



Innovative Opportunities for heavy industrial regions

The Case of the Ruhr

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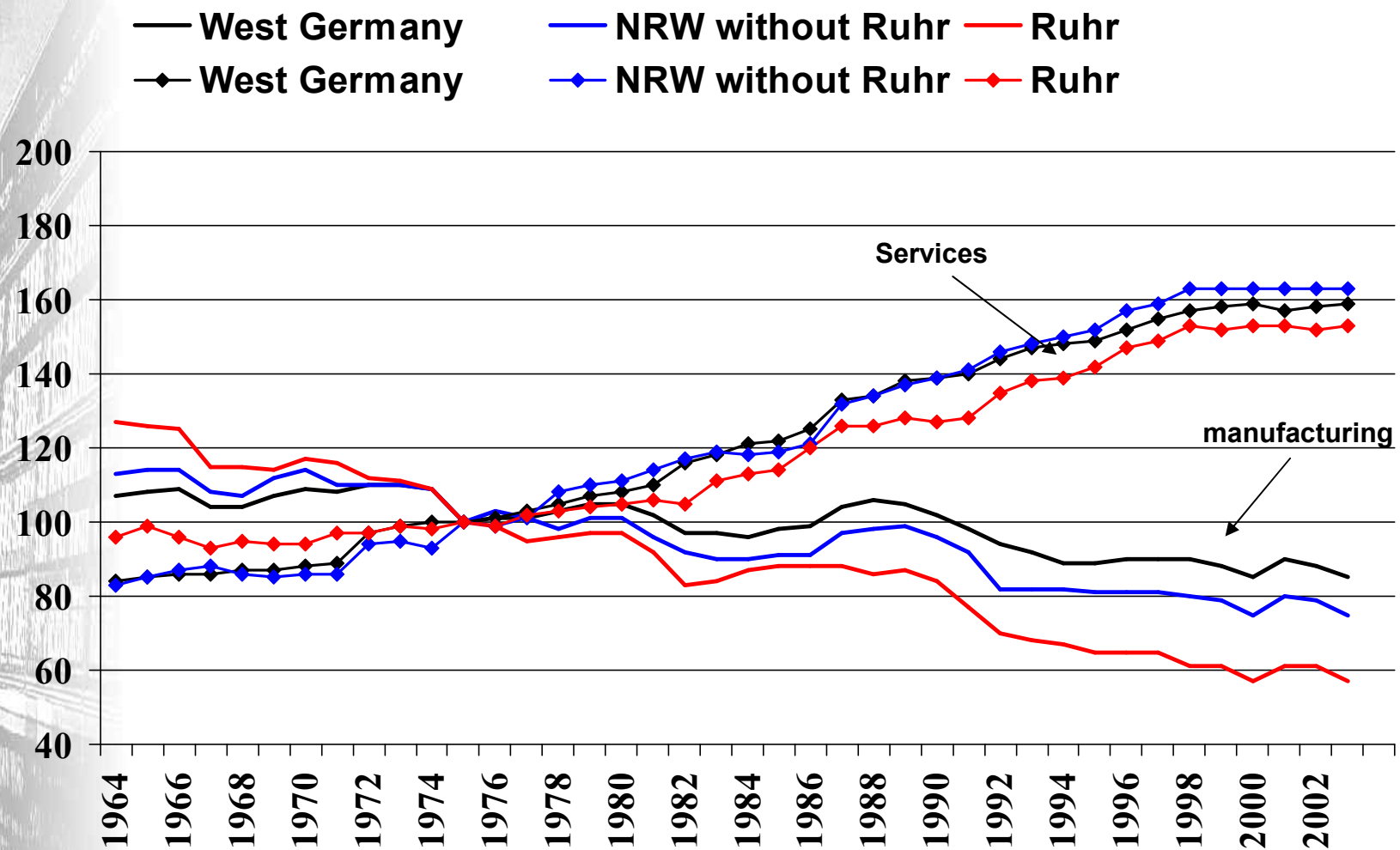
Content

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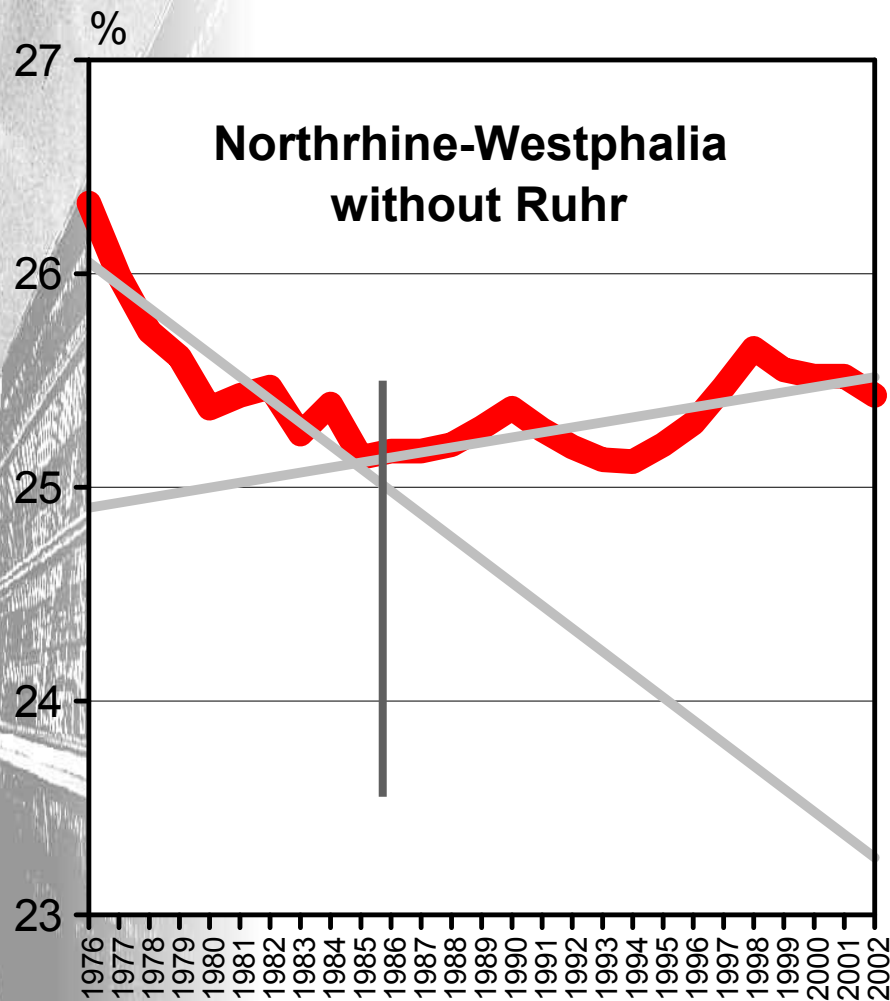
Industrial development of the Ruhr, 1960 - 2000

