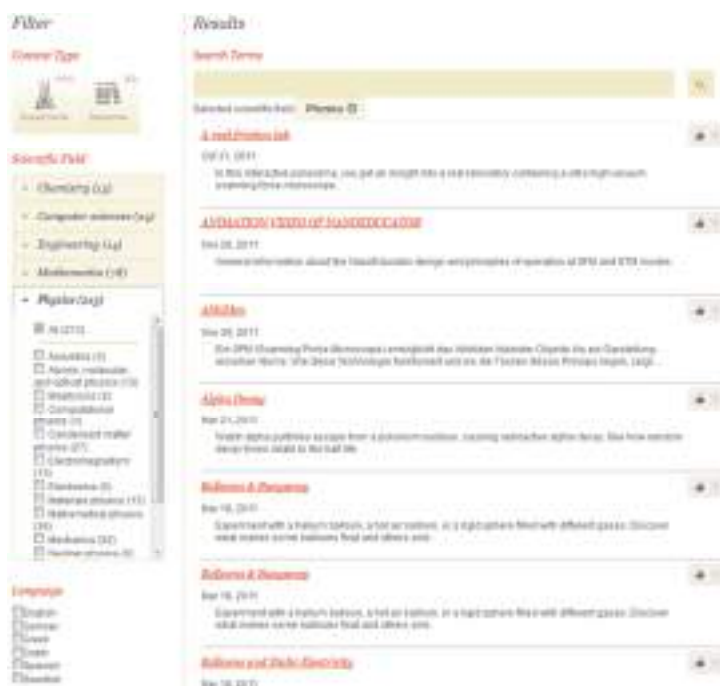


Figure 2. Searching/Browsing Mechanism of LiLa



Lab Owner Metadata

LiLa’s online labs are described with 17 metadata elements, as presented in Table 5

Table 5. LiLa's Lab Owner Metadata Elements

<i>Lab Metadata Elements</i>	<i>Description</i>
Lab Title	This metadata element refers to the title of the lab
Alternative Title	This metadata element refers to an alternative title of the lab
Lab Description	This metadata element provides a textual description of the lab.
Language(s)	This metadata element refers to the languages that the lab is available
Subject Domain	This metadata element refers to the lab's subject domain (i.e., mathematics, physics, chemistry etc.)
Keywords	This metadata element refers to a set of terms that characterize the content of the lab..
Date Created	This metadata element refers to the date that the lab was created.
Last Modified	This metadata element refers to the latest modification date of the lab.
Prerequisites	This metadata element refers to prerequisites that should be have been fulfilled in order to use the lab
Technical Format	This metadata element refers to lab's technical format.
Access Rights	This metadata element refers to the lab's access permissions (i.e., free or registration etc.).
License	This metadata element provides information about copyrights and restrictions applied to the use of the lab.
Cost	This metadata element refers to any payment required for using the lab (i.e., free or payment).
Contributor(s)	This metadata element refers to the entities that have contributed to the current state of a lab.
Rights Holder	This metadata element refers to those entities that hold the lab's copyrights

<i>Lab Metadata Elements</i>	<i>Description</i>
Lab Category	This metadata element refers to the specific kind of the lab (i.e., virtual or remote lab)
Contact Details	This metadata elements provides information about contact details of the person or the organization responsible for the lab



Social Metadata

End-users are able to provide **textual comments** reflecting their opinions regarding an online lab. Additionally, there are **“like” ratings** by end-users and they can provide their impressions about the quality of an online lab.



Figure 3. LiLa's Social Metadata



Additional Resources and Apps

LiLa's online labs are linked with additional resources, as presented in Table 6. On the other hand, there are not additional apps linked with LiLa's online labs.

Table 6. LiLa Additional Resources and Apps

Additional Resources		Supportive Apps
Student's Materials	Teacher's Material	
Yes (Student's Guide, Assignment Sheet)	Yes (Lesson Plan)	No

3. Labshare

	Labshare
URL:	http://www.labshare.edu.au/home
Short Description:	The Labshare provides access to remote labs, referred as rigs. The Labshare Institute is a non-for-profit institute that was established to ensure sustainability in leveraging the use of remotely accessible laboratory technologies within the education sector. Currently, Labshare includes 11 remote labs for the engineering field.

