

Domestic Migration in Germany

Adian Dawuda, Felix Schachtschneider

28.11.2023



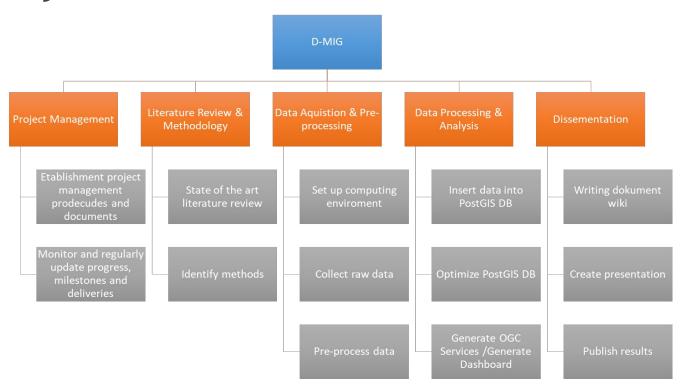
- Definition and Scope: Internal migration in Germanyrelocation of residence within the country
- Key trends: movements between northern and southern Germany as well as between eastern and western states
- **Factors:** economic conditions, employment opportunities, and regional development disparities

Source: Binnenwanderung in Deutschland (2023) Deutscher Bundestag - WD 1 - 3000 - 040/22

Policy Makers and Government Officials at BAMF



Project Overview



Wanderungen zwischen den Bundesländern: Bundesländer, Jahre, Nationalität, Geschlecht

Wanderungsstatistik															
					Deutsch	e									
		männlic	h		weiblich	1	Insgesamt								
Jahr Bundesländer	Zuzüge aus einem anderen Bundesland	Fortzüge in ein anderes Bundesland	Wanderungssaldo	Zuzüge aus einem anderen Bundesland	Fortzüge in ein anderes Bundesland	Wanderungssaldo	Zuzüge aus einem anderen Bundesland	Fortzüge in ein anderes Bundesland	Wanderungss						
	Anzahl	Anzahl	Anzahl	Anzahl	Anzahl	Anzahl	Anzahl	Anzahl	Anzahl						
2022															
Baden-Württemberg	39 093	44 120	-5 027	41 228	46 794	-5 566	80 321	90 914	-10						
Bayern	40 814	40 093	721	41 602	41 381	221	82 416	81 474							
Berlin	23 796	30 200	-6 404	25 612	32 009	-6 397	49 408	62 209	-12						
Brandenburg	23 313	15 436	7 877	24 016	16 135	7 881	47 329	31 571	15						
Bremen	6 127	8 110	-1 983	6 491	8 744	-2 253	12 618	16 854	-4						
Hamburg	19 778	23 466	-3 688	21 722	25 301	-3 579	41 500	48 767	-7						
Hessen	30 095	33 091	-2 996	32 984	35 535	-2 551	63 079	68 626	-5						
Mecklenburg-Vorpommern	11 539	8 006	3 533	12 599	8 781	3 818	24 138	16 787	7						
Niedersachsen	44 127	39 896	4 231	47 963	43 009	4 954	92 090	82 905	9						
Nordrhein-Westfalen	44 823	51 713	-6 890	48 946	55 662	-6 716	93 769	107 375	-13						
Rheinland-Pfalz	25 544	23 961	1 583	27 963	26 151	1 812	53 507	50 112	3						
Saarland	4 047	4 025	22	4 362	4 583	-221	8 409	8 608							
Sachsen	18 783	15 820	2 963	19 202	17 000	2 202	37 985	32 820	5						
Sachsen-Anhalt	11 903	10 341	1 562	12 536	11 264	1 272	24 439	21 605	2						
Schleswig-Holstein	22 787	18 461	4 326	25 210	19 709	5 501	47 997	38 170	9						
Thüringen	10 318	10 148	170	10 970	11 348	-378	21 288	21 496							
Insgesamt	376 887	376 887	0	403 406	403 406	0	780 293	780 293							

