

Introduction



- CNR – ITD
- Contribution to the FLSN project:
 - Project Website (<http://fablabschoolnet.eu/>)
 - Learning Management System for Training materials (<http://edu.fablabschoolnet.eu/moodle>)
 - Learning model and assessment methodology
 - Learning Resource Repository
 - Supporting schools in running the pilots with AR technology
 - Organizing Training staff event on Augmented Reality in Italy
 - Dissemination and Sustainability
 - ArLectio®



Introduction to ARLectio®

- Analysis of the state of the art of commercially available AR tools with a focus on those that can support teachers and students in educational settings.
- Result: lack of free and easy-to-use tools for creating and exploiting AR educational content.
- Solution: design and development of ARLectio®



ARLectio® : As easy as possible...

- The main aim of this tool is to provide an easier way to produce and consume AR educational resources.
- Simple user interface.
- Few functions to implement AR educational contents on most media channels (images, video, text and 3D model).



ARLectio[®] architecture

- A web platform to manage a class and produce AR educational resources (used by teachers).
- A mobile app for iOS and Android to consume the educational resources.



ARLectio® web platform

- Manage the AR educational resources (create, edit, delete and organize).
- Accessible from <https://www.arlectio.eu/en/> and from <http://fablabschoolnet.eu/>
- The AR resource will have:
 - Subject;
 - Title;
 - Description;
 - Marker (photos, picture, QR code, ...);
 - Augmentation Type (Text , Image, Video, 3D Model);
 - Augmentation;
 - Position;
 - Last Updated (Automatically added).



ARLectio® web platform

Home Objectives Events Partners Outputs Login

Add Resource

Subject

Title

Description

Marker

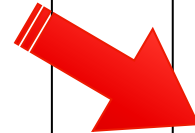
AugmentationType

Position ☐ Top Left
☐ Top Center
☐ Top Right
☐ Middle Left
☒ Middle Center
☐ Middle Right
☐ Bottom Left
☐ Bottom Center
☐ Bottom Right

FillMarker ☐ Yes
☒ No

Augmentation

LastUpdated Tuesday, 04 February 2020 14:22



Home Objectives Events Partners Outputs Login

My Resources

Search

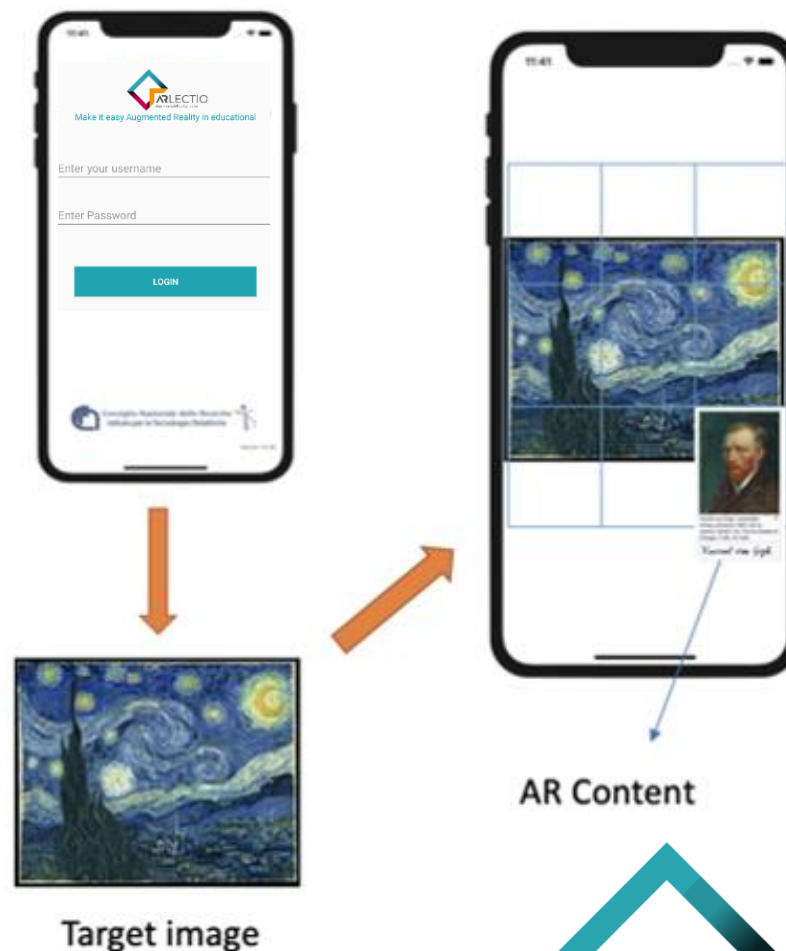
Marker	Title	Subjects	Type	Lastupdated	Actions
	Hex asphericon	Geometry	3D Model	26-11-2019 09:45:58	<input type="checkbox"/> <input type="checkbox"/>
	Pythagoras' theorem	Math	Video	31-01-2020 22:27:13	<input type="checkbox"/> <input type="checkbox"/>

Display #

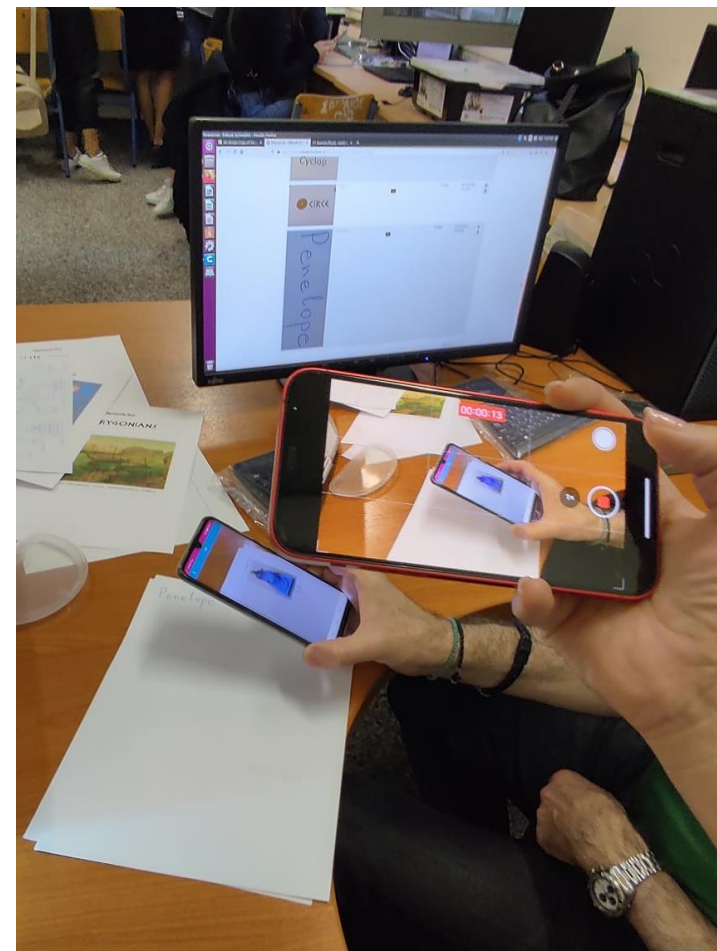


ARLectio® Mobile App

- The students access the educational AR resources created by their teaches.
- Resources are grouped by subjects.
- An interactive visual scanner is available to consume the educational contents associated to markers.



ARLectio® Mobile App



Speakers

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Thank you!



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