

# **Project DV 2006**

**"Distributed Real Real-Time Systems"**

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## **Course Overview**

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# Course Overview

## ■ Project DV 15p:

- 50% speed in period 1 (max one other course)
- 100% speed in period 2

## ■ Mål:

- ...members of project group...
- ... how a big project is run...
- ... from planing to implementation...
- ... use modern techniques, tools and principles when constructing programs...
- ... find suitable limitations of the assignment...
- ... deeper knowledge in at least one aspect of a complex distributed system...

# Course Overview

## ■ A project course:

- ...work in project...
- ...lectures...
- ...supplementary lectures on request from students...

## Project DV

- Fall 2002
  - Fotball (team Dynamo Pavlov)
  - Map-making system (K-9)
- Fall 2003
  - Fotball (team Gifr)
  - Real-Time Middleware for Sony AIBO (Kelb)
- Fall 2004
  - Fotball (team Underdogs)



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## Project DV 2005

- Project Avatar
  - A distributed mobile phone game
  - Collaboration with Klas Ericsson
  - [www.odingo.se](http://www.odingo.se)
- Project AGPS
  - Assisted GPS server and test program
  - Collaboration with Mobile Arts



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## Project DV 2006

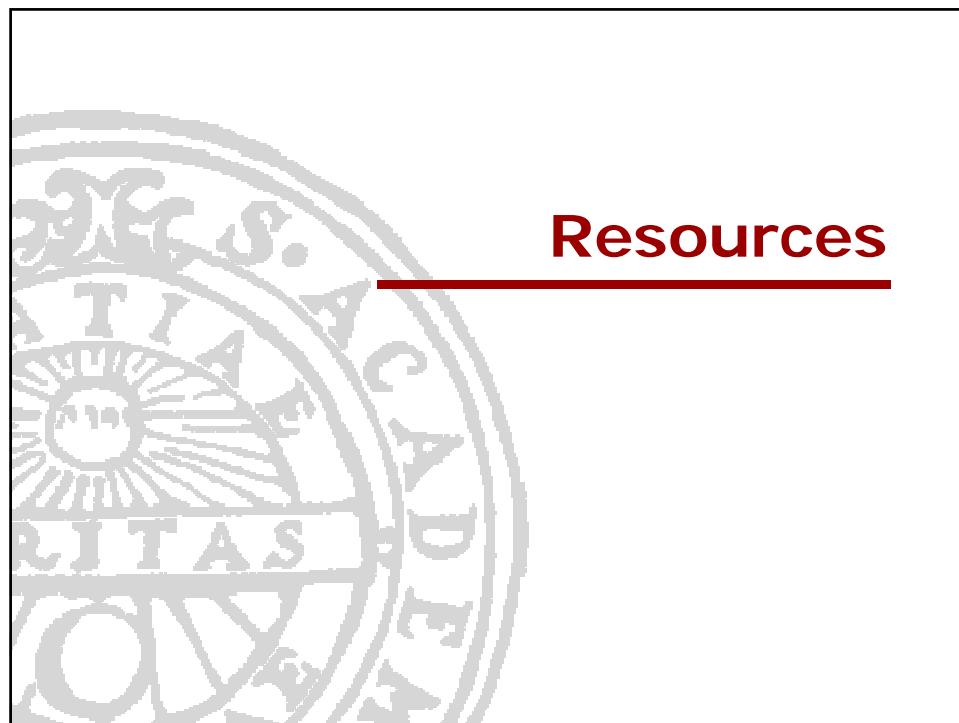
- Considerations:
  - Job market
  - Interesting and motivating
  - Techniques
- Mobile phones and services:
  - Network services/server
  - Programming of phone application/client

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## Project

- Large project
- Group structure (>>4 pers)
- Planning
- Documentation
- System development
- Version management
- Bugreporting
- Time reports

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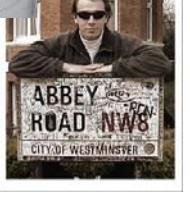


The slide has a dark red vertical sidebar on the left containing the Informationsteknologi logo (a small globe icon) and the text "Informationsteknologi". The main content area contains a list of teachers with their contact information and small profile pictures.

