Augmented Learning through Enhanced Reality

Today's Agenda

1. AR in science fiction
2. AR in/out the classroom
3. AR: What's Next
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AR in Science Fiction

Prepared by DoS/FSI/SLS/EUA/EGYI

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AR in Science Fiction

Terminator Movie Series: 1984

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AR in Science Fiction

Minority Report Movie: 2002
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1. AR in Science Fiction

RATIONALE

- No borders between physical and digital worlds
- Endless authentic/genuine information
- Technology as part of cognitive process
- From the screen to your pocket
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AR in/out

The Classroom
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2 AR in/out the classroom: Possibilities

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AR in/out the classroom:

Read the newspaper?
I'd rather watch it...
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1. Install Aurasma Lite Application on your device

2. Using Aurasma App

3. Select your triggering image

4. Look in your device for the content you would like to link to your triggering image

5. Use videos or images located in your device

6. Your triggering image and your device content are combined into an AURA

In Six Steps

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**3 AR in/out the classroom: UNA VUELTA POR EL BARRIO (Behind the Scenes)**

**You Name It:** Scavenger Hunt, Choose Your Own Adventure, Amazing Race

**Technology Amateur:** More Walking than Taking Pictures and Videos.

**Several Skills:** Listening Comprehension, Oral Interaction, Bargaining/Convincing Power, Impromptu scenarios, Extemporaneous Reactions

**Preactivity:** Aurasma Lite Crash Course.

**Seven Stops:** Supermarket, Bakery, Restaurant, Bus Stop, Apartment Leasing Office, Typical Restaurant, Laundromat

**Postactivity:** Discussion and Evaluation of Experiences

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**IMMERSION ACTIVITY**

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AR in/out the classroom: UNA VUELTA POR EL BARRIO (Behind the Scenes)

<table>
<thead>
<tr>
<th>Activity</th>
<th>Team A</th>
<th>Team B</th>
</tr>
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<tbody>
<tr>
<td>At Food Star</td>
<td>• Ask about tapioca products, how many and how much they cost.</td>
<td>• Ask about their variety on Brazilian products, how many and how much they cost.</td>
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<td></td>
<td>• Ask where they have algae/fried pig tail/alpaca meat.</td>
<td>• Ask if they sell Bolivian coca-leaf soft drink/Cooking Turtle Oil/Argentine tamales.</td>
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<tr>
<td>At Panamerican Bakery</td>
<td>• Tell them that you are new to Latin-American bakeries and would like an explanation of the best two pastries.</td>
<td>• Ask them about what their flagship product is and all details about it.</td>
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<td></td>
<td>• Ask them if they use Latin-American ingredients in their cakes and what they are.</td>
<td>• Tell them that they are well known in the area and would like to know why.</td>
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<tr>
<td>At the Pizzeria Pike (Bolivian restaurant)</td>
<td>• Ask for their menu and find the most expensive plate. Ask for an explanation.</td>
<td>• Ask about the main differences between bakery next door and them. Why should you choose them over the bakery?</td>
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<tr>
<td></td>
<td>• Ask when their karaoke is and find out what the most popular song is, its origin and history.</td>
<td>• Ask for their drink menu and find out if people prefer beer over their traditional Bolivian drinks, and why.</td>
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<tr>
<td>At the Bus Stop</td>
<td>• Find out from people how to get from the bus stop to the Vienna Metro Station.</td>
<td>• Find out what is the best way to get from there to the Shirlington library.</td>
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<tr>
<td></td>
<td>• Tell people around the bus stop that you have recently moved and would like to know more about the area.</td>
<td>• Tell people that you are a tourist and would like to know about historical landmarks in the neighborhood.</td>
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<tr>
<td>At Oakland's Apartments</td>
<td>• Tell them that you are looking for the best price rental. Since there is more than one option, why are they better?</td>
<td>• Ask them if they live in that apartment complex and why they should or should not.</td>
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<tr>
<td></td>
<td>• Ask them about their “Act of God” insurance policy.</td>
<td>• Ask them about their commitment to greener utilities.</td>
</tr>
<tr>
<td>At “El Rancho Miguelito”</td>
<td>• Ask them about their name, why it makes this restaurant so special.</td>
<td>• Ask them about the history of two traditional plates they sell.</td>
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<tr>
<td></td>
<td>• Bargain on a good price for an event with 50 people. What’s included and what’s not.</td>
<td>• Bargain on a good price for a family event. What’s included and what’s not.</td>
</tr>
<tr>
<td>At the Laundromat</td>
<td>• Ask them about cloth washing habits in Latin America vs. US. Why is the Laundromat so important?</td>
<td>• Ask them about a cheaper way to get your clothes washed without a Laundromat. A cleaning lady?</td>
</tr>
<tr>
<td></td>
<td>• Ask them if they conserve energy and water.</td>
<td>• Ask them what they do for people that don’t carry change or cash.</td>
</tr>
</tbody>
</table>
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3. AR in/out the classroom: UNA VUELTA POR EL BARRIO (Behind the Scenes)
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AR in/out the classroom: UNA VUELTA POR EL BARRIO (Behind the Scenes)
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AR in/out the classroom: UNA VUELTA POR EL BARRIO (Actual Activity)

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AR in/out the classroom: UNA VUELTAPOR EL BARRIO

RATIONALE

Logistical Nightmare? One time preparation

Students get to interact with native speakers in real scenarios

Everyone is a winner: Boosts instructors’ creativity and students’ confidence

Augmented Reality proves to be a pivotal tool to enhance learning using simple reality
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AR in/out the classroom: “A PROPÓSITO” (Behind the Scenes)

“BY THE WAY”:
Topic to be discussed in Class

NATURALITY:
Bringing it back

DIVERSITY:
Several accents

LIMITLESS:
As far as your creativity goes

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FSI/SLS/ROM
Proposed Project

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AR in/out the classroom: “A PROPÓSITO” (Behind the Scenes)

Tailoring to our Students’ Needs

Theoretical Approach

Constant changes

Costly Printing

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FSI/SLS/ROM

Proposed Project

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AR in/out the classroom: “A PROPÓSITO” (Behind the Scenes)
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AR in/out the classroom: “A PROPÓSITO” (Behind the Scenes)
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AR in/out the classroom: “A PROPÓSITO” (Students’ Perspective)
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2. AR in/out the classroom

NO Smartphone? → NO PROBLEM!!!!

Aurasma Lite VS. Aurasma Pro

487.7 million mobile devices VS. 414 million computers (*)

(*) 2011 Google Inc.
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AR in/out the classroom: “A PROPÓSITO”

RATIONALE

Language textbooks can now be visualized and listened to anywhere, anytime.

Classes are enhanced by more customized teaching-learning styles.

The more interaction, the richer the experience.

The classroom is being redefined.
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AR: What’s Next
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AR: What’s Next

Prepared by NoS/FSI/SIS/EUA/EGV
Pranav Mistry: 2009
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AR: What’s Next

Google Glasses: 2012

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Remember this?

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Columbia, MD
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AR: What’s Next

RATIONAL

Reality overcomes fiction

Special effects become everyday life

Interactive Environment: Psychological and Pedagogical Breakthrough

Augmented Reality concept rises up as next technological wave
Augmented Learning through Enhanced Reality

by Giovanni Vizcardo

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In Six Steps

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2. Using Aurasma App, select your triggering image.
3. Look in your device for the content you would like to link to your triggering image.
4. Use videos or images located in your device.
5. Your triggering image and your device content are combined into an AURA.
6. Auras are public or private.

Prepared by DAS/ESI/SLS/FIU/FGUI.

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