Searching/Browsing Mechanism

The searching/browsing mechanism of LabShare includes **3 searching/browsing elements**, as presented in Table 7.

Table 7. Labshare Searching/Browsing Elements for Labs

<i>Searching Elements</i>	<i>Description</i>
Lab Title	This searching/browsing element is related with the term “Rig” that is presented to the searching/browsing mechanism and demotes the title of the lab.
Subject Domain	This searching/browsing element is related with the term “Discipline” that is presented to the searching/browsing mechanism and demotes the lab’s subject domain (i.e., chemical engineering, geology, power engineering etc.)
Provider(s)	This searching/browsing element refers to the provider(s) of the lab

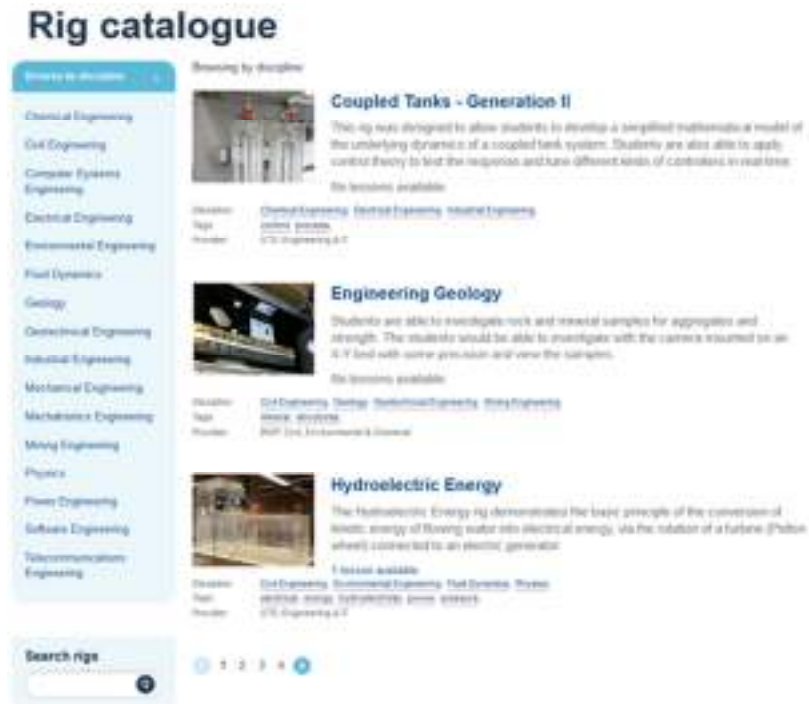


Figure 4. Searching/Browsing Mechanism of Labshare

Lab Owner Metadata

Labshare’s remote labs are described with 10 metadata elements, as presented in Table 8.

Table 8. Labshare Lab Owner Metadata Elements

Lab Metadata Elements	Description
Lab Title	This metadata element refers to the title of the lab
Version	This metadata element provides information about the current version of the lab.
Lab Description	This metadata element provides a textual description of a lab.
Status	This metadata element provides information about the availability status of the lab (i.e., available, offline, online, etc.).
Subject Domain	This metadata element refers to the lab’s subject domain (i.e., forces and motion, energy etc.)
Keywords	This metadata element refers to a set of terms that characterize the content of the

<i>Lab Metadata Elements</i>	<i>Description</i>
	lab.
Provider(s)	This metadata element provides information about the provider of the lab
Hosted By	These metadata elements provide information about the hosting organization and the designer of the lab
Rig Concept	
Rig Designer	



Social Metadata

Social metadata elements are not provided by Labshare.




Additional Resources and Apps

Labshare's online labs are linked with additional resources, as presented in Table 9. On the other hand, there are not additional apps linked with Labshare's online labs.

