Project Kick-off with Distributed Pair Programming

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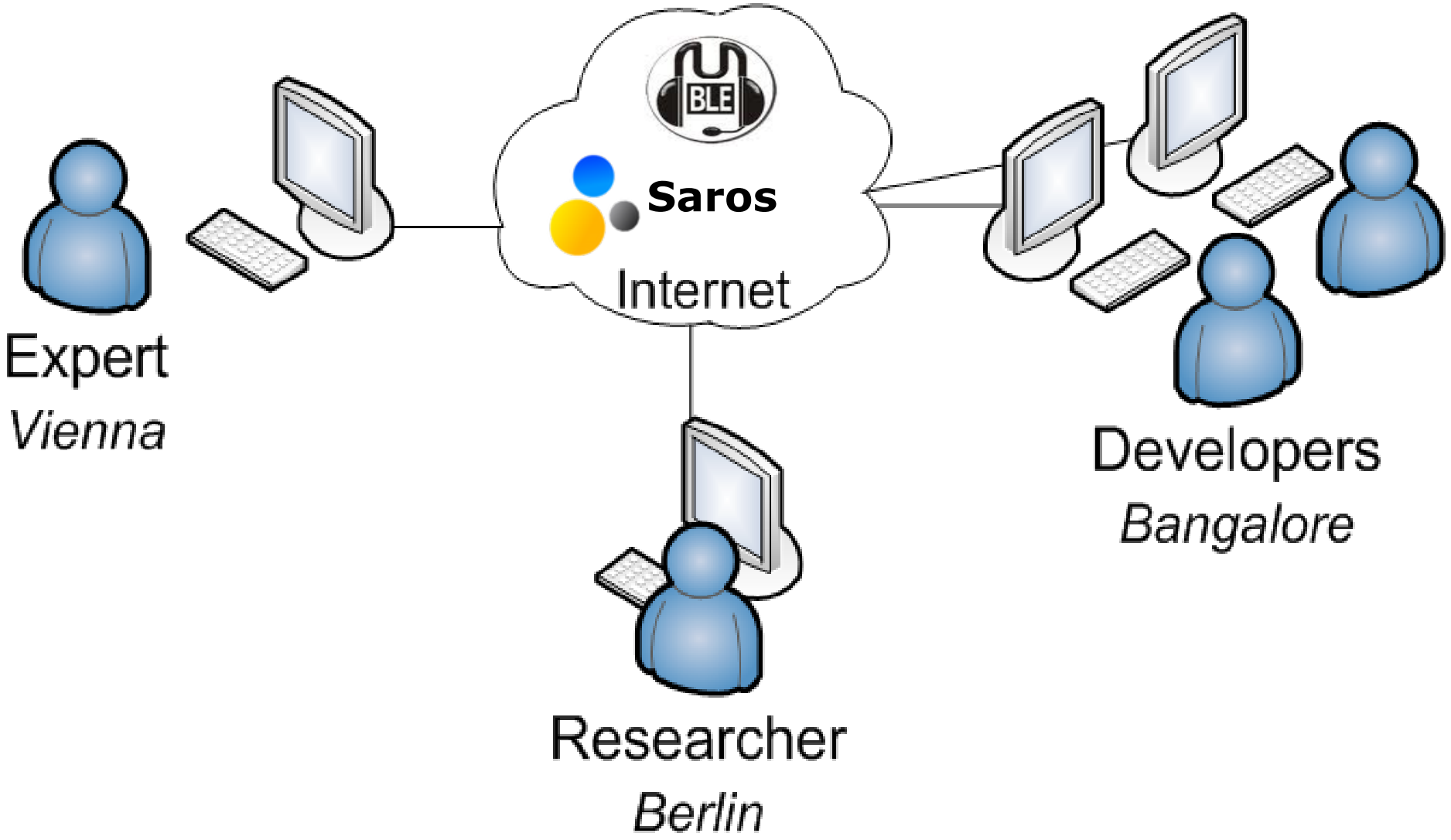
The Project


