

Labs Land

Experiment for real

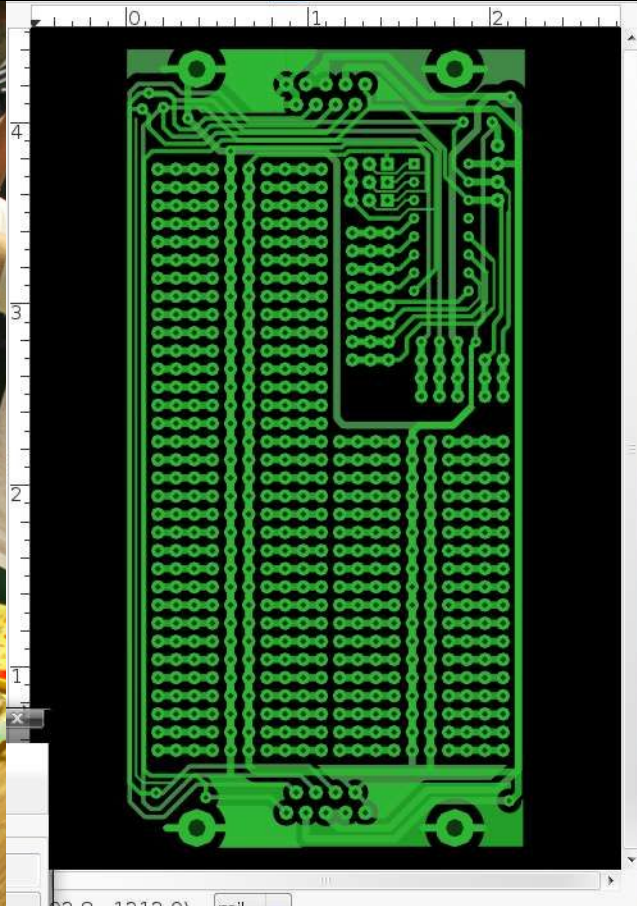
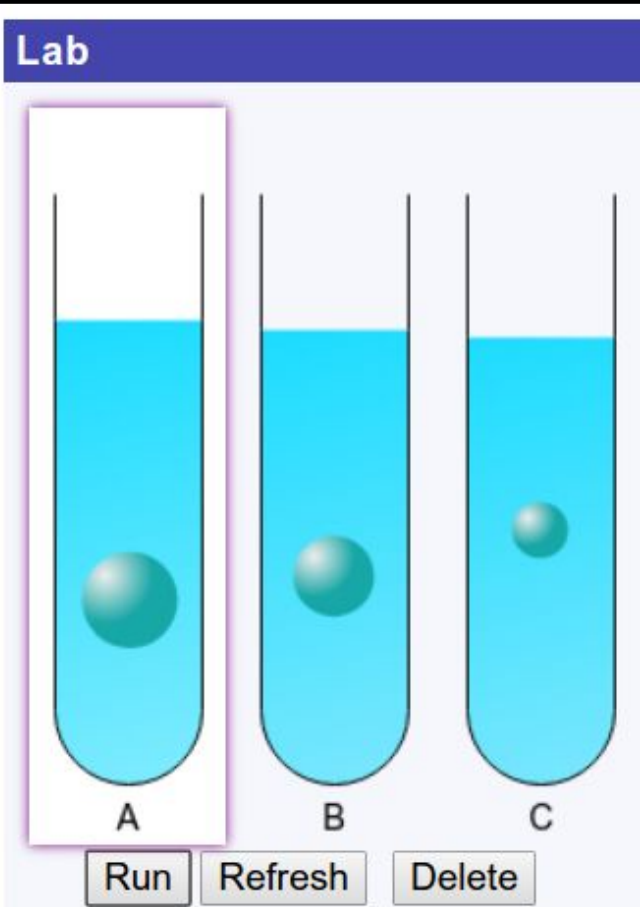
<https://labsland.com>



STEM education: choose expensive labs...

