

# MATSim User Seminar Installation & Setup

- A. Configuring WLAN Access**
- B. Verifying/Installing Java Development Kit**
- C. Installing Eclipse**
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# Configuring WLAN Access

- If you already have an „eduroam“-Account
  - ▶ connect to network „eduroam“
  - ▶ authenticate with your existing account
- If you do not have an „eduroam“-Account
  - ▶ use the guest account printed on the program flyer
- Where do i get the configuration manual?
  - ▶ Connect to network „TU-Berlin\_VPN“
  - ▶ Open a browser and type in any webpage, you will be redirected to a webpage of our IT service
  - ▶ Follow the link to the manual page (switch to the english version on top of the page if necessary)
  - ▶ Select the manual corresponding to our operation system



# Verifying/Installing Java Development Kit

- Checking the java version
  - ▶ Unix/Linux: open a shell
  - ▶ Mac OS: launch the terminal (/Applications/Utilities/Terminal.app)
  - ▶ Windows: open the command prompt
  - ▶ type in `javac -version`
  - ▶ the output should be something like

```
javac 1.5.0_16
javac: no source files
Usage: javac <options> <source files>
...
```
  - ▶ You need at least java version 1.5
- If you do not have the right/no java version installed
  - ▶ go to <http://fgvsp06.vsp.tu-berlin.de>, download and install java for your operation system

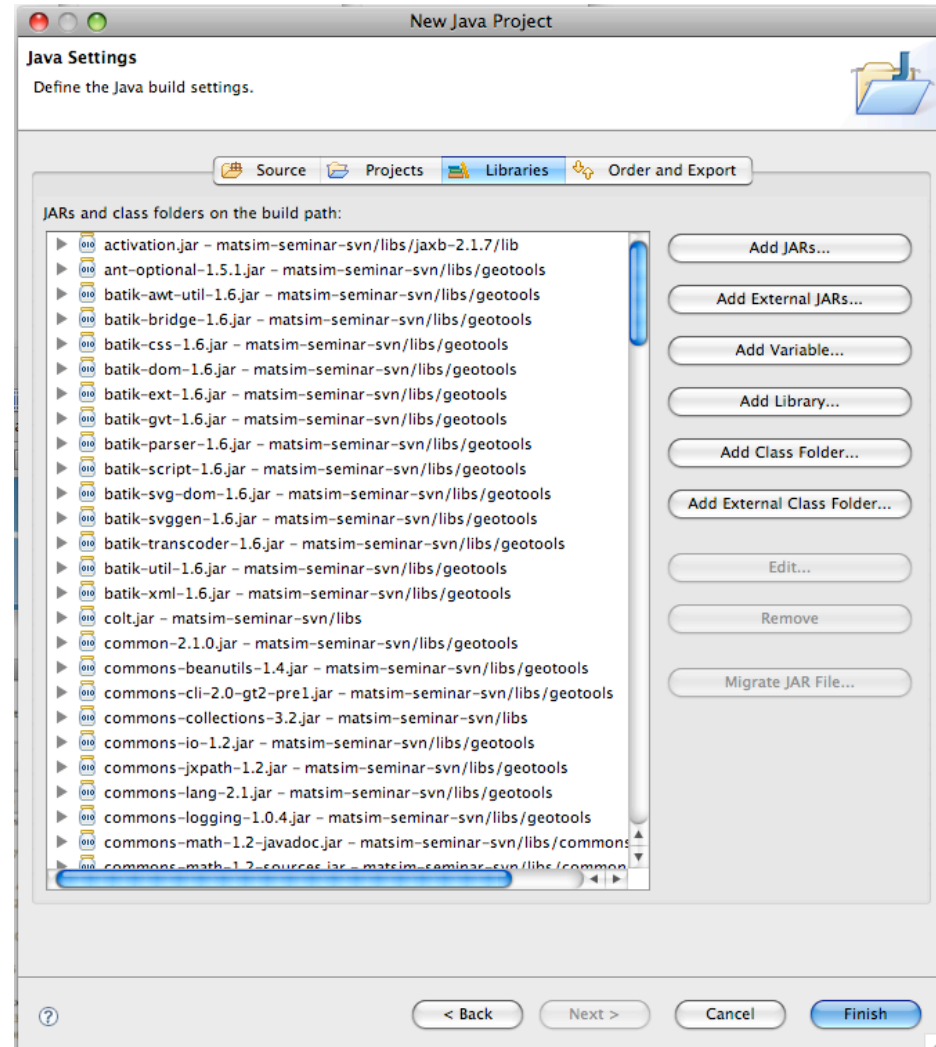
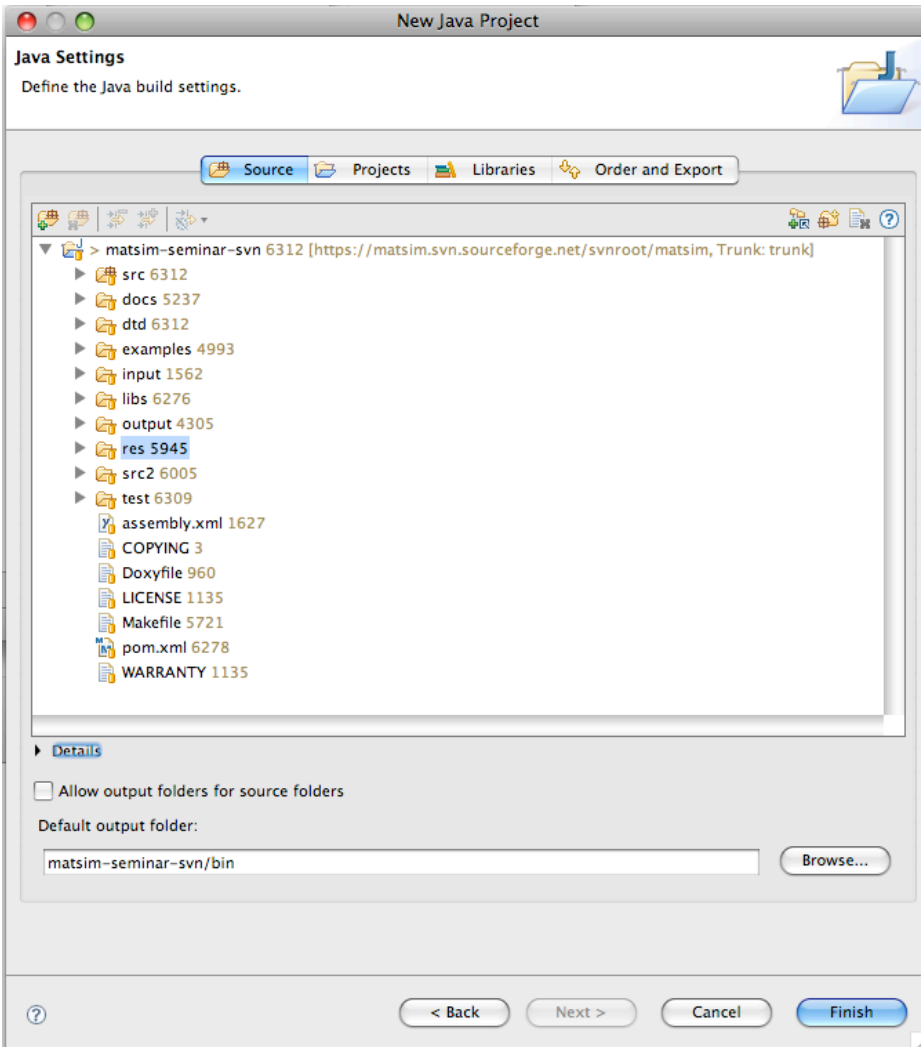
# Installing Eclipse

