

DIETER LÄPPLE  
HafenCity University Hamburg  
Institute for Urban and Regional Economics

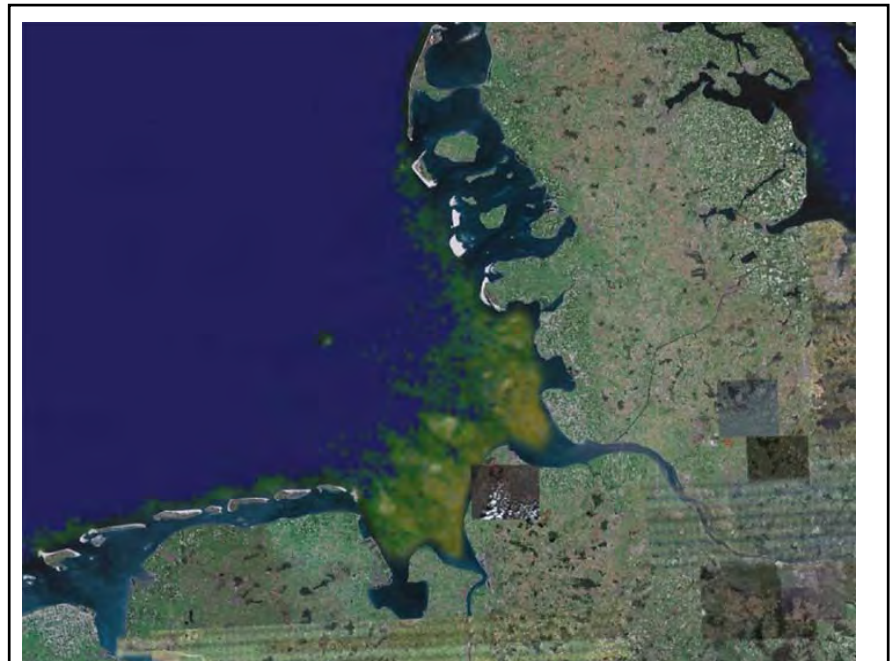
## Hamburg in the context of the German Metropolitan System

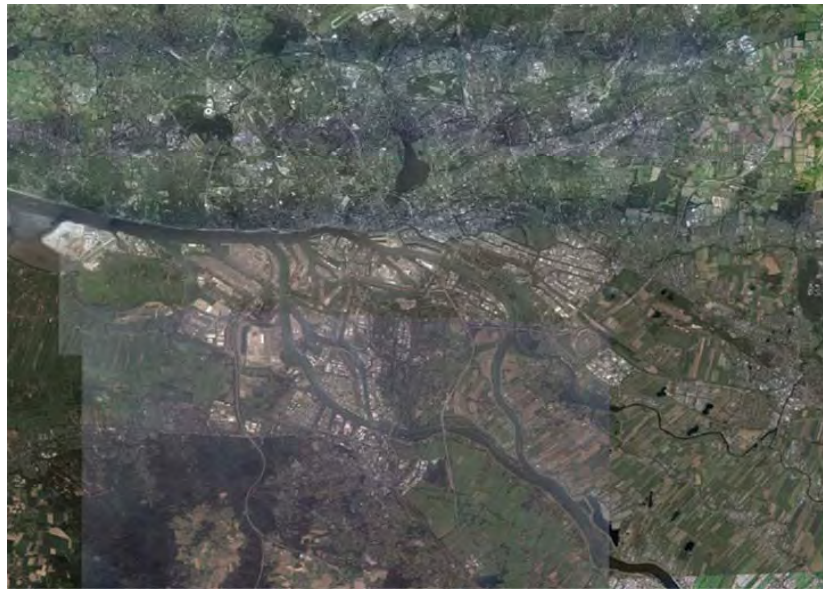
Séminaire / atelier IHEDATE  
Hamburg , 11 juin 2007

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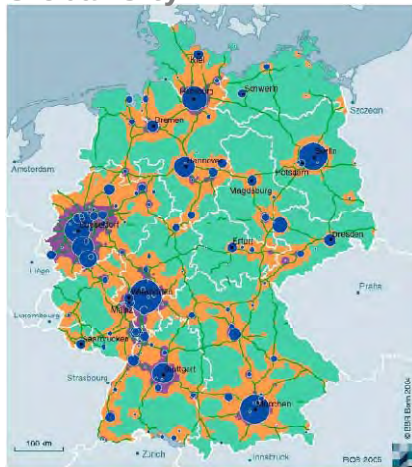


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## Spatial distribution of metropolitan functions – Network of metropolitan regions in place of a Global City



Quelle: BBR (2005) Raumordnungsbereich 2005, Bericht Bd. 21, Bonn, Seite 185

In Germany the polycentric urban system forms the historical basis for the development and profiling of metropolitan functions.

The metropolitan functions of diverse metropolises are interlinked in a spatial nexus.

