



# Distributed Systems 2013 – Open Project

Leyna Sadamori  
[leyna.sadamori@inf.ethz.ch](mailto:leyna.sadamori@inf.ethz.ch)



Open **P**roject

# Project

- Find a partner group

Team up with up to **6 students**

- Choose your own topic. One constraint, it must contain:
  - Distributed component
- Submission due **Dec 20, 2013**
  - Submit: code, slides, and report
  - 1-minute madness



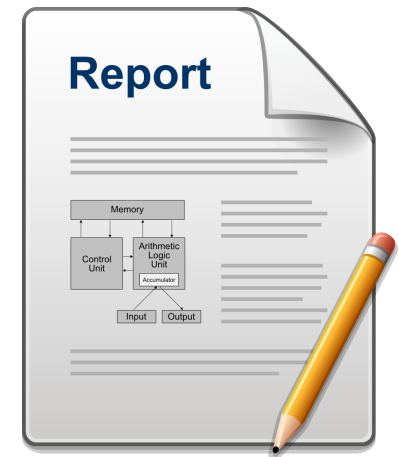
# Register your Team

- Form groups of up to 6 students each
- Via the submission system
  - Create a new group
  - Add members
  - Submit project deliverables as before Dec 20, 2013, 9 a.m.
  - **Hard deadline!**



# Project Report

- Only one report per Project team (3 – 4 pages)
- Focus on technical description of your work
  - Problem statement
  - Requirements
  - Architecture
  - Implementation
  - Usage



# Project Presentation

- Prepare slides for 1-minute madness
- Focus on selling your idea
  - Make clear, what your app does, why someone would need it and what's nice about it
  - Motivation, general idea, interesting technical aspects, results, ...
- Include a live demo whenever suitable
- 1-minute madness will take place on Dec 20, 2013



# Demo Session

- Demo session will follow the 1-minute madness
- Similar to an exhibition booth
- Possibility to discuss with others
- Answer questions that were raised by the 1-minute madness



