

# Exercise Sheet 2: Research Planning

Considering the empirical evaluation assigned to your team:

1. Identify the research problem and the object of study by answering the following checklist. For each answer, you must provide the section, page, and paragraph numbers in which you have found the corresponding information.

Item	Question	Hints
<b>Problem Statement</b>		
Problem Statement	<ul style="list-style-type: none"> <li>- What is the problem?</li> <li>- Where does it occur?</li> <li>- Who has observed it?</li> <li>- Why is it important to solve it?</li> </ul>	
Research goal	<ul style="list-style-type: none"> <li>- What is the research question addressed in this study?</li> </ul>	Specify the research goal using the GQM goal template.
Context	<ul style="list-style-type: none"> <li>- In which specific context (environment) was performed this research?</li> </ul>	
<b>Object of study</b>		
Technology under investigation	<ul style="list-style-type: none"> <li>- What is the technology under investigation?</li> <li>- How does it work?</li> <li>- Under which circumstances is it applicable?</li> </ul>	
Alternative technologies	<ul style="list-style-type: none"> <li>- How does this research relate to alternative technologies?</li> <li>- What is the control treatment?</li> <li>- What is the rationale for selecting the control treatment?</li> </ul>	
Related Studies	<ul style="list-style-type: none"> <li>- (If applicable) How does this research relate to existing research (studies)?</li> <li>- (If applicable) What were the results from these studies?</li> </ul>	
Relevance to Practice	<ul style="list-style-type: none"> <li>- How does this research relate to state of the practice?</li> </ul>	

2. Critically discuss if previous problem statement is complete and consistent.

---

Hint: Each team should submit their solutions to michael.klaes [a] iese.fraunhofer.de **until June 16<sup>th</sup>** at ten in the morning. Solutions should be submitted using **PowerPoint** format for facilitating the discussion during the exercise class.

---