Employment in manufacturing and services (1975=100)

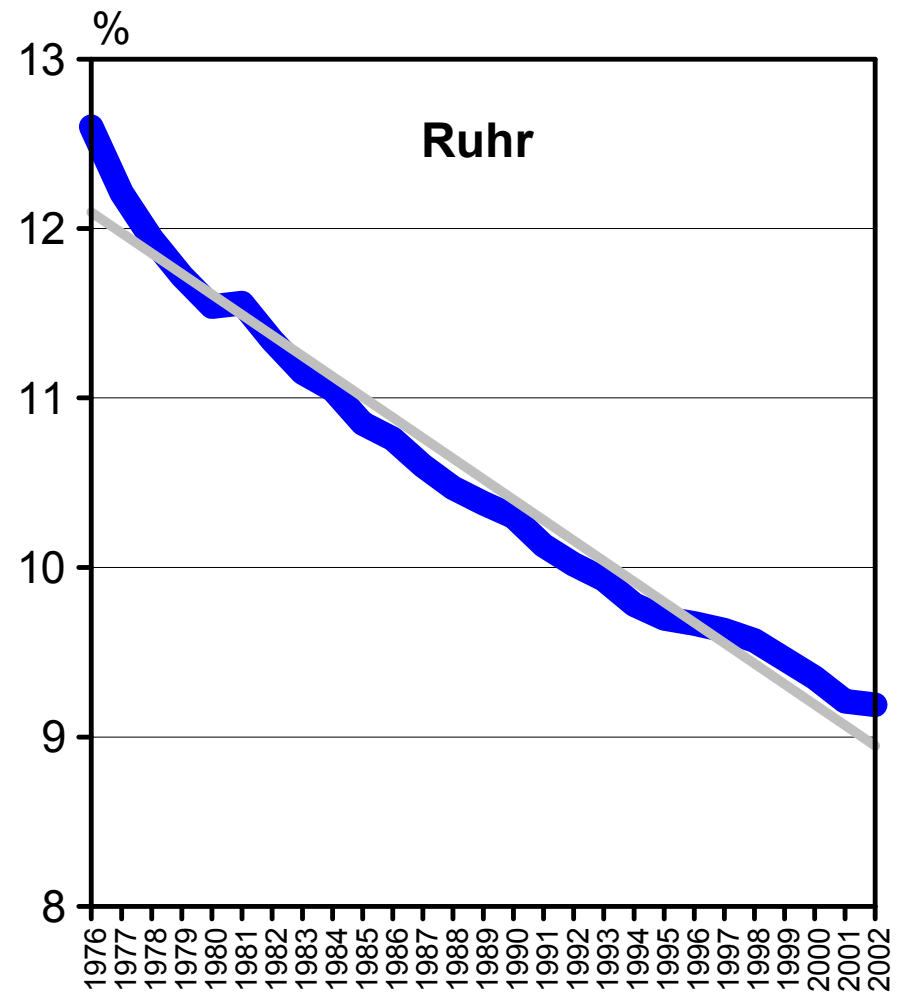


Source: LDS NRW; Calculations by IAT

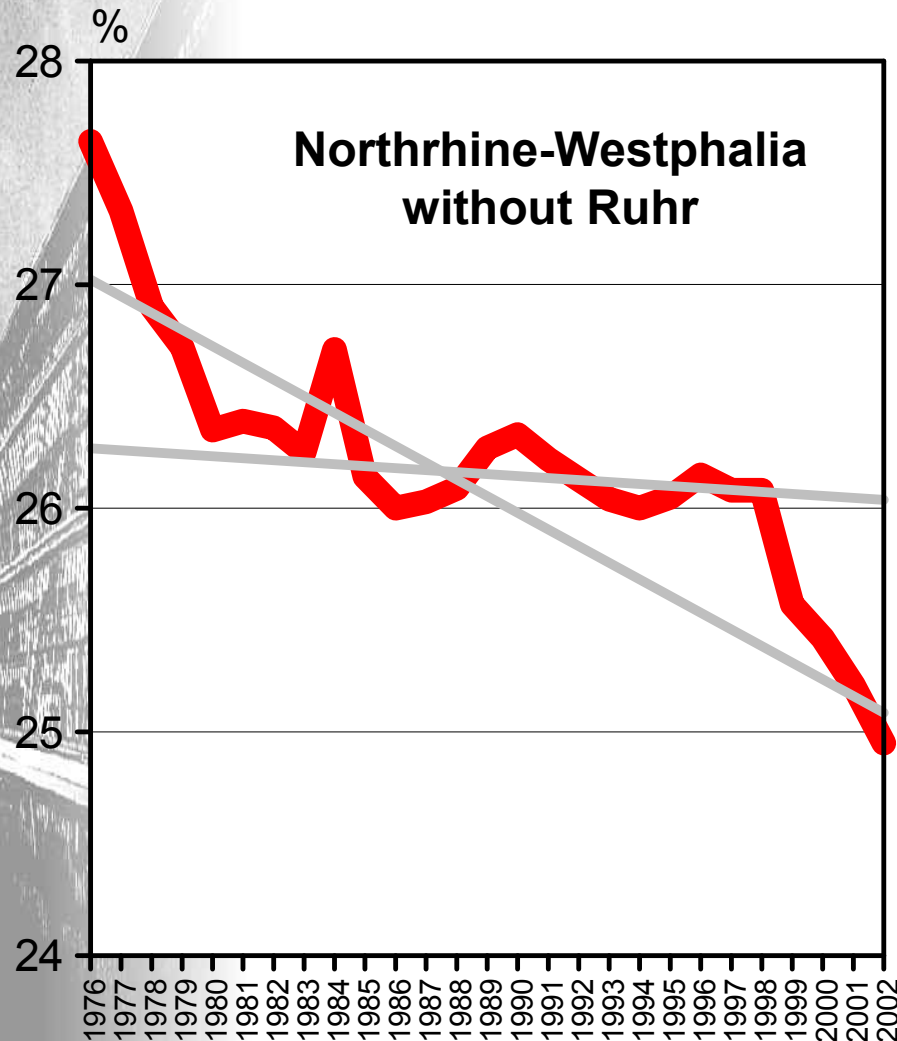
