

Master-Project Timeline

Concept Phase

Deliverable 1: 3 February 2022

- ☐ Create [Proposal](#) for Master Project ([Proposal Master project #3](#))
- ☐ Create [gitrepo](#) and [Issuetracker](#) structure for collaborative work
- ☐ Create and submit timeline for master project ([Define Timetable #7](#))
- ☐ Obtain access to the necessary SOEP survey data
- ☐ Define first draft of [datasets](#) and [variables](#) that will be used for the project ([Variable and dataset selection concept #1](#))
- ☐ Create [Script](#) to create first draft of usable individual dataset for the project: Load, merge, data wrangling with selected variables
- ☐ Define statistical indicators which should be part of the aggregated tables ([Define statistical Indicators #10](#))
 - ☐ mean, median, n (for line plot, boxplot and heatmap)
 - ☐ percentages (for line plot and stacked bar plot)
 - ☐ upper_meanci, lower_meanci (for line plot and heatmap)
 - ☐ upper_medianci, lower_medianci ([Create median confidence intervals #2](#)) (for line plot and heatmap)
 - ☐ upper_percentci, lower_percentci (for line plot and stacked bar plot)
 - ☐ percentiles10, percentiles 25, percentiles 75, percentiles 90, percentiles 99 (for boxplot)
 - ☐ min, max (boxplot)
 - ☐ (correlation coefficients)
 - ☐ (regression coefficients)

Table Creation Phase

Deliverable 2: 3 March 2022

- ☐ User analysis (Who would need platform?) ([Define user group for the app #11](#))
 - ☐ What [topics](#) should be prioritized
- ☐ Final Variable selection concept (variables to analyse and variables for grouping) ([Variable and dataset selection concept #1](#))
 - ☐ variables need to be added in [Prep.do](#) and in [Metadata](#)
- ☐ Define amount of datasets (individual level and household level) we need to create ([Variable and dataset selection concept #1](#))
- ☐ Data Quality Checks for [Data Preparation](#) ([Data Quality Checks for Data Preparation #12](#))
 - ☐ Check quality of dataset merges
 - ☐ Identify and resolve missing data
 - ☐ Review summary statistics and visualizations for potential data quality issues
 - ☐ More data wrangling if necessary
 - ☐ Define variablenames, labels and valuelabels as [Metadata](#)
- ☐ [Create aggregated table functions](#) to transform input dataset to aggregated csv tables ([Create a functions R script for table creation #13](#))
- ☐ [Create first aggregated datatables](#) ([Create first aggregated datatables #14](#))

Interactive Graphic Creation Phase

Deliverable 3: 31 March 2022

- ☐ [Aggregated table quality checks for aggregated table functions #15](#)
 - ☐ functions create always same results
 - ☐ mean, median, percentages always in the confidence interval range
 - ☐ define minimum cell grouping (n=30)
- ☐ [Generation of interactive graphics #4](#)
 - ☐ heatmaps on federal state level for numerical variables
 - ☐ stackedbarplot for categorical variables
 - ☐ line plot for categorical variables and numerical variables
 - ☐ boxplots for numerical variables
 - ☐ (regression) or correlation plots
- ☐ Create [graphical functions](#) that use the [aggregated datatables](#) to create the different interactive graphictypes with selectable grouping options ([Create a functions R script for graphic creation #16](#))
- ☐ [Create first graphic output #17](#)

Shiny Interface Phase

Deliverable 4: 28 April 2022

- ☐ [Graphic Quality check #18](#)
 - ☐ colorblindness
 - ☐ same colorstyle for all graphics
 - ☐ understandable and standardized
- ☐ [First technical design of the Shiny interface that processes the aggregated data and graphical functions #19](#)
 - ☐ define selectable buttons (inputs for user)
 - ☐ user selection und functions should create interactive graphic on shiny App
- ☐ [First technical design of the Shiny interface that processes the aggregated data and graphical functions #19](#)
 - ☐ create layout
 - ☐ create topicbased navigation
 - ☐ create help texts
- ☐ [\(Create downloadable user output #21\)](#)
 - ☐ rmarkdown for reports
 - ☐ download of csv tables

Testing and Writing Project Report Phase

Deliverable 5: 2 June 2022

- ☐ [Shiny App Quality check #22](#)
 - ☐ efficiency check. How long does it take to load a graphic?
- ☐ [Make App usable on shiny server #23](#)
 - ☐ usable URL for users
 - ☐ data protection regulations to put aggregated data on server?
- ☐ [Finalize Metadata/Documentation #24](#)
- ☐ [Draft of Written Project report #25](#)
 - ☐ Motivation
 - ☐ Description of the data source
 - ☐ Content of the dashboard
 - ☐ Covered Topics
 - ☐ Covered Indicators
 - ☐ Functionality
 - ☐ Description of the technical workflow
 - ☐ Preparation and selection of raw micro data
 - ☐ Processing of raw data into aggregated tables and graphs
 - ☐ Development of the interactive shiny interface
 - ☐ Data protection policy
 - ☐ Problems and challenges
 - ☐ Summary