Project Overview Document

Project information

Please provide important facts for your project, e.g. acronym, title, proposed period, principal investigator and contractor.

Project	IP SDI	
Acronym	**MIGE** (**Mi**gration **Ge**rmany)	
Title	Germany - population migration, anomalies and their causalities	
Period	Start: 24.11.2022	End: 28.02.2023
Principal investigator(s)	Edah Sahinovic Martin Stobbelaar	
Contractor	Manfred Mittlboeck, Eva Steinbacher	

Document version

Nr.	Date	Version	Altered chapters	Type of altering	Author
1	24.11.2022	1.0	all	Creation	Martin Stobbelaar
2	27.11.2022	1.1	most	Update	Martin Stobbelaar
3	28.11.2022	1.2	some	Update	Edah Sahinovic
4					
5					

Project Content and Project Goals

Please provide an overview of your project with its main activities. Additionally give some information on the purpose, benefits and target groups as well as the proposed goals of your project. Please also provide explicit information on those aspects of the overall challenges, which you will not tackle with your project.

Content & Goals

Project description *(~100-150 words)*

The overall goal of this project is to deliver the processed general information regarding the population migration to the concerned authorities of Germany as well as to organizations and stakeholders placing their interest in the alike. The idea is to present the general migration flow as follows:

Intercountry migration:

- Inbound migration (the immigration statistics to Germany on available administrative level)
- Outbound migration (the emigration from Germany to other countries on country level)

Intracountry migration:

- Inbound migration on various administrative levels
- Outbound migration on various administrative levels

Project purpose, benefits and target group description *(~100 words)*

The purpose of this project is to probably get a hang of working with geospatial databases and how to integrate them into a dashboard.

From this generalized migration overview, we would be able to infer which administrative units are struck the most with which migration type and in further work we would try to investigate the reasons behind this behaviour. For each discovered anomaly we will dive deeper and form a detailed research and try to look for causality and deliver a report of our findings. In the end, our findings should be a backbone to the responsible institutions of how to mitigate these issues, or in case of opportunities, how to leverage them.

The target group for this project would be the local communities and state governments in Germany, which could then tackle problems that might lead people to move to specific areas.

Project objectives (please also include a listing of the sub-goals) *(~100 words)*

Gathering and processing data

- Finding data
- Accessing data
- Merging data

Setting up the database and geoserver

- Transferring the data to cloud database
- Interconnecting the platforms
- Optional: automated dataset update

Setting up the web map

Implementing a dashboard

- Setting up the dashboard running
- Overview of the situation
- Inspecting and deep diving into specific issues

Non-Goals

Lets not get something blown up!

Frame of the project

Please provide a description of the existing situation. Therefore, please describe the actual state and the identified challenges. As a second part, please also provide the most important information with regard to the proposed project period and the most important dates (Kick-off, interim/mid-term report/presentation, final report, paper submission etc.)

Context
Up-to-date status *(~50-100 words)*
The current state of the project is in finding appropriate data to work with and setting up everything to make managing the project easy. Challenges are defining which data could be useful for us and how to integrate the spatial data.
Project setting *(~50 Wörter)*
The project is setup to get practical experience in working with Geodatabases and programs / environments like ArcGIS enterprise. Additional it could be very useful for various stakeholders like local communes.

Dates			
Time period			
Start:	24.11.2022	End	24.01.2023
Important Dates			
1	24.11.2022	Kick off	
2		Mid-term report	
3	24.01.2023	Presentation	

Resources & Budget

Please provide information on the project lead and the project team. Please include information on name, role and qualification. Additionally provide information about the planned resources with regard to personal costs and other costs,

Project Team
Projekt Lead
Edah Sahinovic, Martin Stobbelaar
Project Team
Edah Sahinovic, Martin Stobbelaar

Resources
Personal costs
A lot of time invested in the project
Project costs
None
Other Costs
Computation, populating the disk memory with heavy files

Project structure, description and risk matrix

Please provide a description about your work plan (work breakdown structure) your work packages in tabular and graphical form.

