# Application Development for Mobile and Ubiquitous Computing

# **DTS
(Dresden Transport System)**

# First Presentation

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# Why do we think it might be interesting?

- Nowadays to get an information about schedule of public transport in Dresden you are using www.dvb.de

- But what if all this information would be integrated into your smartphone?

- Also it might be interesting to associate this information with maps (Google maps, Nokia maps, etc.)

- As soon as application is started it should determine user location using GPS

- Application can either use locally stored transport database or could send a request to www.dvb.de(or some other web site)

- After that nearest station should be depicted on a users map

- Having this information route and average traveling time can be calculated

As a main development tool we are going to use Qt library and SDK provided by Nokia

- Usability challenge
  - GUI and application logic should be intuitive and easy to use
- Device Challenges
  - Usage of native SDK
  - Internet connection optimization
  - Storing of the transport schedule
  - Interaction with the GPS module

1) Study of native Nokia API and device system environment;

2) Design of the nice UI and application architecture;

3) Implementation of interaction mechanism with Nokia maps;

4) Display transport information on a screen.