



## Early Project Estimation

With User Stories or Use Cases

Remi-Armand Collaris and Eef Dekker



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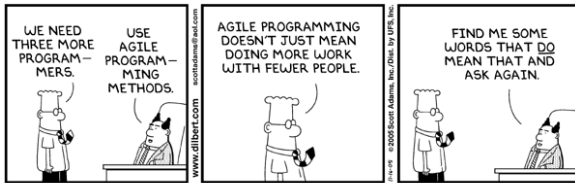
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### Dilbert

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### INTRODUCTION

#### Why early estimation

- People have budgets!
- Set and meet expectations
- The XP customer Bill of Rights:
  - “You have the right to an overall plan, to know *what* can be accomplished *when* and at *what cost*.”

#### How to do an early estimation

- Stakeholders *together* with IT
- In one session

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## PROJECT ESTIMATION USING USE CASE POINTS

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### • Weight of a Use Case / User Story:

- Simple – 5 Use Case Points – 1-3 use case transactions
- Average – 10 Use Case Points – 4-7 use case transactions
- Complex – 15 Use Case Points – 8 and more use case transactions

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## USE CASE TRANSACTION

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It is a 'round trip' from the Actor to the system and back to the Actor:

- The Actor performs some action which is input for the system
- The system processes this input and returns a result back to the Actor
- A transaction is complete if the system waits for new input of the Actor
- A new transaction starts when the Actor reacts, which is input for the system, etcetera.

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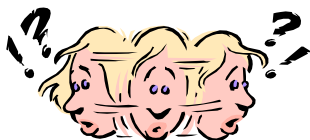
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## QUESTIONS

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## LET'S DO IT

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- Estimate a set of stories and share the experience

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## ESTIMATION BACK TO HOURS

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- Spreadsheet for project estimation using Use Case Points can be found at <http://scrumup.eu/downloads.html>

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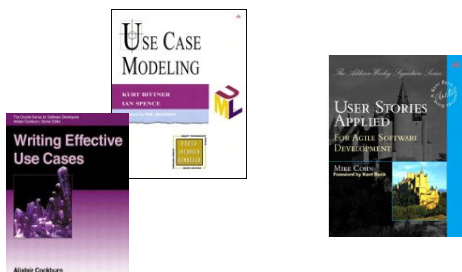
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## User Stories or Use Cases

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## USER STORIES

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As persona, I want goal, so that value.



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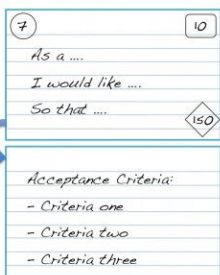
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## USER STORIES

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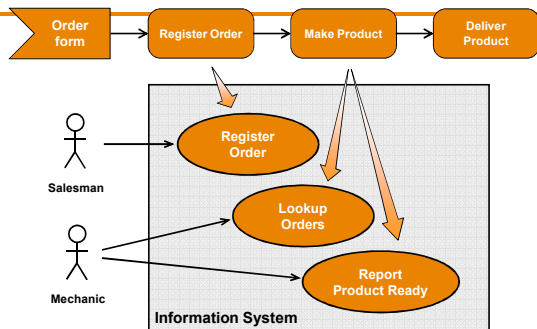
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## Use Case Modeling

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**Agile Planning**

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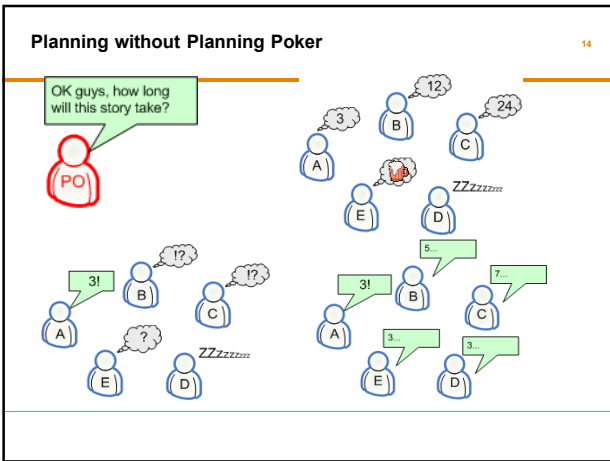
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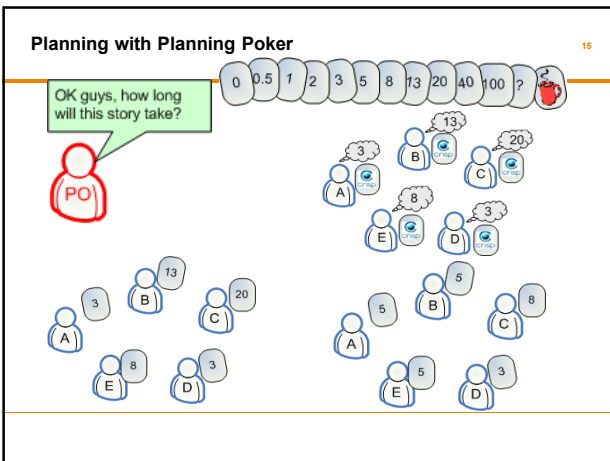
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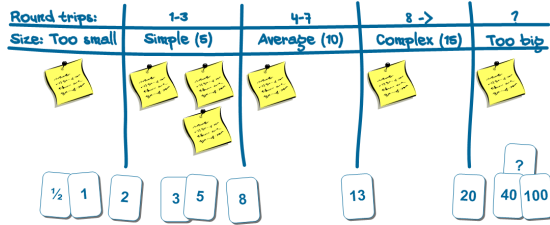
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## Use Case Points and Planning Poker

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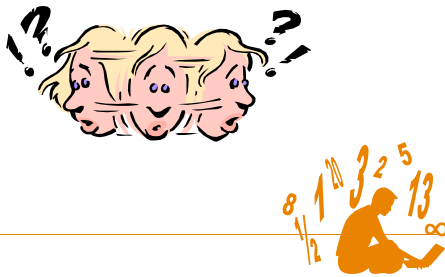
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## Discussion

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## MORE INFORMATION

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- Spreadsheet for project estimation using Use Case Points: <http://scrumup.eu/downloads.html>
- Articles  
"Project Estimation with Stakeholders" (will be published in January 2011) and  
"Software cost estimation using use case points: Getting use case transactions straight": <http://scrumup.eu/publications.html>
- More information on Use Case Points Analysis: <http://www.nupopmaat.nl/links.html>

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## IMPROVEMENT SUGGESTIONS

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Here is a summary of the improvements we will make based on your feedback

- Devide participants in early estimation session in stakeholders and team members
- Make assignment cards for each participant with a description of his role and a major his concerns.
- Give other workshop participants an active role in observing and improving the process of estimation
- Start with less stories
- Prepare some interface stories
- Prepare and show some Sprint 0 results (solution architecture, business value map, stakeholder map, problem statement)
- Pay more attention to round trips en estimation session

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## CONTACT

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