RChan Risk Matrix

## Description

A Risk can be defined as uncertainty of outcome (whether positive opportunity or negative threat). Some amount of risk taking is inevitable if the project is to achieve its objectives.

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| --- | --- | --- | --- | --- | --- |
| No | Risk | Potential adverse impact | Risk level\* | Risk management strategy | Responsibility |
| 1 | Cannot obtain training dataset. | Bad performance of the model due to lacking/unsuitable training data or no model at all. | C | Research available datasets. | Adian Dawuda |
| 2 | Cannot find/create test dataset. | Cannot conduct change detection of Cologne road network. | C | Early research of available datasets and or availability of necessary data for dataset creation. | Adian Dawuda |
| 3 | Problems with Google Collab (denied access, servers down). | No access to computing environment -> cannot develop or test model. | L | Local computing environment or Google Collab alternatives (e.g., Azure Notebook). | Adian Dawuda |
| 4 | Coding problems or errors that hinder the development of a functioning workflow (e.g., cannot read images, model does not compile or predict masks). | Inability to perform the desired analysis. | M | Small errors often occur and are mostly easily fixable. Looking up common problems on the internet may provide solutions. Peers or members of the department could be asked for help in extreme cases. | Adian Dawuda |
| 5 | Underestimation of tasks (time). | Late project completion. | L | Continuous project management to keep track of the project’s progress and status. Well thought out time plan with one week of additional buffer planned. | Adian Dawuda |

\*High (H), Medium (M), Low (L)

**15.05. Risk 3**: No access to high ram & GPU runtime because of Colab Pro payment problems -> Should be fixed before KW24 at the latest.