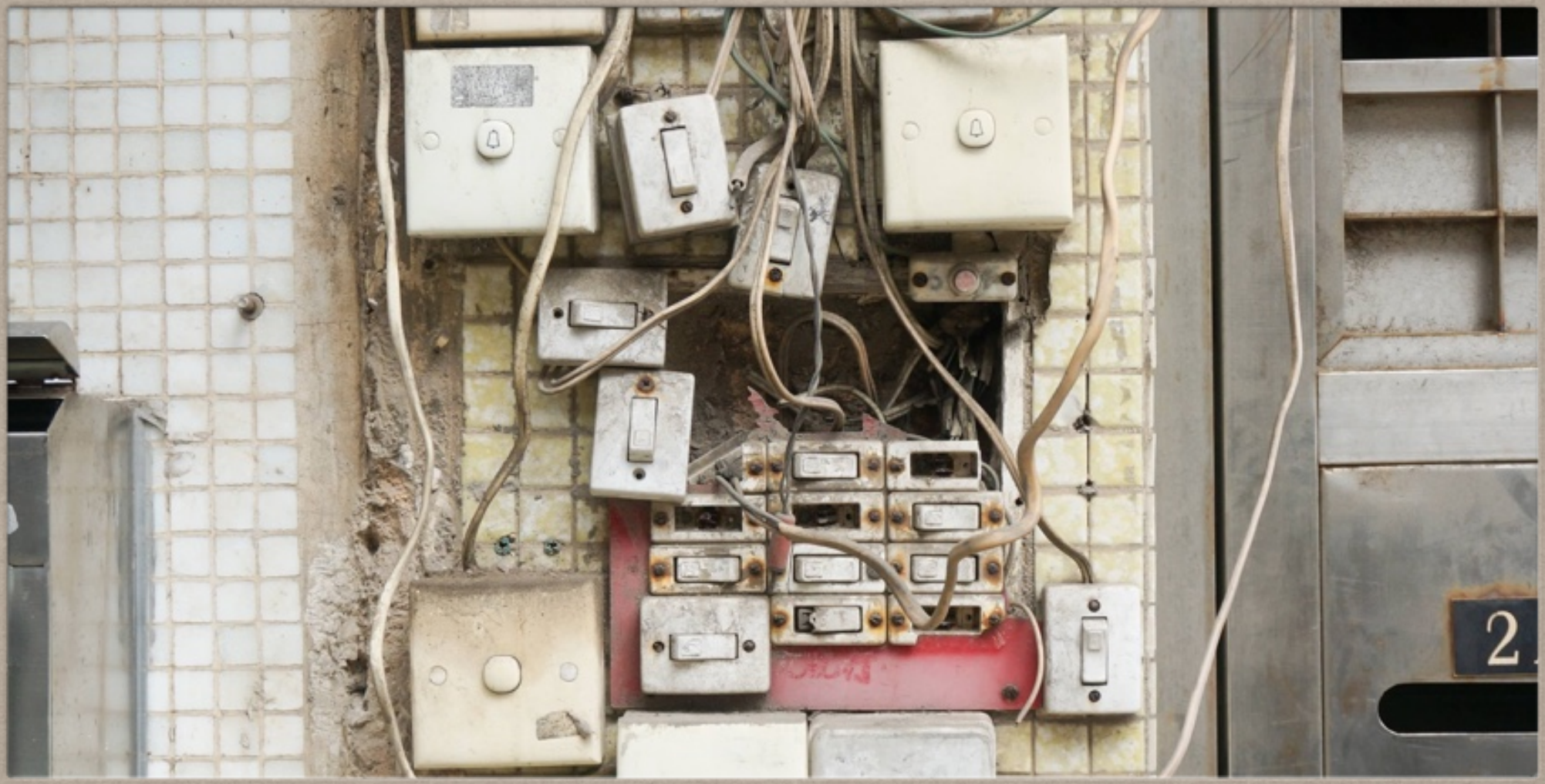

SMART LEARNING

SESSION 2: INTRODUCTION TO SMART LEARNING TECHNOLOGIES

PEN LISTER, MA MSC MBCS FHEA

SMART LEARNING

SESSION 2

A. THE TECHNICAL REQUIREMENTS FOR SMART LEARNING

- *Place*
- *People*
- *Purpose*

B. EXPLORING APPS AND TECHNOLOGIES

