Design and Implementation of a Personalized Outdoor Audio Tour Guide in HTML5

Dr. ir. Natalia Stash
n.v.stash@tue.nl

Who is the Project For?

For master students with

- Personalized Web-based environments/recommenders
- Mobile applications
- Semantic Web
- Human-technology interaction
- HTML5 => future of Web development
- World/cultural heritage

- Collaboration with
  - Built Environment Dpt. of TU/e
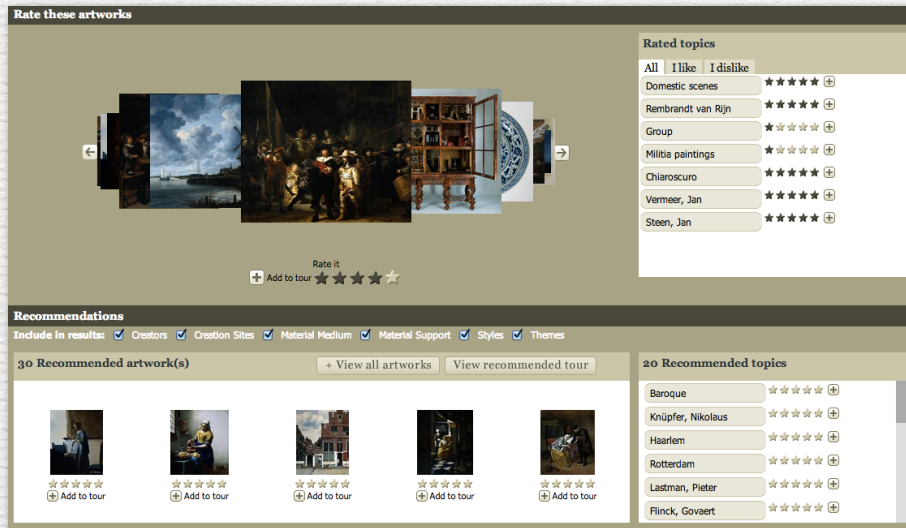 - Professional companies such as TIE Holding, _____

Sources of Inspiration
Available Tools

- Results of the CHIP project
  Cultural Heritage Information Personalization
- Prototype of the personalized museum guide
  http://chip.win.tue.nl
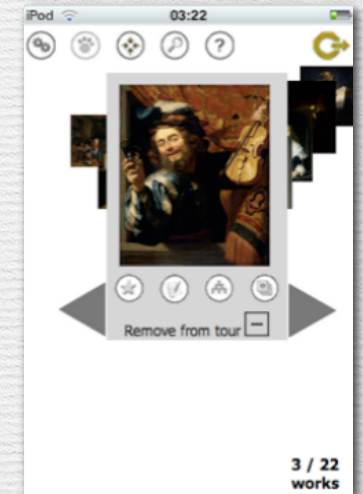
CHIP Web-Based Tools: Tour de Rijks

Art Recommender: discovering interests in artworks & art topics

Tour Wizard: managing & visualizing museum tours

Mobile Guide: guidance inside museum

http://chip.win.tue.nl/demo/

CHIP Follow Up: Tour d'Amsterdam

Recommender for points of interest in the city

Tour Wizard: managing & visualizing city tours

Mobile City Guide

http://chip.win.tue.nl/cityguide/

CHIP Follow Up: Collaboration with Built Environment Dpt. of TU/e
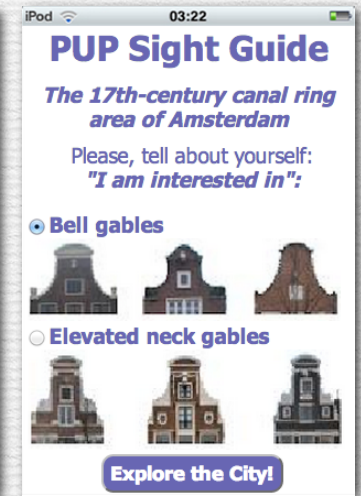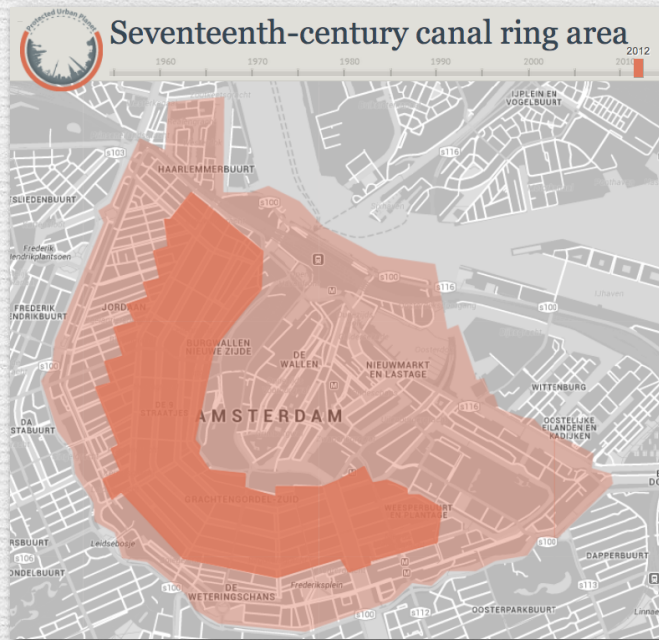
❧Protected Urban Planet (PUP)
http://www.protectedurbanplanet.net/
❧PUP Sight Guide
http://chip.win.tue.nl/cityguide/sightguide

Project Proposal

- Make a personalised outdoor tour guide a reality:
  - GPS-enabled
  - Utilize knowledge about (next to interests)
    - context - location, visited places, time, date, day of week, weather
  - Extensions:
    - for gathering information on cultural/world heritage
    - collaborative filtering
  - UIs design, but not too much focus on complicated visualization
  - Your own ideas for an app...