



UMAS 2007 // INTERACTION DESIGN WORKSHOP

# INTRODUCTION

- ▶ Advance of technology
- ▶ We do not notice everyday things
- ▶ Application not only for tourists but also for the citizens



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# RESEARCH

- ▶ City navigation
- ▶ What is open after midnight
- ▶ What is in town today
- ▶ City web - unfinished
- ▶ Information on portals - limited
- ▶ Information that you can get by mobile phone - expensive or non-existent



# RESEARCH

- ▶ Possibilities for locating person in the city
- ▶ GPS i *Cell Location*
- ▶ GPS i cell phones - upcoming
- ▶ *Nokia 6110 i Nokia E90*
- ▶ GPS is about to become a standard in mobile phone industry



# FLASH(Y)

- ▶ Flash and it's functionality
- ▶ Alternative - Java
- ▶ Main advantage of Flash - speed



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# FLASH(Y)

- ▶ Limited access to information on the cell phone
- ▶ Non-existent access to GPS receiver
- ▶ Solution - combine it with other programming solutions - C++/Java
- ▶ Synchronization is in real-time



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# FLASH(Y)

- ▶ Add-on application would give current position, satellite status, series of paths from text document (in meters)
- ▶ That way you could also record information about your path in log file



# INFORMATION STORAGE

- ▶ *up-to-date* information without full upgrade
- ▶ Mobiles have hi-speed Internet
- ▶ Centralized database on Internet server



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# INFORMATION STORAGE

- ▶ Adjustment for different devices (from mobile phones, PC-s, cash machines, fridges...)
- ▶ Optional multimedia content – photos, videos, audio for download
- ▶ Virtual real-time guide trough town



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# INFORMATION STORAGE

- ▶ Integrating users Internet pages (*del.icio.us, flickr, blogs etc.*)
- ▶ Updating different types of travel blogs, news blogs, from the town, etc.
- ▶ Categorization of information by location
- ▶ Uploading your multimedia content to FTP server



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# INFORMATIONS

- ▶ Questionnaire on first use - to differentiate users, and their preferences
- ▶ Categorization of contact information (*yellow pages*)
- ▶ Alternatives, always
- ▶ If there are contact numbers - call it from the map, send an e-mail or go to the web site, put it into favorites, etc.



# INFORMATIONS

- ▶ Virtual guide trough city sights
- ▶ Information about them
- ▶ Photos
- ▶ *Teaser* trailers
- ▶ Podcasts from different historians



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# INFORMATIONS

- ▶ Monitoring the city traffic
- ▶ GPS devices into buses
- ▶ These are just some of the information available



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# OPTIONS

- ▶ *In other world states* many things have already been implemented
- ▶ Which are the options, and what are their flaws
- ▶ Options we'd like to have
- ▶ More interaction between humans, technology as an arbiter



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# OPTIONS

## ► NOKIA 6110 offers in start package:

- GPS locator and map with street names
- Guide to wanted place
- Voice instructions for drivers
- Buying additional maps which can be stored in additional memory card
- When a picture is taken it gets GPS data written into EXIF
- Upgrading your map by objects of interest
- Information about traffic, weather, etc.



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# OPTIONS

- ▶ Options we would like to have:
- ▶ When you are near certain location of cultural importance, you can get “push” message (if you want), and while you are in the vicinity of the location, you can open it and look at the offered multimedia content, or which similar locations are near by





# OPTIONS

- ▶ When you are driving around the town, with voice waypoints you can choose to have a virtual guide for points of interest



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# OPTIONS

- ▶ Users can record their routes, every multimedia content that is connected to the route could be used to create a record of travel, or e-card



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# OPTIONS

- ▶ When user is next to the service locations, he can put their contact information in his favorites, call them, send them an e-mail, with all necessary data, and GPS location



# OPTIONS

- ▶ Interactive sending of multimedia content to blogs with data and message



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# OPTIONS

- ▶ Monitoring of public transportation



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# OPTIONS

- ▶ Real-time information about objects of interest, their daily plan, news, actions, offers, etc.



# CONCLUSION

- ▶ Many options exist for themselves
- ▶ Expanding of existing ideas with everyday needs
- ▶ Information in your pocket



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# VIEW TO THE FUTURE

- ▶ Other add-ons include games in real-time and real space
- ▶ Our editions should include support for fridges, ovens, washing machines, water counters, plug-ins and humans





# OUR MOTTO

Don't call the  
plumber,  
The plumber will  
come to you!



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# AND NOW...

## Something completely different...

The promotional videos...



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**APPLAUSE  
PLEASE,**  
This boring  
presentation met  
it's end... **FINALLY.**

Thank you for your patience!





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