- We will use Eclipse as our Java IDE (however, you can use any other tool to build MATSim)
- go to <http://fgvsp06.vsp.tu-berlin.de>, download and install Eclipse for your operation system
- If you already have an installation of Eclipse, please check if you have at least version 3.4
  - ▶ If not, you can use the Eclipse build-in software update feature (**Help > Software Updates**)

# Importing a MATSim Project

- Go to <http://fgvsp06.vsp.tu-berlin.de> and download the MATSim-Project zip-file
- Unzip the project (this may take a while)
- Open Eclipse
- Choose **File > New > Java Project**
- Name the project „matsim“
- Select **Create project from existing source**
- Select the unzipped MATSim project as directory
- Click **Next >**
- It should look like that:

# Importing a MATSim Project



# Testing Your MATSim Project

- Select the class `src/tutorial/MyController1.java` in the package explorer
- Choose ***Run > Run As > Java Application***
- The console should pop up and print a lot of cryptic output
- After the java application terminates, you should have a file `events.txt` in your output directory (choose ***File > Refresh*** if necessary)

# Connecting the Project to the SVN Repository

- Connecting the project to the SVN repository allows you to stay up to date
- We will use the Subversive SVN plugin for Eclipse (however, you can also use any SVN client)
- Installing the Subversive SVN plugin
  - ▶ In Eclipse choose **Help > Software Updates...**
  - ▶ Go to tab **Available Software**
  - ▶ Choose **Add Site...**
  - ▶ Type in
    - ▶ <http://download.eclipse.org/technology/subversive/0.7/update-site/>
    - ▶ <http://www.polarion.org/projects/subversive/download/eclipse/2.0/ganymede-site/>

# Connecting the Project to the SVN Repository

- Unfold ***Subversive Site***
  - Select ***Subversive SVN Team Provider Plugin (Incubation)***
- Unfold ***<http://www.polarion.org/projects/subversive/download/eclipse/2.0/ganymede-site/>***
  - Select ***Subversive SVN Connectors***
- Click ***Install...***
- Confirm the following dialogs
- Restart Eclipse

# Connecting the Project to the SVN Repository

- Select **Window > Preferences**
- Go to **Team > SVN**
- Select tab **SVN Connector**
- Make sure **SVN Connector** is set to **SVN Kit (SVN/1.5.5 ...)** (or any other SVN 1.5 compatible connector)
- Click **OK**

# Connecting the Project to the SVN Repository

- Right click your matsim project
- Select **Team > Share Project**
- Select **SVN**
- Click **Next >**
- Again click **Next >**
- Click **Finish**

# Updating Your Project

- Right click your matsim project
- Select ***Team > Synchronize with Repository***
- (Confirm the dialog)
- Blue left-arrows indicate incoming changes
- You can inspect a file in the compare editor to see what changes has been made
- Right click a file/package and choose ***Update*** to update your local working copy

# Adding a New Library to the Build Path

- Right-click your matsim project
- Choose ***Build Path > Configure Build Path...***
- Go to the ***Libraries*** tab
- Click ***Add JARs...***
- Select the JAR-file to add (should be located in the libs directory)