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## Decline and crisis stories prevailed in the discourses on cities in Germany

For some decades, German cities had to face a cumulation of problems difficult to deal with:

- outward migration of urban dwellers and job opportunities
- persistent mass unemployment
- erosion of their financial basis

and after the German unification especially East German cities were faced with

- dramatic forms of urban shrinkage

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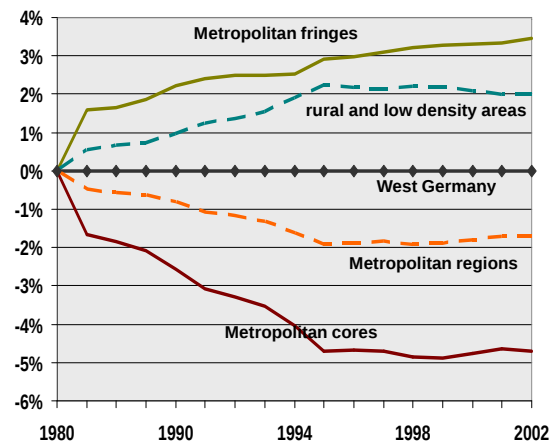
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### "Medium-term" Settlement Structure Development (employed population)

→Trend of Suburbanization as well as

→Trend of Disurbanization



#### Development of employment per area type from 1980 to 2002

Changes in relation  
to the old federal  
territory

1980 = 100

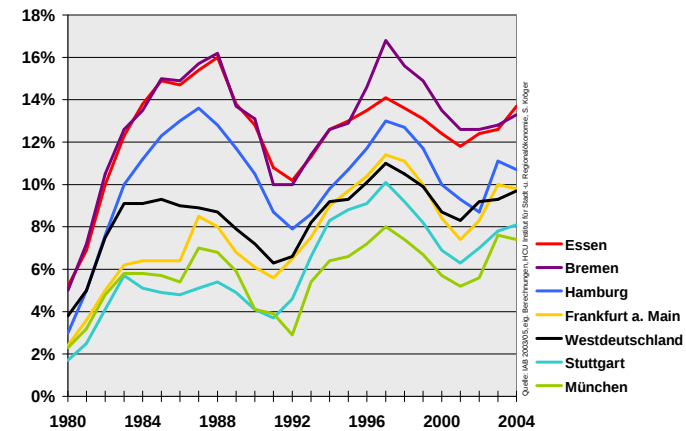
Source: IAB 2003, own calculations,  
TUHH Urban and regional Economy / S. Kröger

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### Unemployment rates in West German Cities 1980 - 2004

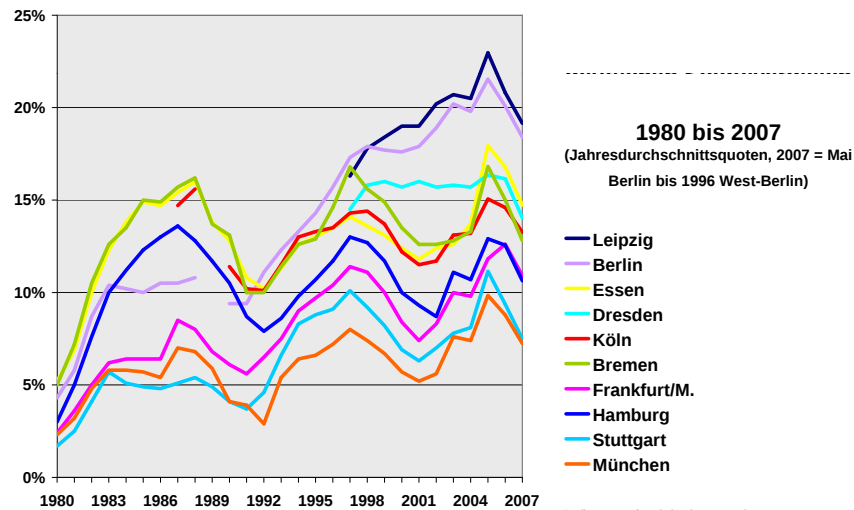


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## Unemployment rates in German Cities 1980 - 2007

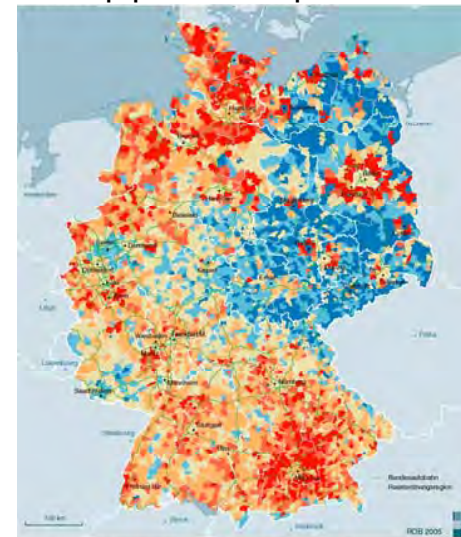


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## Current population development 1997 - 2003



## Side by side growing and shrinking population:

In approx. 3000 municipalities the population rate grew by 3,2 % over the last 6 years, whilst simultaneously falling by 3 % in approx. 1760 municipalities.

