

**FARE**  
*F*ree *A*rchitecture for  
*R*emote *E*ducation

# International state of the art

**GESET** BETA Register | Log  
 Science videos and presentations from leading universities and institutions

Browse | Upload  Subject Age Type

**2 results found for engineering**

- ▼ Sub topic
  - Engineering (2)
    - Computer (2)
- ▼ Age
  - 14-19 and upwards (1)
  - 18-22 and upwards (1)


Welcome to the new [wise.berkeley.edu/](http://wise.berkeley.edu/) • Looking for the old WISE? Visit [wise2.berkeley.edu/](http://wise2.berkeley.edu/).

**WISE v4** *web-based inquiry science environment*

Username:  Sign In  
 Password:  Forgot Username or Password?

Welcome! New to WISE? Sign up for free Create WISE Account

**What is WISE?**

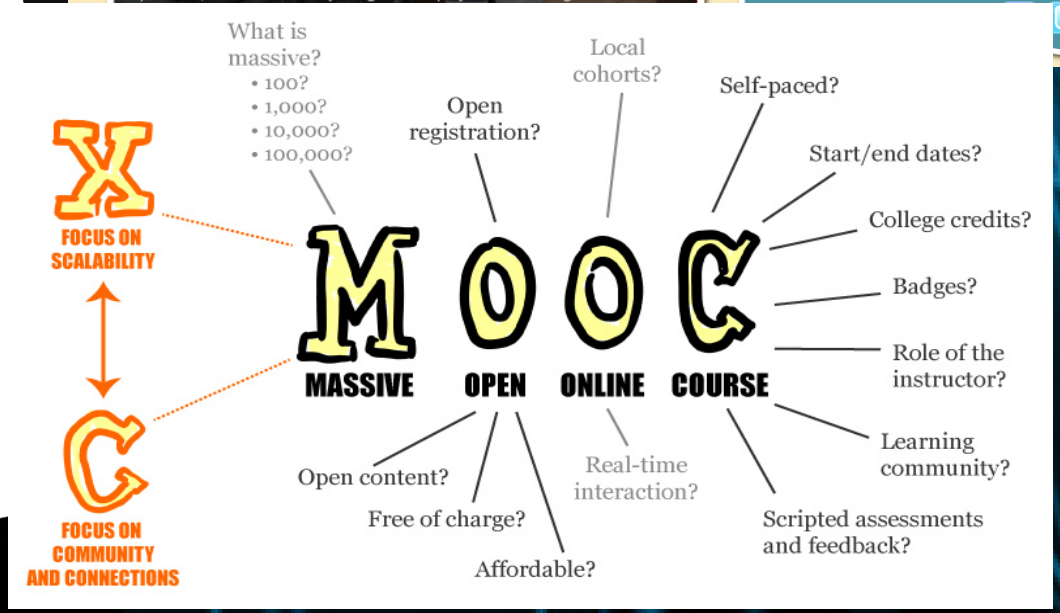


The Web-based Inquiry Science Environment is a research-based digital learning platform that fosters exploration and science inquiry. Students observe, analyze, experiment, and reflect as they navigate WISE projects. Teachers guide and

**What's New?**

Java Update 15-jen-2014  
 On January 14, 2014, a new version of Java was released. Please update your computer to this version to continue using simulations and probes in WISE. Click here to download the latest java.

WISE Image Annotator 27-feb-2013  
 Check out the new WISE image annotator. It is



