



LUND
UNIVERSITY

Exercise 4: SRS inspection

ETSA02 Programvaruutveckling - Metodik, VT18



Exercise 4 - Goals

- Hands-on work: perform Fagan inspection of SRS
 - individual inspection
 - >> using perspective-based reading
 - >> supported by a review checklist
 - inspection meeting
 - >> capture-recapture estimates of remaining issues
 - author inspection protocol
- Output for projects:
 - a review protocol for SRS v0.8(?) (Beta release)



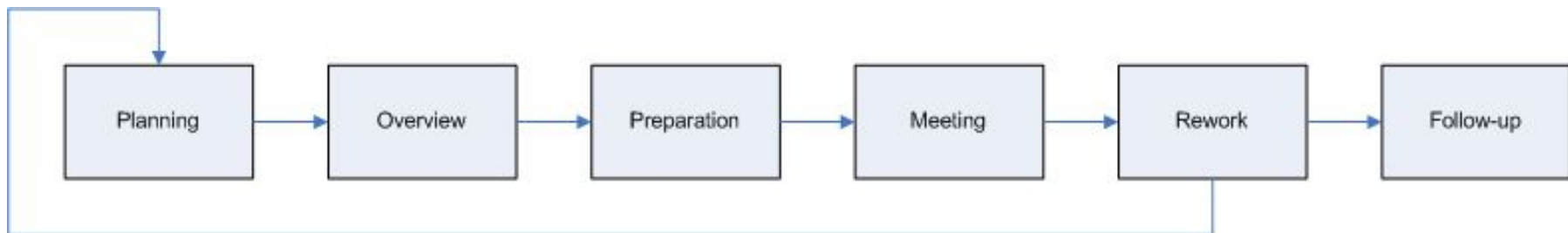
Exercise 4 - Agenda

- Introduction (10 min)
 - The six steps of a Fagan inspection
- Individual work (35 min)
 - Individual review of the latest version of your SRS (Step 3)
 - Note any issue that you identify
- Break (15 min)
- Work in groups (45 min)
 - Organize a review meeting (Step 4)
 - Discuss each identified issue, confirm or reject it
 - Create protocol
 - >> List all confirmed issues
 - >> Fill in capture-recapture information



Fagan Inspection

- 1. Planning
 - Preparation of document, arranging of participants, arranging of meeting place
- 2. Overview
 - Group education of participants on the document under review, assignment of roles
- 3. Preparation
 - Individual review by the participants, noting any questions or possible defects
- 4. Inspection meeting
 - Entire document discussed, comparing findings, compiling defects in review protocol
- 5. Rework
 - The author updates the document according to the review protocol
- 6. Follow-up
 - Verification that defects have been correctly resolved



Perform perspective-based reading

- Development lead
 - Can we implement this in Java?
- Test lead
 - Can we verify these requirements?
- Sales engineer
 - Will this make the customer satisfied?
- Domain expert
 - Will this lead to a successful Robocode bot?
- Project manager
 - Does this document fit our other documents?
- Requirements engineer
 - Responsible for the document, but review anyway



Work with the checklist

ETSA02 SRS Review Checklist

The following checklist is largely based on "Example Requirements Review Checklist" (v3.3, January 28, 2003) published by King Saud University, Riyadh, Saudi Arabia.

ID	Defect Type	Items to Examine
Organization and Structure of the Documentation		
1	Standards	Have appropriate requirements documentation standards been followed?
2	Standards	Are all figures, tables, and diagrams labeled and referenced?
3	Standards	Are all terms and units of measure defined?
4	Standards	Are all requirements written at a consistent and appropriate level of detail?
5	Standards	Are individual requirements rated (or ranked), with descriptions of priority provided?
6	Unverifiable	Do the requirements provide an adequate basis for design and system test?
Completeness and Correctness		
7	Correctness	Are all internal cross-references to other requirements correct? (To

