Group 6: Mining Software Repository (MSR)

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MSR is ...

- Evergreen: 11
- Mature: 10
- Emerging: 6
What is the research in MSR?

- Requirement: 9
- Design: 2
- Implementation (debugging): 2
- Testing: 2
- Maintenance: 20
- Management: 0

Legend:
- Blue: Requirement
- Red: Design
- Green: Implementation (debugging)
- Purple: Testing
- Cyan: Maintenance
- Orange: Management
Do companies use MSR?

- **Academia**
  - Regularly: 1
  - Occasionally: 4
  - No, but interested in: 7
  - No interest: 1

- **Industry**
  - Regularly: 2
  - Occasionally: 1
  - No, but interested in: 2
What are the obstacles?

- Don't have good-enough tools: 7
- Don't see the need: 3
- Data of insufficient quality: 5
- Confidentiality: 4
- Lack of time: 6
- Techniques do not fit in development workflow: 2
- Others: 2
According to industry ...

- Not enough qualified people nor proper tools
- Lack of money and time!
- Confidentiality is becoming less of a problem
How can we address these issues?

- The community is doing fine: 14
- Expand industry acceptance: 23
- Identify shortcomings of repositories: 13
- Explore other formats of repositories: 14
- Better recovery techniques: 10
- More qualitative analyses: 9
- More actionable results: 12
- Others: 2
How to expand acceptance?

• Academia
  – Make tools and benchmarks available
  – Increase confidence in the results
  – Verify the results with developers

• Industry
  – Focus on measures and models that address real problems
Conclusion

Cooperation!