













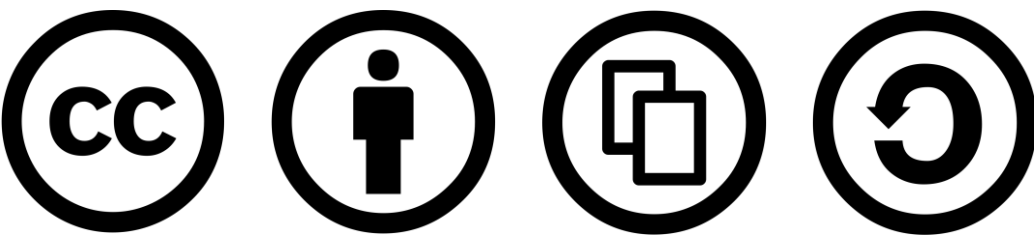


# The Data Science Canvas

Date:	Attendees:
Project:	Resulting Tasks:

Problem Statement				Execution & Evaluation		Data Collection & Preparation	
<div>Business Case &amp; Value Added</div> <div>Which business case should be analyzed and what added value does it generate?</div> <div></div>	<div>Model Selection</div> <div>Which analysis methods can be considered on the basis of the specific data landscape and the business case?</div> <div></div>	<div>Model Requirements</div> <div>Which model requirements must be complied with in order to obtain a valid model?</div> <div></div>	<div>Skills</div> <div>What skills are needed to provide the data and model development?</div> <div></div>	<div>Model Evaluation</div> <div>Which indicators require quality control and validation and how should they be interpreted? Is real-time monitoring necessary?</div> <div></div>	<div>Data Storytelling</div> <div>What requirements does the target group have for the presentation of the results and how do I effectively communicate this data?</div> <div></div>	<div>Data Selection &amp; Cleansing</div> <div>Which of the available data is relevant? Do the data have to be cleaned up?</div> <div></div>	<div>Data Collection</div> <div>How and with which methods should additionally required data be collected? What properties has this data to fulfil?</div> <div></div>
<div>Data Landscape</div> <div>Which data is required for this and which is already available? Which additional data has to be collected?</div> <div></div>		<div>Software &amp; Libraries</div> <div>Which software should be used? Is there already a standard solution? Which libraries are used?</div> <div></div>				<div>Data Integration</div> <div>In which system should the data from different sources be migrated?</div> <div></div>	<div>Explorative Data Analysis</div> <div>Are there outliers or structures to be considered? Creation of descriptive key figures for the first assessment of the data.</div> <div></div>
<div>Costs</div> <div>What are the cost categories? How high will the costs be?</div> <div></div>				<div>Revenues</div> <div>How can the model generate revenue? Does the project reduce costs?</div> <div></div>			



Designed by:  
Thomas Neifer, Dennis Lawo, Margarita Esau, Paul Bossauer,  
Lukas Böhm, Gunnar Stevens

Related Publication:  
Neifer, T., Lawo, D., & Esau, M. (2021). Data Science Canvas: Evaluation of a Tool to Manage Data Science Projects. In *Proceedings of the 54rd Hawaii International Conference on System Sciences*.