- *Google Maps*
- *HP Reveal Studio and app*
- *Edmodo*
- *DB Pedia Places and Geoflow*
- *Other technology of note: GPS, other apps, scripts, etc.*

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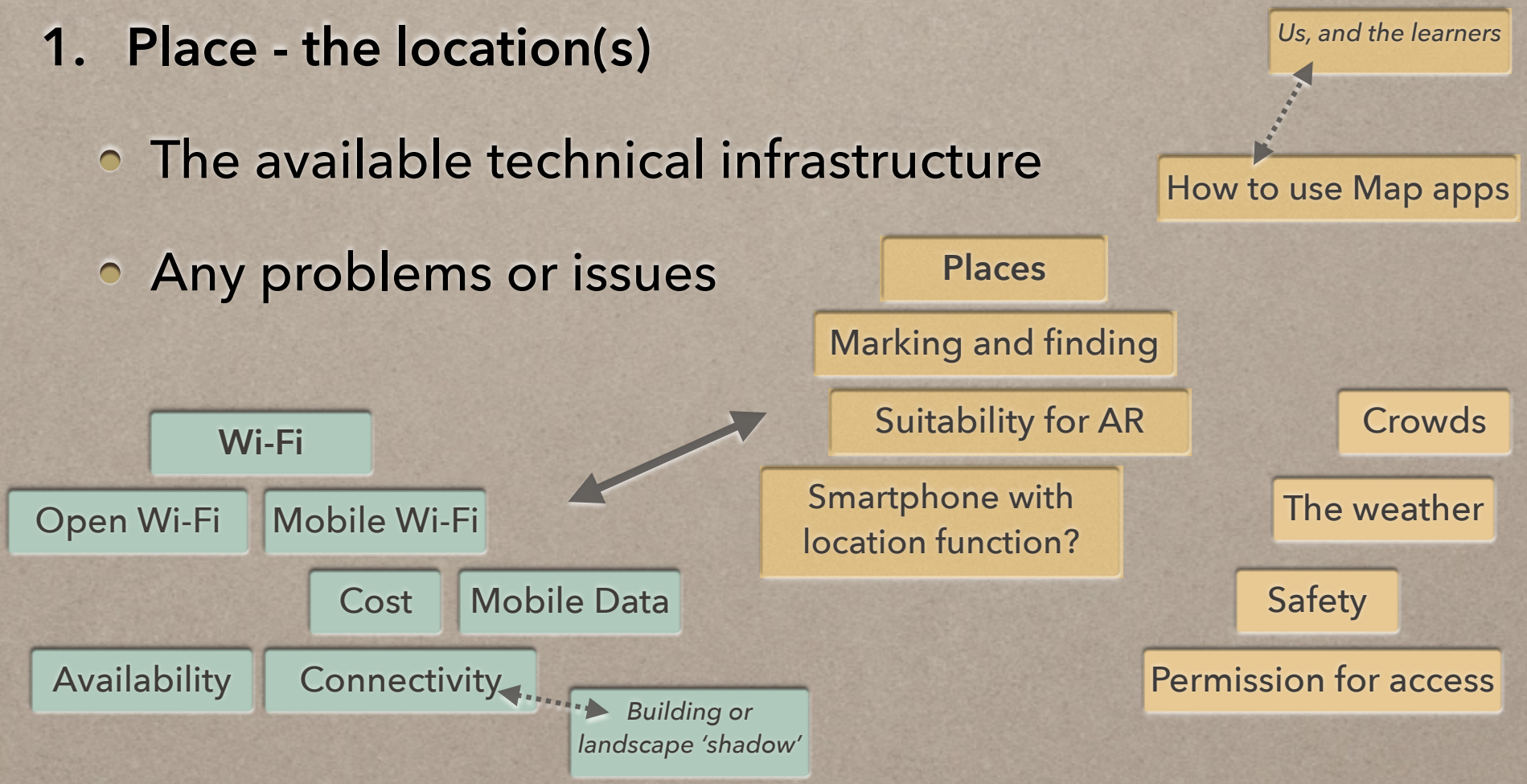
SMART LEARNING REQUIREMENTS