Employee in Northrhine-Westphalia as percentage of West Germany without NRW, 1976 - 2002



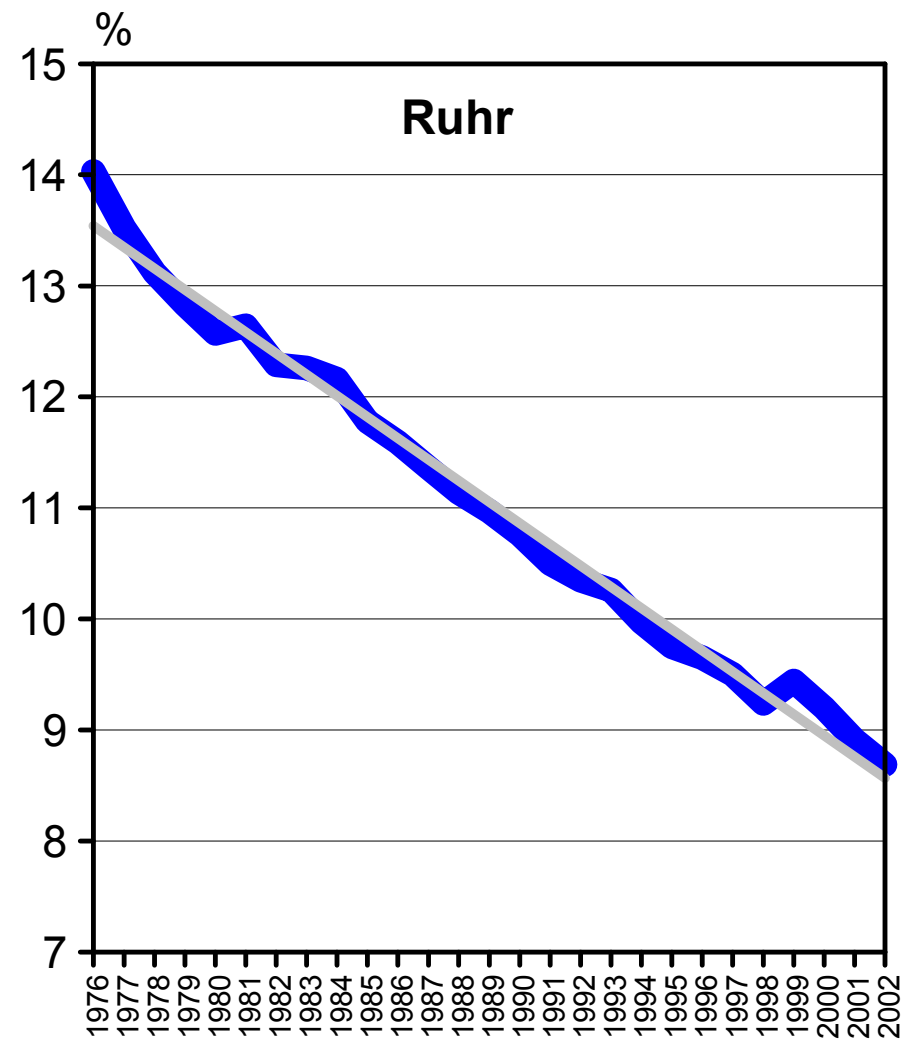
Source: BA-Regionalagentur NRW; Calculations by IAT