Table 9. Labshare Additional Resources and Apps

Additional Resources		Supportive Apps
Student's Materials	Teacher's Material	
No	Yes (Lesson Plan)	No

4. Open Source Physics (OSP)



Open Source Physics (OSP)

URL: <http://www.compadre.org/osp>

Short Description: OSP provides access to virtual labs, referred as simulations. Open Source Physics (OSP) is a federation of computational simulations that allow students to experiment and get actively involved in modelling and computation. The simulations in OSP are Java-based. Currently, there are about 100 simulations in OSP.

Searching/Browsing Mechanism

The searching/browsing mechanism of OSP includes 3 searching/browsing elements, as presented in Table 10.

Table 10. OSP Searching/Browsing Elements for Labs

Searching Elements	Description
Subject Domain	This searching/browsing element refers to the lab's subject domain (i.e., astronomy, electricity etc.)
Technical Format	This searching/browsing element is related with the term " <i>OSP Type</i> " that is presented to the searching/browsing mechanism and denote to lab's technical format.
Grade Level	This searching/browsing element is related with the term " <i>Context</i> " that is presented to the searching/browsing mechanism and denote to the grade level for which the lab can be used.

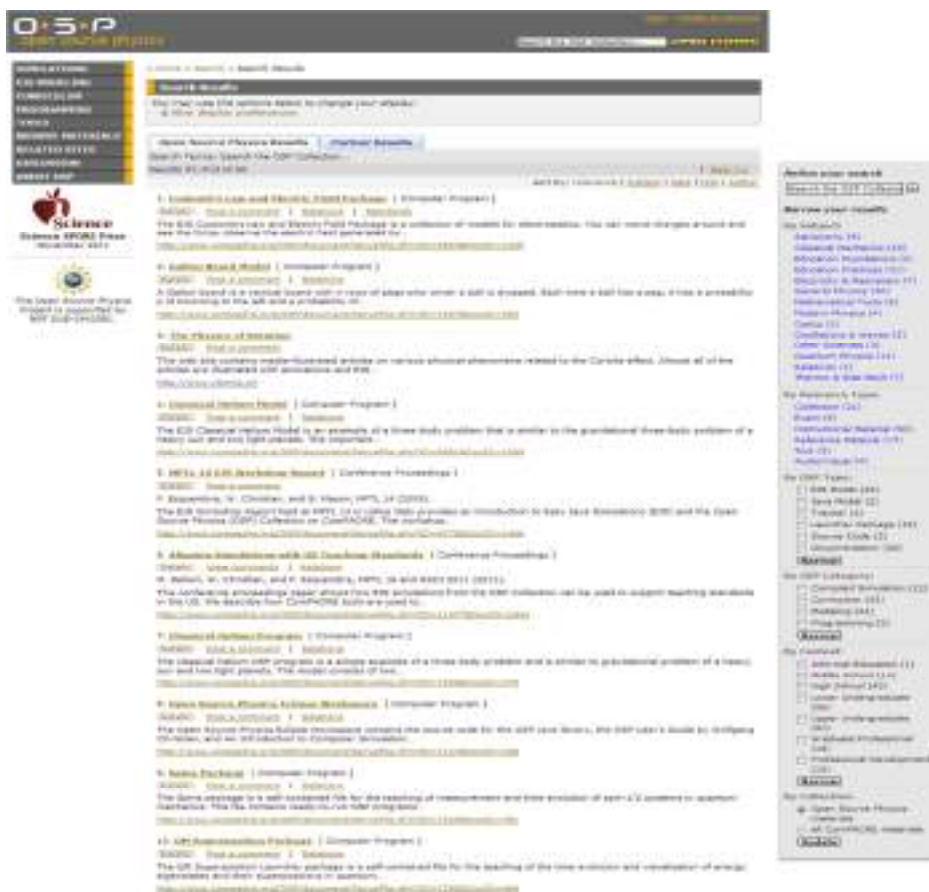


Figure 5. Searching/Browsing Mechanism of OSP

Lab Owner Metadata

OSP's online labs are described with 13 metadata elements, as presented in Table 11.

