



# The US - German Bilateral Working Group (BWG):

## *Collaborative Research for a Sustainable Future*



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Maike Hauschild, Project Management Jülich on behalf of BMBWF***



# Outline

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- **Background – The Early Years (Phases 1-2)**
- **Phase 3 – Redevelopment of Potentially Contaminated Sites**
- **Phase 4 – Sustainable Land Revitalization**
- **German Program REFINA**
- **Contact Information; Websites**





# History of Collaboration between US and Germany

## *A phased approach.....*

- **Workgroup Began in 1990**
- **Initial Focus on Cleanup Technologies**
- **In 2000 -- Focus on Redeveloping Potentially Contaminated Sites**
- **In 2006– Focus on Sustainable Land Revitalization**





# Ultimate Goal .....

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St. Louis, Missouri



Stuttgart

*Working together toward common goals  
and a shared vision*



## **Phase 3 Program Goal and Objectives**

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### *Develop Tools and Techniques to Facilitate Revitalization Of Potentially Contaminated Sites*

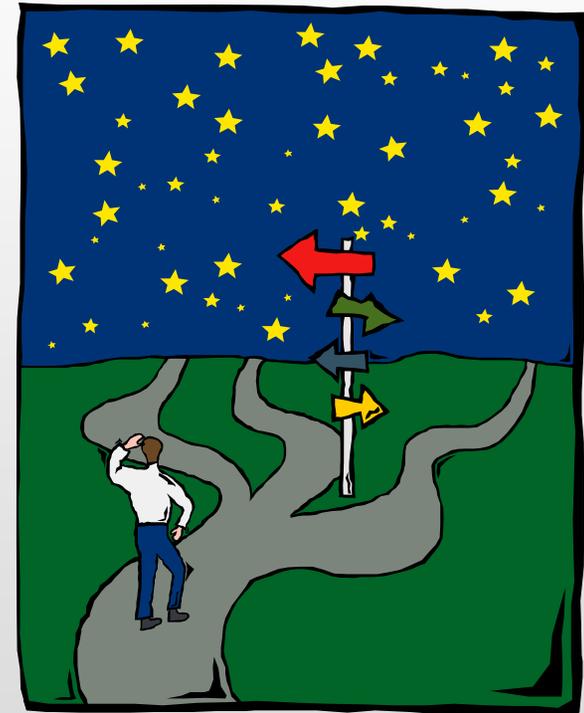
#### **OBJECTIVES:**

- **Facilitate Equitable Land Use**
- **Facilitate Faster Redevelopment of Sites**
- **Allow Greater Independence from Public Money**
- **Enhance Benefits to Society**



## Phase 3 Approach

- Step 1: Baseline workshops to **identify obstacles** to revitalization
- Step 2: Feasibility study to **determine which obstacles** the U.S.-German Bilateral Working Group could address
- Step 3: Research and develop **tools and techniques to overcome obstacles** to revitalization
- Step 4: **Beta-test tools and techniques** to determine if they facilitate revitalization



**SHARE IDEAS AND EXPERIENCES**



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## Phase 3 Tools to Overcome Obstacles (Products) (2000-2005)

- Documentation of 7 International Practitioners-workshops
- Sustainable Management Approaches and Revitalization Tools – electronic (SMART-e) [U.S.EPA] available at [smarte.org](http://smarte.org)
- Start-Up-Brachfläche – Arbeitshilfe (Germany) available at [www.vegasinfo.de/startup/](http://www.vegasinfo.de/startup/)
- Report: Vapor Intrusion Issues at Brownfields Sites (ITRC)
- GEPARD – Bilingual Business Plan - Outlines an Interactive Calculation Tools





## Phase 3: Workshop Summary (2000-2005) – CD Ordering information at [smarte.org](http://smarte.org)

<u>Workshop</u>	<u>Location</u>
<b>Economic Tools</b> <i>11-12 November 2002</i>	<b>Charlotte, North Carolina</b>
<b>Project Management and Market Strategies</b> <i>7-8 May 2002</i>	<b>Saarbrücken, Germany</b>
<b>Risk Assessment/Communication Tools</b> <i>23-24 October 2003</i>	<b>Portland, Oregon</b>
<b>Social Aspects</b> <i>17-18 June 2004</i>	<b>Leipzig, Germany</b>
<b>Sustainable Reuse</b> <i>16-17 September 2004</i>	<b>St. Louis, Missouri</b>
<b>Summary Conferences</b> <i>31 Oct-1 Nov 2005; 18-19 April 2005</i>	<b>Berlin, Germany</b> <b>Denver, Colorado</b>

