

## Interview instrument: Scaling up RE

Introduction:

- A. Ethics: anonymity, recording, summary notes.
- B. Define: requirement, requirements engineering, scale, size, complexity

<b>Asked?</b>
<b>BACKGROUND</b>
What is your current role and responsibility?
What is your background and experience in requirements engineering?
What were the sizes of the projects you have been working on in term of number of requirements? How has the number of requirements changed over time?
<b>CONTEXT</b>
Show the context picture. Discuss number of customers, suppliers, and other roles. Explain how the company decides which requirements to implement. Explain the way how the company maintains the contacts with customers:
<ul style="list-style-type: none"> <li>• Different types of customers?</li> <li>• Which roles have direct access to customers? Frequency?</li> <li>• Can you distinguish between internal and external stakeholders (customers)?</li> <li>• How has customer interaction changed over time? Challenges before and now?</li> </ul>
<b>REQUIREMENTS</b>
How are requirements represented in the current process (features, user stories, use cases, text)? Which different abstraction levels of requirements do you have? (market requirements, supplier req., features, system requirements) How are requirements grouped or categorized into types? How have you change your requirements representation because of increased size or complexity?
<b>TASKS</b>
Explain and give examples of the tasks that you perform related to requirements engineering? <ul style="list-style-type: none"> <li>• Which tasks takes a significant amount of time?</li> <li>• How have these tasks changed over time? Have the task complexity increased?</li> <li>• Which tasks do you delegate to someone else and why? How and why has this delegation been introduced?</li> <li>• Which tool(s) do you use for requirements? How do these tools help or hinder managing increasing size and complexity?</li> </ul>
Discuss each task below. Are you doing them? Have the tasks changed over time? Have they been adapted to increasing scale? <ul style="list-style-type: none"> <li>• <i>Scope Management</i> while deciding what to implement (cost vs value, scope changes)</li> <li>• <i>Quality Management</i> (quality of requirements, quality of the requirements process)</li> <li>• <i>Change Management</i> while implementing (change impact analysis)</li> </ul>
<b>CHALLENGES</b>
Can you describe challenges related to requirement engineering? Can you describe how these challenges have changed over time? How are these challenges related to size and complexity? If so, why is size and complexity increasing?
<b>QUALITY</b>
What is your view on these quality aspects of a set of requirements? What is the relation to size and complexity? How have their importance changed over time? <ul style="list-style-type: none"> <li>• <i>Understandability</i> – how easy are the requirements to understand (by all stakeholders)?</li> <li>• <i>Consistency</i> – how easy is it to keep a consistent set of requirements ("good" structure)?</li> <li>• <i>Extensibility</i> – how easy is it to extend the set of requirements (evolvability)?</li> </ul>
Are any other quality issues relevant as the set of requirements grows?
<b>CONCLUSION</b> Is there anything you would like to add?

## Context picture

