Software Center

CHALMERS

Welcome to the
Software Center reporting workshop

December 6, 2018
Volvo HQ, Gropegårdsgatan 2, Gothenburg

11.45-12.30:
Product Management meeting

13.30-15.00:
Systems Engineering meeting

Time: 10:00 – 17:00 (coffee & registration 09:30-10:00)
Place: Volvo, Gothenburg
Address: Gropegårdsgatan 2, Gothenburg

Agenda

09:30: Coffee & registration

10:00: Welcome & introduction: Jan Bosch

10:15: The impact of Digitalization
  • Roger Holmberg,
    Operational Product Owner, Ericsson
  • Magnus Sundberg, CTO, Surface Radar, Saab

10:45-11.15 Theme presentations:
  • Continuous Delivery: Kristian Sandahl
  • Continuous Architecture: Jan Carlson
  • Metrics: Miroslaw Staron
  • Customer Data- and Ecosystem-Driven
    Development: Helena Holmström Olsson

11.15-12.30: Exploration space & coffee
– overview of Software Center projects
or
11:45-12.30 Product management meeting

12:30-13.30 Lunch (at own expense)
Seats reserved at the Volvo restaurant

13:30-15.00 In-depth theme sessions (30 min x 3)
  • Continuous Delivery
  • Continuous Architecture
  • Metrics
  • Customer Data- and Ecosystem-Driven
    Development
Or
13:30-15.00 Systems Engineering in the Age of
Digitalization: meeting for system engineers
Chair: Jan Bosch

15.00-15.20 Coffee break

15.20: What really matters in software engineering
Keynote by Gerd Hoefner, Managing Director and
President at Siemens Healthcare

16.00: Summary and closing: Jan Bosch

16:10-17.00 Demo Tour at Volvo

For agenda up-dates, visit the Software Center web site
www.software-center.se

Contact us

Jan Bosch, Director, jan.bosch@software-center.se, 031-7725716
Malin Rosqvist, Program manager, malin.rosqvist@software-center.se, 076-0853346

Software Center reporting workshop:
Exploration space - themes and projects
Time: 11.15-12.30

Theme 1: Continuous Delivery

- **#18 Visualization of Continuous Integration;** Azeem Ahmad, Ola Leifler, Kristian Sandahl
- **#30 Aspects of Automated Testing**; Francisco Gomez, Azeem Ahmad, Ola Leifler

Theme 2: Continuous Architecture

- **#2: Managing Architectural Technical Debt**; Antonio Martini
- **#25: Closing the Safety-Security Gap in Software Intensive Systems**; Kaj Hänninen
- **#32: Model-based Development and Continuous Integration**; Robbert Jongeling, Jan Carlson

Theme 3: Metrics

- **Continuous Product and Organizational Performance**; Miroslaw Staron, Gul Calikli
- **Longitudinal Measurement of Agility and Group Development**; Lucas Gren
- **Quasar@Car - Quantifying meta-model changes**; Miroslaw Staron, Darko Durisic
- **RAWFP - Resource Aware Functional Programming**; Patrik Jansson
- **Size and Quality between Software Development Approaches**; Regina Hebig
- **VISEE - Verification and Validation of ISO 26262 requirements at the complete EE system level**; Rakesh Rana

Theme 4: Customer Data- and Ecosystem-Driven Development

- **#5: Accelerating Digitalization Through Data**; Helena H. Olsson, Jan Bosch
- **#9: Strategic Ecosystem-Driven R&D Management**; Helena H. Olsson, Jan Bosch
- **#19: Data-Driven Continuous Evolution of Autonomous Systems of Systems**; David Issa Mattos, Jan Bosch and Helena H. Olsson
- **#26: API Strategies**; Jennifer Horkoff, Juho Lindman, Imed Hammouda, Eric Knauss
- **#27: Requirements Engineering for Large-Scale Agile System Development**; Eric Knauss, Jennifer Horkoff, Rashidah Kasauli, Grischa Liebel, Francisco Gomes

Product Management meeting: 11.45-12.30
Systems Engineering meeting: 13.30-15.00

Product Management meeting   **Room: LV-hallen**
Meeting for product managers, focusing on the implications of digitalization
Chair: Jan Bosch

Systems Engineering   **Room: LV-hallen**
Meeting for System engineers, focusing on the implications of digitalization
Chair: Jan Bosch

Theme sessions: 4 tracks
Time: 13.30-15.00

Theme 1: Continuous Delivery (I)   **Room: VGH30**
Chair: Torvald Mårtensson

Project #6: Enterprise Scale Continuous Integration and Delivery
13.30-14.00:   Test Activities in the Continuous Integration and Delivery Pipeline; Torvald Mårtensson
14.00-14.30:   Continuous Architecture: Towards the Goldilocks Zone and Away from Vicious Circles; Torvald Mårtensson
14.30-15.00:   Big Bangs and Small Pops: On Critical Cyclomatic Complexity and Developer Integration Behavior; Antonio Martini