Table 11. OSP Lab Owner Metadata Elements

Lab Metadata Elements	Description
Lab Title	This metadata element refers to the title of the lab
Lab Description	This metadata element provides a textual description of a lab.
Subject Domain	This metadata element refers to the lab's subject domain (i.e., forces and motion, energy etc.)
Grade Level	This metadata element refers to the grade level for which the lab can be used

<i>Lab Metadata Elements</i>	<i>Description</i>
Intended End User Role	This metadata element refers to the principal users for whom the lab was designed.
Keywords	This metadata element refers to a set of terms that characterize the content of the lab.
Technical Format	This metadata element refers to lab's technical format.
License	This metadata element provides information about copyrights and restrictions applied to the use of the lab.
Access Rights	This metadata element refers to lab's permissions (i.e., free or registration).
Rights Holder	This metadata element refers to those entities that hold the lab's copyrights.
Cost	This metadata element refers to any payment required for using the lab (i.e., free or payment).
Last Modified	This metadata element refers to the latest modification date of lab.



Social Metadata

End-users are able to provide **textual comments** reflecting their opinions regarding an online lab. Additionally, OSP provides to its end-users with a **5 star rating system** to evaluate the quality of an online lab.



Figure 6. OSP's Social Metadata


Additional Resources and Apps

OSP's online labs are linked with additional resources, as presented in Table 12. On the other hand, **there are not additional apps** linked with OSP's online labs.

Table 12. OSP's Additional Resources and Apps


Additional Resources		Supportive Apps
Student's Materials	Teacher's Material	
Yes (Student's Guide)	Yes (Lesson Plan)	No

5. Smart Science


Smart Science®
Smart Science
A New Era in Science Education

URL: <http://www.smartscience.net/SmartScience/SmartScience.html>

Short Description: *Smart Science Labs (SSL)* is a federation of remote labs that provides 164 remote labs in the subject domains of biology, chemistry, physics, earth science and a set of introductory labs. It has been developed by the company *Smart Science Education*.



Searching/Browsing Mechanism

Smart Science searching/browsing mechanism includes only **1 searching/browsing element**, as presented in Table 13.

Table 13. Smart Science Searching/Browsing Element for Labs

Searching Elements	Description
Subject Domain	This searching/browsing element refers to the lab's subject domain (i.e., astronomy, electricity etc.)



Figure 7. Searching/Browsing Mechanism of Smart Science



Lab Owner Metadata

Smart Science online labs are described with 4 metadata elements, as presented in Table 14.

Table 14. Smart Science Lab Owner Metadata Elements

<i>Lab Metadata Elements</i>	<i>Description</i>
Lab Title	This metadata element refers to the title of the lab
Lab Description	This metadata element provides a textual description of a lab.
Subject Domain	This metadata element refers to the lab's subject domain (i.e., forces and motion, energy etc.)
Educational Objectives	This metadata element refers to the educational objectives that the lab addresses



Social Metadata

Social metadata elements are not provided by *Smart Science Labs*.




Additional Resources and Apps

Smart Science online labs are linked with additional resources, as presented in Table 15. Furthermore additional apps are linked with Smart Science online labs, these apps are used for processing collected data, creating hypothesis and writing reports.

Table 15. Smart Science Additional Resources and Apps

Additional Resources		Supportive Apps
Student's Materials	Teacher's Material	
Yes (Glossary, Student's Guide, Tutorial)	Yes (Lesson Plan)	Yes

6. Molecular Workbench

 Molecular Workbench	
URL:	http://mw.concord.org/modeler/
Short Description:	Molecular Workbench provides access to virtual labs, namely as simulations. It has been developed by the Concord Consortium. Currently, it includes 946 virtual labs.

Searching/Browsing Mechanism

Molecular Workbench searching/browsing mechanism includes only **1 searching/ browsing element**, as presented in Table 16.

Table 16. Molecular Workbench Searching/Browsing Elements for Labs

<i>Searching Elements</i>	<i>Description</i>
Subject Domain	This searching/browsing element refers to the lab's subject domain (i.e., astronomy, electricity etc.)