THE TECHNICAL REQUIREMENTS FOR SMART LEARNING

1. Place - the location, the available technical infrastructure, any problems or issues
2. People - the personal devices and the available apps, plus the digital literacy
3. Purpose - the topic(s), tasks and any desired outcomes

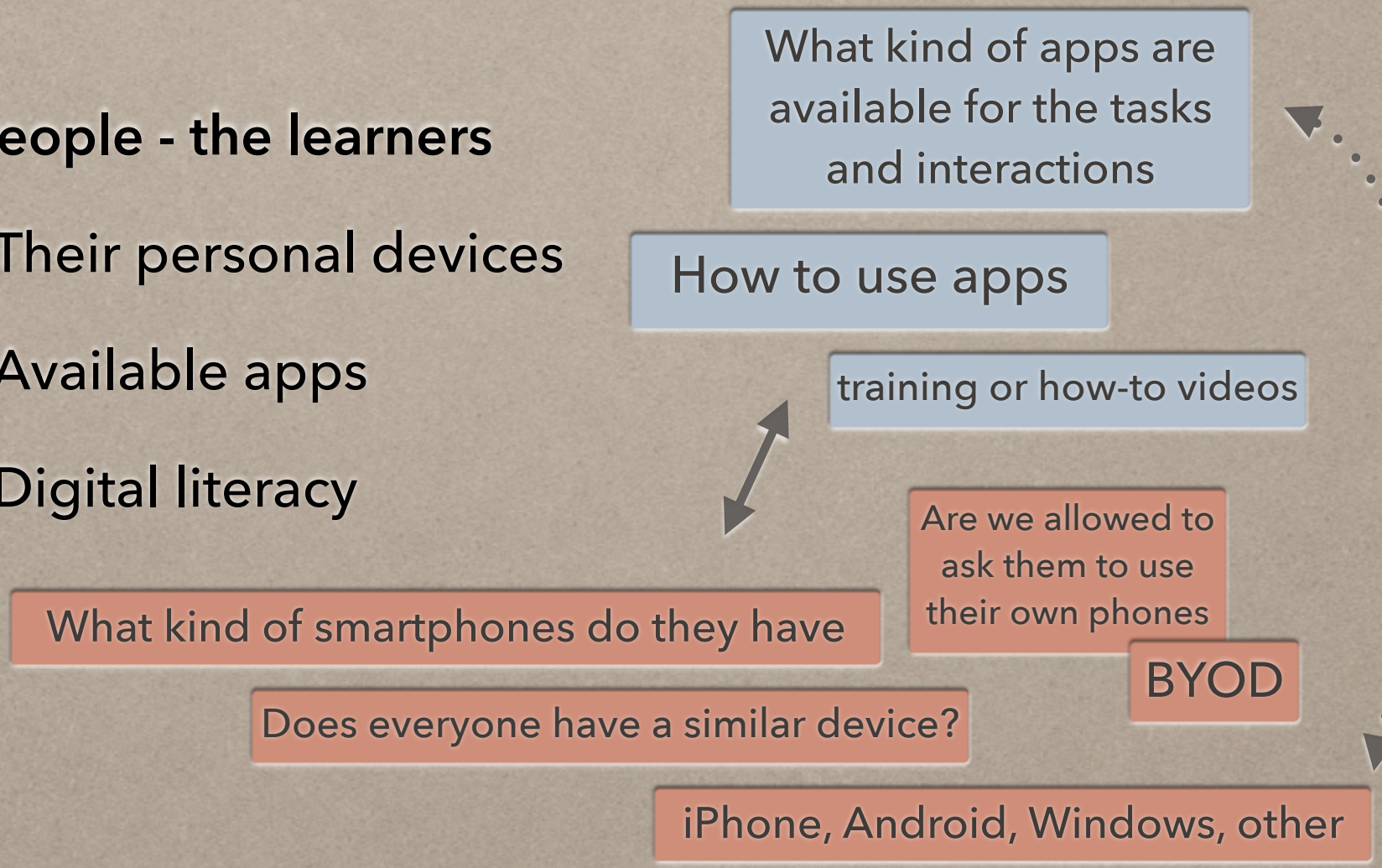
SMART LEARNING REQUIREMENTS

1. **Place - the location(s)**
   - The available technical infrastructure
   - Any problems or issues