Growing and shrinking municipalities are often located closely to one another.

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## „Shrinking Cities“



A download from [www.shrinkingcities.com](http://www.shrinkingcities.com)

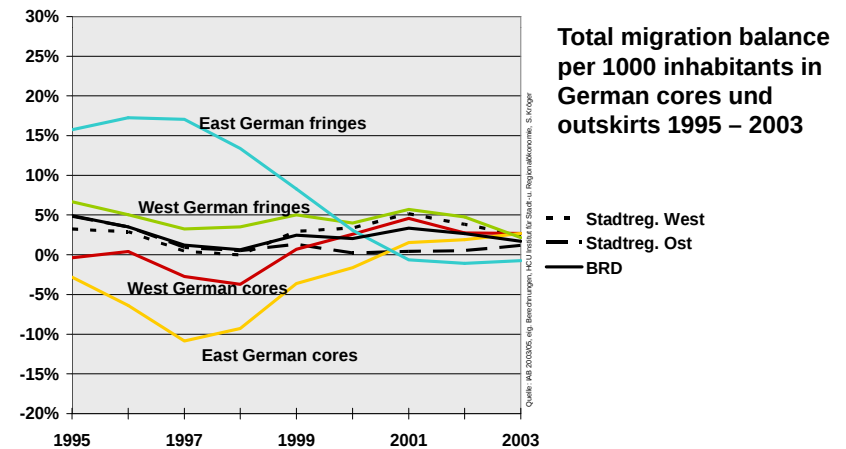
„Central locality – deserted“

“Residents moved away, buildings and infrastructure remained.”

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## Tendencies toward a Reurbanisation – Population Development

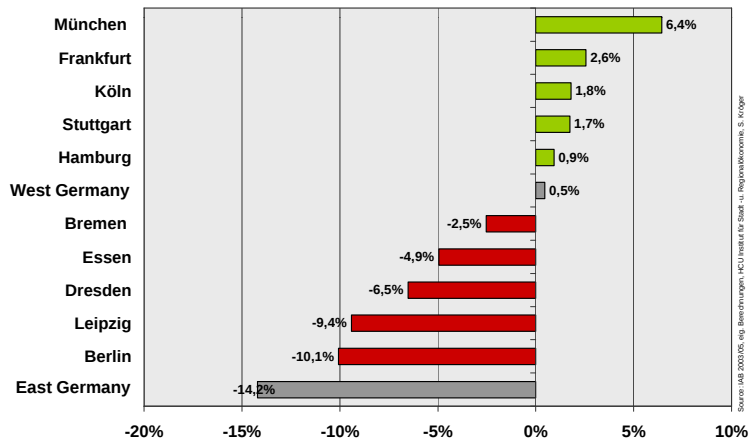


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## Reurbanization and polarization of the German urban system

Changes in the employment figures in German cities 1997 – 2004  
(West Germany without Hannover)



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## Network of German Metropolitan Regions



**Polycentric distribution of metropolitan functions:**

- Decision and control,
- Innovation and competition ,
- Gateway

„European Metropolitan Regions“ – following a resolution of the conference of the German ministers for spatial planning – in a first step:

Berlin/ Brandenburg, Hamburg, Munich, Rhine-Main, Rhine-Ruhr and Stuttgart  
München, Rhein-Main, Rhein-Ruhr und Stuttgart.

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## Network of German Metropolitan Regions



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„European Metropolitan Regions“ – following a resolution of the conference of the German ministers for spatial planning – in a first step:

Berlin/ Brandenburg, Hamburg, Munich, Rhine-Main, Rhine-Ruhr and Stuttgart,

as well as the potential metropolitan region, the so called **Sachsendreieck**: Halle/ Leipzig, Dresden and Chemnitz; this list was complemented by Hannover-Braunschweig-Göttingen, Bremen-Oldenburg, Rhine-Neckar & Nuremberg.

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## „Export World champion“ Germany without a „global city“?

### Question:

How can we explain the contradiction between

- > the **key position** of **Germany** in the **global economy** and
- > the **‘secondary importance’ of the German cities** in the **global networks of cities**?

