



SFUVET

SWISS FEDERAL UNIVERSITY
FOR VOCATIONAL EDUCATION
AND TRAINING

*Swiss excellence in vocational
education and training*

IVIDEO.EDUCATION

THE PAST, PRESENT AND THE FUTURE OF A HYPERVIDEO PLATFORM
FOR TEACHING & LEARNING IN VET

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08/12/2021

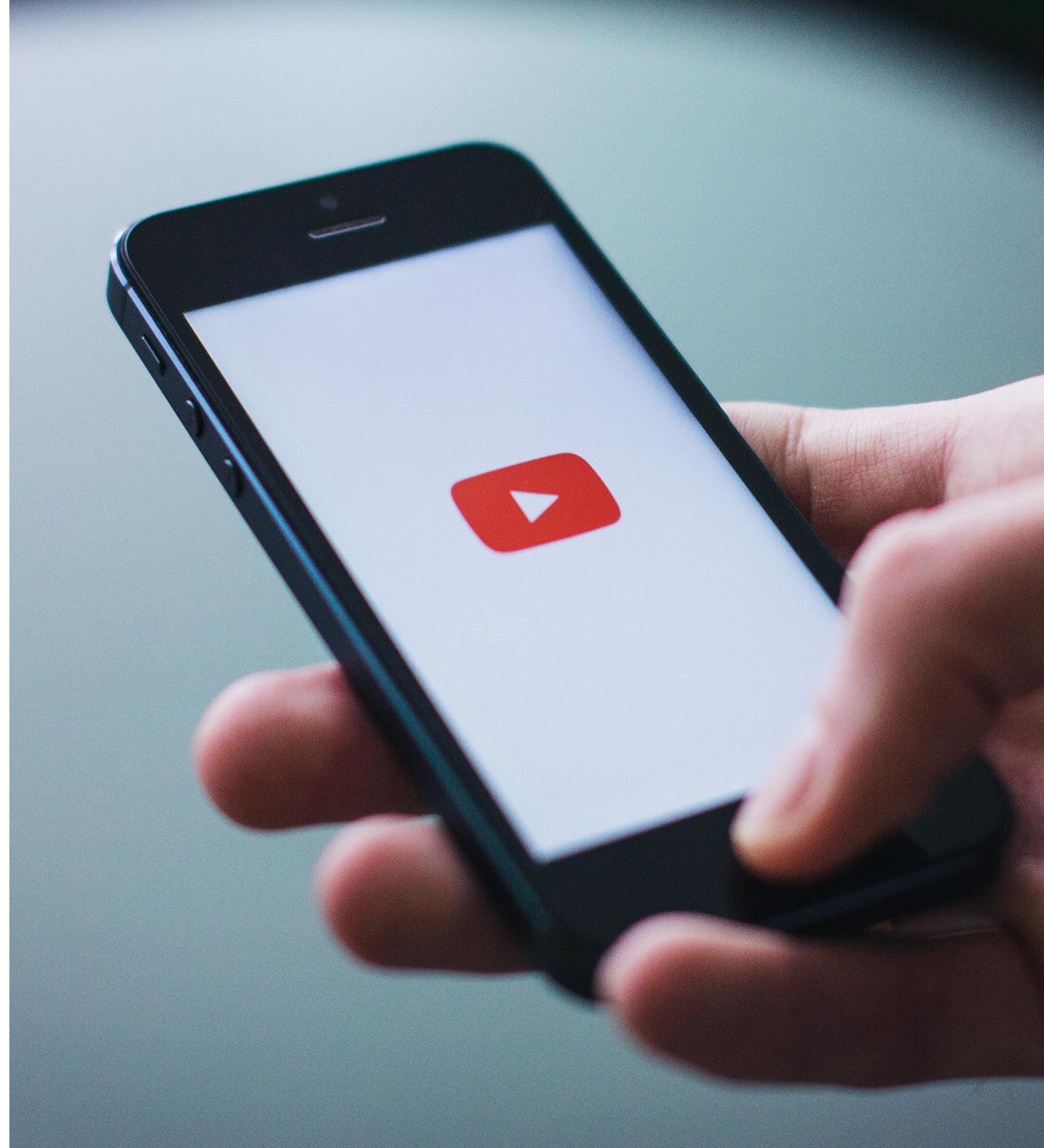
Outline

- A definition of hypervideo;
- The iVideo.education platform;
- How we used hypervideo in VET;
- Effectiveness (research evidence collected);
- Toward iVideo 2.0