Work packages overview:

WP	Name	Time Frame
1	Project Management	24.11.2022 – 02.12.2022
2	Data acquisition	24.11.2022 – 05.12.2022
3	Data processing and publishing	05.12.2022 – 14.12.2022
4	Dashboard development	14.12.2022 – 25.12.2022
5	Final results, refinement and submission	03.01.2023 – 24.01.2023
6		
7		

Work Breakdown Structure (WBS)

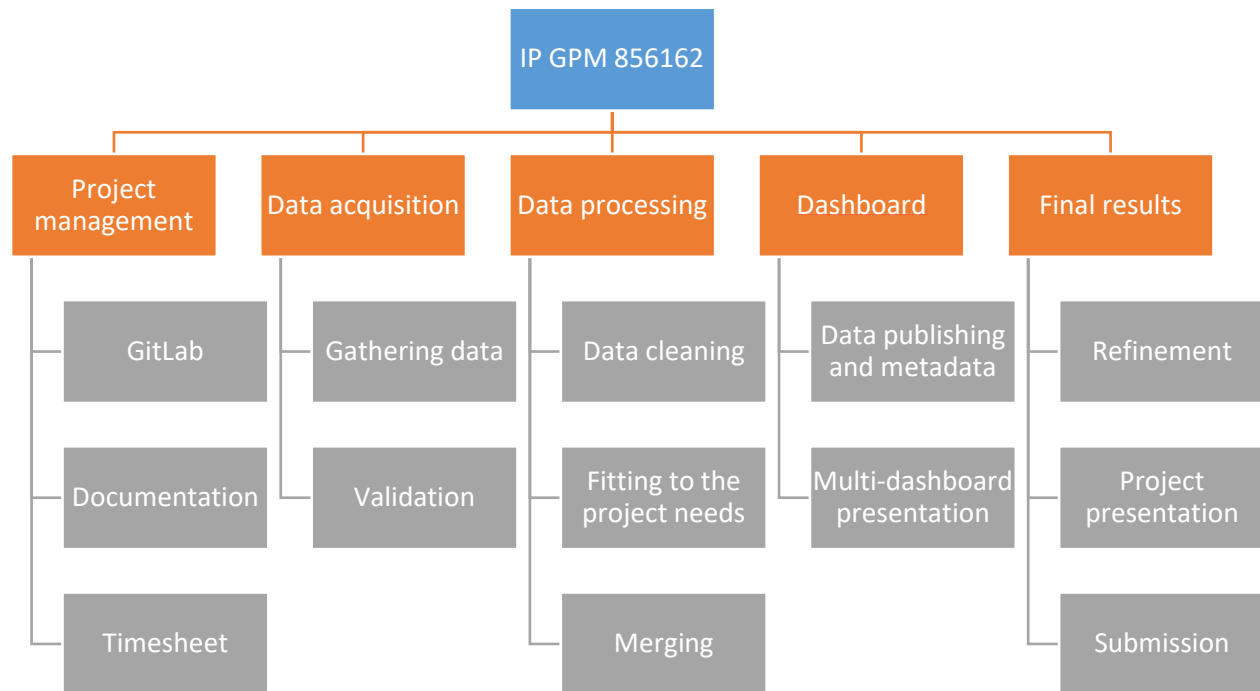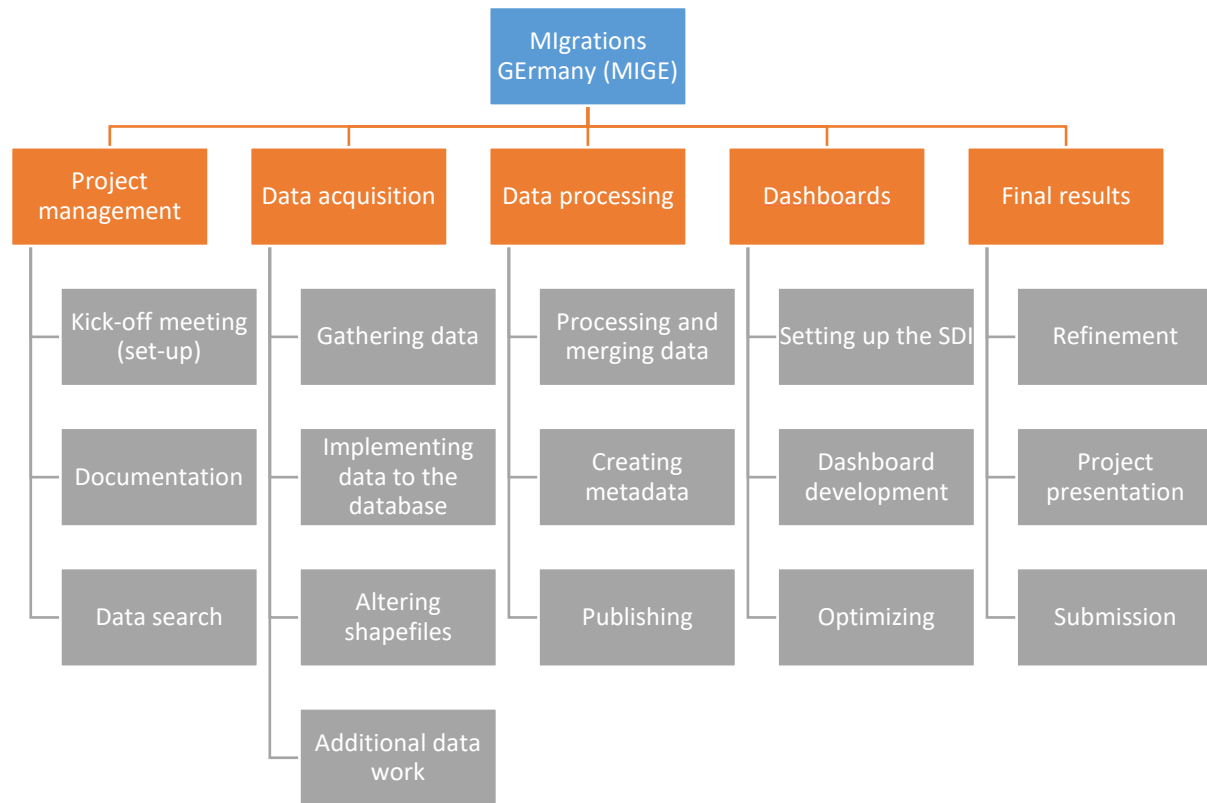*Create a work breakdown structure for your work packages including the important tasks*