Theme 1: Continuous Delivery (II)   **Room: Gästmatsal 4**
Chair: Kristian Sandahl
Projects #18 and #30:
Data Visualization for Continuous Integration & Aspects of automated testing
13.30-14.00:   Visualization of Jenkins events; Similarity-based testing; Flaky tests
                Kristian Sandahl, Azeem Ahmad, Ola Söder

Theme 2 & 3:
Continuous Architecture & Metrics   **Room: VGHQ802B**
Chairs: Jan Carlson & Miroslaw Staron

13.30-14.00:   #2: Managing Architectural Technical Debt; Antonio Martini
14:00-14.30:   #32: Model-based Development and Continuous Integration; Robbert Jongeling
14.30-15.00   #3: Autonomous code quality assessment using deep learning and Gerrit review system: Miroslaw Staron

Theme 4: Customer Data- and
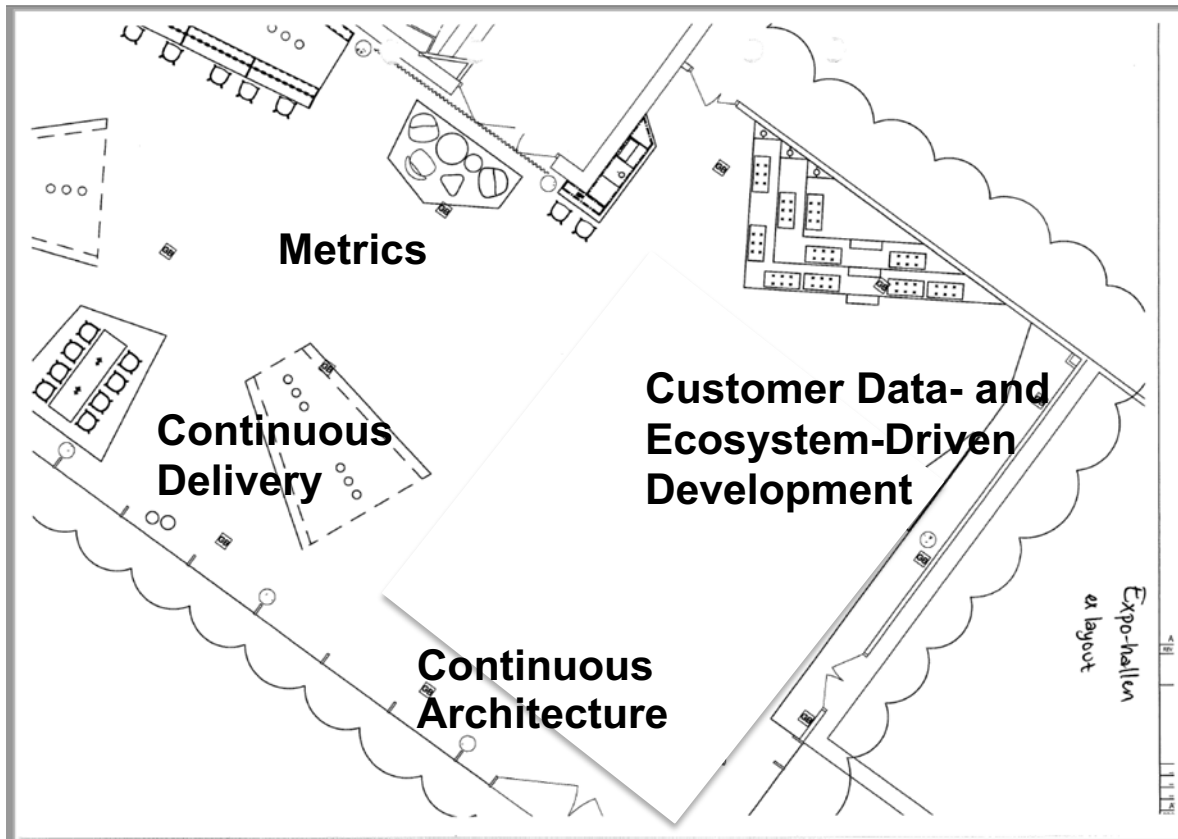## Ecosystem-Driven Development   **Room: Gästmatsal 5**
Chair: Helena Holmström Olsson

13:30 - 14:00:   #5: Accelerating Digitalization Through Data; Helena H. Olsson
                  #19: Data-Driven Continuous Evolution of Autonomous Systems of Systems: David Issa Mattos
14:00 - 14:30:   #26: API Strategies; Jennifer Horkoff
                  #27: Requirements Engineering for Large-Scale Agile System Development; Jennifer Horkoff
14:30 - 15:00:   #33 HoliDev; Ivica Crncovic
                  CHAIR, Chalmers AI Research: Ivica Crnkovic

Map of event site at Volvo

Exploration space:

Theme sessions, 13.30-15.00:

Product Management meeting: LV-hallen

Theme sessions
- **Continuous Delivery I: Room: VGH30 (next to LV_hallen)**
- **Continuous Delivery II: Room: Gästmatsal 4 (entrance floor)**
- **Continuous Architecture & Metrics: Room: VGHQ802B (8th floor)**
- **Customer Data- and Ecosystem-Driven Development: Room: Gästmatsal 5**