

# SMART CITIES FOR SMART CHILDREN

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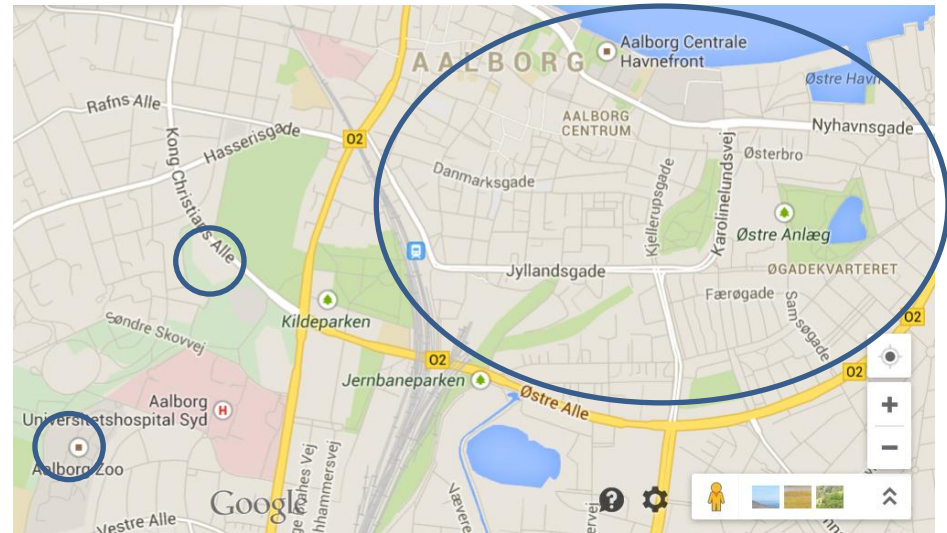


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# Introduction

- Two case studies focusing on
  - Social-relational interactions
  - Integration of SCL and traditional learning
- Topics we like to discuss on the workshop
  - Why? what does SCL add compared to traditional learning
  - Who? stakeholder, user, it-specialist etc.
  - How? infrastructure, technical requirements, etc.
  - When? Field trip, leisure time, homework, etc.
  - Where? at the desk, in situ, at home, etc.

# Case study: Social relational interactions (Monsters)



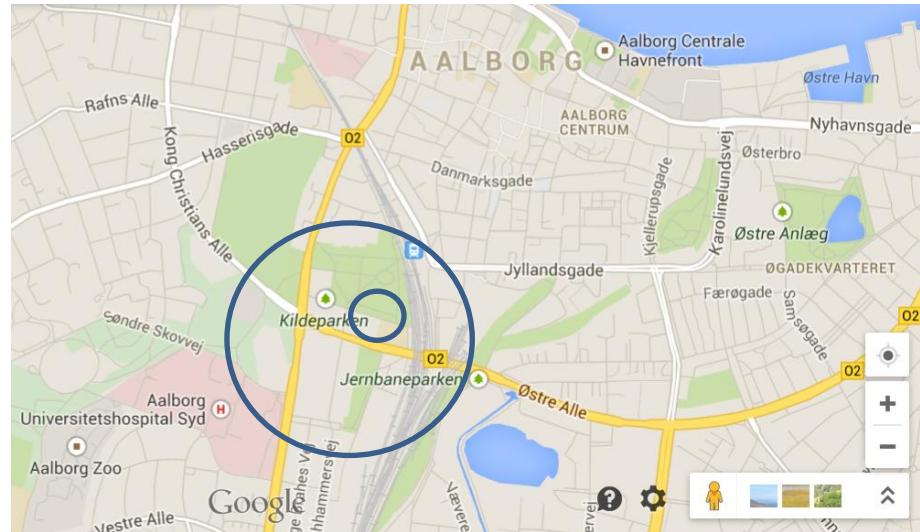
- Treasure hunt with relational companion agent
- Features:
  - Simplicity of the concept – Exploration – Competition – Fun – Narrative interaction – Scalability (institutional level (e.g. Museum) <-> city level)

# Results (Kunsten)



- Interactions move from purely task-oriented (getting it done) to explorative interactions, increasing the time spent with the artworks
- Significant increase in retention of details from the artworks

# Case study: Integrating SCL and Traditional learning (Geometry City)



- Location aware geometry game (try a demo in the break)
- Features:
  - Individual distributed learning experiences – Collaborative exploration – Learning happens inside and outside of traditional institutions, i.e. integration into class room teaching – Bad scalability





# Results (Skipper Clement Skole)



- Integration in the teacher's math classes
- Significant increase in correct answers in standardized test
- Average (voluntary) playing time: 150 minutes
- Teacher reports
  - increased interest in the geometric objects, with children telling about geometric shapes they have discovered outside the class room
  - Increased confidence in answering geometry related questions during class

# Conclusion?

- Topics we like to discuss on the workshop

Why? what does SCL add compared to traditional learning

Who? stakeholder, user, it-specialist etc.

How? infrastructure, technical requirements, etc.

When? Field trip, leisure time, homework, etc.

Where? at the desk, in situ, at home, etc.

# Thank you for your attention!

Do you want to know more?

Visit <http://tinyurl.com/aau-mrehm>