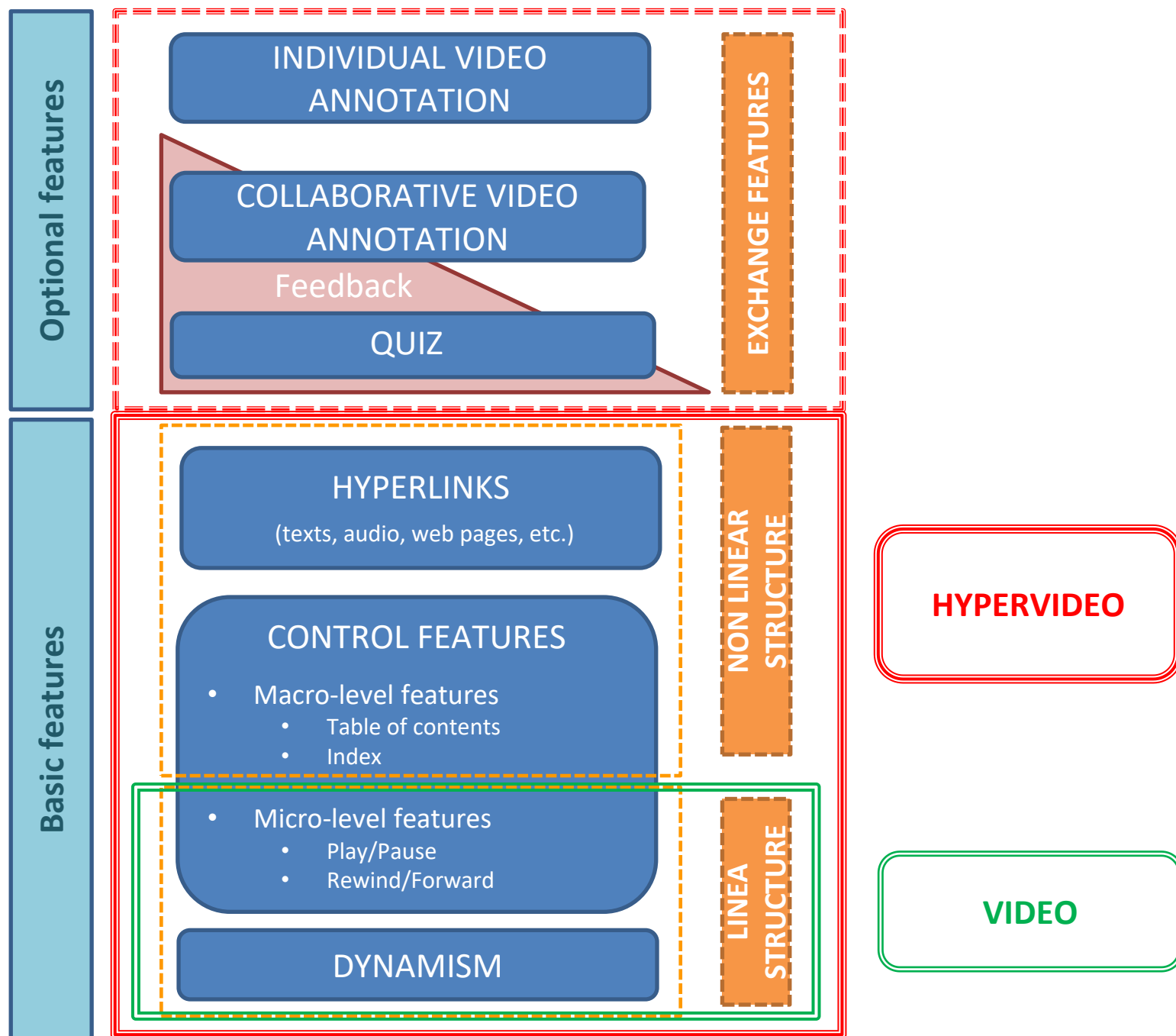
The context

More than 50% of YouTube users watch videos to *figuring out how to do things they haven't done before*» (Pew Research Center, 2018)

From 2008 YouTube has introduced features of the **hypervideo** such as annotations and hotspots



But what exactly is
a hypervideo?