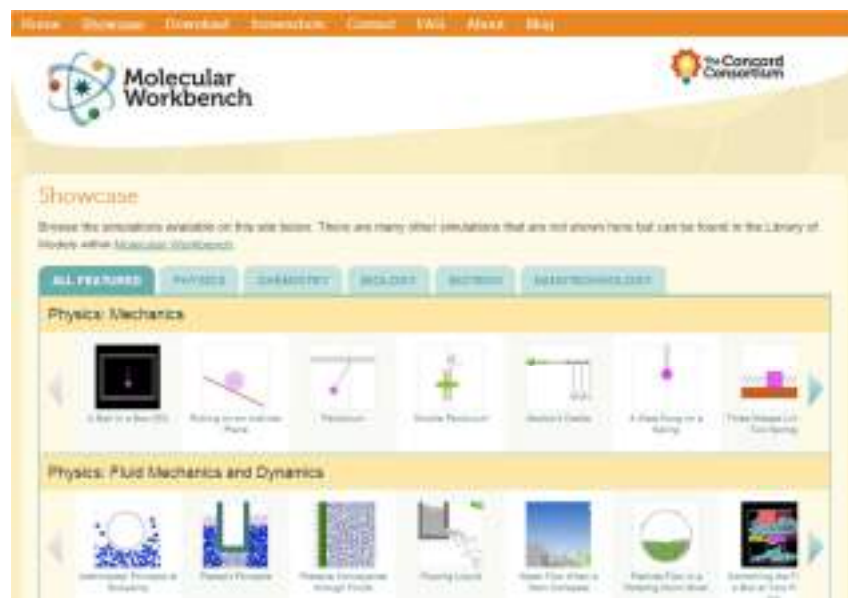


Figure 8. Searching/Browsing Mechanism of Molecular Workbench



Lab Owner Metadata

Molecular Workbench online labs are described with **3 metadata elements**, as presented in Table 17.

Table 17. Molecular Workbench Lab Owner Metadata

<i>Lab Metadata Elements</i>	<i>Description</i>
Lab Title	This metadata element refers to the title of the lab
Lab Description	This metadata element provides a textual description of a lab.
Subject Domain	This metadata element refers to the lab's subject domain (i.e., forces and motion, energy etc.)



Social Metadata

Social metadata elements are not provided by Molecular Workbench.



Additional Resources and Apps

Molecular Workbench online labs are linked with additional resources, as presented in Table 18. On the other hand, the “My Molecular Workbench” app is offered as a supportive app to the teachers for creating and publishing simulations and activities, while in parallel they can collect reports from students or how students are performing with interactive activities.

Table 18. Molecular Workbench Additional Resources and Apps

Additional Resources		Supportive Apps
Student's Materials	Teacher's Material	
No	Yes (Lesson Plan)	Yes


7. Explore Learning



Explore Learning

URL: <http://www.explorelearning.com>

Short Description: Explore Learning provides virtual labs, called as “Gizmos” for mathematics and science in grades 3-12. It has been developed by ExploreLearning company. Currently, it includes about 450 virtual labs.



Searching/Browsing Mechanism

The searching/browsing mechanism of Explore Learning includes 2 **searching/browsing elements**, as presented in Table 19.

Table 19. Explore Learning Searching/Browsing Elements

Searching Elements	Description
Subject Domain	This searching/browsing element is related with the terms “ <i>Academic Standard</i> ” and “ <i>Textbook</i> ” presented to the searching/browsing mechanism and denotes the lab’s subject domain (i.e., forces and motion, energy etc.)
Grade Level	This searching/browsing element refers to the grade level for which the lab can be used



Figure 9. Searching/Browsing Mechanism of Explore Learning



Lab Owner Metadata

Explore Learning online labs are described with **6 metadata elements**, as presented in Table 20.

Table 20. Explore Learning Lab Owner Metadata Elements

<i>Lab Metadata Elements</i>	<i>Description</i>
Lab Title	This metadata element refers to the title of the lab
Lab Description	This metadata element provides a textual description of a lab.
Subject Domain	This metadata element refers to the lab's subject domain (i.e., forces and motion, energy etc.)
Grade Level	This metadata element refers to the grade level for which the lab can be used
Educational Objectives	This metadata element refers to the educational objectives that the lab addresses
Keywords	This metadata element refers to a set of terms that characterize the content of the lab.



Social Metadata

Social metadata elements are not provided by Explore Learning.