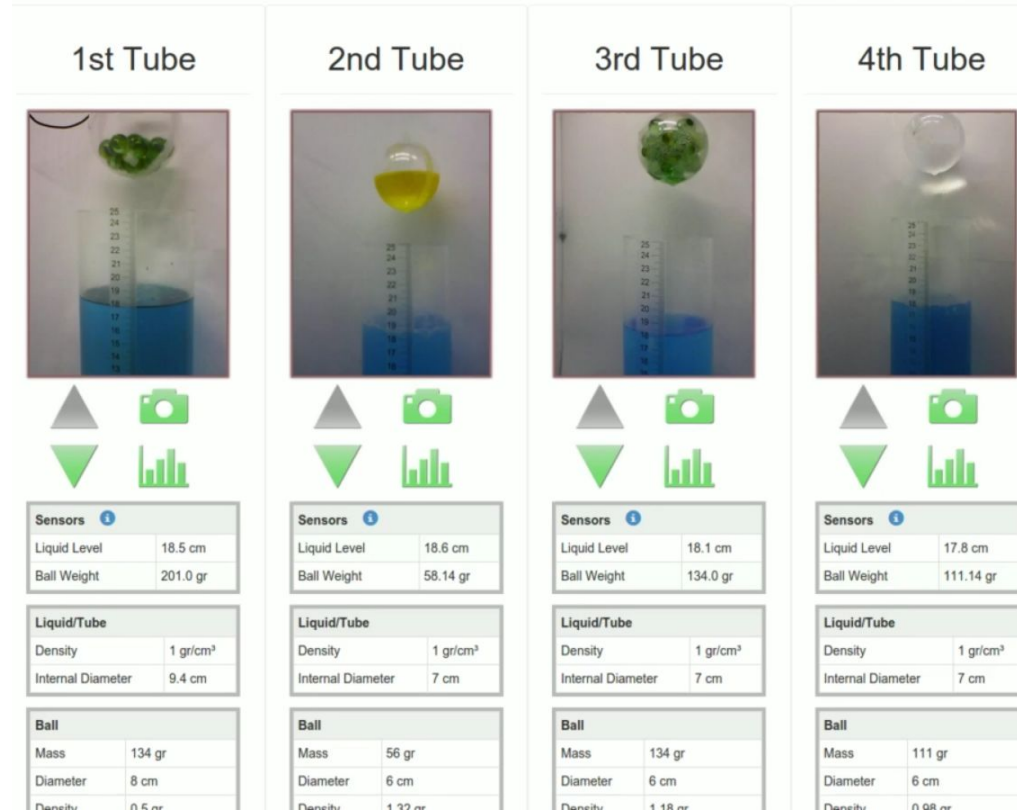


...or in online / mass: simulations or low-cost

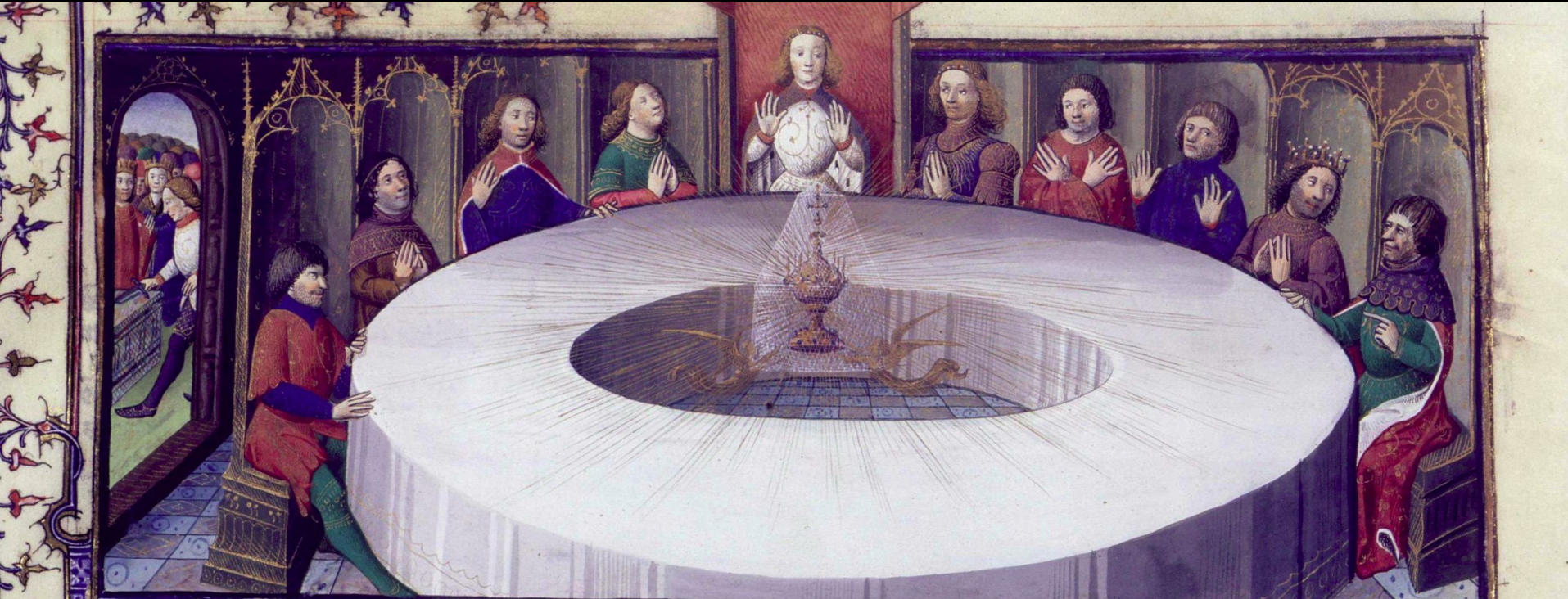


Alternative: internet-accessible laboratories

- **Software + hardware**
- Students access **real laboratories** located somewhere else **on the Internet** through their web browser
- **Not a simulation!**



holy grail of education labs



you have 3 labs + I have 3 labs = we have 6

technology developed, but not there yet



**incentives
for providers**



**trust
for consumers**



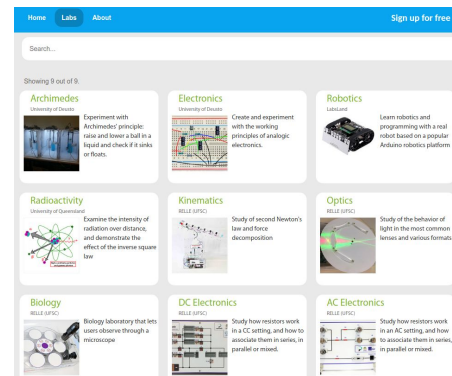
**easiness
for all**

Labs Land

- Spin-off of **University of Deusto**



- Marketplace of **Real laboratories**



developing trust



Two approaches:

- **Real-time labs:** keep track of **real availability**, provide **reliability**
- **Deferred labs:** assist in the **development** and provide **hosting**

Two types of real labs: real-time and deferred

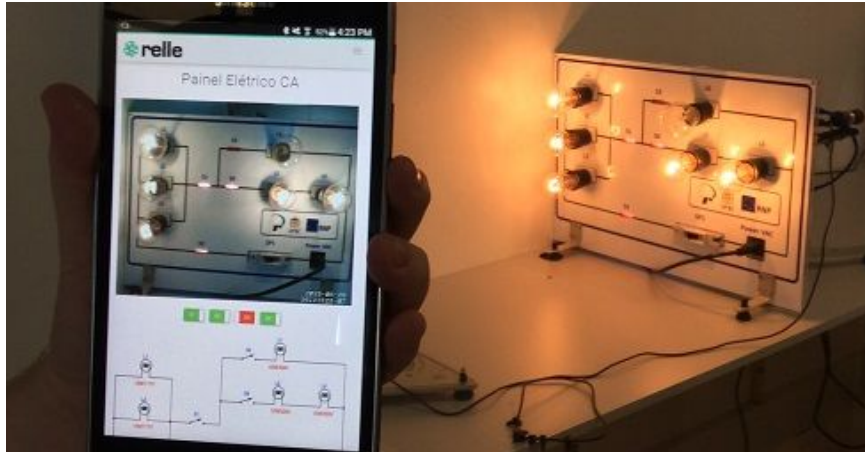


Robot arduino

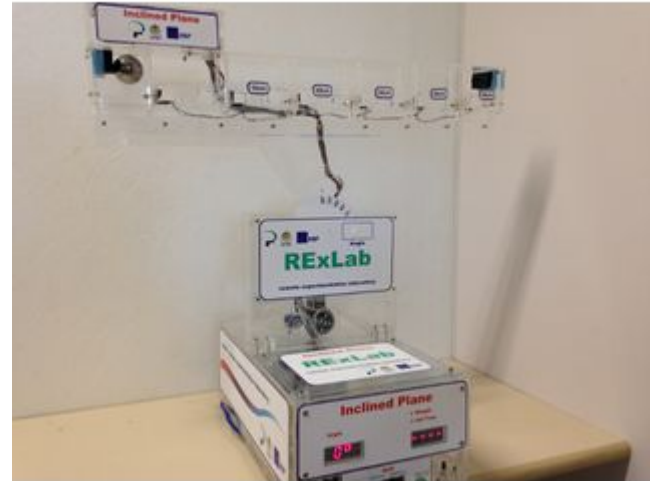


Archimedes

Deferred: where is the limit?



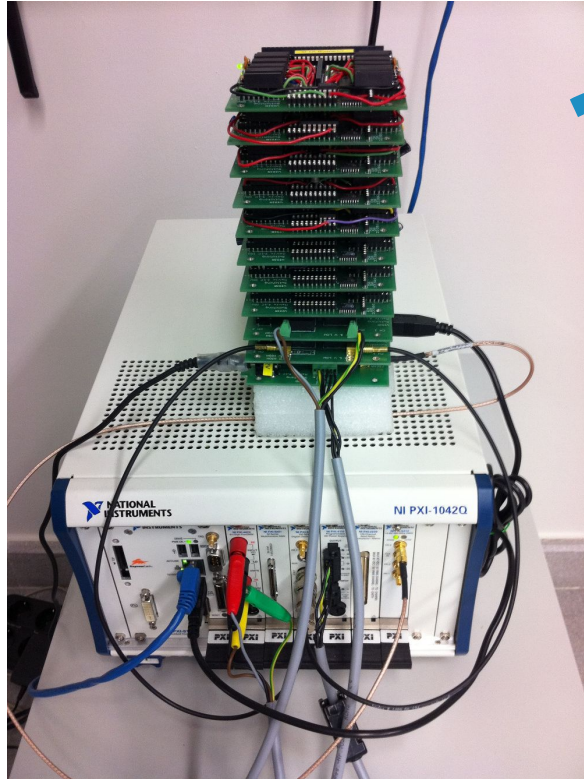
AC electronics



Inclined plane



Deferred: where is the limit?



Electronics



Radioactivity

Labs Land

- Summary:
 - **Consumers** can connect to real laboratories
 - **Providers**
 - We provide **free** services of development of laboratories
 - We find consumers for those laboratories

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