# **Phase 4**

## **Sustainable Land Revitalization**





## Phase 4: Program Goal and Objectives (2006-2010)

*Develop Tools and Techniques to Facilitate Sustainable Land Revitalization*

### **OBJECTIVES:**

- Facilitate **Environmentally, Socially, and Economically Viable** Land Use
- Facilitate **Transfer of Information Both Nationally and Internationally**
- Allow Greater Independence from Public Grants
- Enhance Benefits to Society **and the Environment**



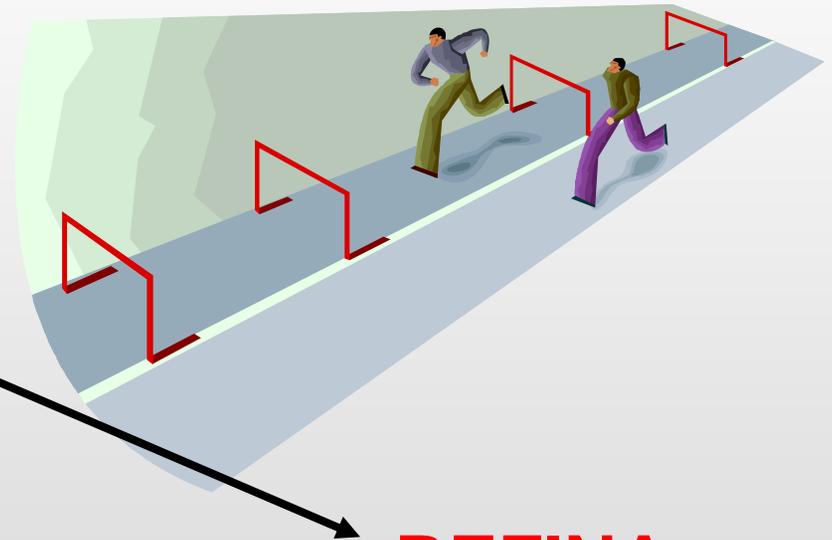
## Phase 4 – Approach (2006-2010)

**Step 1: Baseline workshops to identify obstacles to **sustainable land revitalization****

**Step 2: Feasibility study to determine which obstacles the U.S.-German Bilateral Working Group can address**

**Step 3: Research and develop tools and techniques and technologies to overcome obstacles to **sustainable land revitalization****

**Step 4: Beta-test tools and techniques to determine if they facilitate **sustainable land revitalization****



**REFINA**



**SHARE IDEAS AND EXPERIENCES**

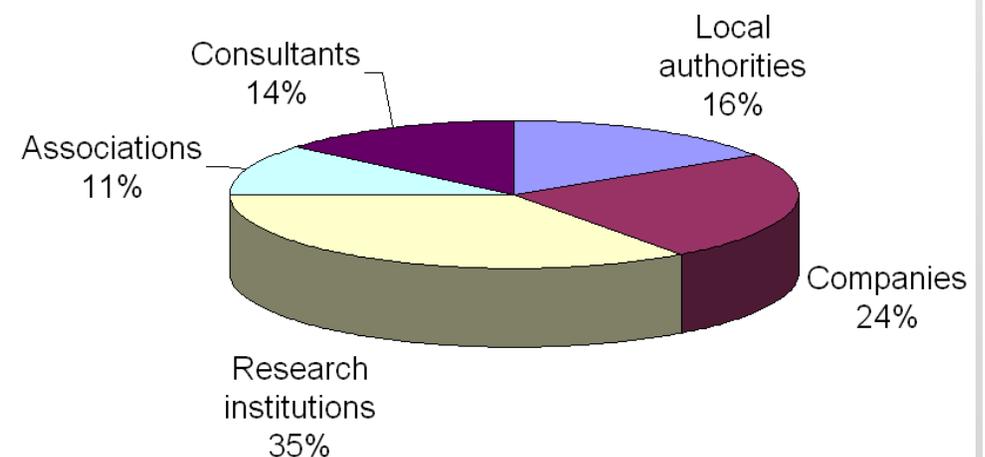


## What is REFINA?

- **BMBF Research Program for the Reduction of Land Consumption and for Sustainable Land Management**
- *Forschung für die **RE**duzierung der **FlächenIn**anspruchnahme und ein **NA**chhaltiges Flächenmanagement*
- Funding: €22 million
- Duration: 2006-2010
- Projects: 45
- Concerted action between BMBF, BMU, BMVBS