BLE
Saros
Internet
Expert
Vienna
Developers
Bangalore
Researcher
Berlin

IDE including Saros Plug-In

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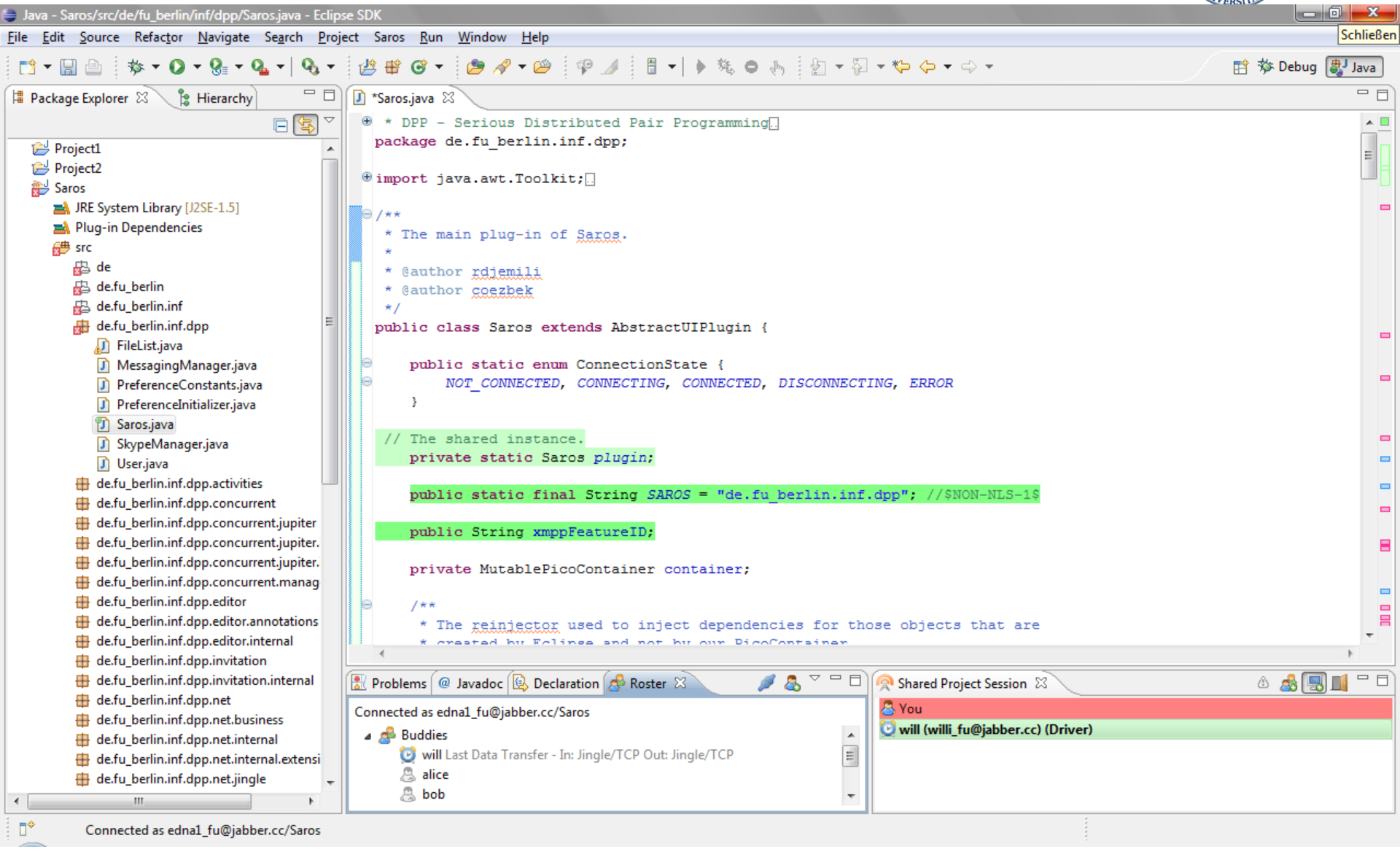
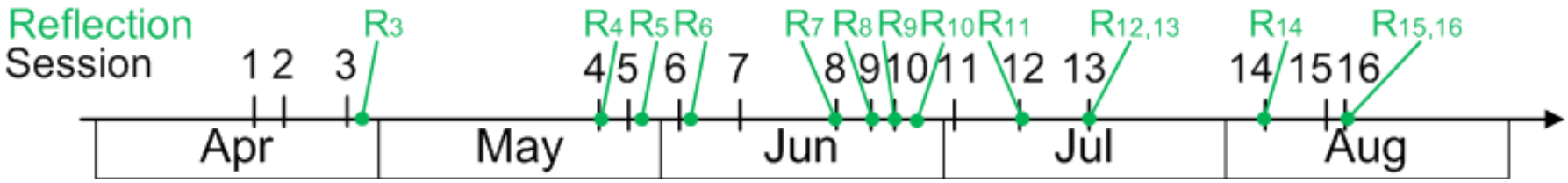
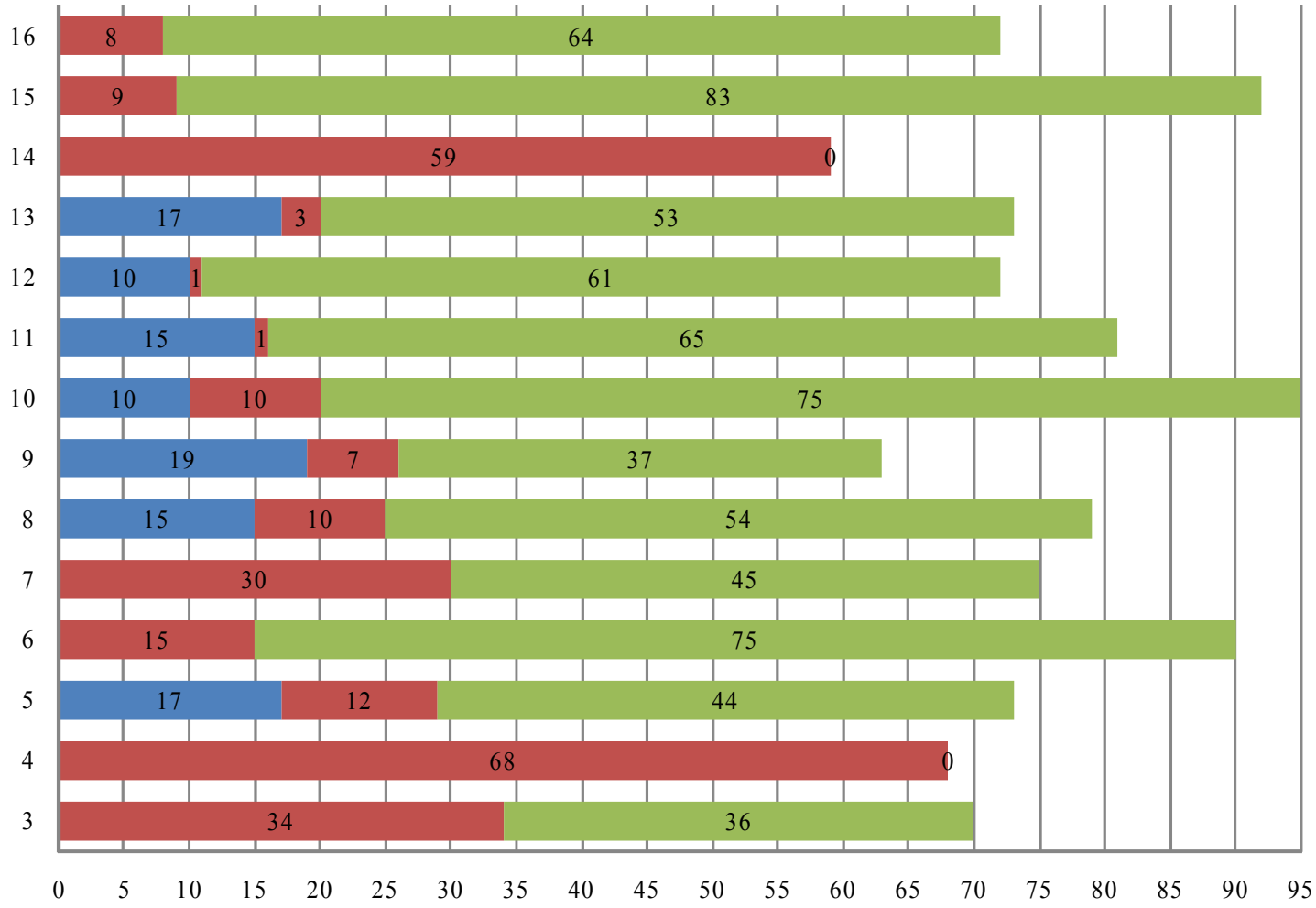