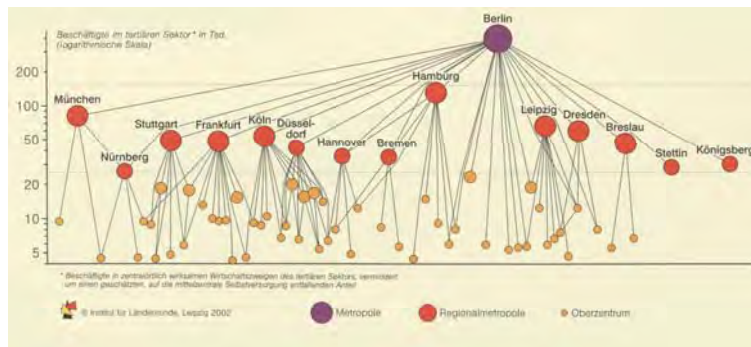
*Is the German network of metropolises only a special deficient case in the hierarchy of the global network of cities or is it likely that the „Rheinish Capitalism“ has not only formed an alternative model of production, but also an alternative and effective model of urbanization?*

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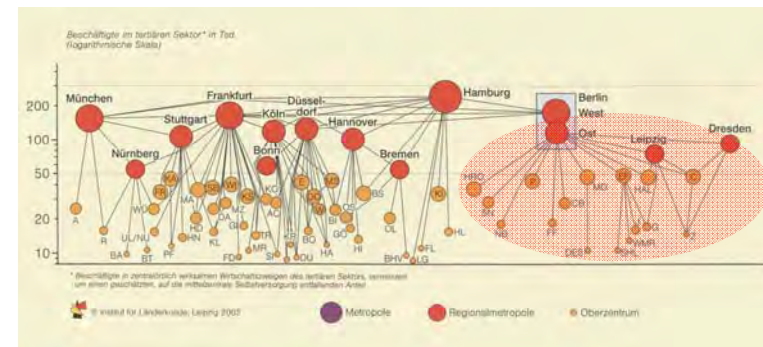
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## Hierarchy profile of the urban system 1939



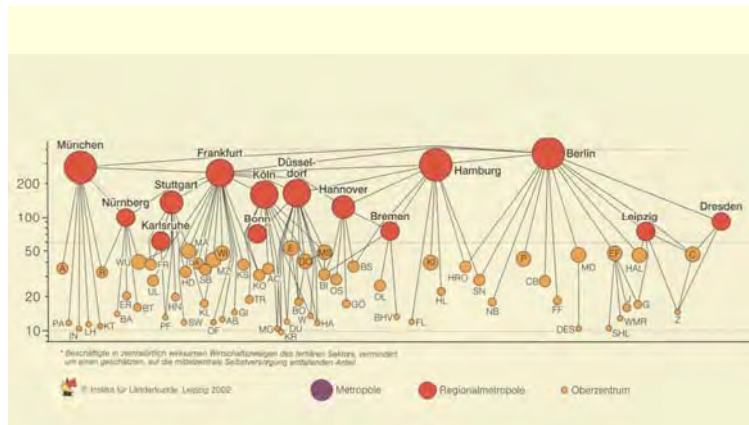
Source: Hans H. Blotevogel 2002

## Hierarchy profile of the urban system 1970 Division of Germany in West (left) and East Germany (right)



Source: Hans H. Blotevogel 2002

## Hierarchy profile of the urban system 1995 after the German reunification

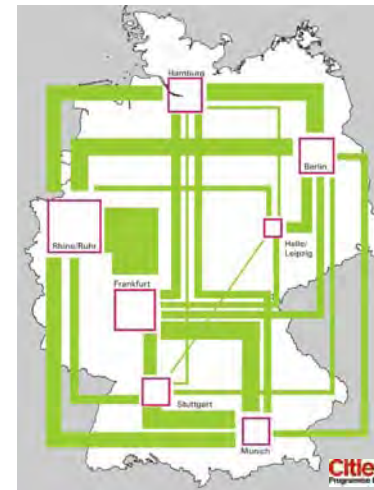


Source: Hans H. Blotevogel 2002

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## German traffic flows business purpose by rail, car and plane



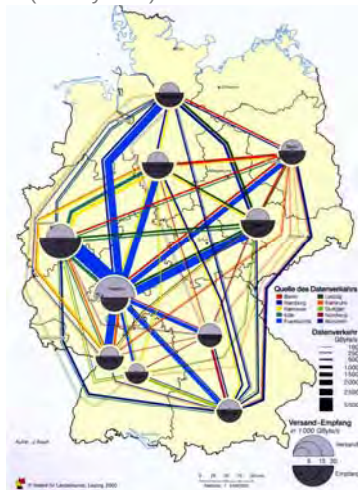
**Strong spatial-functional  
interconnection between the  
Metropolitan Regions –  
The example of business  
trips**

Source: LSE, BVWP, Verflechtungsmatrizen  
1997

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## Data traffic in the broad-band science network WiN (in GBytes/s)



Source: Nationalatlas BR Deutschland, Bd.9 Verkehr und Kommunikation, S. 57

### Science broad-band network:

**Frankfurt** – intersection node for connections to the European science network and point of interchange with commercial German providers.