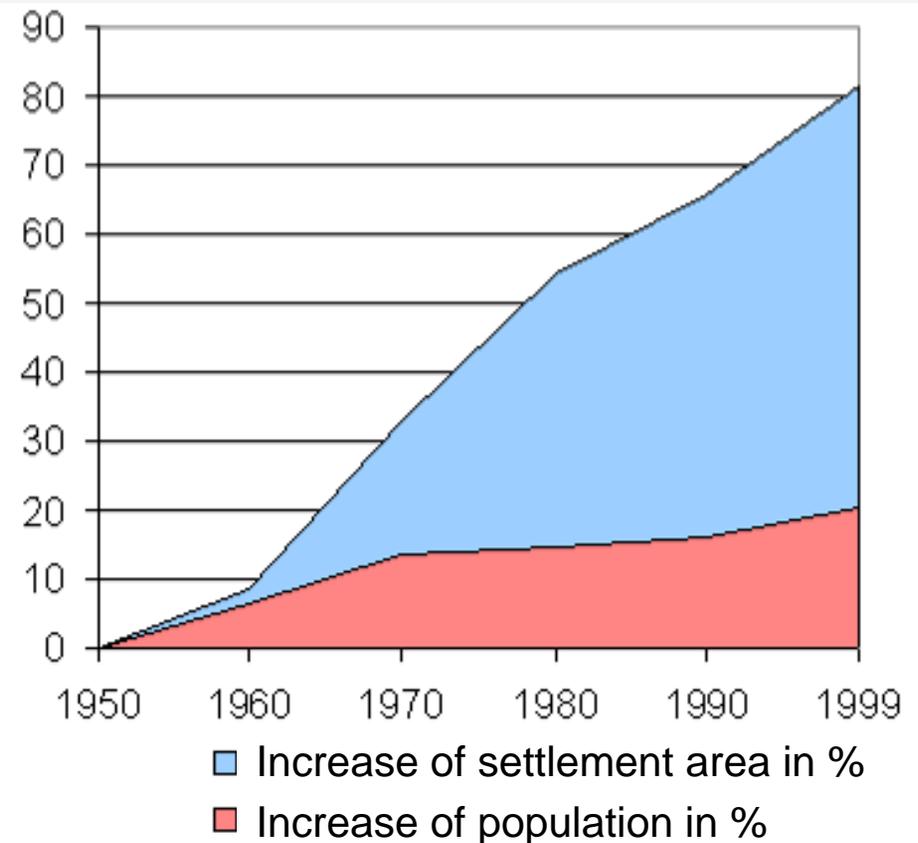
Integration of Federal Government, Länder, Local Authorities and Stakeholders





## Background of REFINA

- Growth of population versus growth of land use for housing, business and transportation (1950 – 1999)