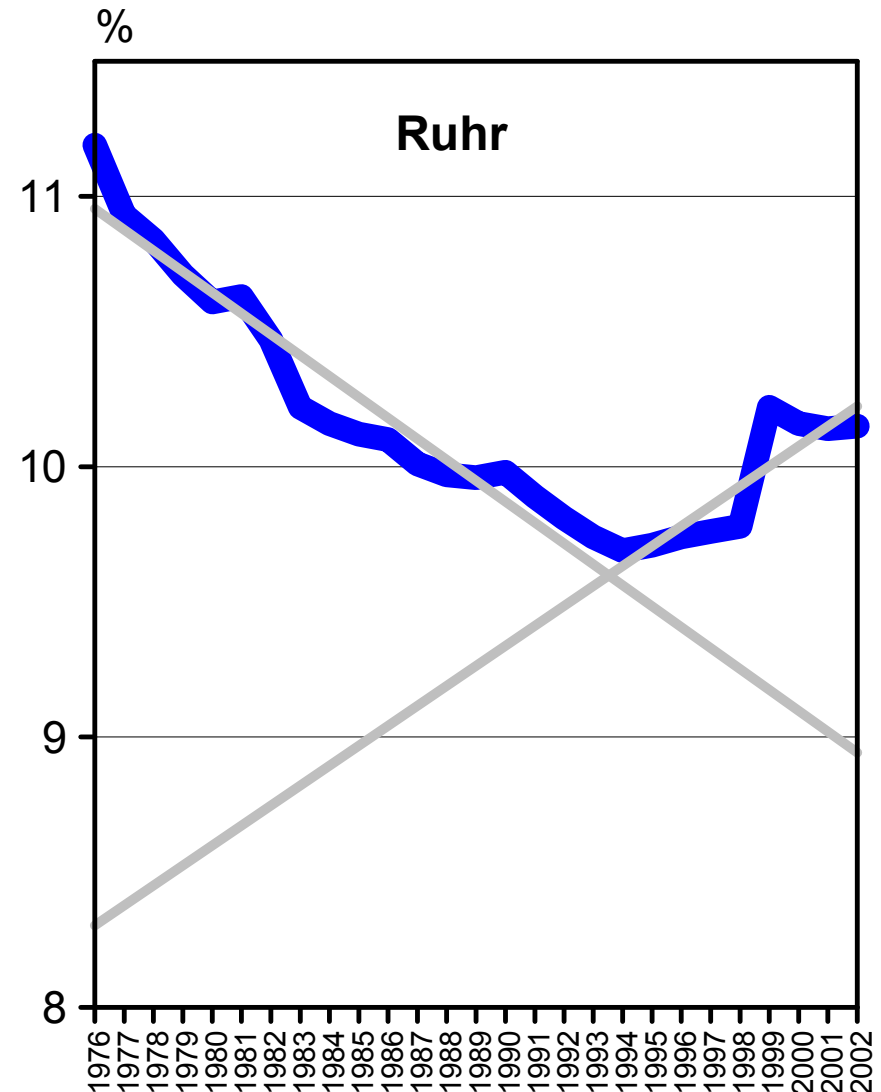
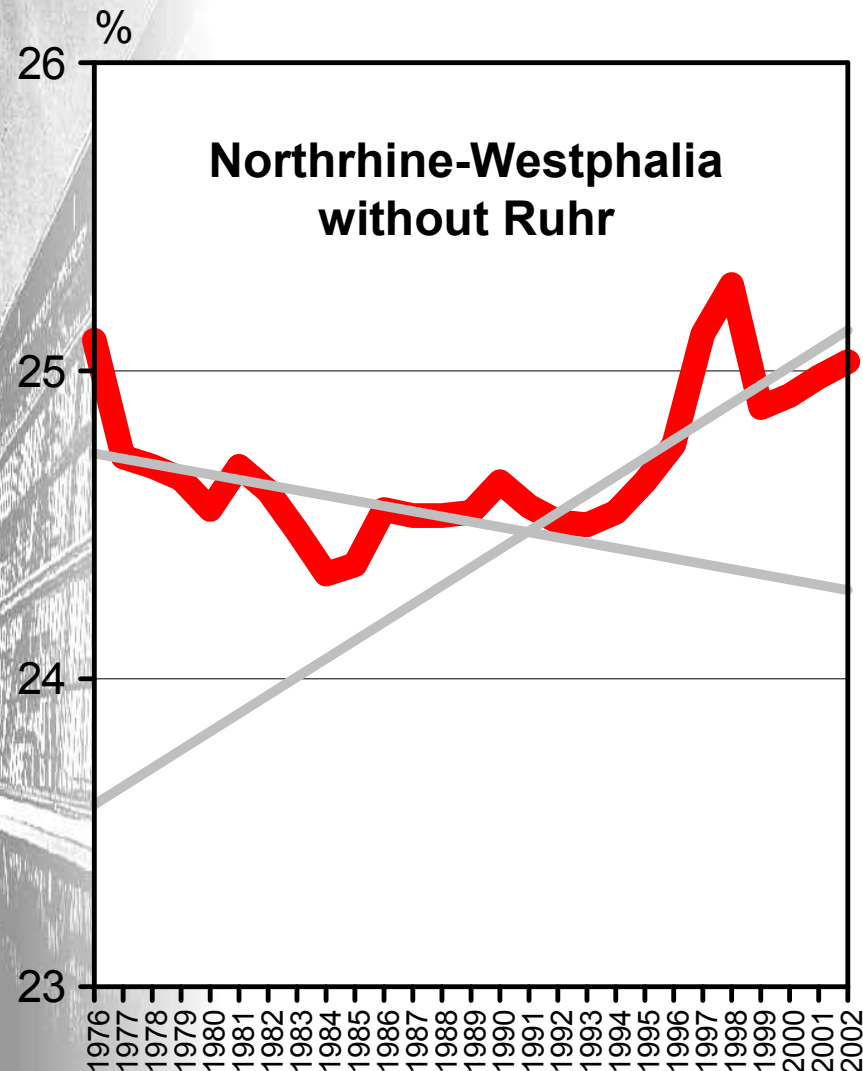
Employment in manufacturing: Northrhine-Westphalia as percentage of West Germany without Northrhine-Westphalia, 1976 - 2002