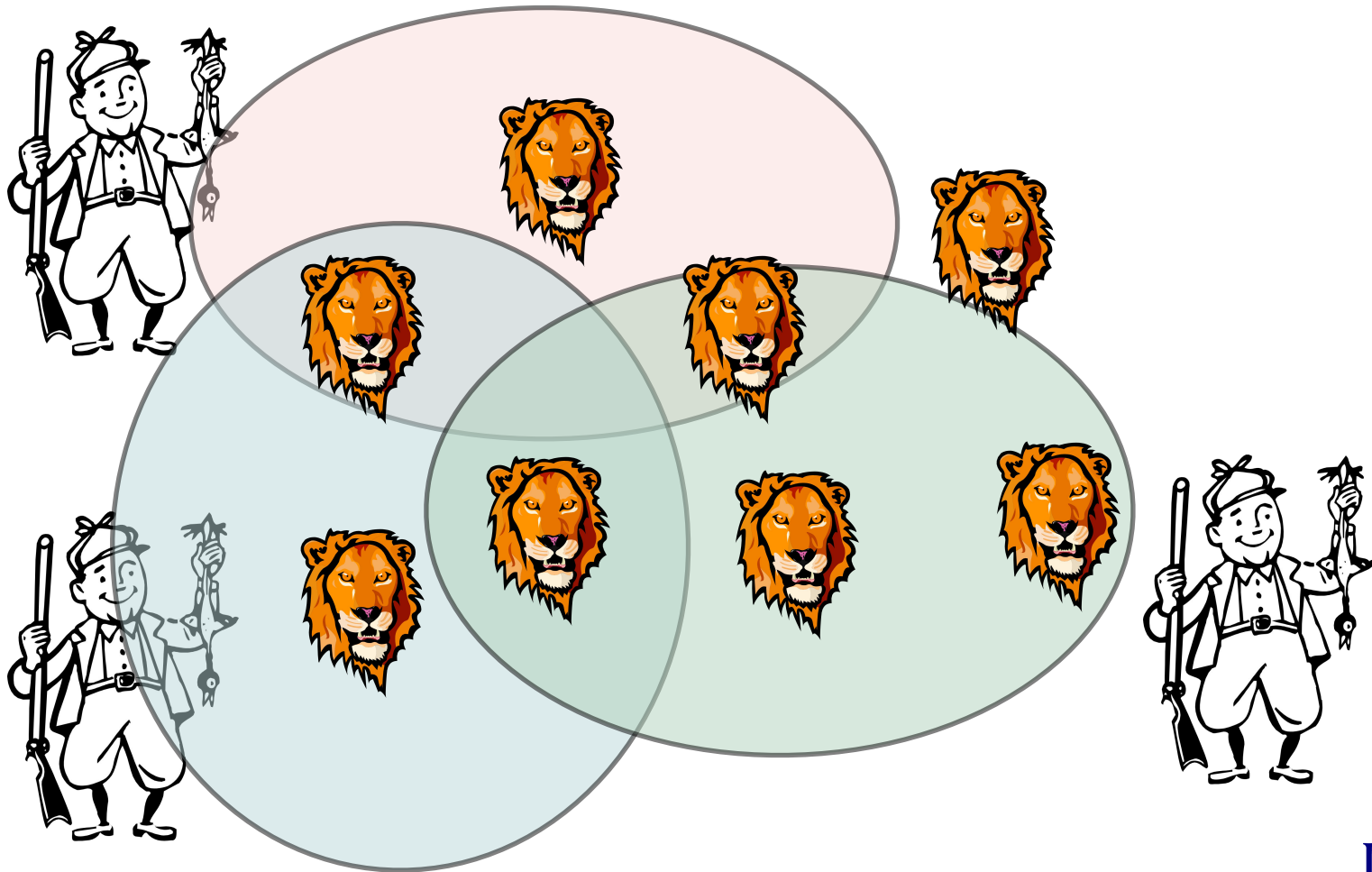


Roles at the meeting

- Moderator
 - Chairs the session
- Reader (Optional)
 - Reads the document out loud
- Scribe
 - For each identified issue that is confirmed by the meeting, notes it in the review protocol
- Author
 - The requirements engineer is present to clarify in case questions arise
- Reviewer
 - Remaining people are normal reviewers



Capture-Recapture



Review Protocol for Beta Release

Group											
Document under review SRS v0.8(?)											
Date 2018-04-26											
Reviewers P1=NAME, P2=NAME, P3=NAME, P4=NAME, P5=NAME, P6=NAME											
Checklist ETSA02 SRS Review Checklist											
?											
7		Issues found			4		Estimated issues left		64%		Group yield
					Individual yield	27%	18%	18%	18%	18%	9%
ID	Pos in SRS	Issue ID in checklist	Description		Prio (A, B, C)	P1	P2	P3	P4	P5	P6
1	Sec 1.2	12	<Describe the issue>			1					
2	Sec 2	1	<Describe the issue>			1					
3	Sec 2.3	3	<Describe the issue>			1	1				
4	Sec 2.3	14	<Describe the issue>				1	1	1		1