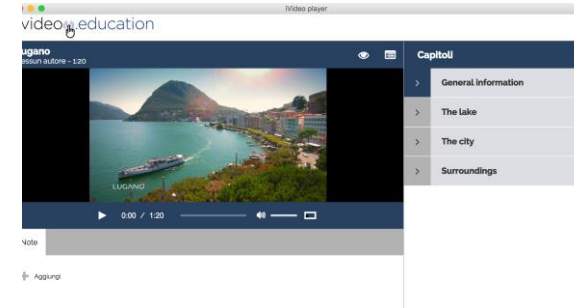
iVideo.education

Using hypervideo for *educational* purposes

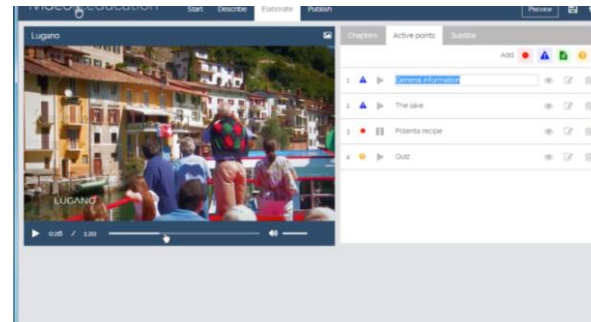
iVideo 1.0 main components



Player



Editor



Portal



Player

iVideo player

ivideo.education

Donne e diritto di voto - Storia di una conquista
Team Scuolavisione - 3:38

Learning objectives

Capitoli

- > L'inizio di un lungo cammino
- > La guerra e le lotte per il suffragio
- ▼ La Saffa
 - ⚠ Active point 6
 - 📄 Active point 7
 - Active point 8
 - Active point 9
- > Lotte femminili: un nuovo slancio
- > La situazione negli anni Trenta
- > Dopo la seconda guerra mondiale
- > 1959: prima votazione federale
- Gli anni Settanta
- > 1971 la Svizzera: una democrazia vera

Control: micro- level

Note

**Annotation
(Individual or collaborative)**

**Control -
macro- level**

**Hyperlinks
(hotspots)**

Player

ivideo.education

SanGottardo
Mattia Sansossio - 7:36

Chapters

- Introduzione
- Il massiccio del Gottardo
- I fiumi
 - I fiumi del San Gottardo
 - Quiz
 - Ticino e Uri
- La leggenda del Pnte del Diavolo
- Le vie di transito
- Le fortificazioni

Quali sono i quattro fiumi principali che nascono sul massiccio del San Gottardo?