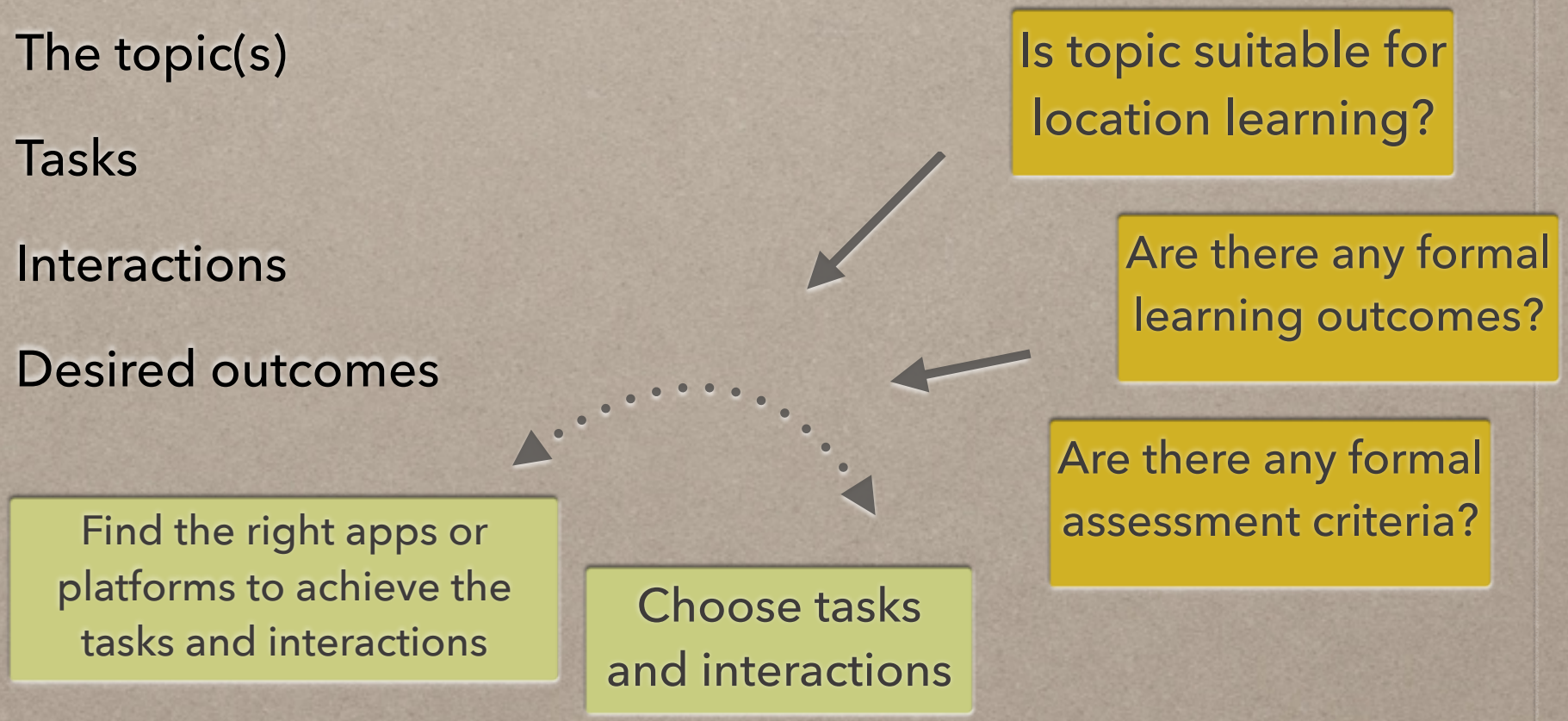
SMART LEARNING REQUIREMENTS

2. **People - the learners**
   - Their personal devices
   - Available apps
   - Digital literacy



SMART LEARNING REQUIREMENTS

3. **Purpose - What is being learned, and how it's being learned**
   - The topic(s)
   - Tasks
   - Interactions
   - Desired outcomes



SMART LEARNING REQUIREMENTS

SOLUTIONS CAN ONLY BE SIGNED OFF WHEN YOU HAVE SELECTED AND TESTED THE TECHNOLOGY AND RESEARCHED OTHER ASPECTS (LEGAL, DEVICE AVAILABILITY, DIGITAL LITERACY LEVEL, ETC)

PLANNING IS EVERYTHING, KEEP A WORKING RECORD OF WHAT YOU'RE DOING

SMART LEARNING TECHNOLOGIES

EXPLORING APPS AND TECHNOLOGIES

1. Maps
2. Augmented Reality (AR)
3. Collaboration
4. Location (GPS)
5. *More…*