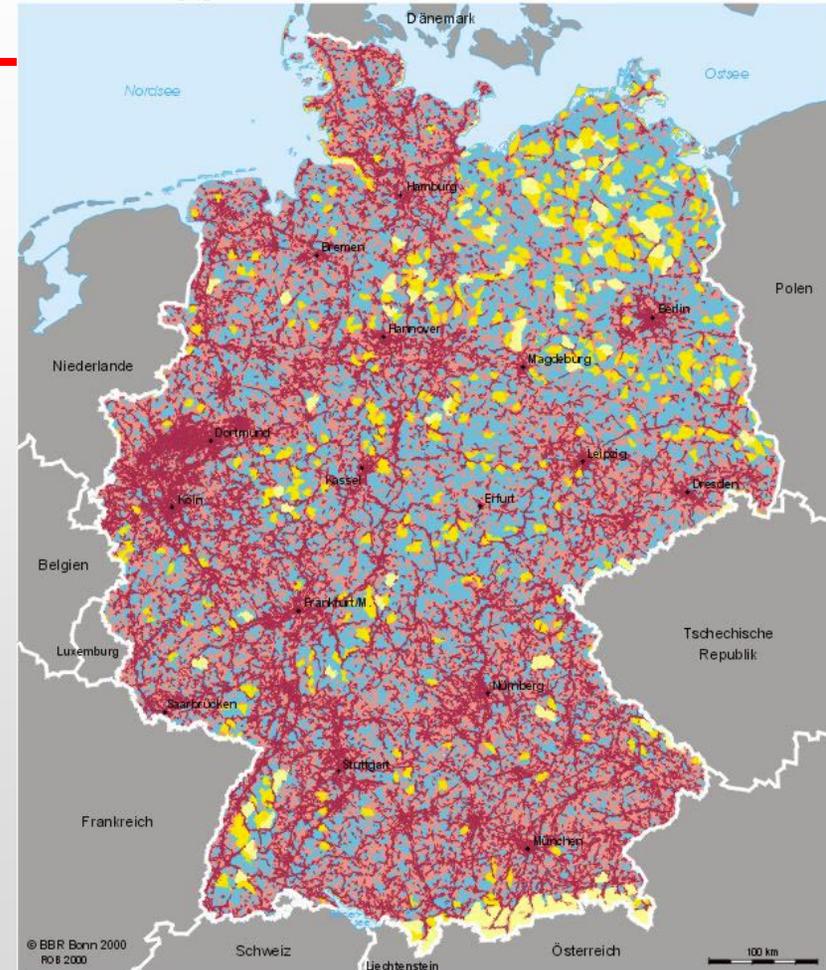


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## Background

- Fragmentation of land by transport infrastructure  
red = high degree  
yellow = low degree
- **Germany Total Area**  
357,021 sq km (slightly smaller than Montana)

### Zerschneidungsgrad



Unzerschnittene Restflächen nach Größenklassen

- sehr groß (mehr als 10 000 ha)
- groß (5 000 ha bis unter 10 000 ha)
- mittel (1 000 ha bis unter 5 000 ha)
- klein (200 ha bis unter 1 000 ha)
- sehr klein (unter 200 ha)

Anmerk.: Ermittelt die Zerschneidung der Fläche des Bundesgebietes durch die lineare Infrastruktur des Straßen- und Schienenetzes, der Bundeswasserstraßen sowie der Stromleitungen.

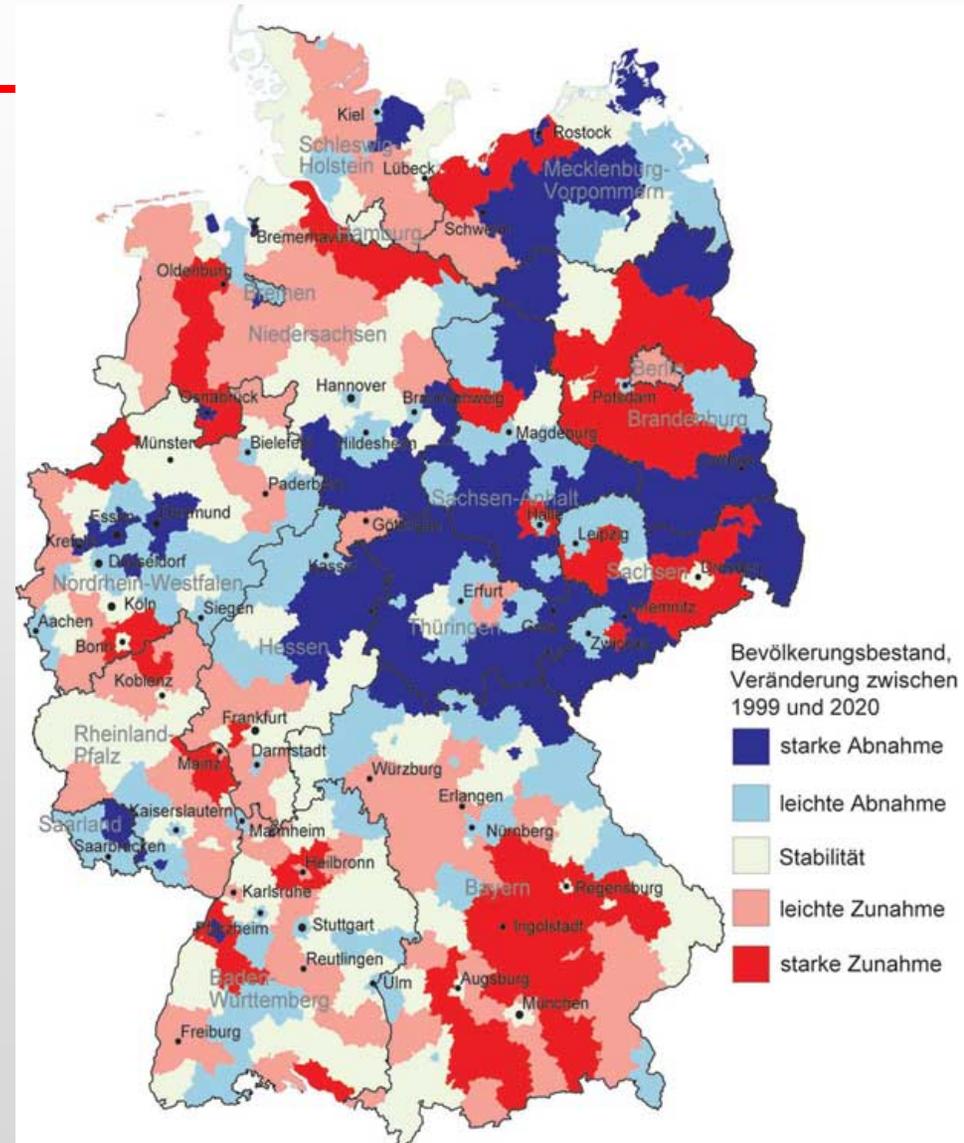
Datenbasis: Laufende Raumbeobachtung des BBR