	True	False	
Reuss	☐	☐	✓
Reno	☐	☐	✗
Ticino	☐	☐	✗
Rodano	☐	☐	✓
Aar	☐	☐	✓

Close

Self-assessment quizzes

2:19 / 7:36

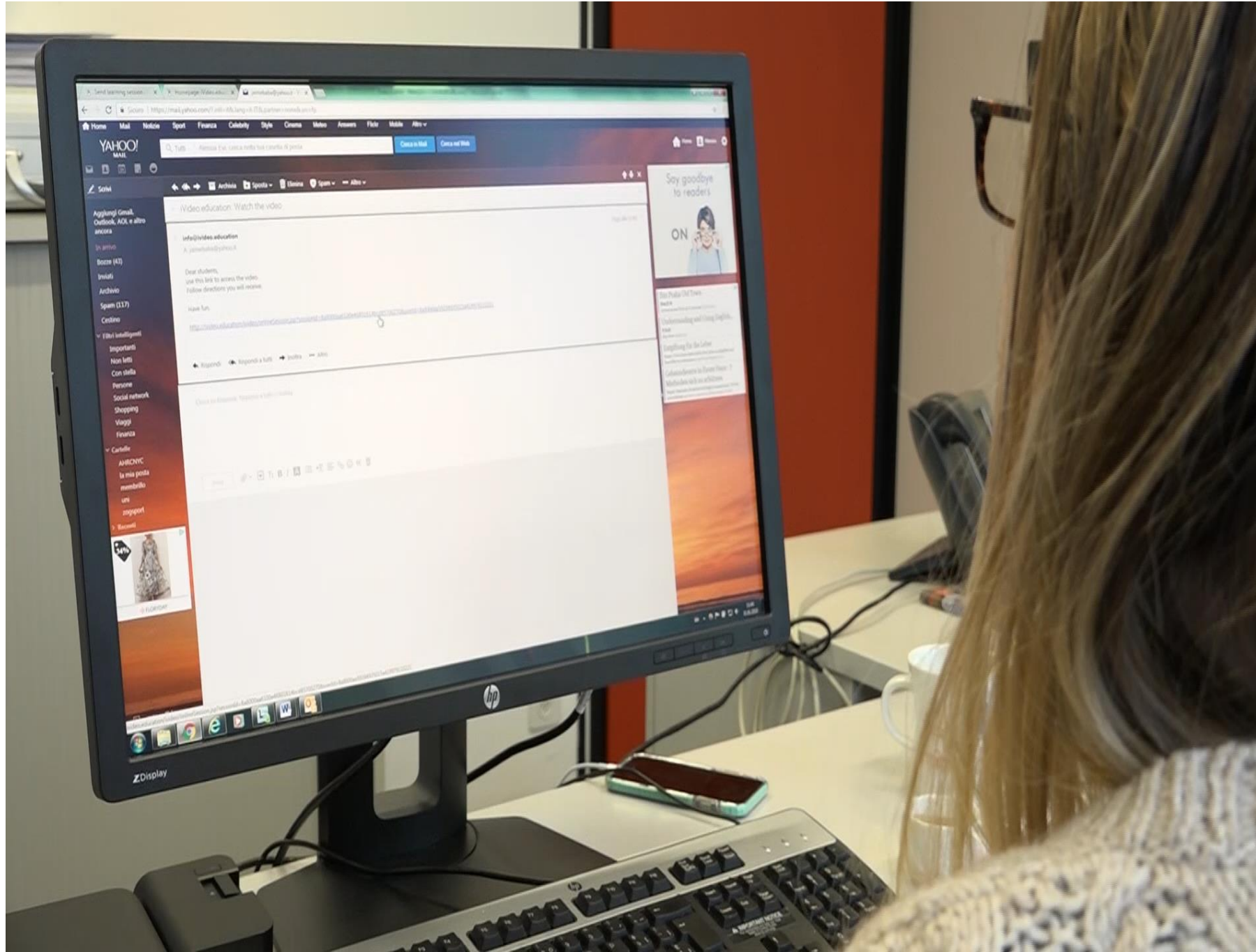
Deepening Notes

Quali sono i quattro fiumi principali che nascono sul massiccio del San Gottardo?

Player – individual annotation



Player – comments / collaborative annotation



Editor

iVideo Editor - C:/Users/aca/Desktop/iVideo/Precedenti/new-iPad

ivideoeducation Inizia Descrivi **Elabora** Pubblica PREVIEW

iPad, giovani e nuovi media

1:05 / 1:24

Capitoli Punti attivi Sottotitoli

Aggiungi

1	●	▶	Cos'è l'iPad	👁	✎	🗑
2	⚠	▶	Bisogni indotti	👁	✎	🗑
3	?	⏸	Quiz sui bisogni primari	👁	✎	🗑
4	●	▶	iPod	👁	✎	🗑
5	⚠	▶	iPhone	👁	✎	🗑
6	📄	▶	I feticci	👁	✎	🗑
7	⚠	▶	Breve storia dei media	👁	✎	🗑

Editor

iVideo Editor - C:/Users/aca/Desktop/iVideo/Precedenti/new-iPad

iVideo education

Inizia Descrivi **Elabora** Pubblica

PREVIEW

iPad, giovani e nuovi media

Capitoli Punti attivi Sottotitoli

Modifica: Active point

Testo Documenti Immagini Links Audio

Testo

B *I* U [List Icon] [Align Icon]

Sto inserendo un punto attivo

Diametro Opacità

0:00:00 0:00:10 0:00:20 0:00:30 0:00:40 0:00:50 0:01:00 0:01:10 0:01:20

Attenzione, l'elemento è sovrapposto ad altri elementi

Inizio punto attivo

mm	ss	cts
1	5	42

Fine punto attivo

mm	ss	cts
1	10	42

Annulla Salva

Use cases of iVideo.education

Integrating hypervideo in a didactic scenario

		TEACHER	STUDENT individually	STUDENT in groups
PREPARATION	Raw video	A	B	C
PRODUCTION	Interactive video	D	E	F
USE	Interactive video	G	H	I