[©] Statistisches Bundesamt (Destatis), 2023 | Stand: 27.11.2023 / 20:41:51

SDI Architecture



Current status

						02.10 08.1	09.1015.1	16.10 22.1		30.10 05.1	13.11 - 12.1.	27.11 03.1	T.O.T	11.1217.1	18.12 24.1						29.01 31.0	
ime Estimate (hours)	Tasks	Responsible	Start	End	Status	KW40	KW41	KW42	KW43	KW44	KW46	KW48	PL AAN	KW50	KW51	KW52	KW01	KW02	KWU3	KW04	KW05	
20 (10%)	Project Management																					
10	Establish project management procedures and documents	Adian, Felix	KW40	KW46	Complete																	Deliverable
10	Monitor and regularly update progress, milestones, and deliverables	Adian, Felix	KW40	KW05	Open									•		•		-		-	-	Milestone
30 (15%)	Literature Review & Methodology																					WP Duratio
20	State of the art literature review	Adian, Felix	KW40	KW46	Complete																	WT Duratio
10	Identify methodology	Adian, Felix	KW40	KW46	Complete																	WT Overdu
50 (30%)	Data Acquisition & Pre-Processing				11																	
10	Set up computing environment	Adian, Felix	KW47	KW48	Open																	
20	Collect raw data	Adian, Felix	KW48	KW50	Not Started																	
20	Pre-process data	Adian, Felix	KW50	KW51	Not Started																	
60 (25%)	Data Processing & Analysis																					
20	Insert data into PostGIS DB	Adian, Felix	KW51	KW01	Not Started																	
10	Optimize PostGIS DB	Adian, Felix	KW52	KW01	Not Started																	
10	Generate OGC services	Adian, Felix	KW02	KW02	Not Started												3					
20	Construct Dashboard	Adian, Felix	KW03	KW04	Not Started																	
40 (20%)	Dissemination																					
15	Writing documentation (wiki)	Adian, Felix	KW46	KW05	Not Started														883			
15	Creating presentations	Adian, Felix	KW44	KW05	Open																	
10	Publishing results	Adian, Felix	KW02	KW05	Not Started															- 1	-	
	Completion			KW05																		



- Data Data Acquisition & Pre-Processing script: Run locally
- PostGIS Database: https://geoserver22s.zgis.at/pgadmin4
- GeoServer Instance: https://geoserver22s.zgis.at/geoserver
- Dashboard: Z_GIS AGOL

Current status

						02.10 08.1	09.1015.1	16.10 22.1		30.10 05.1	13.11 - 12.1.	27.11 03.1	T.O.T	11.1217.1	18.12 24.1						29.01 31.0	
ime Estimate (hours)	Tasks	Responsible	Start	End	Status	KW40	KW41	KW42	KW43	KW44	KW46	KW48	PL AAN	KW50	KW51	KW52	KW01	KW02	KWU3	KW04	KW05	
20 (10%)	Project Management																					
10	Establish project management procedures and documents	Adian, Felix	KW40	KW46	Complete																	Deliverable
10	Monitor and regularly update progress, milestones, and deliverables	Adian, Felix	KW40	KW05	Open									•		•		-		-	-	Milestone
30 (15%)	Literature Review & Methodology																					WP Duratio
20	State of the art literature review	Adian, Felix	KW40	KW46	Complete																	WT Duratio
10	Identify methodology	Adian, Felix	KW40	KW46	Complete																	WT Overdu
50 (30%)	Data Acquisition & Pre-Processing				11																	
10	Set up computing environment	Adian, Felix	KW47	KW48	Open																	
20	Collect raw data	Adian, Felix	KW48	KW50	Not Started																	
20	Pre-process data	Adian, Felix	KW50	KW51	Not Started																	
60 (25%)	Data Processing & Analysis																					
20	Insert data into PostGIS DB	Adian, Felix	KW51	KW01	Not Started																	
10	Optimize PostGIS DB	Adian, Felix	KW52	KW01	Not Started																	
10	Generate OGC services	Adian, Felix	KW02	KW02	Not Started												3					
20	Construct Dashboard	Adian, Felix	KW03	KW04	Not Started																	
40 (20%)	Dissemination																					
15	Writing documentation (wiki)	Adian, Felix	KW46	KW05	Not Started														883			
15	Creating presentations	Adian, Felix	KW44	KW05	Open																	
10	Publishing results	Adian, Felix	KW02	KW05	Not Started															- 1	-	
	Completion			KW05																		

Current status

Open Data

GENESIS-Online: API/Webservices und Weboberfläche

SOAP/XML, RESTful/JSON

- Searching for best source of Geodata
- Automation of workflow