Lost on Earth: How Play While Navigating Affects a Location-Based Game Experience for Tourist Families

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ABSTRACT

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Author Keywords

city tour; location based games; navigation; pervasive games; intrinsic motivation;

INTRODUCTION

BACKGROUND

Museum Experiences

Location-based Games

Game Elements

In order to understand what the game elements of a location-based game are, it is first important to look into what makes a game [1]

Distinction between ludus and paida (pervasive game design/Rules of Play, chapter 22, page 2)

//In game design literature, a distinction between games and play is frequently made when defining what a game is (REF TO rules of play).

- -¿ Typical interactions in Location-based games Review, page 2121.
- -¿ As LBG generally use game elements, it is necessary to investigate what these elements constitute for games in general. (Rules of Play, chapter 22, page 8)/Reality is Broken, page 21

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- -¿ Distinction between ludic and paedagogic
- -¿ Examples of how these elements are used in LBG

A Review of Mobile Location-based Games for Learning across Physical and Virtual Spaces page 2121: At the same time, some other part of the action takes place in virtual space, such as a) players interacting with simulators producing events, b) avatars and other characters interacting with each other and with the players, c) players doing riddles and puzzles, d) players generating information in digital for associated with physical objects etc. At the same time, the game rules define a game space.

Rules of Play, chapter 22, page 6

THE FOLLOWING SUBSECTION IS FROM BENJAMIN'S FOUNDATIONS. MAYBE SHOULDN'T BE HERE!

Learning in Location-based Games

Through a survey of 26 papers and 15 LBMGs, Avouris et al. categorize the games according to their purpose and find the main characteristics of LBMGs They found that LBMGs can either be ludic; focus on enjoyment, pedagogic; focus on learning, or hybrid; focus on enjoyment and learning. In the following, the use of game space, narrative space, physical space, and virtual space is described for each category of LB-MGs. In ludic games, the goal is to engage and motivate the player. Although the focus is enjoyment, learning is often an implicit element, since players might develop skills such as exploration and orientation by e.g. navigating a city. Common genres of ludic games are treasure hunts, action games, and role playing games. In treasure hunts, players typically have to collect virtual objects alone or in teams and in a specific or unlimited area, e.g. by following GPS coordinates. Treasure hunts typically do not contain strong narratives and mostly focus on exploration, orientation and in the case of players working in teams - social interaction. Due to their

simple nature, they are mostly combined with more complex situations, in which there for instance might be a strong narrative or educational elements. Action games tend to be designed for multiple players, where the goal for players is to gain a certain advantage over each other through strategic thinking and decision making. This is typically done by locating other players, e.g. through GPS coordinates or pictures of players. These games allow for many diverse game situations to emerge, however with no narrative. Role playing games tend to have a strong focus on narrative and allow players to take enact roles that are connected to the narrative. They are are often called Alternate Reality Games (ARGs) and typically played by many participants and rely heavily on finding physical locations through clues. Pedagogic games in opposition to ludic games, explicitly have the purpose of educating the player. These games typically have a strong narrative where role playing allows players to enact certain roles to comprehend complex scenarios. In these games it is assessed that it is particularly important that the physical and virtual have a strong interconnection to support learning. Hybrid games combine entertainment and learning and are typically used in the context of cultural heritage, such as museums or historical cities. There are different variations of these hybrid games. One of them is museum mobile interactive games. In this genre, the objective is to deliver information about the exhibits to the museum visitor as well as

allow for interaction between between the exhibits. The use of narrative in this genre is typically limited, however the interaction tends to include many ludic elements. A variation of this genre is museum role playing games, which tend to have a strong narrative. A challenge of designing hybrid games is selecting locations or POIs (points of interest) that are rich enough in information to support learning as well as entertainment activities. Furthermore, it is important to maintain a balance between ludic and pedagogic activities, as ludic activities might overshadow pedagogic activities.

Narrative in Location-based Games
Navigation in Location-based Games
Expanding The Experience
PRELIMINARY STUDY
DESIGN
EXPERIMENT
CONCLUSION

DISCUSSION REFERENCES

1. Salen, K., and Zimmerman, E. *Rules of Play*. The MIT Press, 2004.