**Cologne** – intersection node for connections to the USA

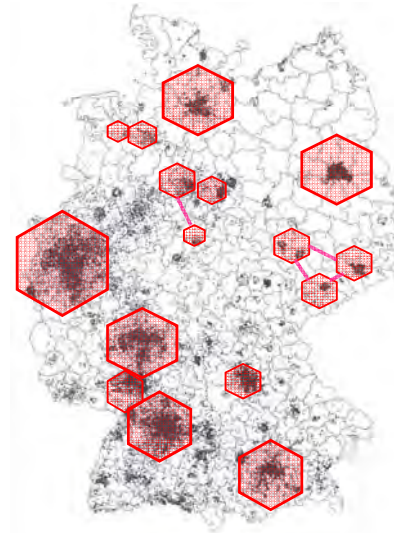
Source: Rauh 2004

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## Patent applications at the location of the inventor (1992 – 94)



Spatial distribution and concentration of the knowledge economy and their correspondence with the spatial configuration of the metropolitan system.

Quelle: Graf: Spatialized Patentgeographie in: Rauh 2004, S.144

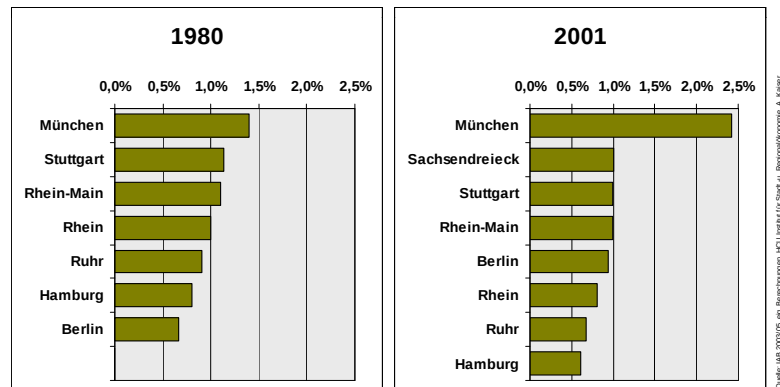
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## Ranking of location quotients among West German metropolitan regions

Engineering & Architecture (WZ73: 800)

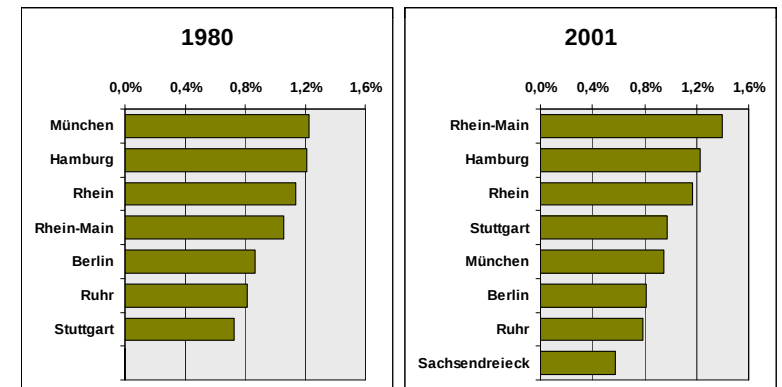


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## Ranking of location quotients among West German metropolitan regions

Consulting and accountancy (WZ73: 791)

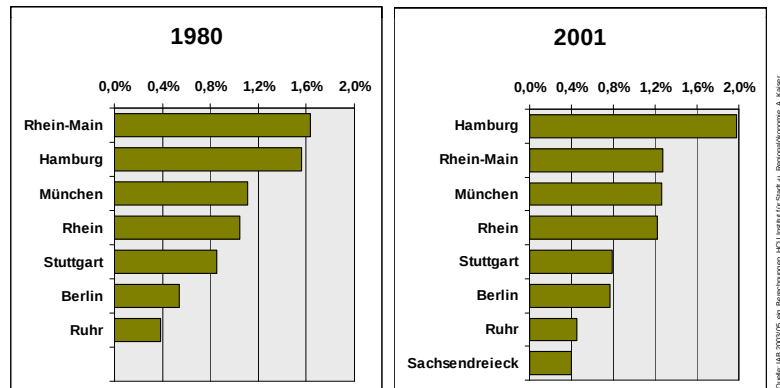


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## Ranking of location quotients among West German metropolitan regions

