



#### FLOW SYSTEMS CONTROLER NEXT GENERATION

#### **A USE CASE**

#### ROBERT BIJL SOFTWARE ARCHITECT 2 JUNE 2009



### Agenda

Project and product background

•Mapping scrum phases to project

Lessons learned / evolutions

Questions





#### System architecture





















### **Defining architecture**

























# **Development/Test/Deploy**





#### **Continues integration**









### Integration test in office





# Sprint integration









# Sprint demo









# Sprint retrospective





Development team









Left overs









### **Lessons learned / Observations**

•Product architecture is required upfront when scope is broad

•Implementation architecture can be done using hybrid Agile

•Feedback loop  $\rightarrow$  Requirements and Demonstration should stay in same pace as feature development.

•High team spirit.

Introduction of processes and tooling can be Agile

•Huge focus on functionality.

•Domain and design knowledge is shared in team in high pace

•Challenge to combine refactoring and technical backlog with sprint plan

•Challenge to combine PR work with sprint plan

•High pace adding new functionality



#### Agile evolution observations

-Integration process is more formalized.

- -Estimation process keeps evolving.
- -Definition what is finished (Shortcuts, Future scope)
- -Estimating integration work
- -Continues integration requires continues attention (Task size)
- -Need for component design responsible
- -High hesitation to make architectural changes
- -Commitment from project sponsors still high



#### **Discussion topics**

1.Product architecture is required, realization can be done using a hybrid Agile way of working.

2. Process issues are more visible due to Agile way of working

#### 3. Agile architecting leads to more rigid architectures







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