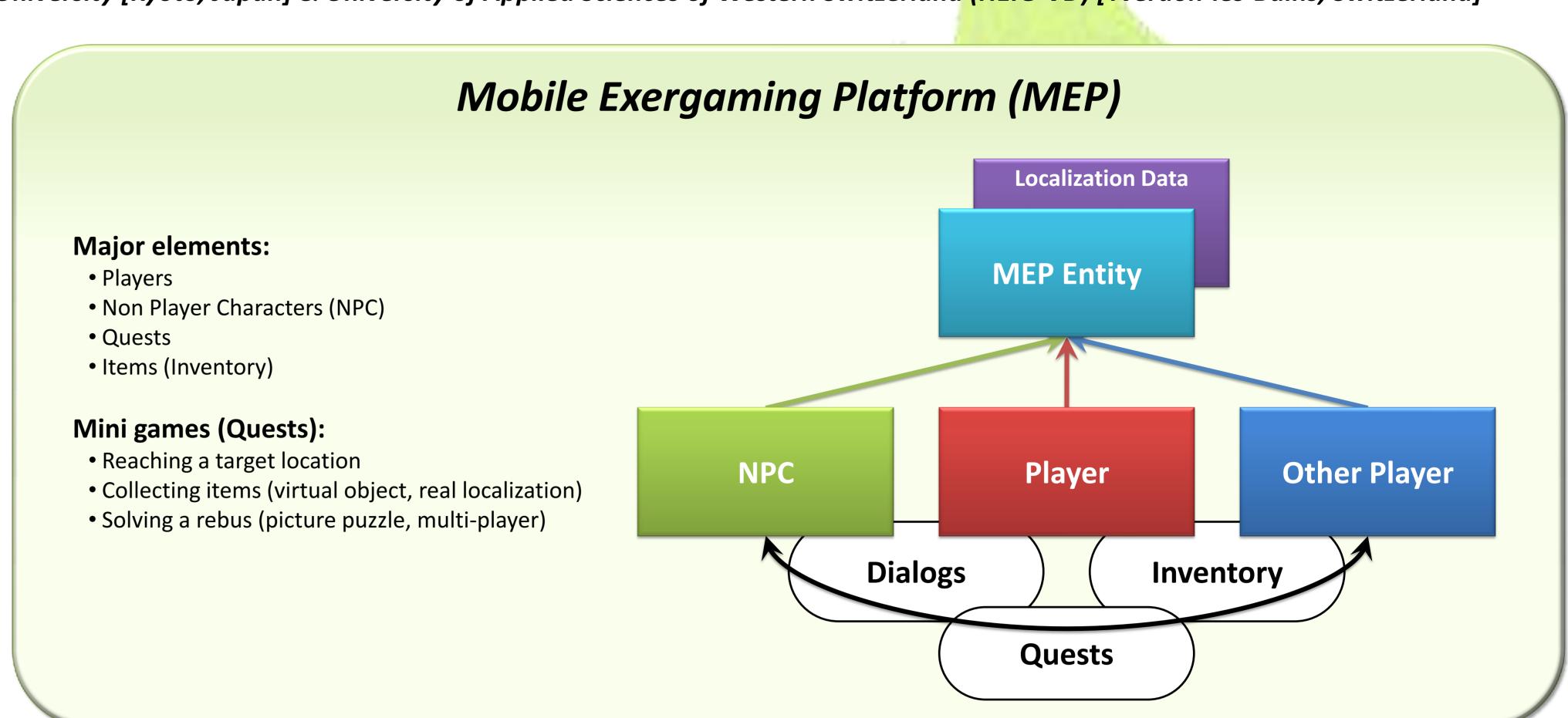
Design and Implementation of a Mobile Exergaming Platform