Project Overview



- 16 sessions in 4 months
- About 1 session per week
- Developer's goals: knowledge transfer/producing code
- Session duration: about 90 min.
- Tasks: developing/review
- Content: chosen by expert

Project Overview



Data Analysis

- Researcher + 2 PP-experts
- Detailed content analysis
  - Identify phenomenon
  - Categorize phenomenon
  - Analysis in context of the establishment process

➔ Insights about the benefits and problems of DPP

Benefits of DPP for Project Kick-off

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- Developers declared sessions as successful in 12 of 13 questionnaires
  - In at least 85% DPP was helpful to achieve the session goal
- Communication was enhanced
  - Before: chat messages and e-mail
- Important information were transferred
  - Teaching while coding or walkthroughs
- Tasks could be accomplished faster
  - No delay in feedback

Problems of DPP for Project Kick-off

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- Missing workspace awareness
- Ambiguity about session goals
- Conflicts with role fulfillment
  - Example: Driver/Observer role

Problems of DPP for Project Kick-off

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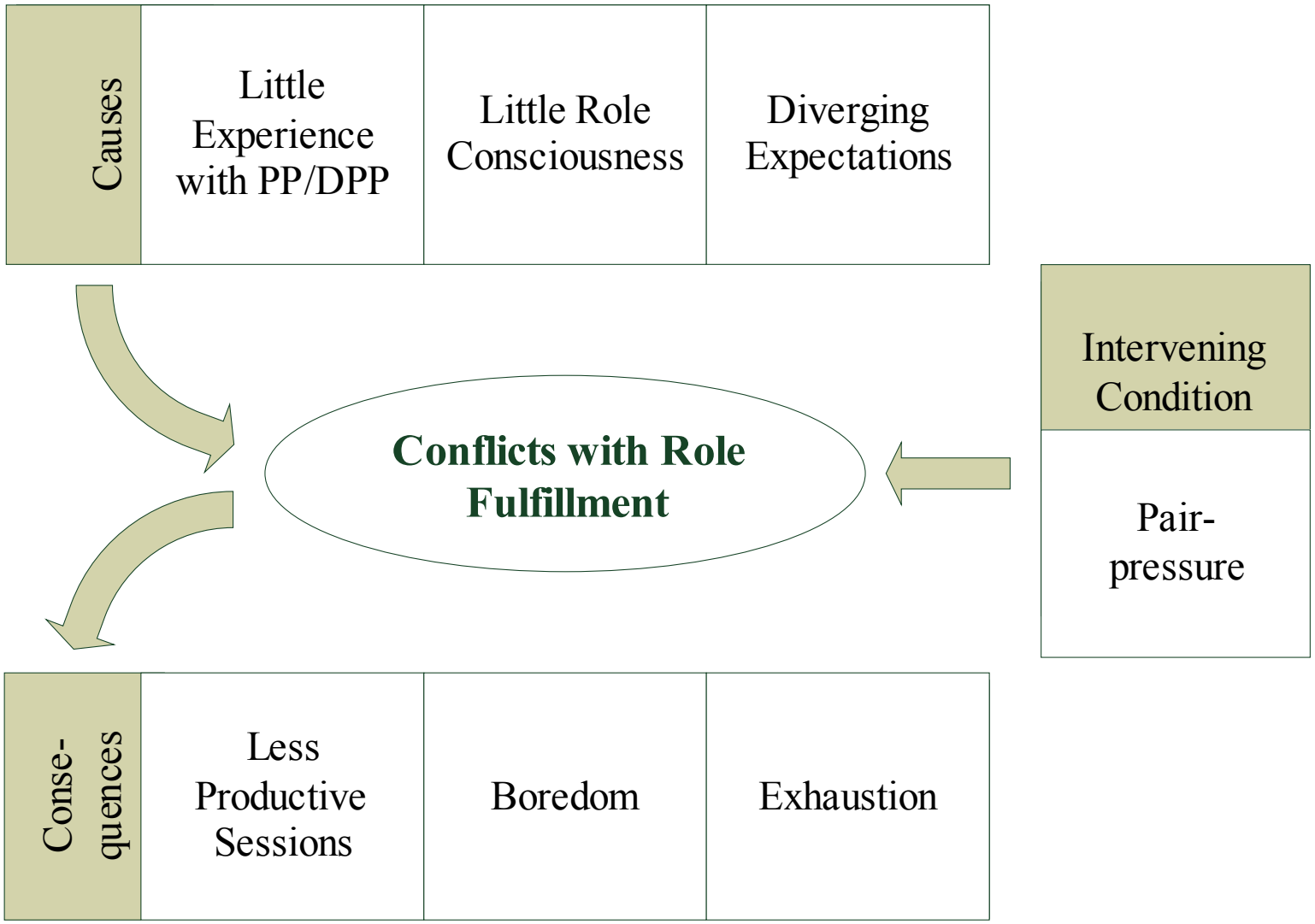