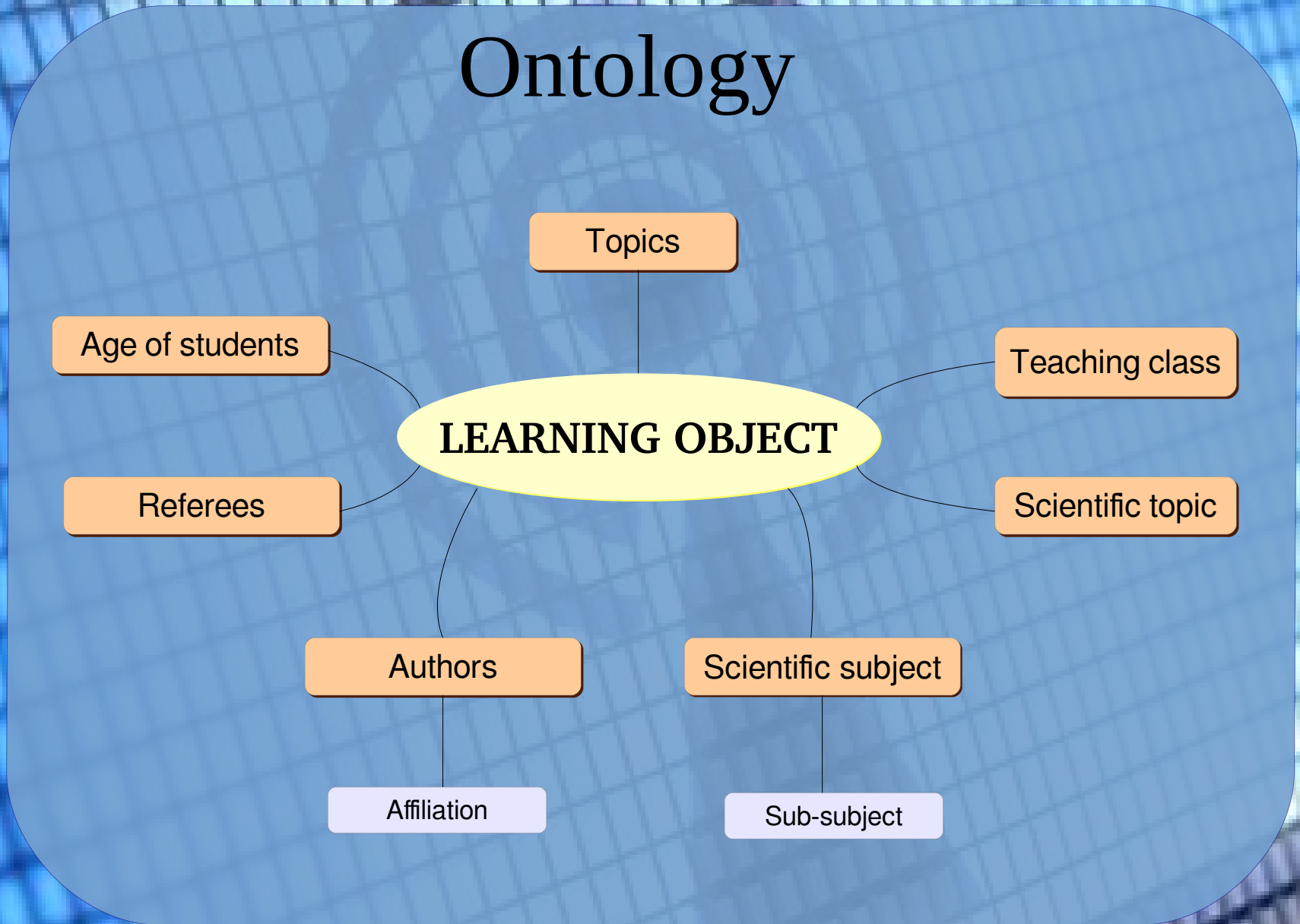
## Simple objects

- ▶ **Text + Images**
- ▶ **Video Lessons**
- ▶ **Videogames**

## Complex objects

- ▶ **Web Pages**
- ▶ **Entire courses**  
(typically Moodle based)