Source: BA-Regionalagentur NRW; Calculations by IAT

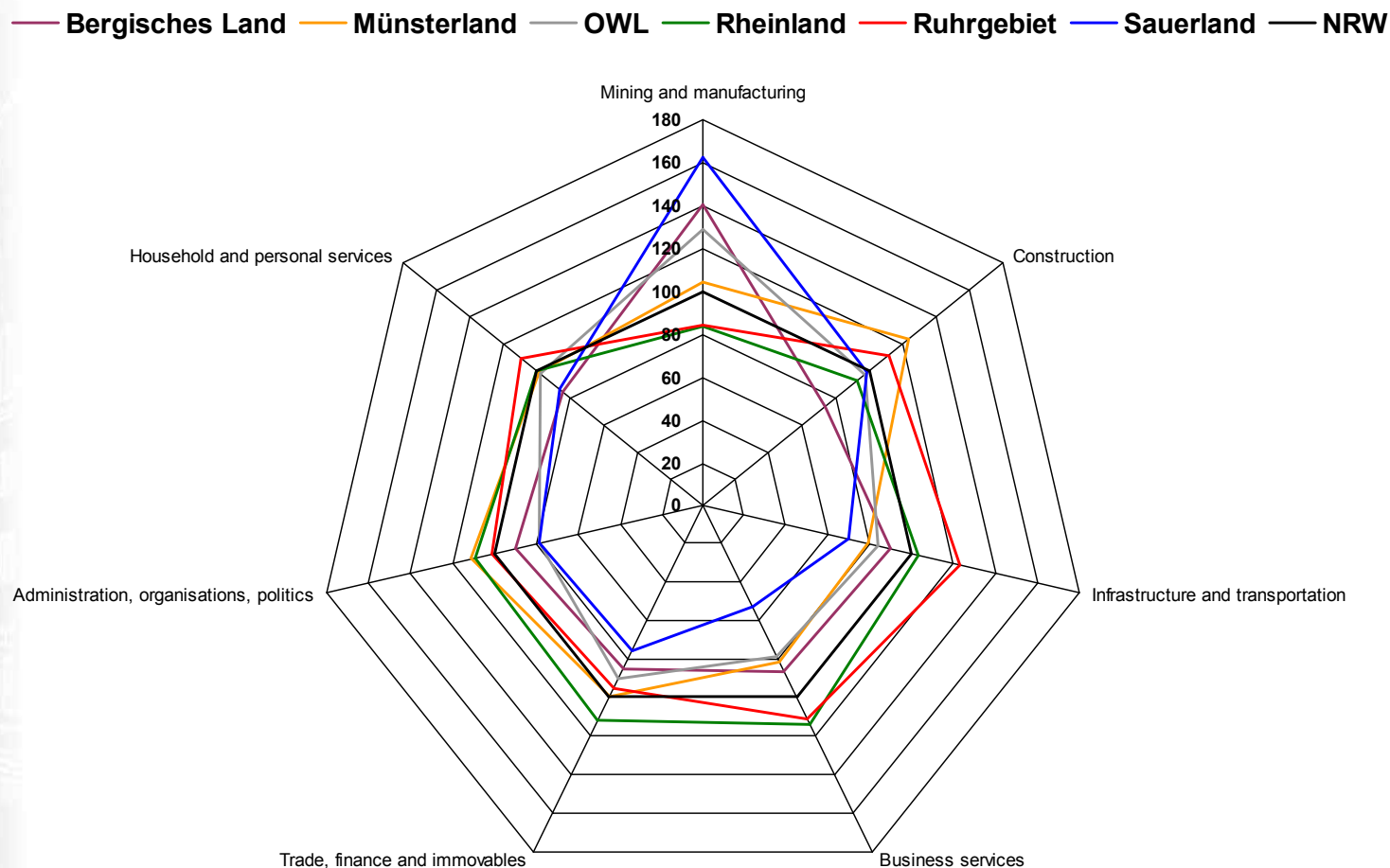


Employment in services: Northrhine-Westphalia as percentage of West Germany without Northrhine-Westphalia, 1976 - 2002





Sectoral profiles of occupation in the regions of NRW 2003 (NRW = 100)