Selected projects from previous years

# Examples

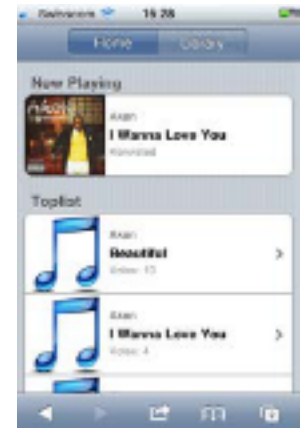




# djCrowd – Interactive distributed music player

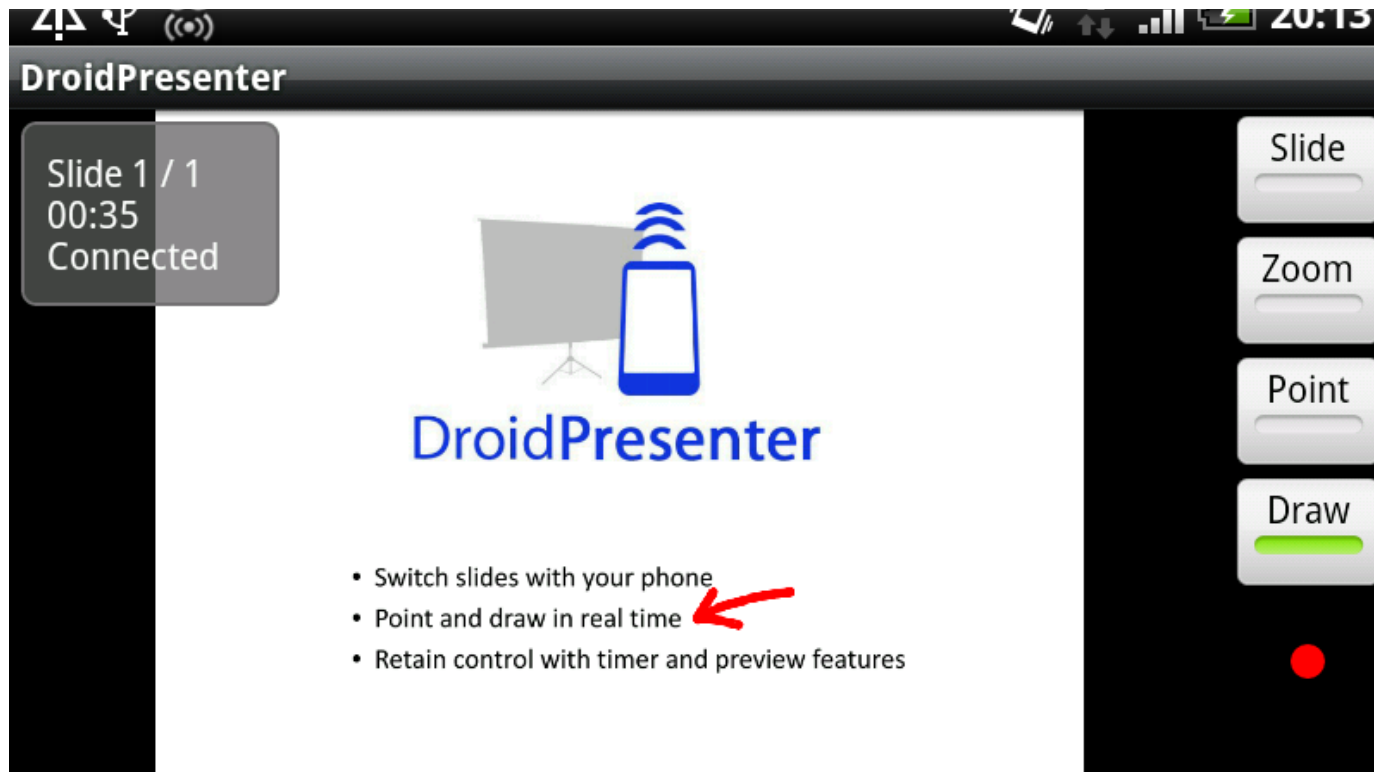
HS10: Luchin Doblies, Alexander Grest, Moritz Hoffmann, Jost Joller, Philipp Schmid, David Stolz

- Start up one phone as server  
(connected to hi-fi system)
  - Your friends can connect to the server
    - Check the song that is currently playing
    - See upcoming songs in the playlist
    - Modify playlist by voting for their preferences
    - Upload songs from their phones
- + Web interface to provide access for non-Android devices



# DroidPresenter – Presentations remote control

HS10: Andreas Tschofen, Leonhard Helminger, Mathias Buerki, Damian Karrer

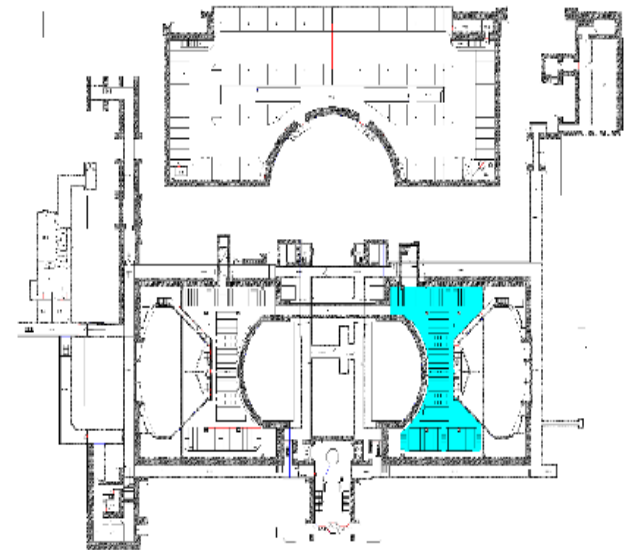


DroidPresenter allows you to draw in, point at, zoom in/out and control your presentation through your smartphone

