

Database Systems Group • Prof. Dr. Thomas Seidl

# Plenum Session II

Praktikum Big Data Science SS 2017





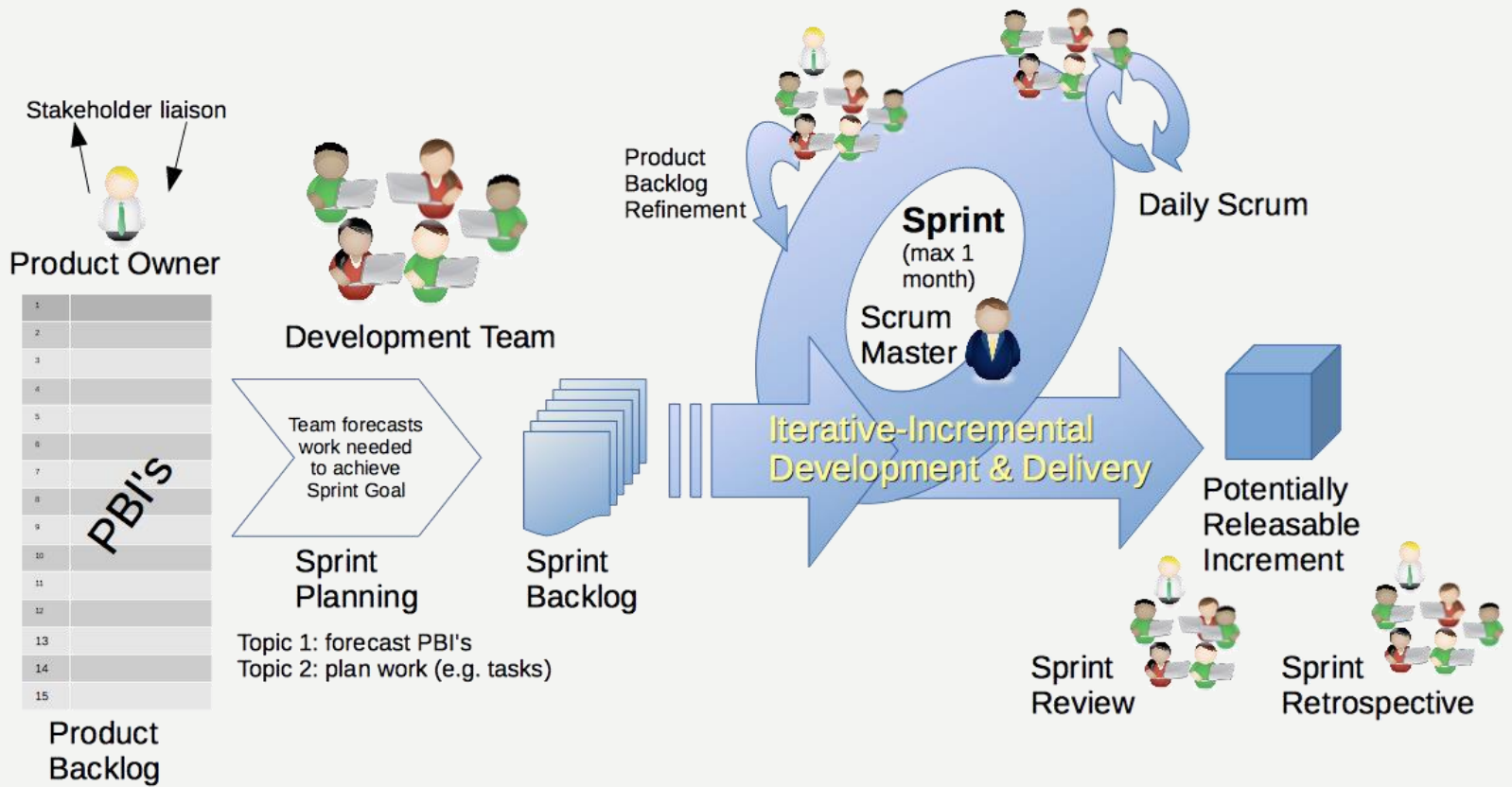
- Fixed dates
    - 03.05. Kickoff-Meeting
    - **10.05. Planning of Sprint 0**
    - 24.05. End of Sprint 0, Planning of Sprint 1
    - 07.06. End of Sprint 1, Planning of Sprint 2
    - 21.06. End of Sprint 2, Planning of Sprint 3
    - 05.07. End of Sprint 3, Planning of Sprint 4
    - 19.07. End of Sprint 4, Final presentations
  - Today
    - **14:00 – 15:00: Plenum Session**
    - 15:00 – 17:00: Sprint planning with your supervisor
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- The diagram uses brackets to group the items in the 'Fixed dates' list. A bracket on the right side groups the first three items (03.05. Kickoff-Meeting, 10.05. Planning of Sprint 0, and 24.05. End of Sprint 0, Planning of Sprint 1) under the label 'Introductory phase'. A second bracket groups the remaining five items (07.06. End of Sprint 1, Planning of Sprint 2, 21.06. End of Sprint 2, Planning of Sprint 3, 05.07. End of Sprint 3, Planning of Sprint 4, and 19.07. End of Sprint 4, Final presentations) under the label 'Project phase'.