Additional Resources and Apps

Explore Learning online labs are linked with additional resources, as presented in Table 21. On the other hand, there are not additional apps linked with Explore Learning online labs

Table 21. Explore Learning Additional Resources and Apps


Additional Resources		Supportive Apps
Student's Materials	Teacher's Material	
Yes (Assignment Sheet, Glossary)	Yes (Lesson Plan)	No

8. ChemCollective


ChemCollective

URL: <http://www.chemcollective.org/>

Short Description: *ChemCollective* provides access to virtual labs. It is an initiative lead by the Carnegie Mellon University. Currently, it includes 40 virtual labs for chemistry education.


Searching/Browsing Mechanism

The searching/browsing mechanism of ChemCollective includes **2 searching/browsing elements**, as presented in Table 22.

Table 22. ChemCollective Searching/Browsing Elements

<i>Searching Elements</i>	<i>Description</i>
Subject Domain	This searching/browsing element refers to the lab's subject domain (i.e., forces and motion, energy etc.)
Lab Category	This searching/browsing element refers to the specific kind of a lab



Figure 10. Searching/Browsing Mechanism of ChemCollective



Lab Owner Metadata

ChemCollective online labs are described with 8 metadata elements, as presented in Table 23

Table 23. ChemCollective Lab Owner Metadata Elements

Lab Metadata Elements	Description
Lab Title	This metadata element refers to the title of the lab
Lab Description	This metadata element provides a textual description of a lab.
Language(s)	This metadata element refers to the languages that the lab is available
Lab Category	This metadata element refers to the specific kind of a lab
Subject Domain	This metadata element refers to the lab's subject domain (i.e., forces and motion, energy etc.)
Difficulty	This metadata element refers to the level of difficulty of the lab.
Publication Date	This metadata element refers to the publication date of lab.
Contributor(s)	This metadata element refers to the entities that have contributed to the current state of

<i>Lab Metadata Elements</i>	<i>Description</i>
	the lab.



Social Metadata

Social metadata elements are not provided by ChemCollective.



Additional Resources and Apps

ChemCollective online labs are linked with additional resources, as presented in

Table 24. On the other hand, there are not additional apps linked with ChemCollective online labs.

Table 24. ChemCollective Additional Resources and Apps

Additional Resources		Supportive Apps
Student's Materials	Teacher's Material	
Yes (Assignment Sheet)	Yes (Lesson Plan)	No

9. Remotely Controlled Laboratories (RCL)

Remotely Controlled Laboratories (RCL)

URL: <http://rcl-munich.informatik.unibw-muenchen.de>

Short Description: Remotely Controlled Laboratories (RCLs) provide access to remote labs. They have been developed by RCLs project. Currently, this federation includes 17 remote labs on different topics of physics.



Searching/Browsing Mechanism

RCL does not provide a searching/browsing mechanism but only the list of available online labs without any categorization.



Lab Owner Metadata

RCL online labs are described with **4 metadata elements**, as presented in Table 25

Table 25. RCLs Lab Owner Metadata Elements

<i>Lab Metadata Elements</i>	<i>Description</i>
Lab Title	This metadata element refers to the title of the lab
Lab Description	This metadata element provides a textual description of a lab.
Location URL	This metadata element provides a URL for accessing the lab.
Publication Date	This metadata element refers to the publication date of the ab.



Social Metadata

Social metadata elements are not provided by RCL.



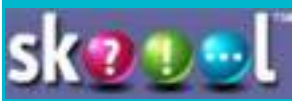
Additional Resources and Apps

RCL online labs are linked with additional resources, as presented in Table 26. On the other hand, there are not additional apps linked with RCL online labs.

Table 26. RCLs Additional Resources and Apps

Additional Resources		Supportive Apps
Student's Materials	Teacher's Material	
Yes (Student's Guide)	Yes (Lesson Plan)	No

10. Skool



Skool

URL: <http://skool.com>

Short Description: Skool is an initiative of Intel in collaboration with other national institutes. It provides access to a large amount of virtual labs for different curriculum topics.

Searching/Browsing Mechanism

The searching/browsing mechanism of Skool includes **2 searching/browsing elements**, as presented in Table 27.