# ETH Survival Guide

HS11: Andrea Helfenstein, Andreas Briachli, Marc Egg, Pascal Spoerri, Steven Koeppel

- Localization service
  - ETH access points information
  - Building floor maps and room information
- Technical
  - Python server
  - REST services with JOSN interface
  - Position marker overlays



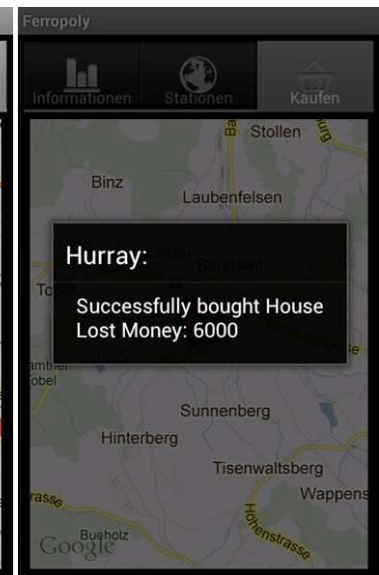
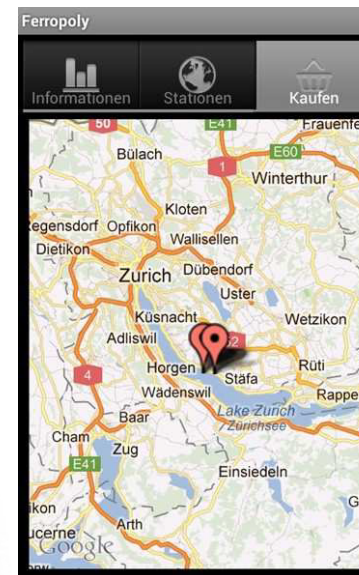
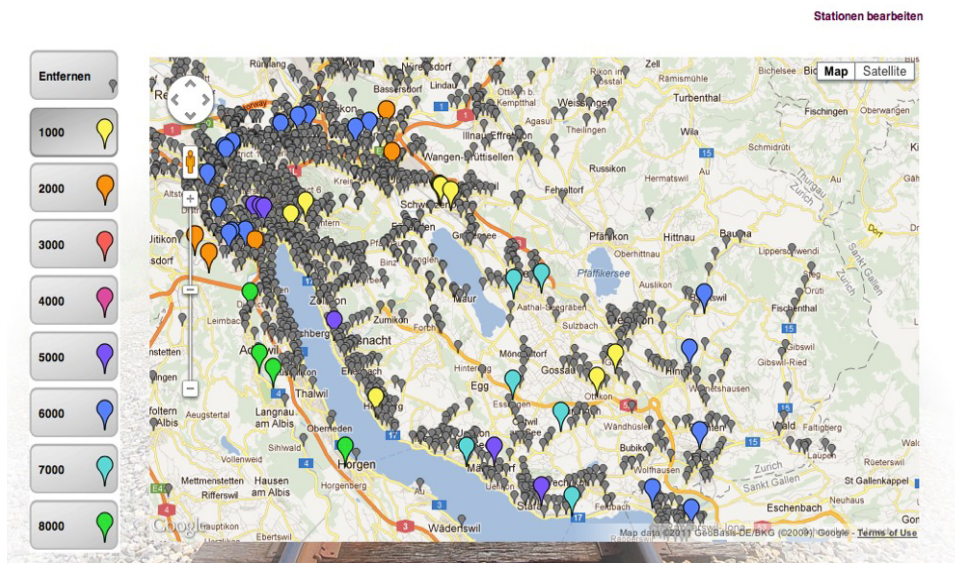
# Ferropoly – Monopoly in the real field