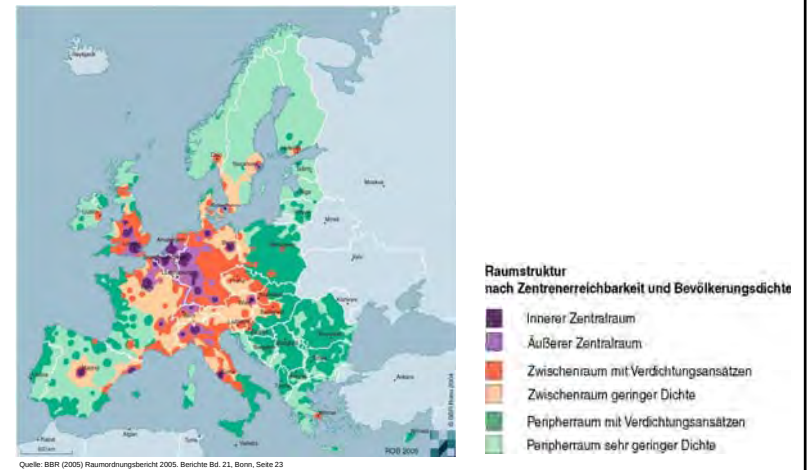
Advertising (WZ73: 820)



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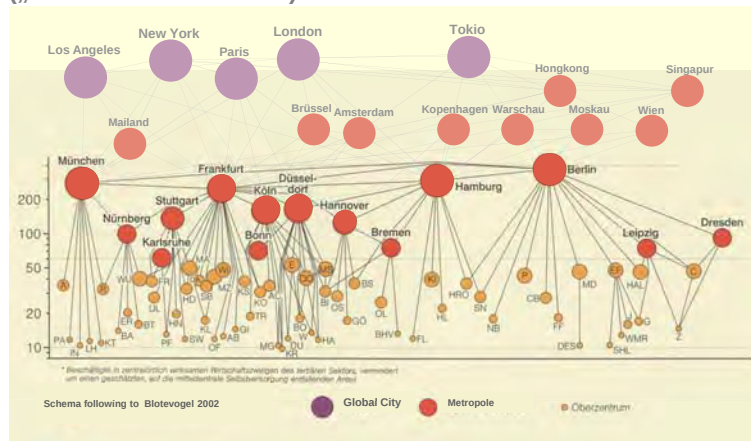
## German network of cities and metropolises – part of the European spatial network



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**The German Metropolitan System:  
Integrated into global, European, national und regional networks  
(„multi-tiered networks“)**



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Hamburg  
The Growing  
City



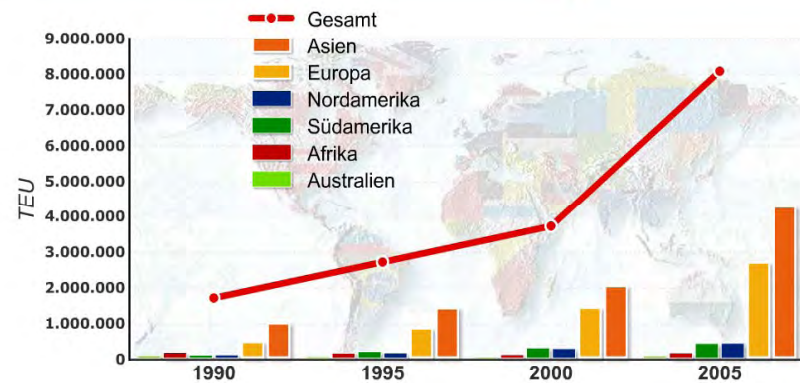
**Strategic orientation:  
Creation and strengthening of Clusters:**

Life Sciences  
IT and the Media  
Aviation  
China  
The Port and Logistics

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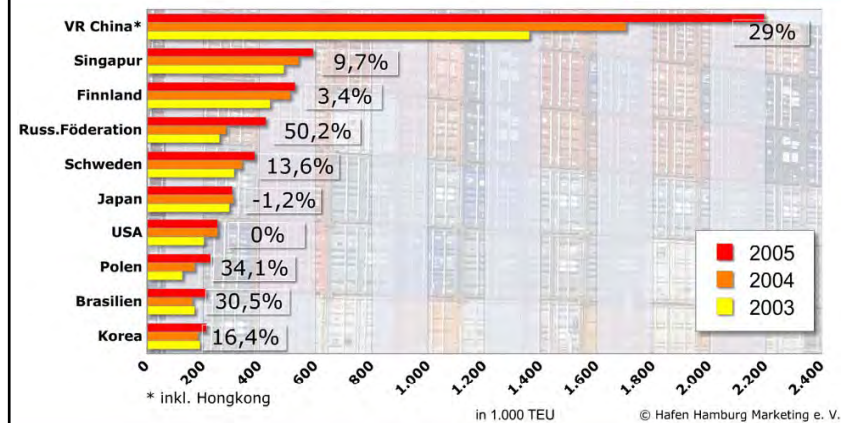
# Containerumschlag 1990 – 2005 nach Kontinenten in TEU