A Gloomy Picture



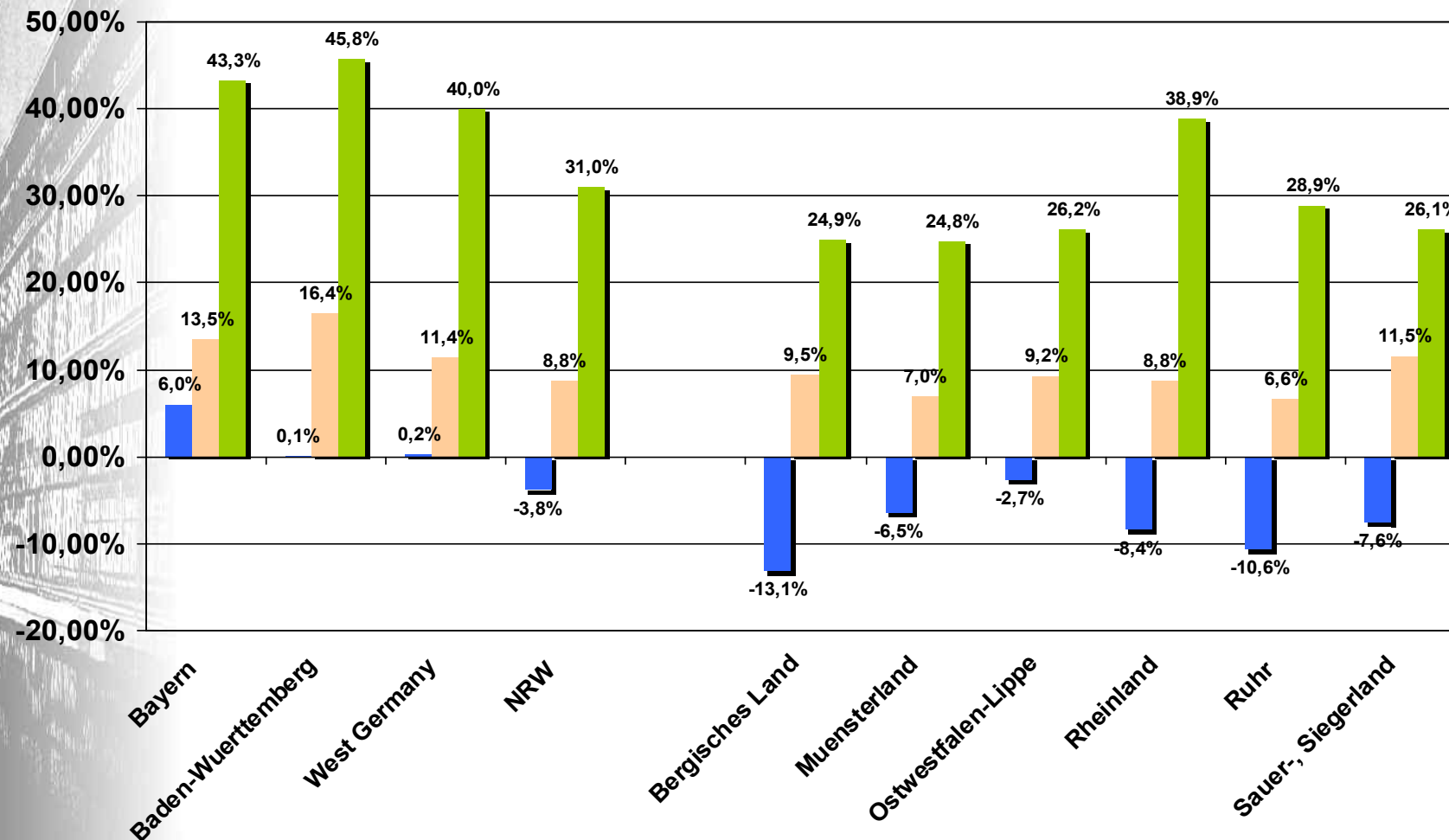


The data just presented, make up for a quite gloomy picture.

The picture becomes even more gloomy, if we look at some indicators for future prospects.

Employment in R&D - intensive industries

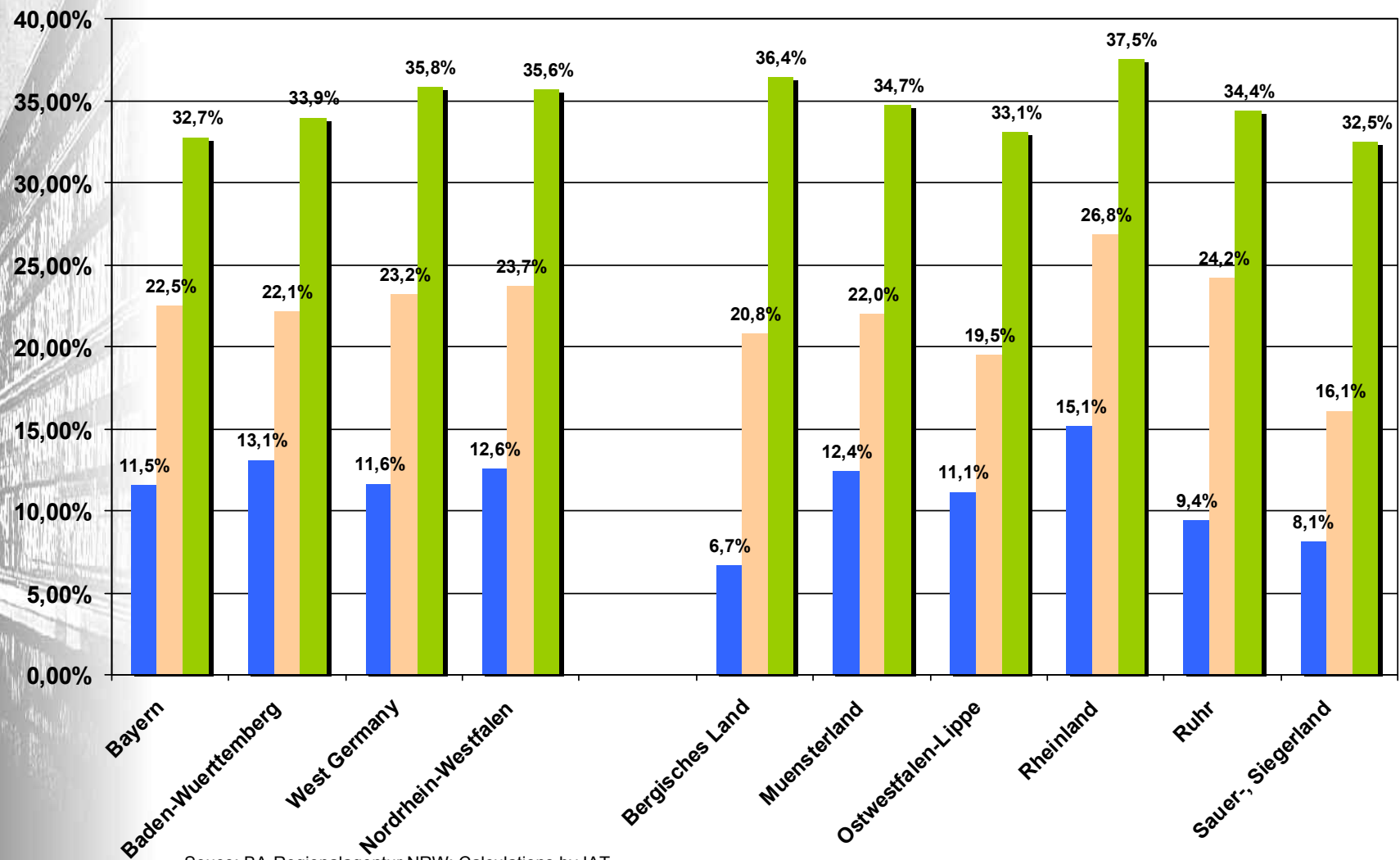
■ Growth rate 2003 / 1998 ■ Percentage of total employment, 2003 ■ Percentage of manufacturing, 2003