Table 27. Skool Searching/Browsing Elements

<i>Searching Elements</i>	<i>Description</i>
Subject Domain	This searching/browsing element refers to the lab's subject domain (i.e., biology, math, chemistry etc.)
Grade Level	This searching/browsing element refers to the grade level for which the lab can be used



Figure 11. Searching/Browsing Mechanism of Skool



Lab Owner Metadata

Skool online labs are described with **5 metadata elements**, as presented in Table 28.

Table 28. Skool Lab Owner Metadata Elements

Lab Metadata Elements	Description
Lab Title	This metadata element refers to the title of the lab
Lab Description	This metadata element provides a textual description of a lab.
Lab Category	This metadata element refers to the specific kind of a lab
Subject Domain	This metadata element refers to the lab's subject domain (i.e., forces and motion, energy etc.).
Grade Level	This metadata element refers to the grade level for which the lab can be used



Social Metadata

Social metadata elements are not provided by Skool.



Additional Resources and Apps

Skool online labs are linked with additional resources, as presented in Table 29. On the other hand, there are not additional apps linked with Skool online labs.

Table 29. Skool Additional Resources and Apps

Additional Resources		Supportive Apps
Student's Materials	Teacher's Material	
Yes (Assignment Sheet)	Yes (Lesson Plan)	No

11. iLabCentral



iLabCentral

URL: <http://ilabcentral.org>

Short Description: iLabCentral provides access to remote labs. It has been developed by the iLab Network, which constitute of universities and research centres.



Searching/Browsing Mechanism

The searching/browsing mechanism of iLabCentral includes **3 searching/browsing elements**, as presented in

Table 30.

Table 30. iLabCentral Searching/Browsing Elements

<i>Searching Elements</i>	<i>Description</i>
Subject Domain	This searching/browsing element refers to the lab's subject domain (i.e., forces and motion, energy etc.)
Grade Level	This searching/browsing element refers to the grade level for which the lab can be used
Technical Requirements	This searching/browsing element refers to the technical requirements that are needed for using the lab.

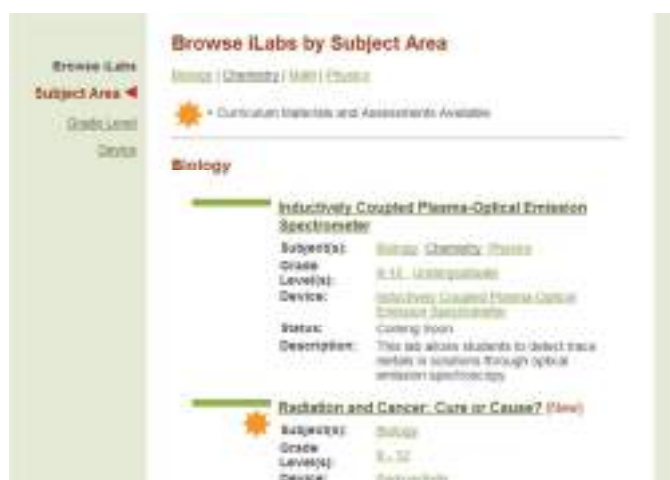


Figure 12: iLabCentral Searching/Browsing Mechanism

 **Lab Owner Metadata**


iLabCentral online labs are described with **7 metadata elements**, as presented in Table 31

Table 31. iLabCentral Lab Owner Metadata Elements

<i>Lab Metadata Elements</i>	<i>Description</i>
Lab Title	This metadata element refers to the title of the lab
Lab Description	This metadata element provides a textual description of a lab.
Subject Domain	This metadata element refers to the lab's subject domain (i.e., forces and motion, energy etc.)
Grade Level	This metadata element refers to the grade level for which the lab can be used
Technical Requirements	This metadata element refers to the technical requirements that are needed for using the lab.
Contributor(s)	This metadata element refers to the entities that have contributed to the current state of a lab
Contact Details	This metadata elements provides information about contact details of the person or the organization responsible for the lab

 **Social Metadata**

Social metadata elements are not provided by iLabCentral.

 **Additional Resources and Apps**

iLabCentral online labs are linked with additional resources, as presented in Table 32. On the other hand, there are not additional apps linked with iLabCentral online labs.