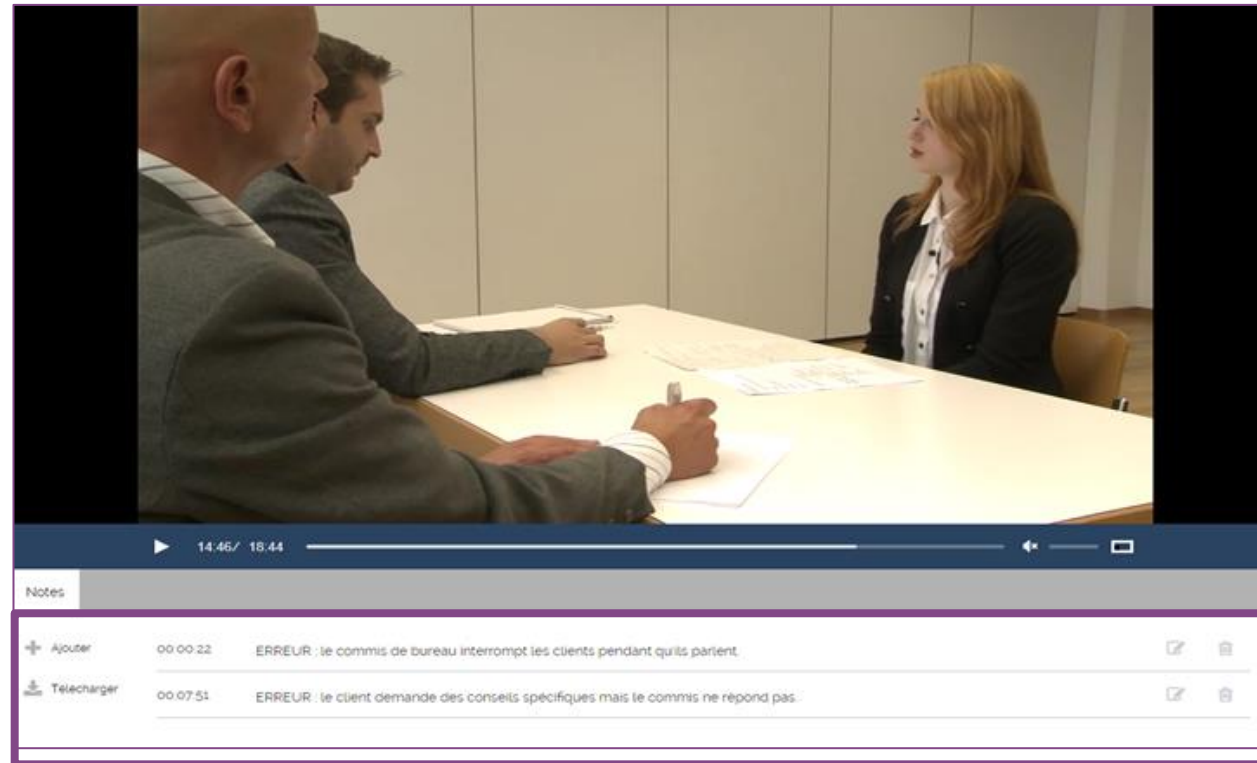
Analysis of professional practices

		TEACHER	STUDENT individually	STUDENT in groups
PREPARATION	Raw video	A	B	C
PRODUCTION	Interactive video	D	E	F
USE	Interactive video	G	H	I