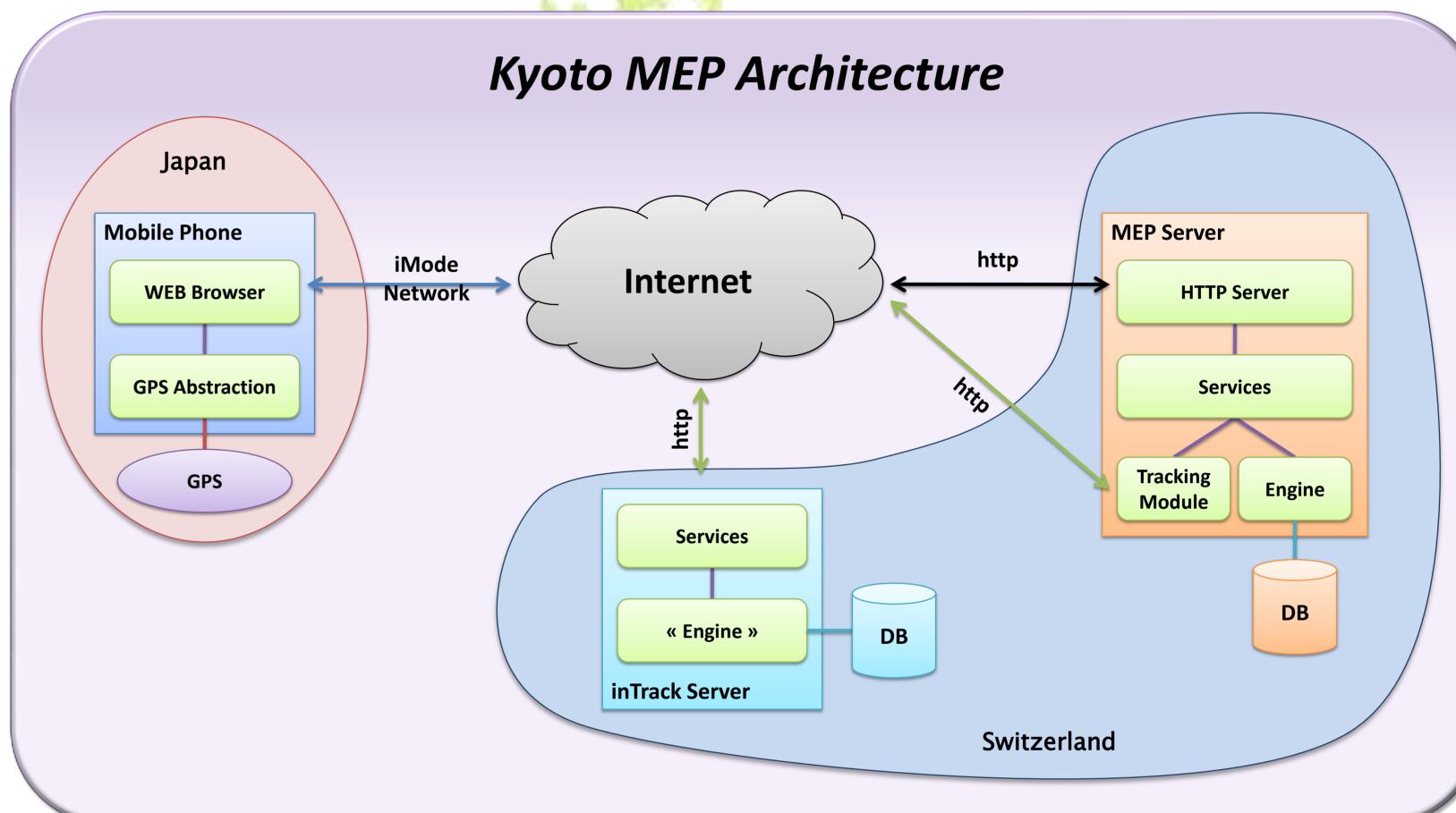
Ritsumeikan University [Kyoto, Japan] & University of Applied Sciences of Western Switzerland (HEIG-VD) [Yverdon-les-Bains, Switzerland]

Introduction

- Interactive entertainment systems traditionally offer a limited choice
 of user interface technologies and interaction styles that make little
 use of the human body and require low physical exertion.
- In Japan, excessive interest in entertainment media, including video games, is a contributing factor to social phenomena such as the otaku and hikikomori.
- In the base of the Mobile Exergaming Platform, we built a game in the context of Kyoto city in Japan. We created real content through the platform mechanism.
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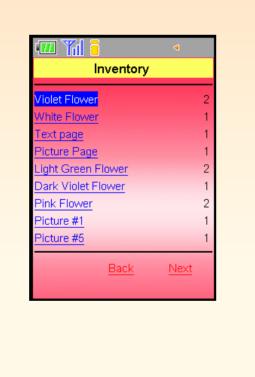