**Teachers**

- **Paul Pettersson**, (testning, realtidssystem), paupet@it.uu.se, room 1439, tel 6232.
- **Olle Gällmo**, (lärande system, AI) Olle.Gallmo@it.uu.se, room 1420, tel 1009.
- **Leonid Mokrushin**, (real-time systems, programming), leom@it.uu.se, room 1236, tel 6230.
- **Anders Hessel**, (testning), hessel@it.uu.se, rum 1436, tel 6201.

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# Industry collaboration 2006

- Mobile Arts:
  - Johan Blom (also at Uppsala university)
  - Peter Sjögren
  - Lars Kari
- Street Media 7:
  - Magnus Bladh
- Aniware:
  - Stefan Gadnell

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- } Points of Interest
- } Teazel goes Mobile

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## Projects characteristics

- Server with database
- Protocol and packages for communication
- Web interface
- Client for cell phone

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## Projects characteristics

- Server with database
- Protocol and packages for communication
- Web interface
- Client for cell phone
  
- Users/PoI/game data
- Existing/non-existing protocols/standards
- Level of specification
- Programming languages (J2ME, Java EE, Erlang)

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## Tools

- CVS/Subversion – version handling
- Bugzilla – bug handling
- wikiportal(s) – project web page, discussion fora, etc
- Diary – time reports (to be filled in by everyone!)
- MS Project – project planning tool

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## Students

- Name?
- How many other students do you know at this course?
- Two forms to be filled in...

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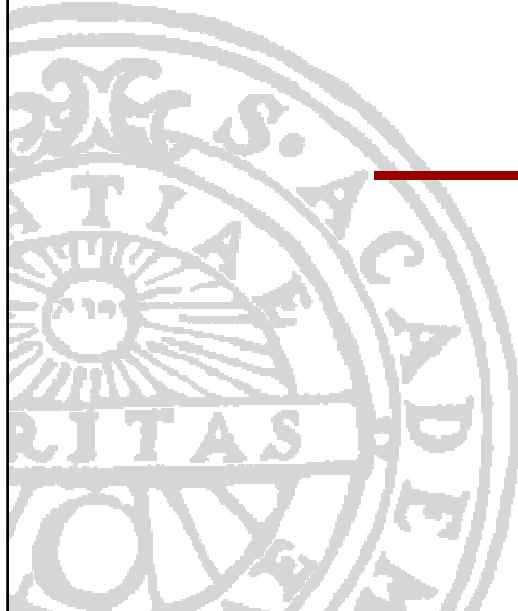
## Project rooms

- 1026 – "Points-of-Interest" project
- 1029 – "Teazel goes mobile" project
  
- Workspace for everyone (chair, desk, computer with network connection)
- Meeting place with white/black board
- Printer
- Test equipment (server, etc) and other hardware (mobile phones, etc).

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## Schedule

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## Schedule this week...

- 1/9, today
  - 09: Intro,
  - 10: Anaware
  - 11: Mobile Arts + Street Media 7
  - Quick look in the project rooms

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## Schedule next week...

- Create work space for everyone in the project rooms
  - Identify if things are missing, make a list of missing things
- Think about which project you want to do
- Consider if you want to be one of the two project leaders
- Study results from 2005 course:
  - Avatar
  - A-GPS
- **Lectures:**
  - 5/9 – We meet to divide into project groups
  - 6/9 – Basics about working in projects
  - 8/9 – Software development methods
- <http://www.it.uu.se/edu/course/homepage/projektDV/ht06/>
- <http://user.it.uu.se/~paupet/>

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# Fall 2006

- 11/10: **Review 1**
- 4+6/10: individual discussions
- ??/12: **Review 2**
- 13-14/11 individual discussions
- Jan 2007: **Presentation** in auditorium next to Rullan for my and your colleagues and press
- Weekly meetings
- Lots of meetings in your project, groups, etc...



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