Figure 1 Work breakdown Structure

```
MIgrations GErmany (MIGE)
├── Project management
│   ├── Kick-off meeting (set-up)
│   ├── Documentation
│   └── Data search
├── Data acquisition
│   ├── Gathering data
│   ├── Implementing data to the database
│   ├── Altering shapefiles
│   └── Additional data work
├── Data processing
│   ├── Processing and merging data
│   ├── Creating metadata
│   └── Publishing
├── Dashboards
│   ├── Setting up the SDI
│   ├── Dashboard development
│   └── Optimizing
└── Final results
    ├── Refinement
    ├── Project presentation
    └── Submission
```

Detailed work plan

Please document the goals, content and expected results for each work package. Provide information on the planned approach and methods you want to apply as well as the expected results (including the planned milestones and deliverables). As a first work package please use 'project management'. (Add as many WP tables you need)

WP 1	Project management	24.11.2022 – 02.12.2022
WP Lead		**WP team**
Edah Sahinovic, Martin Stobbelaar		Edah Sahinovic, Martin Stobbelaar
Objectives		
This project is planned to present the general movements of people through, across and towards Germany from datasets available across specific time range (at least for last 10 years). We hope to integrate the data, publish it through services for public access and use and through visual inspection and analysis methods to identify possible risks as well as opportunities.		
Content & Tasks		
Documentation: through various project templates we hope to achieve a successful project team cooperation, to identify our strengths and weaknesses and achieve our goals in manageable time range. That being said, we aim to leverage our capabilities as well as to work on our weak spots. **Data:** out of various datasets publicly available by the respective authorities (shapefiles, dataframes), we expect to achieve their successful integration in order to fulfil our goals. **Publishing:** Leverage identified Spatial Data Infrastructures to make our fit-for-purpose data available for public use as well as for its easier handling through web services.		
Expected results		
Successful data integration and presentation, to be able to fit to the needs of identified stakeholders.		
Milstones & Deliverables		
M1 Kick-off**;** M2 Project setup; M3 Data gathering; M4 Final data; M5 Data publishing; M6 Dashboard setup; M7 Final presentation		

WP 2	Data acquistion	24.11.2022 – tbs
WP Lead		**WP team**
Both		Both
Objectives		
Find the data concerning our project: inbound, outbound and intracountry migration.		

Content & Tasks
Searching for data in tabular and shapefile formats and implement it to the database
Expected results
Successful gathering, cleaning and merging of the data
Milstones & Deliverables

M1 Kick off	M3 Final data
M2 Data acquisition	M4 Data publishing
D1 Data fit for the purpose	D2 Data publication and visualization

Copy/Paste WP table to add additional work packages

Milestone plan

Please provide a summary of the planned milestones and provide an according overview graphic.