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## Background

- Demographic change: **shrinking**, stable and **increasing** regions



source: BBR 2005



## Challenges in Land Management in Germany

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- Maintenance of the regional economic power
  - Reducing land consumption rates, preserve greenfield sites
  - Re-using abandoned and derelict sites
  - Ensuring the infrastructure for
    - Transportation and mobility, Housing, Trade,
    - Water supply, waste water, waste, energy, cleanness
    - Education, communication
    - Health care
  - Decreasing social segregation
  - Stimulating inner city investment
  - Managing the urban-rural fringe
- => important to engage local authorities**

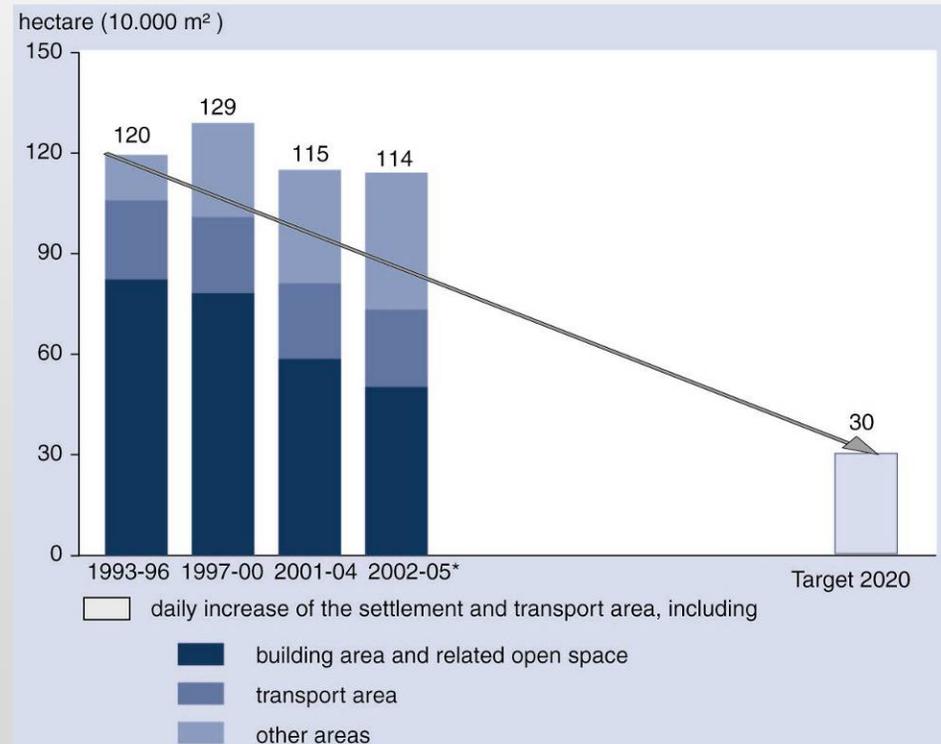


# National Strategy for Sustainable Development

## April 2002

- Reduction of greenfield “consumption” for settlement and transport-related development **to 30 ha/day (75 acres) in 2020**

- REFINA contributes to the 30 ha-goal of Federal Government.