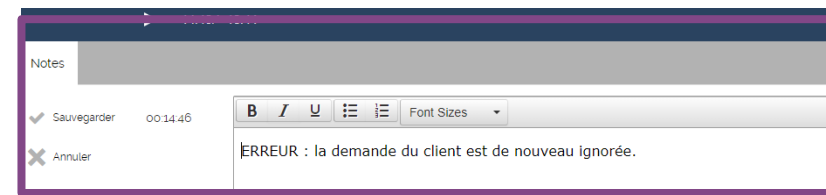
1

Office clerks

analysis of professional practices



List of
annotations



Space for writing
annotations

Learning by designing

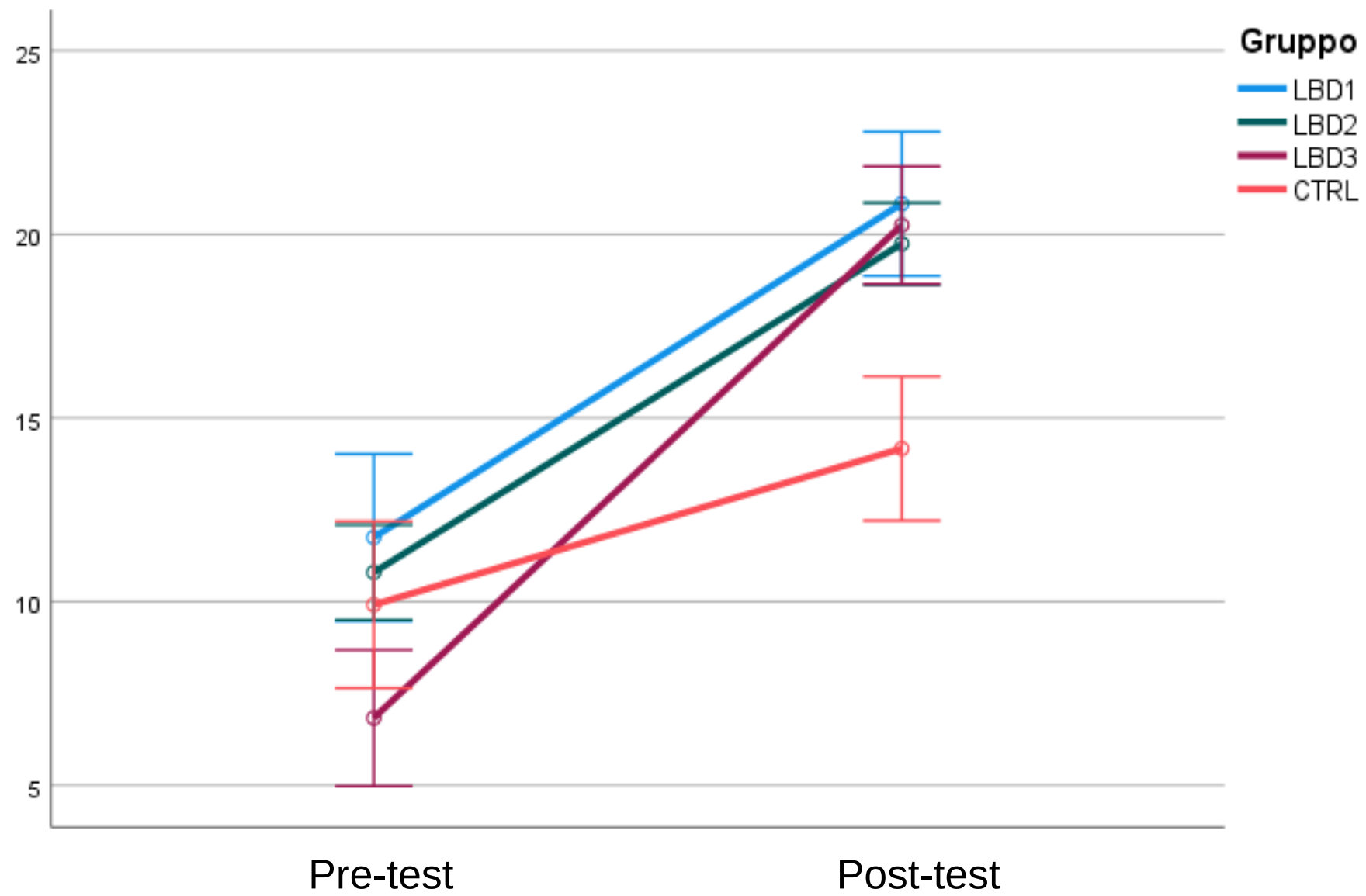
		TEACHER	STUDENT individually	STUDENT in groups
PREPARATION	Raw video	A	B	C
PRODUCTION	Interactive video	D	E	F
USE	Interactive video	G	H	I

2

Nursing course

Learning by design





Evidence of hypervideo effectiveness on...

- Apprentices' motivation (Cattaneo et al., 2018);
- Apprentices' declarative knowledge acquisition and transfer to practice (Cattaneo et al., 2018);
- Apprentices' reflection on/in practice (Perini et al., 2019);
- Apprentices' procedural mistakes analysis (Cattaneo & Boldrini, 2017)
- Apprentices theoretical and procedural knowledge acquisition (Evi-Colombo et al., under review)
- Quality of feedback provided by tutors (Cattaneo et al., 2020);

The future of iVideo.education

ivide👆.education

HOME HYPERVIDEO TEAMS SESSIONS

Vito.Candido@iuffp.swiss ▾

Hypervideos

ALL

MINE

PROCESSING



01:33 | it

Esempi di realtà aumentata

Let the eagle fly

No didactic indications.





For Apprentices



For Teachers

Thanks for participating!

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References

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