PORT of HAMBURG

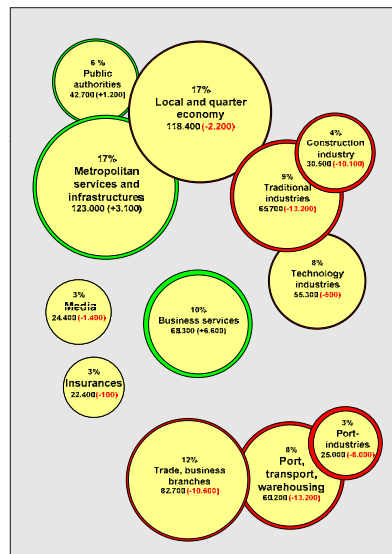
www.port-hamburg.de

# Top 10 - Wichtige Handelspartner des Hafens Hamburg im Containerverkehr über See



PORT of HAMBURG

www.port-hamburg.de



### Hamburg

Urban sectoral clusters  
in **Hamburg (Core city)**  
Percentage of total employment  
1980-1987

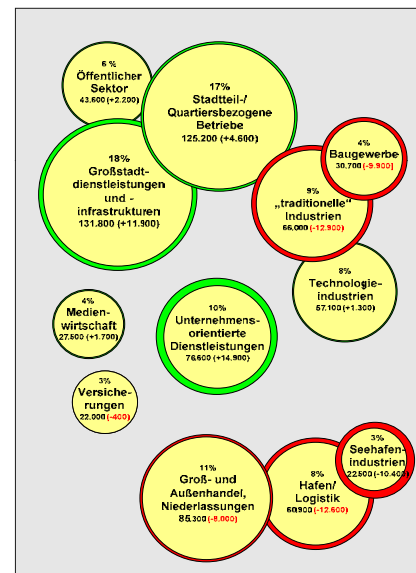
green circles : increase in employment;  
red circles : decrease in employment.

„Sectoral“ approach of the urban economy :

- which sectors are growing?
- which sectors are shrinking?

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### Städtische Teilökonomien in **Hamburg (Kernstadt)** in % der Gesamtbeschäftigung

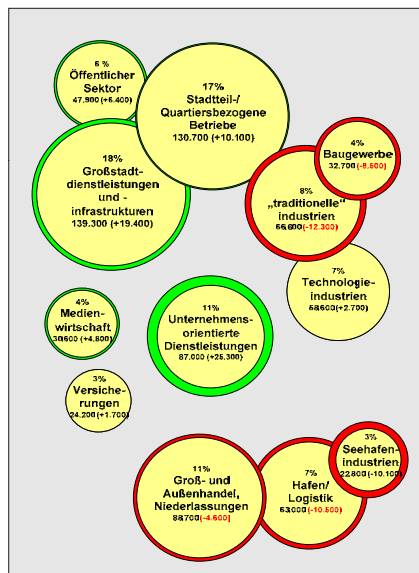
Zu- bzw. Abnahme 1980-1990

grüne Kreise: Beschäftigungszunahme;  
rote Kreise: Beschäftigungsabnahme.

Datenquelle: Beschäftigtenstatistik IAB, eig. Berechnungen/ TUHH - Grad-u. Regionalökonomie (Läpple/ Menzel-Kröger)

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Datenquelle: Beschäftigtenstatistik IAB, eig. Berechnungen/ TUHH - Stadt-u. Regionalkonomie (Läpple/Menzel/Kröger)

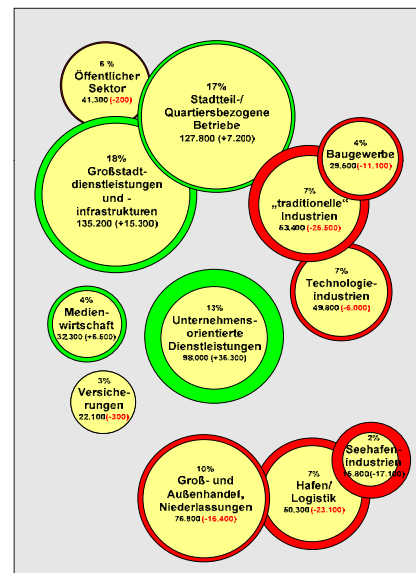
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### Städtische Teilökonomien in Hamburg (Kernstadt) in % der Gesamtbeschäftigung Zu- bzw. Abnahme 1980-1992

grüne Kreise: Beschäftigungszunahme;  
rote Kreise: Beschäftigungsabnahme.

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Datenquelle: Beschäftigtenstatistik IAB, eig. Berechnungen/ TUHH - Stadt-u. Regionalkonomie (Läpple/Menzel/Kröger)

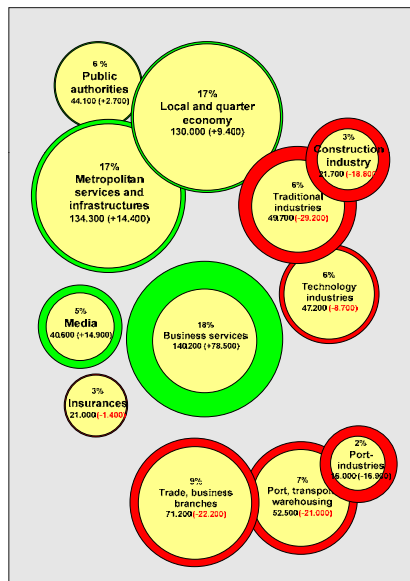
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### Städtische Teilökonomien in Hamburg (Kernstadt) in % der Gesamtbeschäftigung Zu- bzw. Abnahme 1980-1997

grüne Kreise: Beschäftigungszunahme;  
rote Kreise: Beschäftigungsabnahme.