SMART LEARNING TECHNOLOGIES

1. MAPS *Google My Maps*

- *Create clear location markers*
- *Indicate different location types*
- *Display information*
- *Display instructions*
- *Display Route*

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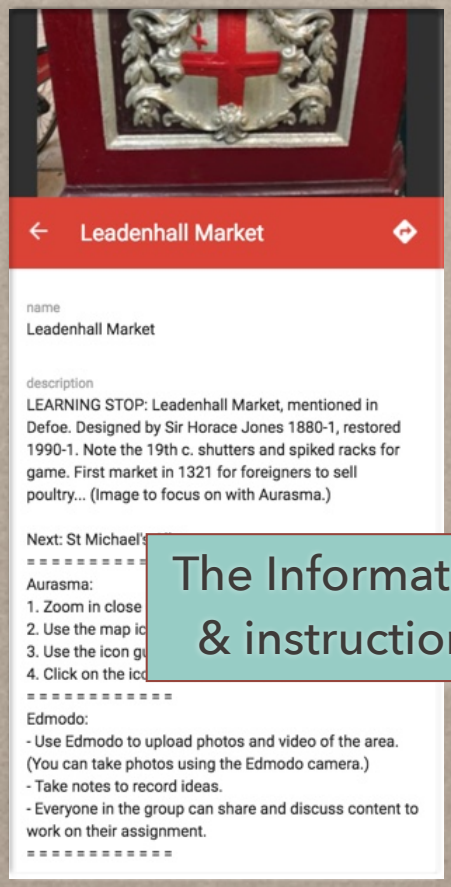
SMART LEARNING TECHNOLOGIES

1. MAPS

Google My Maps



The Information & instructions

The Map and the Route

The Location marker

http://bit.ly/literary-london-map

SMART LEARNING TECHNOLOGIES

2. AUGMENTED REALITY

Needs

- *Signs or features to augment*
- *High quality trigger images*
- *Plan for what to add as augmentations*
- *Geofencing*

Apps

- ***HP Reveal***
  - *HP Reveal Studio*
  - *HP Reveal mobile app*
- ***Blippar***
  - *Blippar Builder*
  - *Blippar mobile app*