HS11: Ameri Michael, Aras Ersan, Marti, Messmer Stefan

**FERROPOLY**



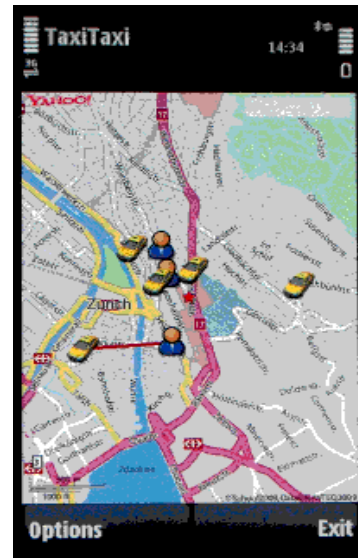
- Emulate Monopoly in the real word
  - Travel across Switzerland and buy train stations
  - Ruby on Rails server
  - REST services with JSON interface





# Consensus-based Taxi

- Implementation for the consensus problem
- Distributed application to find the optimal cab

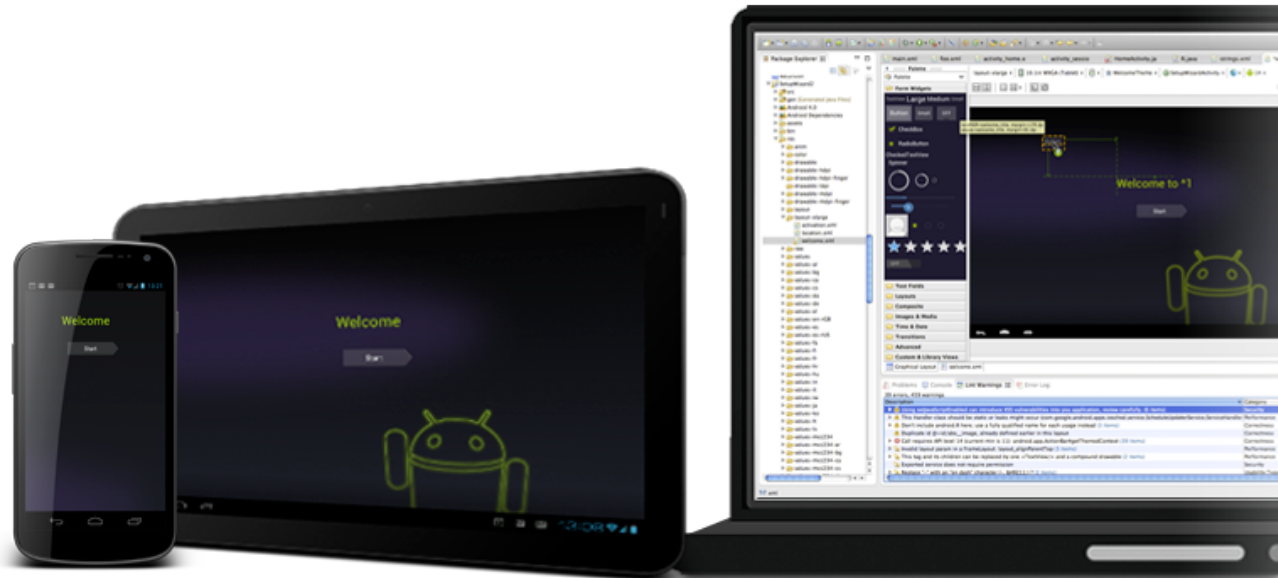




## Final Remarks

- We recommend you to use Control Version Systems (e.g., Git, Mercurial, or SVN)
  - Github: <https://github.com/>
  - Slides for the Git-tutorial <https://docs.google.com/presentation/d/1BbLSI-ef7dMi2m1JkWTn0fqjbXGo-il8sFQVr9LtUUc/edit#slide=id.p>
  - Introduction to Git: <http://git-scm.com/book>
  - VIS code host: <https://code.vis.ethz.ch/>
- Deliverables
  - Code (naming convention: *vs-nethz-project*)
  - Report (3 – 4 pages)
  - Slides for 1-minute madness
- Important Dates
  - Project due on **Dec 20, 2013, 9 a.m. (sharp!)**
  - Your exact presentation slot will be announced after registration

# Have Fun Programming!



<http://developer.android.com/images/tools-home.png>