Table 32. iLabCentral Additional Resources and Apps

Additional Resources		Supportive Apps
Student's Materials	Teacher's Material	
Yes (Assignment Sheet)	Yes (Lesson Plan)	No

12. Lab2Go



Lab2Go

URL: <http://www.lab2go.net>

Short Description: Lab2Go repository includes virtual and remote labs for various subject domains. Currently, Lab2Go includes 208 virtual and remote labs.



Searching/Browsing Mechanism

The searching/browsing mechanism of Lab2Go includes **3 searching elements**, as presented in Table 33.

Table 33. Lab2Go Searching/Browsing Elements

<i>Searching Elements</i>	<i>Description</i>
Subject Domain	This searching/browsing element refers to the lab's subject domain (i.e., forces and motion, energy etc.)
Technical Requirements	This searching/browsing element refers to the technical requirements needed for using the lab
Provider	This searching/browsing element refers to the provider of the lab



Figure 13. Searching/Browsing Mechanism of Lab2Go



Lab Owner Metadata

Lab2Go online labs are described with **13 metadata elements**, as presented in Table 34

Table 34. Lab2Go Lab Owner Metadata Elements

<i>Lab Metadata Elements</i>	<i>Description</i>
Lab Title	This metadata element refers to the title of the lab
Lab Description	This metadata element provides a textual description of a lab.
Language(s)	This metadata element refers to the languages that the lab is available
Subject Domain	This metadata element refers to the lab's subject domain (i.e., forces and motion, energy etc.)
Status	This metadata element provides information about the availability status of the lab (i.e., online or offline).
Cost	This metadata element refers to any payment required for using the lab (i.e., free or payment)
Lab URL	This metadata element provides a URL for accessing the lab.
Provider	This searching element refers to the provider of the lab

<i>Lab Metadata Elements</i>	<i>Description</i>
Administrator	This metadata element refers to the person or to the organization which is responsible for a lab.
Publication date	This metadata element refers to the publication date of lab.
Access Rights	This metadata element refers to the lab's access permissions (i.e., free or registration).
Technical Requirements	This metadata element refers to the technical requirements that are needed for using the lab.



Social Metadata

Lab2Go provides to its end-users with a **5 star rating system** to evaluate the quality of the online labs that includes.



Additional Resources and Apps

Lab2Go online labs are linked with additional resources, as presented in Table 35. On the other hand, there are not additional apps linked with Lab2Go online labs.

Table 35. Lab2Go Additional Resources and Apps

Additional Resources		Supportive Apps
Student's Materials	Teacher's Material	
Yes (Student's Guide)	No	No

13. WebLab Deusto

WebLab Deusto

URL: <https://www.weblab.deusto.es/weblab/client/#page=home>

Short Description: WebLab-Deusto is an open-source platform developed by University of Deusto, which offers access to remote labs in the engineering field.

Searching/Browsing Mechanism

WebLab Deusto searching/browsing mechanism includes only **1 searching/browsing element**, as presented in Table 36.

Table 36. WebLab Deusto Searching/Browsing Elements

<i>Searching Elements</i>	<i>Description</i>
Subject Domain	This searching/browsing element refers to the lab's subject domain



Figure 14. Searching/Browsing Mechanism of Weblab Deusto



Lab Owner Metadata

WebLab Deusto labs are described with **3 metadata elements**, as presented in Table 37.

Table 37. WebLab Deusto Lab Owner Metadata Elements

<i>Lab Metadata Elements</i>	<i>Description</i>
Lab Title	This metadata element refers to the title of the lab
Lab Description	This metadata element provides a textual description of a lab.
Subject Domain	This metadata element refers to the lab's subject domain



Social Metadata

Social metadata elements are not provided by WebLab Deusto.



Additional Resources and Apps

WebLab Deusto online labs are linked with additional resources, as presented in Table 38. On the other hand, there are not additional apps linked with WebLab Deusto online labs.

Table 38. WebLab Deusto Additional Resources and Apps

Additional Resources		Supportive Apps
Student's Materials	Teacher's Material	
Yes (Tutorial)	No	No