Employment in knowledge intensive services

■ Growth rate 2003 / 1998 ■ Percentage of total employment, 2003 ■ Percentage of services, 2003



Source: BA-Regionalagentur NRW; Calculations by IAT

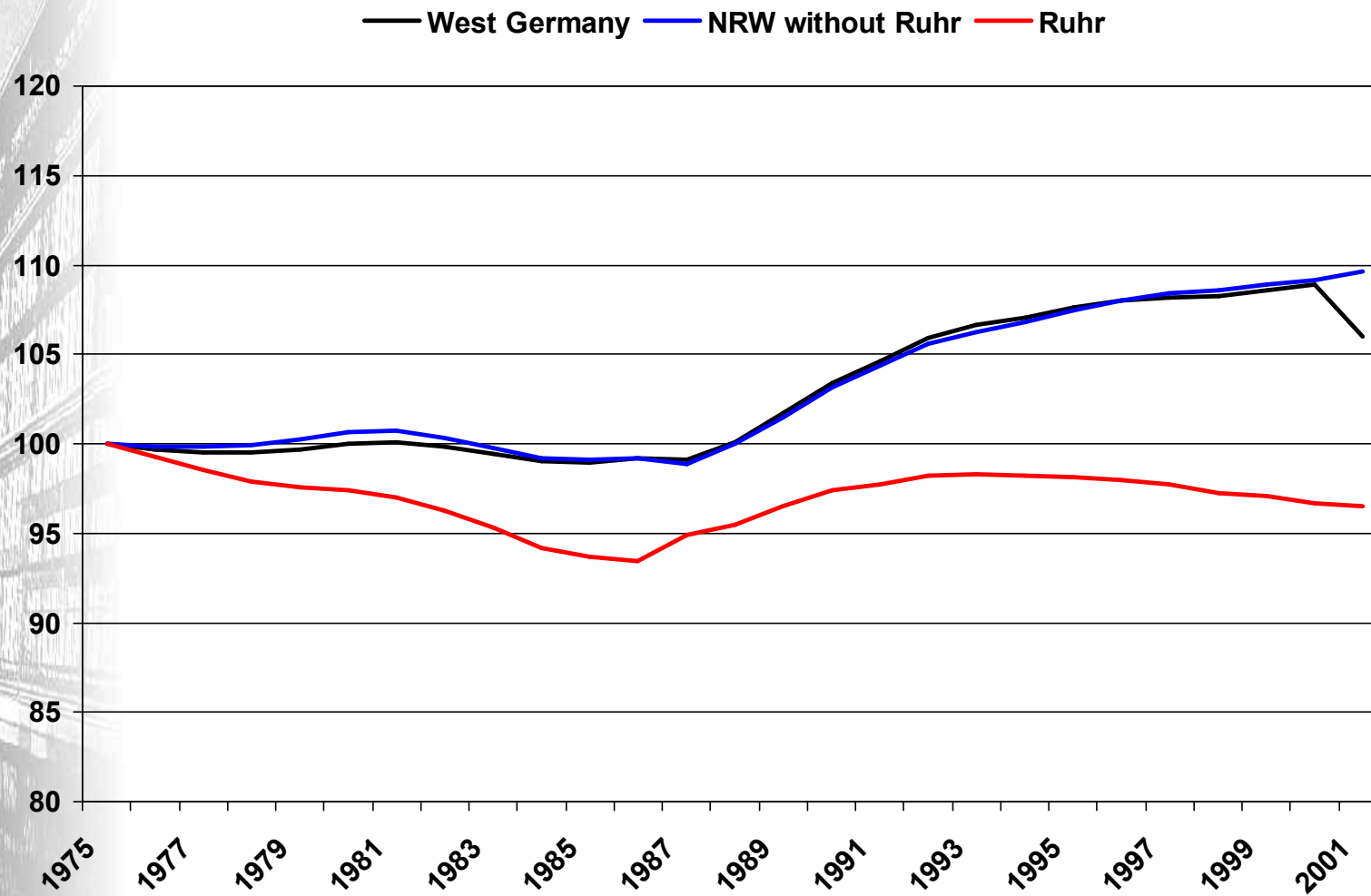
Patent applications at the German Patent Office per 100.000 employees, average 1995 – 2000 (Germany = 100)