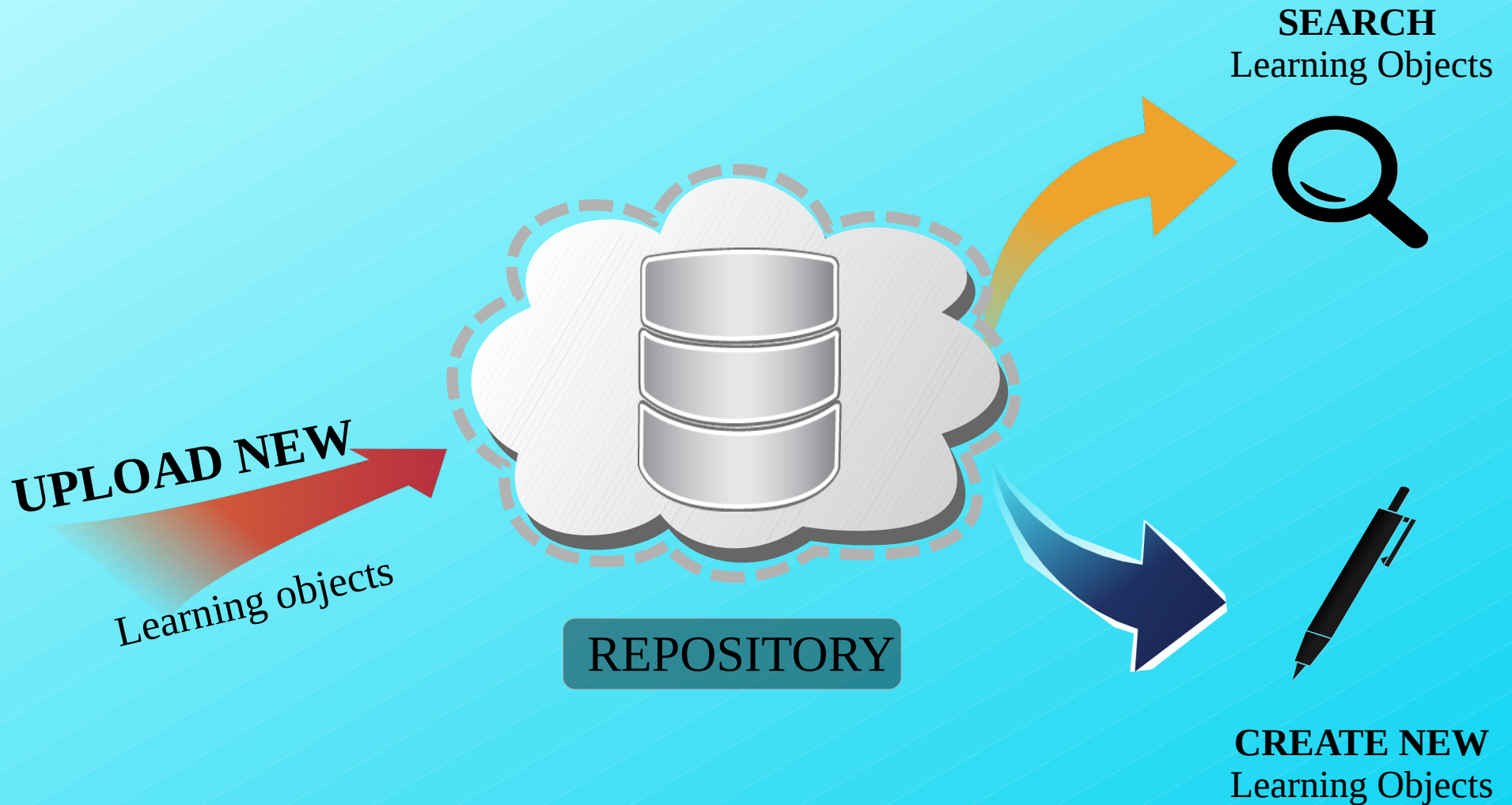
# Ontology



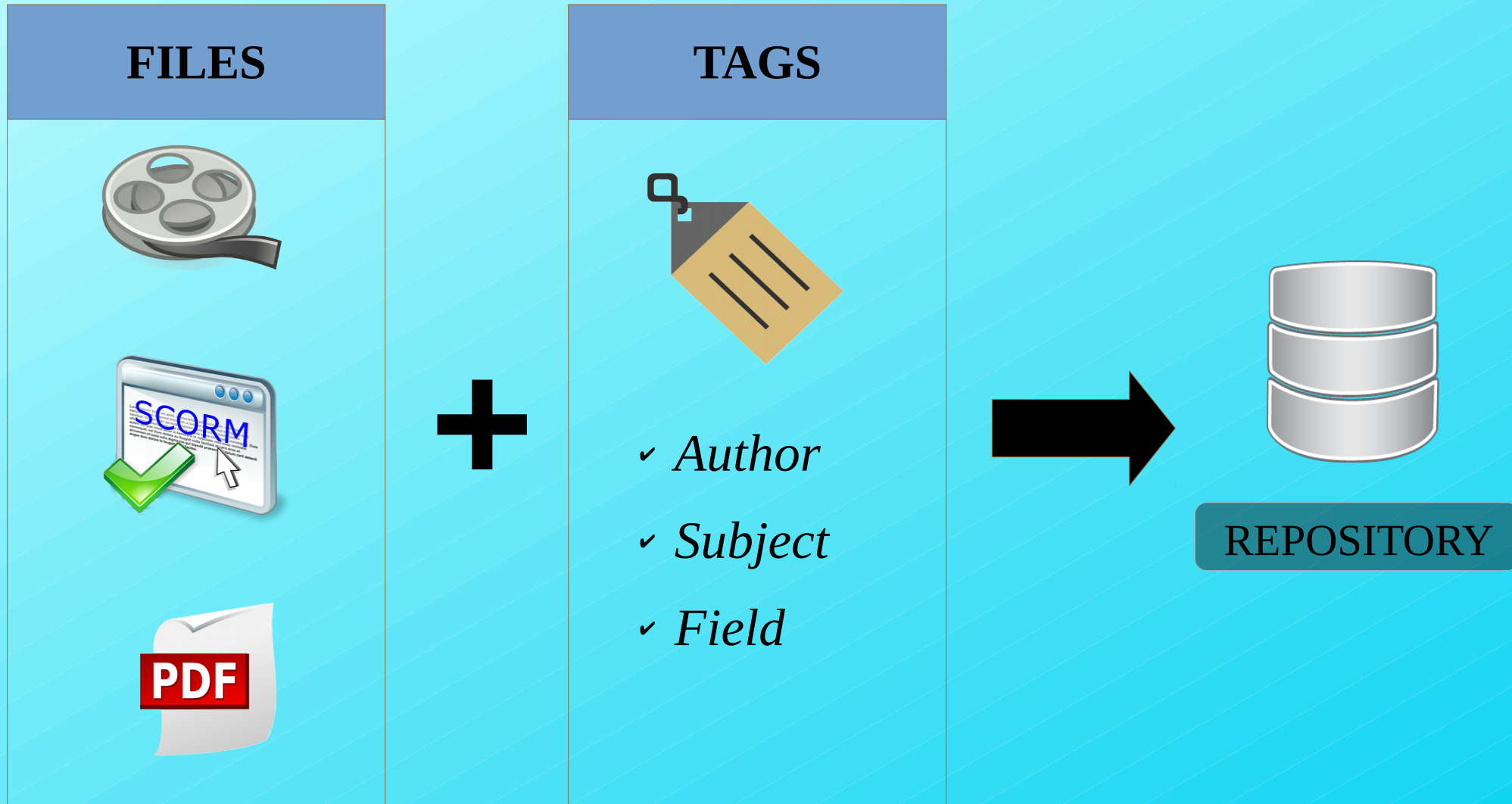


# Technological Objectives

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# Upload Phase



# Search Phase

Search....



