

A stylized illustration of a family of four (a square-headed figure, a tall green figure, a blue figure, and an orange figure) holding hands, enclosed within a purple circular arc. The background features concentric, semi-circular bands in shades of orange, green, and purple.

**TEAM**

EUREKA Study  
Participant Info

# Welcome to EUREKA



- EUREKA is a scientific study within the TEAM project to learn about developers behaviour
  
- With collected data, we aim at improving Eclipse
  - You can expect potential **benefits for your personal work** within the next months
  
- Participating in EUREKA should not take you more than 10 minutes per day

# What is TEAM?



- TEAM is a European research project to improve developers' collaboration and knowledge sharing inside the development environments
- TEAM strives to deliver a practical, relevant and usable Eclipse-based solution
- The results of TEAM will be released as Open Source code

# What is EUREKA?



- EUREKA is an Eclipse plugin, which:
  - Automatically monitors your development activities
  - Asks you to write a short „log“ of your daily activities and problems encountered during a period time
  
- The data will be used to build algorithms for automatically identifying
  - Developer activities and intentions
  - Problem situations during implementation tasks
  
- The data can be sent automatically to the TEAM JIRA server
  - or manually by e-mail

# Which data will be collected?



- EUREKA will sense
  - Your actions in Eclipse (save, compile, switch view...)
  - Your web searches when Eclipse is active
  - Associated *structure* of your source code (not the full code)
  
- Submitted data is completely transparent to you
  - You can look at EUREKA xml files before submitting
  
- Important:
  - Only TEAM researchers will have access to submitted data
  - The data is anonymous and is used ONLY for research purposes
  - TEAM partners are subject to strict confidentiality, due to the consortium agreement contract
  - Clearance for the data collected by EUREKA **has been assured by the representatives of your company**

# How to participate in EUREKA?



- In order to participate you need to:
  - **Install the EUREKA Eclipse plugin** from the update site (max. 5 minutes, depending on your network connection)
  - **Configure the plugin** by filling the preference dialog (max. 2 minutes)
  - **Work as usual**, while running EUREKA in the background for 5 working days (first iteration) resp. 10 working days (second iteration)
    - **Describe your activities** several times per day (see next slide)
    - **Describe encountered problems**
  - **Submit the collected data** for analysis (either via pre-configured JIRA-access or by E-Mail to [aknowledge-org@fzi.de](mailto:aknowledge-org@fzi.de))
  - Finally uninstall the plugin
  
- See also the Video at
  - [http://www.fzi.de/downloads/wim/hajo/eureka/eureka\\_intro.avi](http://www.fzi.de/downloads/wim/hajo/eureka/eureka_intro.avi)

# How to describe activities and blockers?



- What to describe?
  - Your development activities, i.e. issues you solved during the working day
  - The blockers and problems you encountered while developing (if any)
- How often?
  - Each time you switch to another task (i.e. around once an hour)
    - If not possible, you can do a summarise description at the end of the day
  - Each time you encounter a problem (blocker)
  - Each time you solve a problem (log)
- How long?
  - For the analysis, we require data about approx. 15 working days (will be gathered in two iterations)
    - Iteration one: 5 working days
    - Iteration two: 5-10 working days
  - A day counts if you use Eclipse at least for 4hours
    - You can use other tools in parallel
  - The days should be consecutive

# Examples of activities and blockers



## Activities

- Eliminated Null-Pointer Exception I got in Transaction thread.
- Fixed bug Nr. 123 and conducted regression tests.
- Implemented the change request described in Bob's mail of 05.02.2008
- Added a Singleton to BankTransactionListener
- Integrated the code of Alice about logging with my code for caching
- Started implementation of XML export feature, tried out Apache XML Parser
- 10:00-11:00 Meeting to discuss dependencies of Bug 123 and Bug 145"

## Blockers

- A Null-Pointer Exception when running V214, I think this is originating from adding the cache
- Example code I got from the javadev group is not compiling. Error message: Error XY....
- I am not sure which of interfaces from the Logger Libraries I should use
- The code I checked out is not building even when following the instruction in the Wikis
- No documentation available for using com.sun.beans. I don't know how to instantiate BeanPool



- EUREKA Eclipse Update-Site

- <http://www.fzi.de/downloads/wim/hajo/eureka/1.0/>

- Instruction Video

- [http://www.fzi.de/downloads/wim/hajo/eureka/eureka\\_intro.avi](http://www.fzi.de/downloads/wim/hajo/eureka/eureka_intro.avi)

- TEAM Project Homepage

- <http://www.team-project.eu>

# Finally..



- Thank you for your participation!
- For further questions...
  - Ask your local colleague who is involved in the TEAM project
  - The primary contacts for EUREKA:

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