Source: DPA Patentatlas Deutschland 2002; Calculations by IAT

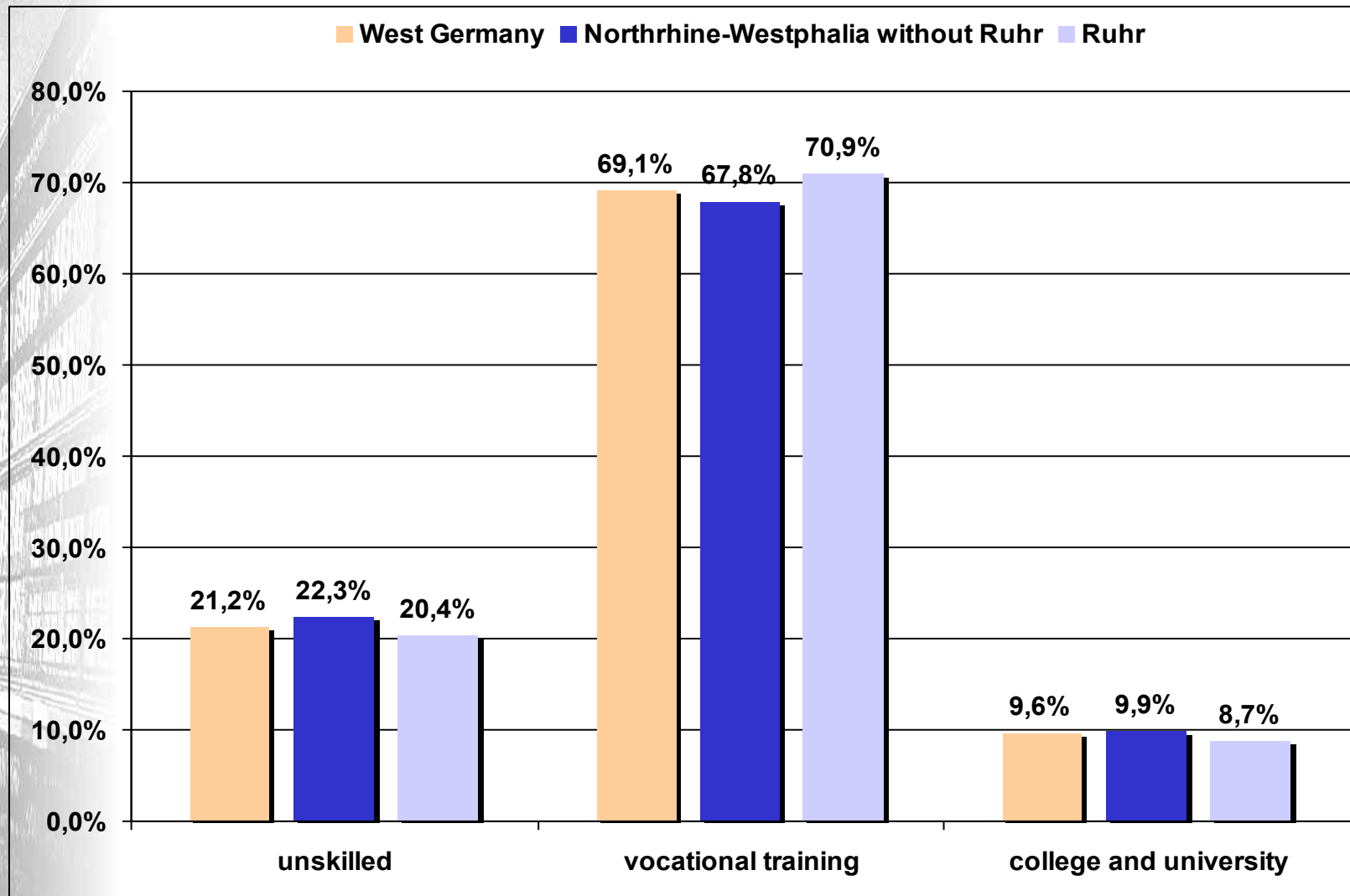


Population development in the Ruhr, NRW and West Germany (1975 = 100)



Source: LDS NRW; Calculations by IAT

Employment by education, 2002

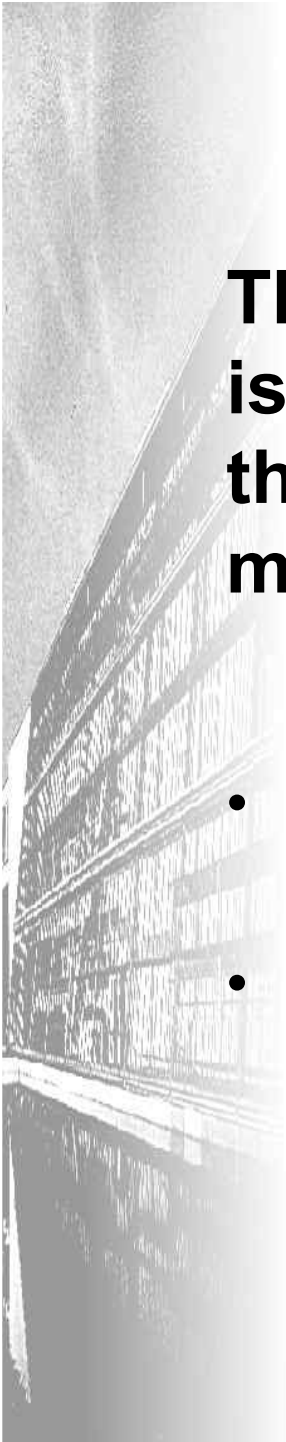


Source: BA-Regionalagentur NRW; Calculations by IAT



Behind the gloomy picture





The gloomy picture is only part of reality, but is the part which shapes both the image of the Ruhr and the predominant feelings of much of its population

- **Low ranking of the Ruhr and its cities in comparative surveys**
- **Motivational problems, in particular little self-reliance**

Behind the gloomy picture, there is a lot of positive development:

- **Universities and other institutions of higher learning and of R&D**
- **Innovative industries, both new and old**
- **Cultural development**
- **quality of life**
- **new networks**
- **institutional learning in regional policy**
- **market potentials**



Some theoretical reflections



Some theoretical reflections may help to better understand that the developments just described, carry the potential for fundamental change. The reflections concern:

- **Clusters, milieus and institutions**
- **Economic drivers in the knowledge-based economy**



Clusters, milieus and institutions

- **Structural change and cluster development**
- **milieus and cultural change**
- **regional policies**
- **institutional learning**



Economic drivers in the knowledge-based economy

- **Knowledge and the application of knowledge**
- **Markets and technology**
- **Comparative advantages of firms and regions**
- **The importance of labour**



Regional strategies and the knowledge-based economy



Implications for regional strategies and policies:

- **Activating policy**
- **Innovative spaces**
- **Cluster development**
- **lead markets**
- **Problem-solving growth**



Some illustrative cases

- **ChemSite**
- **Logport**
- **Neue Mitte Oberhausen and O.Vision**
- **Dortmund-Project**
- **MedEcon Ruhr**
- **Ruhr Tourism**