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### Urban sectoral clusters in **Hamburg (Core city)** Percentage of total employment 1980-2002

green circles : increase in employment;  
red circles : decrease in employment.

#### „Sectoral“ approach of the urban economy :

- Which sectors are growing?
- which sectors are going down?

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## Hamburger Medienlandschaft

Die Medienlandschaft Hamburgs als Basis der Medien-Konvergenz



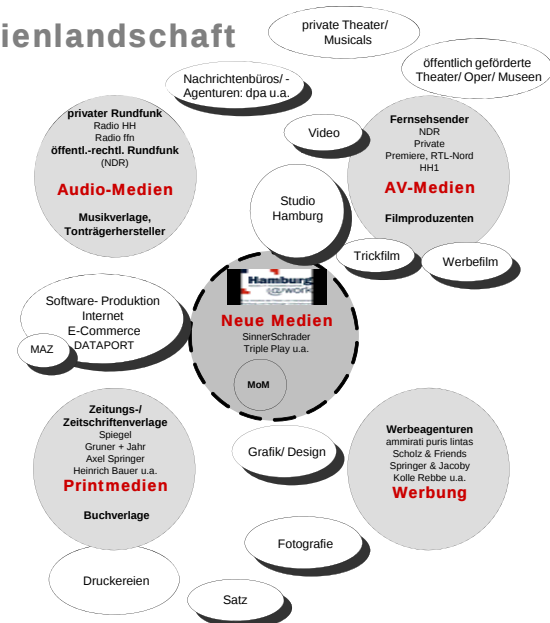
Digitale Wirtschaft

Digitale Kultur

Multimedia-Industrie

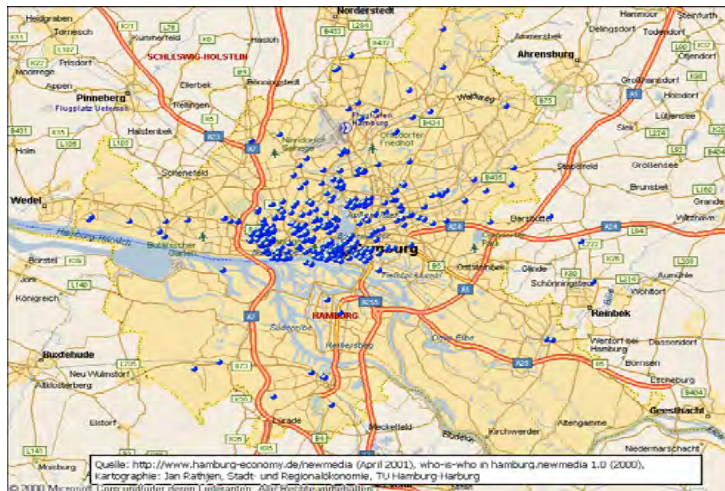
TIMES-Sektor

(Telekommunikation, Internet, Multimedia, Elektronischer Handel, Software & Sicherheit)



Quelle: HCU Hamburg, Institut für Stadt- und Regionalökonomie, D. Läßle, I. Hönekopp

## Stadträumliche Einbettung der Multimedia-Unternehmen und Internet-Dienstleister in Hamburg



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## Orte der Kreativwirtschaft

Hamburg Ottensen  
Borselhof



Hamburg Bahrenfeld  
- Altes Gaswerk

Hamburg Altona - Phoenixhof



Hamburg Zeisehallen

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## **IBA\_Hamburg „Sprung über die Elbe“**

Der Hamburger Senat hat die IBA Hamburg GmbH mit der Durchführung der ersten Internationale Bauausstellung in Hamburg für den Zeitraum von 2006 bis 2013 beauftragt.

Die IBA Hamburg ist mehr als eine reine Bauausstellung. Sie ist ein Stadtentwicklungsprozess, der sich räumlich auf Wilhelmsburg, die Veddel und den Harburger Binnenhafen fokussiert.

Im Rahmen der IBA werden zentrale Fragen der aktuellen Metropolenentwicklung wie die Internationalisierung der Stadtgesellschaft und die Bedingungen eines stadtverträglichen Wachstums thematisiert, darüber hinaus die Rolle der Stadt im Klimawandel.

Damit entwirft eine IBA erstmals das Zukunftsbild der europäischen Stadt im 21. Jahrhundert.