SMART LEARNING TECHNOLOGIES

2. AUGMENTED REALITY

HP Reveal (formerly Aurasma)

- *Signs or features to augment*
- *High quality trigger images*

SMART LEARNING TECHNOLOGIES

2. AUGMENTED REALITY

HP Reveal (formerly Aurasma)

- *Icons or other trigger 'overlays'*
- *Augmentations - content sources*
  - *Webpages*
  - *Videos*
  - *Audio*
- *Geofencing?*

SMART LEARNING TECHNOLOGIES

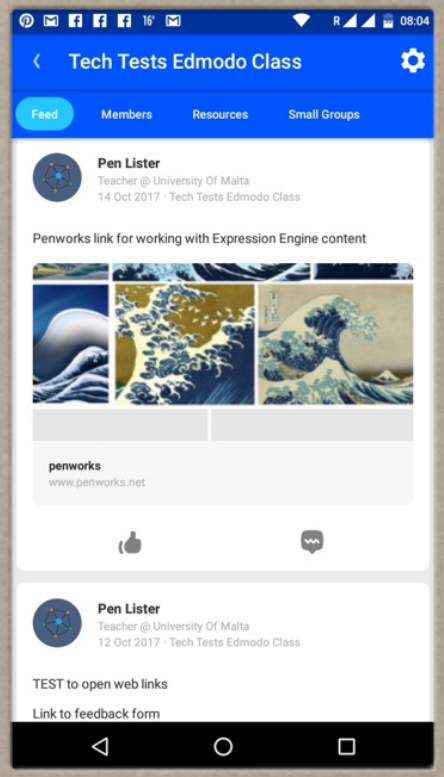
3. COLLABORATION

Needs

- *Collaboration online in teams*
- *Discussion, questions, answers*
- *Finding or creating content*
- *Contributing content or comments*
- *Safe, secure and private*

Apps

- *Edmodo*
- *Moodle or Blackboard*
- *Wordpress blogs*
- *Disqus or Livewire*
- *Slack or Hipchat*
- *Social Media*
  - *Facebook*
  - *WhatsApp*