Samples of Game Design Elements

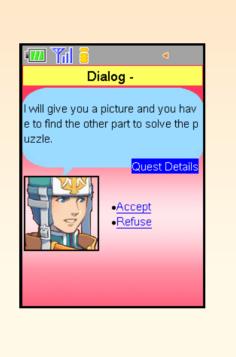
Interaction with virtual elements

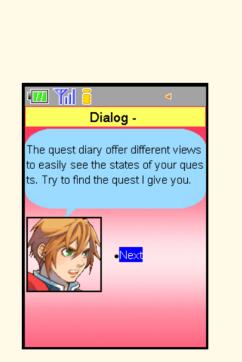
Finding a specific location End Path Start



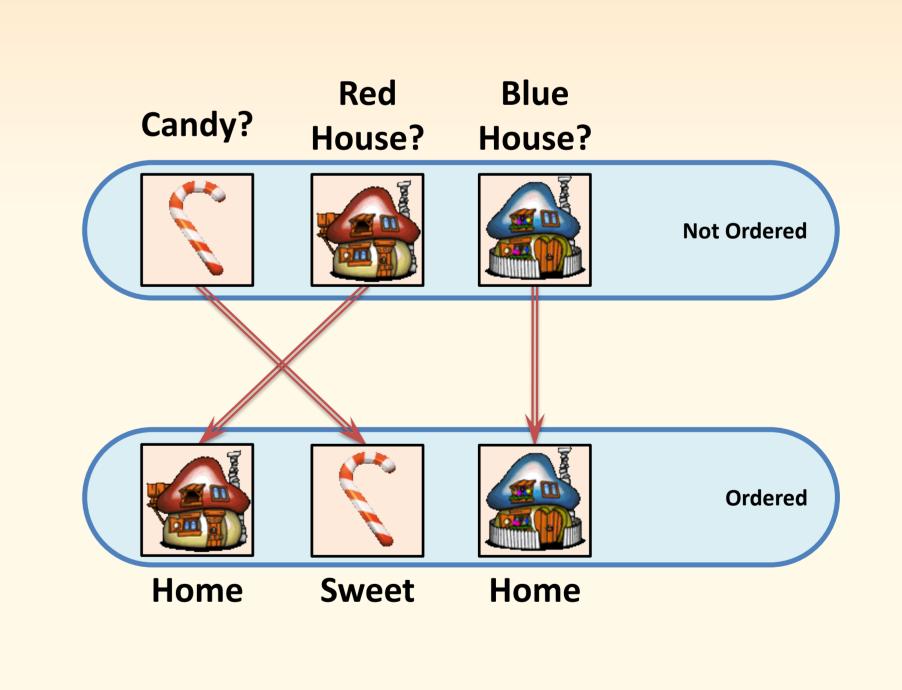






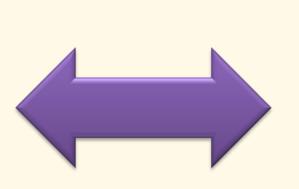


Cooperative activity: solving a rebus for three players

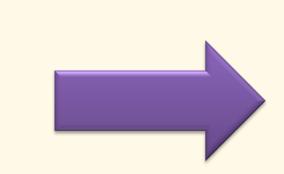


Interaction between players











discussion

Cowboy!!!

Conclusion & Future Work

- Use inTrack, a middleware platform developed at HEIG-VD to facilitate the development of Location-Based Services.
- New platform to create and manage quest based games in geolocalized context.
- User friendly authoring tool is required to provide easier method for the creation of new content.
- Implementing new quest types to improve the user experience and real life interaction between players.

Contacts

Laurent Prévost

laurent.prevost@master.hes-so.ch

Michael Lyons

lyons@im.ritsumei.ac.jp

Olivier Liechti <u>olivier.liechti@heig-vd.ch</u>