Show me the way: proximity layered feedback services in smart cities

Workshop: Smart City Learning. Opportunities and challenges

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Lifelong learning in smart cities

“Lifelong learning is like a never ending personal revolution.” ~ @BryantMcGill, Voice of Reason

Latour: “We have developed and shaped technology, but now, technology is shaping us.”
Reflective practice is accepted by the majority of the students.

It is possible to use smartphones to stimulate meta-learning.

There is no habit in students to see themselves as learners.

School’s monopoly is challenged by Internet.
Near Field Communication


1. Literature Review on NFC technology for learning
2. 3LHub Digital Media Player (chromecast)
Measure learning time

Tabuenca, B., Kalz, M., Specht, M. (2014), Seamless support for lifelong learners with mobile and sensor technology, In Journal of Immersive Education (Accepted) November 2014

Video: https://www.youtube.com/watch?v=Rl-jAll4IN8
Proximity Layered Feedback Model & Instruments

- iBeacons
- NFC Tags

Layers:
- Attract layer
- React layer
- Interact layer
- Exchange layer

Interactions:
- 0-5 mts
- 0-5 cmts
- 5-20 mts
- 70 mts

+Interest
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Proximity Layered Feedback Channels

- Ambient displays
- Notifications
- Background / Foreground
- Smart home
- Analytics
Exchange layer

Examples:
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Scaffold learning ecologies
Questions?

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