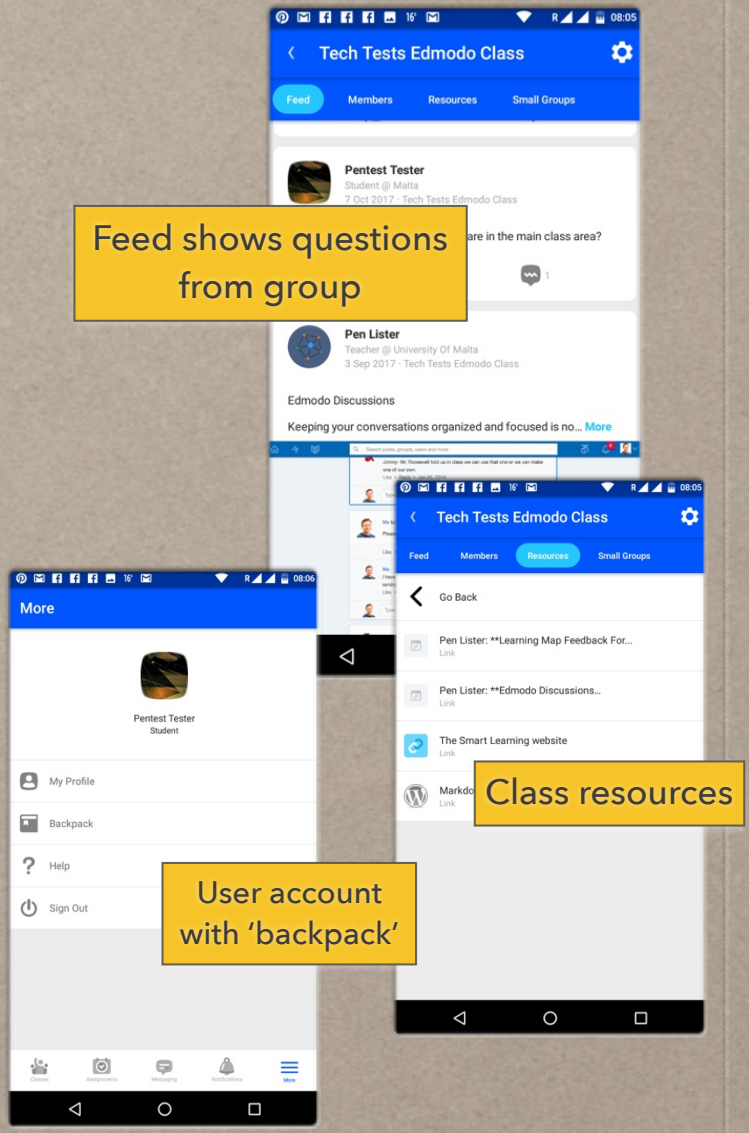


SMART LEARNING TECHNOLOGIES

3. COLLABORATION

Example: Edmodo

- *Safe, private and secure*
- *Consistent mobile experience*
- *Desktop version*
- *Interactive & creative*
- *Classes and small groups*
- *Camera uploads*
- *Multiple image uploads*
- *User experience is very similar to Facebook*



SMART LEARNING TECHNOLOGIES

4. LOCATION (GPS)

Apps or Platforms

- *DBpedia Places (Android)*
- *Geoflow (iOS & Android)*
- *ThunderMaps (or similar alert reporting apps, iOS & Android)*
- *PlantNet*
- *Skyview*
- *Jotform forms (web forms with location function)*

Functions

- *GPS uses*
- *Call up/find location based content*
- *Submit learner locations for feedback or reporting*
- *Show what other learners have been doing in the area (anonymously) - the learning networks*

SMART LEARNING TECHNOLOGIES

5. OTHER FREE APPS & TECH

Apps or Platforms

- *OpenStreetMap*
- *Maps.me*
- *Majjistral app*
- *Tarxien Temples app*
- *Cyberparks app*

Uses and ideas

- *Other mapping techniques*
- *Location based 'tour' apps for how to present experiences and content*
- *Different ways and types of augmentation*
- *Indoor, outdoor*
- *Subject area ideas?*

SMART LEARNING

SUMMING UP

- *Test, test, test again*
- *Try to think of all the possible problems*
- *Always give good instructions and guidance*
- *Check the legal things*
- *Keep a record of requirements, plan and solutions*

SMART LEARNING LINKS

Apps & Tech

- ***Google Maps***
  - *https://itunes.apple.com/app/id585027354*
  - *https://play.google.com/store/apps/details id=com.google.android.apps.maps&hl=en_GB*
- ***HP Reveal***
  - *https://hpreveal.studio.com*
  - *https://itunes.apple.com/gb/app/hp-reveal/id432526396*
  - *https://play.google.com/store/apps/details?id=com.aurasma.aurasma*
- ***Blippar***
  - *https://itunes.apple.com/us/app/blippar/id410604563?mt=8*
  - *https://play.google.com/store/apps/details?id=com.blippar.ar.android*
- ***Edmodo***
  - *https://itunes.apple.com/us/app/edmodo/id378352300?mt=8*
  - *https://play.google.com/store/apps/details?id=com.fusionprojects.edmodo&hl=en*

SMART LEARNING LINKS

Web links

- ***Guide to Using Aurasma***
  http://smartlearning.netfarms.eu/guide-to-using-aurasma/
- ***Designing a learning journey***
  http://smartlearning.netfarms.eu/designing-a-learning-journey/
- ***Example of smart learning feedback maps***
  http://smartlearning.netfarms.eu/scl-learner-feedback-map/

Additional apps

- ***Moodle Mobile*** *Android* & *iOS*
- ***DBpedia Places*** *Android*
- ***Geoflow*** *Android* & *iOS*