- Groups
- Scrum
- GitLab & JIRA
- OpenNebula
- Sprint Planning



- Group 1: Eagle Eye
  - Topic: Search Engine
  - Supervisor: Sebastian Schmoll
- Group 2: Die flinken Apachen
  - Topic: Subspace Clustering
  - Supervisor: Daniyal Kazempour
- Group 3: Samba
  - Topic: Small Data
  - Supervisor: Evgeniy Faerman
- Group 4: Deep Thought
  - Topic: Graph Learning
  - Supervisor: Julian Busch



[https://en.wikipedia.org/wiki/Scrum\\_\(software\\_development\)](https://en.wikipedia.org/wiki/Scrum_(software_development))



- Roles

- Development Team (DT)

You

- Responsible for a technically successful and maintainable product
    - Produces the code and ships a product increment by the end of each sprint
    - Different skill sets - shared responsibility
      - Members cross-train each other
    - Organize and manage their work by themselves

- Product Owner (PO)

Your Supervisor

- Responsible for the economical success of the project
    - Product Backlog management and prioritization of items
    - Connection to customers and business

- Scrum Master (SM)

Your Supervisor

- Responsible for the successful Scrum process
    - Organization and moderation of meetings



- Meetings

- Sprint Planning (DT, PO, SM) **1h**
  - Check availability of the team (SM)
  - Select and prioritize product backlog entries (PO)
  - Create a sprint backlog
    - Break down backlog items into smaller tasks
    - Estimate effort involved for each task -> Planning Poker
    - Decide, what can be realized during the sprint and create a sprint backlog
- Daily Scrum / Stand-up (DT, SM) **15min**
  - Clarify the following questions:
    - What did I do to reach the sprint goal?
    - Which impediments did I face?
    - What will I do next to reach the sprint goal?



- Sprint Review (DT, PO, SM) 30min
  - Inspect & Adapt for the product
  - Presentation of the sprint results (DT)
  - Collection of feedback for the product (PO)
  - Adaptation of the product backlog (PO)
- Sprint Retrospective (DT, PO, SM) 15min
  - Inspect & Adapt for the next sprint
  - Questions:
    - What went well during the sprint?
    - What could we improve for the next sprint?
  - Identify and agree on process improvement actions





- Schedule
  - Every 2 weeks (Wed. 14:00 – 16:00)
    - Sprint Review 30min
    - Sprint Retrospective 15min
    - Sprint Planning 1h
  - Regularly (on appointment with your supervisor)
    - Stand-up 15min
  - Location: Upon agreement with your supervisor.



- Log-in
  - Link: <http://kythera.dbs.ifi.lmu.de:8080>
  - Username: Your Lastname
  - Password: enrollment number (please change asap)
  - VPN required





- Issues
  - 3 Types: Product Backlog, Sprint Backlog, TeamWork
  - Links:
    - Child/Parent of: Links between Product/Sprint Backlog
  - Subtasks:
    - Use for TeamWork in Sprint Backlog issues
  - Assignee
    - Person who solved this issue
  - Use time tracking
  - Will be considered for individual grading





- Log-in
  - Link: <https://gitlab.cip.ifi.lmu.de>
  - Credentials: CIP (see CIP conf)
  - Check Project Group/team-name
- Clone Repository
- Demo
  - Screen recording will be uploaded on the website





- Demo
- You should start with playing around a bit by yourselves
- We have prepared a short tutorial for setting up a basic Flink cluster
- Accounts
  - We have registered one LRZ account for each group
  - Each account is associated with a budget
    - You have limited resources, be mindful and handle them responsibly and efficiently! (e.g. undeploy your VMs when you don't need them anymore)
    - If you need additional resources for your experiments, talk to us





- Time schedule for today
  - 14:00 – 15:00: Plenum Session
  - **15:00 – 17:00: Sprint planning with your supervisor**
- Meet with your supervisor
- Goals for today:
  - Setup and configuration of GitLab and JIRA
  - Planning of Sprint 0:
    - Theoretical preparation of your topic
    - Setup of a Flink cluster in OpenNebula