Problems of DPP for Project Kick-off

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- Lessons learned:
  - Problems can stay unresolved although identified early
  - DPP benefits remain undiscovered
  - Resolving conflicts depends on the developer's fears and attitudes

Conclusion

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- Kick-off accomplished successfully
- Constant process improvement according to developer's requirements
- Benefits of DPP for project kick-off:
  - Communication, knowledge transfer, fast feedback
- Challenging problems:
  - Ambiguity about session goals, and missing workspace awareness, conflicts with role fulfillment

Thank you!

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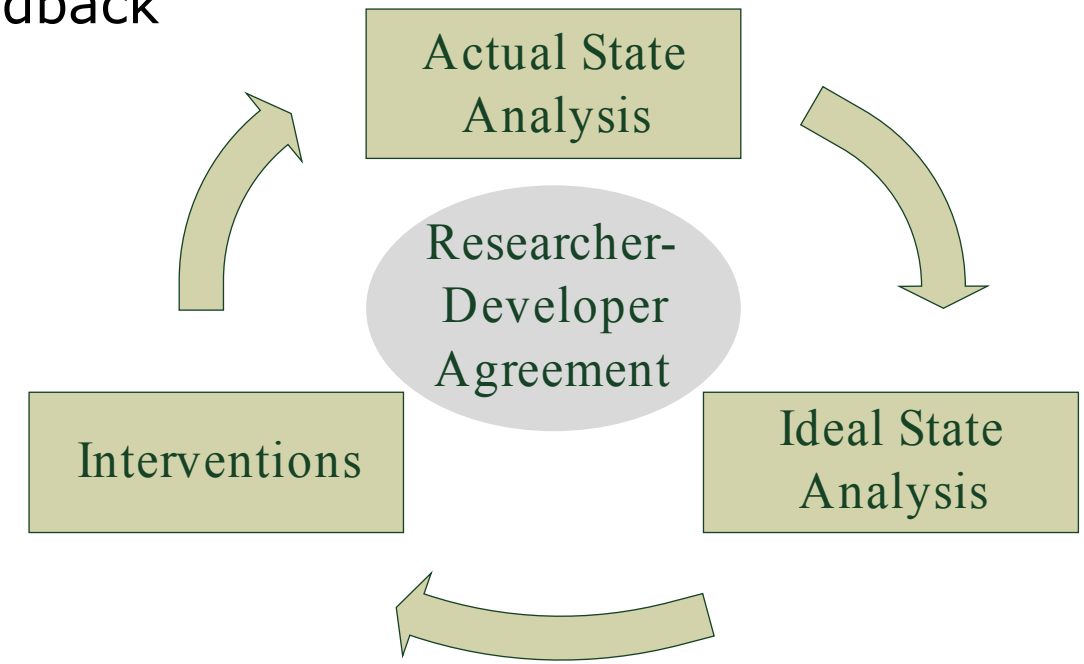
Research Method

- Identify and cope with problems
- Uncover relevant procedures
- Principles of Canonical Action Research
  - Cyclic/iterativ
  - Insights/Feedback



Future work

- Improving Saros (Awareness)
- Adding video
- Training and guideline before establishment of DPP