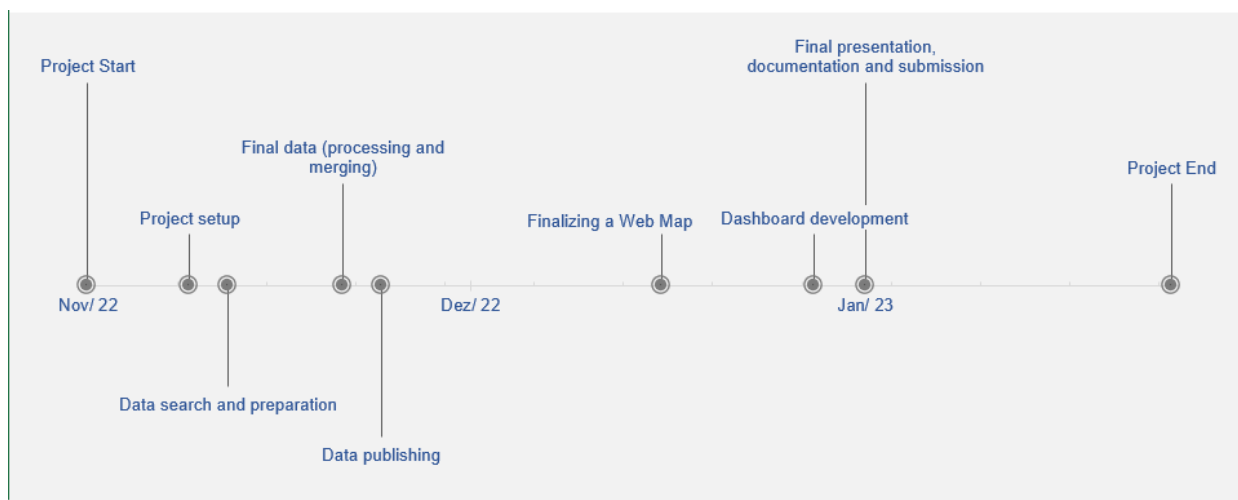|	Name	Date Completion
M1	Project setup	02.12.2022
M2	Data search and preparation	05.12.2022
M3	Final data	14.12.2022
M4	Data publishing	17.12.2022
M5	Dashboard development	25.12.2022
M6	Final presentation, documentation and submission	24.01.2022

Figure 2 Milestones

Gantt Chart

Please provide an image of your Gantt Chart as overview graphics. Please attach the Gantt chart and it's monthly updates in addition to this document.

Project Name	Product Release
Project Manager	Alex B.
Project Deliverable	
Start Date	02-Sep
End Date	09-Oct
Overall Progress	20%

Tasks	Responsible	Start	End	Days	Status	9/2	9/3	9/4	9/5	9/6	9/7	9/8	9/9	9/10	9/11	9/12	9/13	9/14
03/16/2016																		
Set kick-off meeting	Alex B.	9/2	9/2	0	Complete	▓												
Agree on objectives	Frank C.	03-Sep	07-Sep	4	Complete		▓	▓	▓	▓	▓							
Initiation																		
Detailed Reqs.	Jacob S.	07-Sep	09-Sep	2	Complete						▓	▓	▓					
Hardward Reqs.	Jacob S.	09-Sep	11-Sep	2	Overdue								▓	▓	▓			
Final Resource Plan	Jacob S.	11-Sep	15-Sep	4	In progress										▓	▓	▓	▓
Staffing	Alex B.	15-Sep	17-Sep	2	In progress													
Development																		
Techincal Reqs.	Frank C.	17-Sep	21-Sep	4	Not started													

Figure 3 Gantt Chart

Risk matrix

In this table, please provide the important risk information. Please categorize the risks accordingly. ([L]ow, [M]edium, [H]igh], [C]leared)as well as your mitigation strategy. Please update this list accordingly during your project execution time frame.

	Risk	Mitigation Strategy	Type	Update
1	Data integration	Raw data might not fit for our purpose, we need to clean it and merge in order to fulfil our task	H	n/a
2	Automation	Since our datasets need manual pre-processing, it is very unlikely that we will achieve its automatic update	H	n/a

Additional comments

Add additional comments if necessary.

Comments
n/a

Approval

Please provide further information if necessary.

Approval		
Approval:		Date:	02.12.2022
Signature principal investigator	Signature project lead/contractor	

Attachments

Attachment 1: Gantt Chart (monthly updated)

Attachment 2: Milestones

Attachment 3: Work plan

Attachment 4: Time sheet (regularly updated)