

# **Outline of the case study 'The Southern Ruhr area' (DEA5 Arnsberg)**

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## **1. Introduction**

### **1.1. Specification of the research questions and the aims**

The case studies contribute to improve the knowledge on and the understanding of demographic and migratory flows at the regional and local level. They focus on internal and international migration as the component with stronger links to the regional socio-economic situation and dynamics. In addition in the case studies the output of the policy oriented activities of the DEMIFER project are translated into specific regional settings.

The specific research questions and the specific aims of the case studies are:

- How are demographic and migratory flows affecting the entire case study area, its regional subdivisions and its cities?
- How do demographic change and migratory movements bring about population change – growth or decline -, population ageing and ageing of the working age population?
- What are the factors of attraction or the causes of interregional and international migration at the regional level?
- Is information regarding the skill level of interregional, intra EU and international migrants available?
- What are the economic and social consequences of migratory flows in the case study area, or, more in general, what are the links between 'demography' and 'economy' in the case study areas?

The interrelations between socio-economic and demographic trends are the focus of the case studies. The focus of the case studies is on the description of the socio-demographic structure, demographic and interregional and international migratory processes and their economic and social consequences. The sustainability of the demographic system and the migration process – migration gains and migration losses - at the sub-regional level will be considered in all case studies. The interdependence in the urban areas and between the urban areas and their hinterland is highlighted.

### **1.2. Historical and economic background**

### **1.3. Settlement structure**

Map 1a Population in the Southern Ruhr area (DEA5 Arnsberg), 1.1.2008

Map 1b Population density in the Southern Ruhr area (DEA5 Arnsberg), 1.1.2008

### **1.4. Outline of the case study report**

## **2. Review of existing analysis of demographic and migratory flows in the case study**

## **3. Demographic stocks and flows of the case study region and its sub-divisions**

### **3.1. Age structure of the population**

Figure 1 Population pyramid of the Southern Ruhr area (DEA5 Arnsberg), 1.1.2005

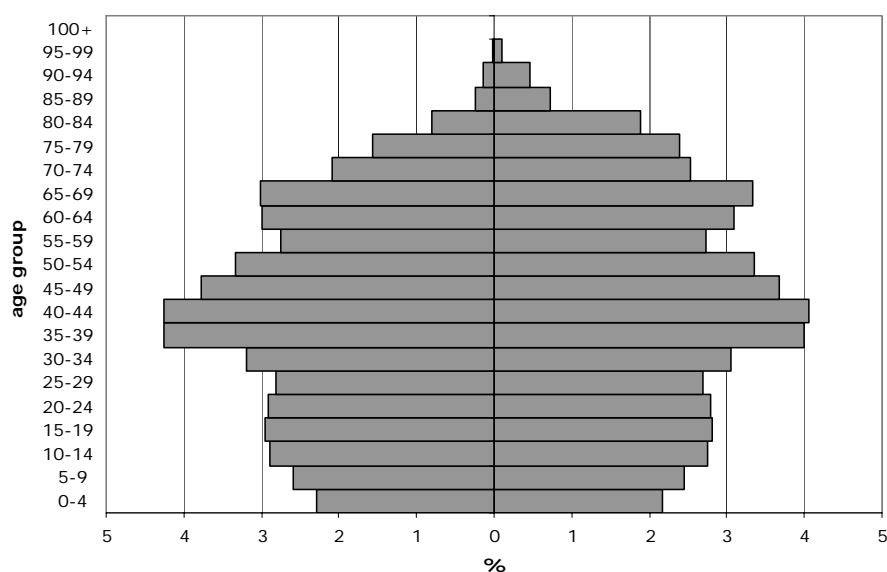


Table 1 Age structure of the population in the Southern Ruhr area (DEA5 Arnsberg), 31.12.2007

	Population by age groups 31.12.2007					
	Total	Under 18	18 to 24	20 to 39	25 to 64	65 and older
KS Bochum	381,542	14.9	8.4	26.1	55.7	21.1
KS Dortmund	586,909	16.6	8.4	25.9	54.3	20.7
KS Hagen	193,748	17.9	8.0	23.2	51.8	22.3
KS Hamm	183,065	18.8	8.1	25.1	53.6	19.5
KS Herne	168,454	16.5	7.7	24.3	54.5	21.4
Ennepe-Ruhr-Kreis	338,466	16.7	7.5	22.5	53.9	21.9
Hochsauerlandkreis	273,898	19.5	8.1	23.1	51.7	20.7
Märkischer Kreis	441,704	18.9	8.2	23.1	52.6	20.2
Olpe	140,973	20.1	8.3	24.8	53.4	18.2
Siegen	288,441	17.9	8.7	24.5	53.1	20.2
Soest	307,159	19.3	8.2	23.9	53.0	19.5
Unna	419,353	18.1	8.1	23.1	53.7	20.2
Arnsberg	581,057	19.4	8.1	23.5	52.4	20.1
Bochum/Hagen	1,523,914	17.0	8.0	23.9	53.8	21.2
Dortmund	1,189,327	17.4	8.2	24.8	54.0	20.3
Siegen	429,414	18.6	8.6	24.6	53.2	19.6
	3,723,712	17.7	8.2	24.2	53.6	20.6