*Create new course*



*Download locally*

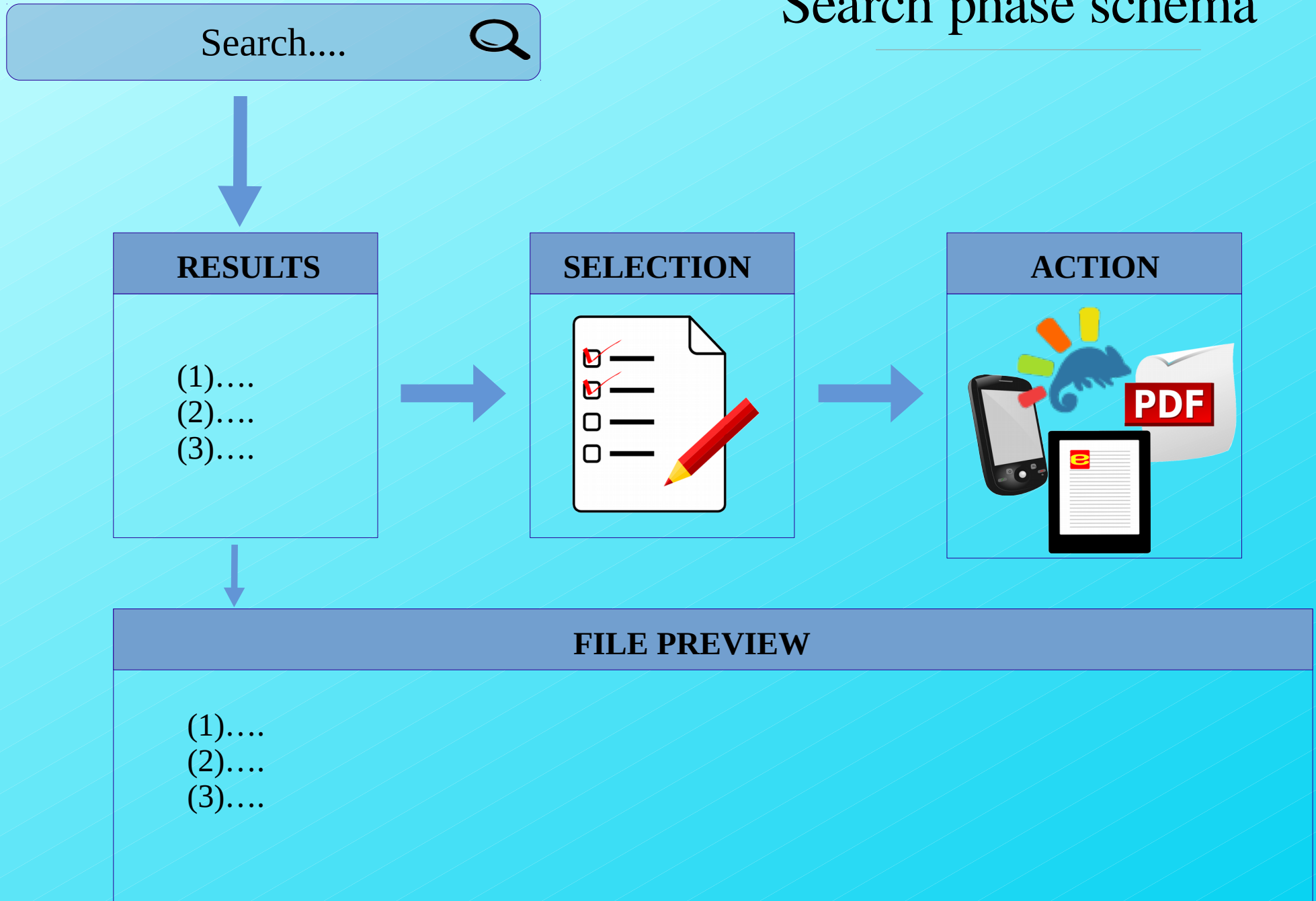


*Browse on mobile*



*Read on ebook*

# Search phase schema



# Books

→ From texts to printed page

→ From texts to e-books

(in *ePub3* format)

→ From videos to Pcs, tablets

and smartphones (*HTML5*)



# Everything will be FREE

As in free *SPEECH*...



and in free *BEER*!



# Licensing

## PLATFORM

- Run the program* +
- Study how it works* +
- Help your neighbor* +
- Distribute your own version* =

GNU GPL v3



## COURSEWARE

- Access the material* +
- Study it* +
- Share with your neighbor* +
- Distribute your remix* =

CC BY-SA 3.0 IT



FARE

# Distributed architecture



# The new courses for

## JUNIOR HIGH SCHOOL

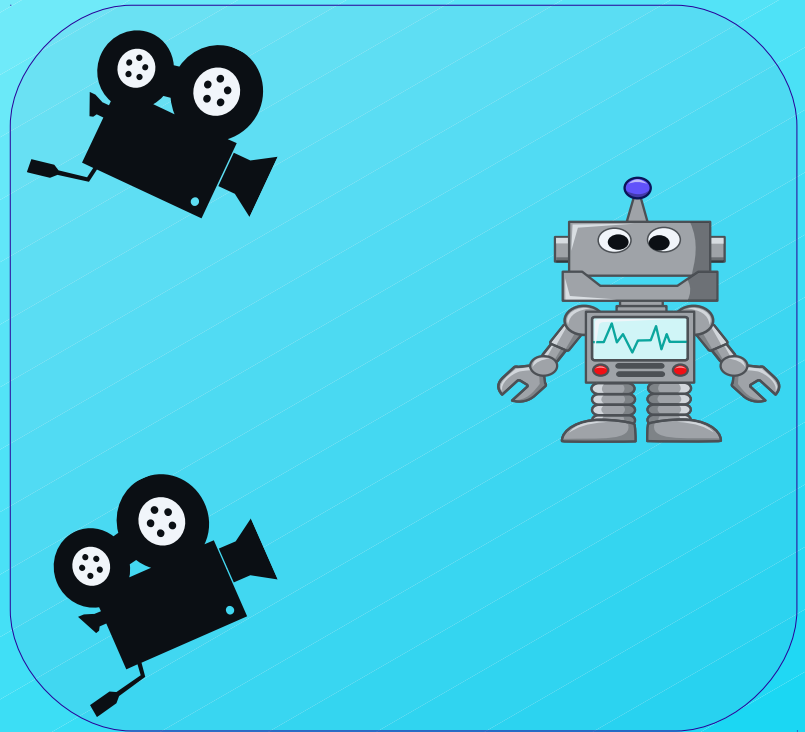
- ▶ Python programming
- ▶ The computer architecture
- ▶ Science courses



# Remote connection to a scientific laboratory



CLASSROOM



LABORATORY



# The new courses for

## HOSPITAL SCHOOL

- ▶ Several science courses



# The new courses for

TEACHERS

► Moodle course





# The new courses for

## LIFELONG LEARNING

► 150 scientific lectures



We hope that the new architecture  
will become the main standard  
for all the most important  
Italian MOOCs.