Map 2 Population 65 and older in the Southern Ruhr area (DEA5 Arnsberg), 1.1.2008

### 3.2. Population change and its components

Table 2 Population change and its components in the Southern Ruhr area (DEA5 Arnsberg), 2000-2008

### 3.3. Natural change - fertility and mortality

Map 3 TFR in the Southern Ruhr area (DEA5 Arnsberg), 2007

Map 4 Life expectancy for men and women in the Southern Ruhr area (DEA5 Arnsberg), 2007

### 3.4. Net migration

Table 3 Interregional- and international migration in the Southern Ruhr area (DEA5 Arnsberg), 2000-2008

Map 5 Net interregional migration in the southern Ruhr area (DEA5 Arnsberg), 2007

Map 6 Net international migration in the southern Ruhr area (DEA5 Arnsberg), 2007

Map 7 Foreign population in the Southern Ruhr area (DEA5 Arnsberg), 1.1.2007

### 3.5. Age composition of migrants

Table 4 Interregional- and international age-specific migration rates in the Southern Ruhr area (DEA5 Arnsberg), 2007

Map 8 Net internal migration of the 18 to 24 years old population with the Southern Ruhr area (DEA5 Arnsberg), 2005-2007

Map 9 Net internal migration of the 25 to 64 years old population with the Southern Ruhr area (DEA5 Arnsberg), 2005-2007

Map 10 Net internal migration of the population 65 years and older with the Southern Ruhr area (DEA5 Arnsberg), 2005-2007

### 3.6. Other composition of migrants

Table 5 Foreign population by nationality in the Southern Ruhr area (DEA5 Arnsberg), 1.1.2006

Table 6 Population by migratory status in the Southern Ruhr area (DEA5 Arnsberg), 2005-2008

## 4. Economic change and population: the labour market of the case study region and its sub-divisions

### 4.1. Economic characteristics (GDP, unemployment)

Map 11 Unemployment in the Southern Ruhr area (DEA5 Arnsberg), 2007

### 4.2. Demographic and socio-demographic characteristics of the working age population

### 4.3. Changes in the working age population

Table 7 Working age population and its dynamic in the Southern Ruhr area (DEA5 Arnsberg), 2000-2007

- 4.4. Economic activity
- 4.5. The role of migration

Table 8 Foreigners employed and unemployed in the Southern Ruhr area (DEA5 Arnsberg), 2007

- 5. Economic change and population: other aspects of the case study region and its sub-divisions

The process of economic restructuring in the Ruhr valley and its consequences

- 6. Economic and social consequences of demographic change in the case study region and its sub-divisions
- 7. Population ageing at the regional level and the DEMIFER scenarios

Figure 2 Population change according to the DEMIFER scenarios in the Southern Ruhr area (DEA5 Arnsberg), 2005-2050

Figure 3 Population ageing according to the DEMIFER scenarios in the Southern Ruhr area (DEA5 Arnsberg), 2005-2050

Table 9 Population change according to the BBSR status-quo projection in the Southern Ruhr area (DEA5 Arnsberg), 2005-2025

- 8. Conclusions and the policy implications of demographic challenges in the case study region
- 9. References

Annex I: Data issues – characteristics, quality and timeliness of data at the national level and regional particularities

Annex II: Data reported in tables, graphs and maps in the report

NUTS 3 regions of the Southern Ruhr area (DEA5 Arnsberg)

<b>Id NUTS3</b>	<b>Id County</b>	<b>Name</b>	<b>Regional planning region</b>
DEA51	5911000	KS Bochum	Bochum/Hagen
DEA52	5913000	KS Dortmund	Dortmund
DEA53	5914000	KS Hagen	Bochum/Hagen
DEA54	5915000	KS Hamm	Dortmund
DEA55	5916000	KS Herne	Bochum/Hagen
DEA56	5954000	Ennepe-Ruhr-Kreis	Bochum/Hagen
DEA57	5958000	Hochsauerlandkreis	Arnsberg
DEA58	5962000	Märkischer Kreis	Bochum/Hagen
DEA59	5966000	Olpe	Siegen
DEA5A	5970000	Siegen	Siegen
DEA5B	5974000	Soest	Arnsberg
DEA5C	5978000	Unna	Dortmund