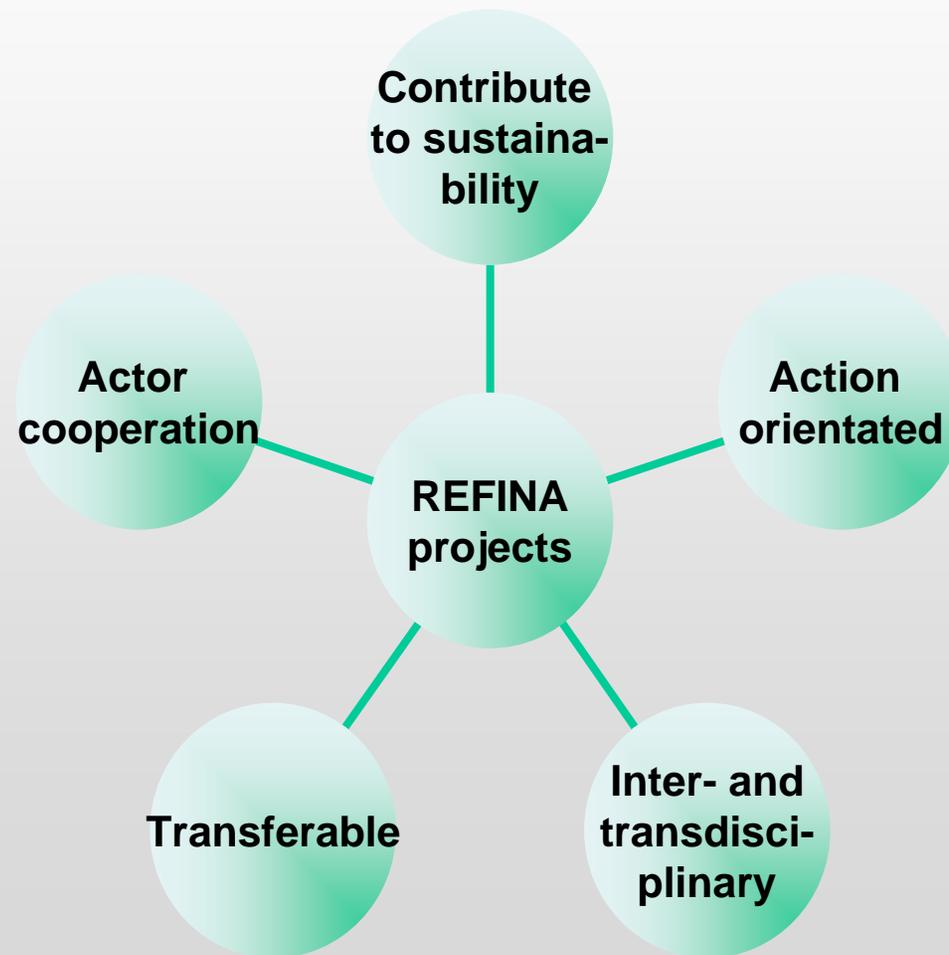
# REFINA Topics

Priority	Topics	
New methods and instruments	Information on soil and land	
	Cost of land consumption	<ul style="list-style-type: none"> <li>Follow-up costs</li> <li>Planning and development costs</li> <li>Cost-transparency for local authorities &amp; private households</li> </ul>
New processes and constellations of actors	Communication and participation	<ul style="list-style-type: none"> <li>Communication to general public</li> <li>Specific offerings for local authorities</li> <li>Adress new target groups with innovative offerings</li> </ul>
Integrated model concepts	Revitalization of individual sites and conversion areas	<ul style="list-style-type: none"> <li>New life at old sites</li> <li>Management of conversion projects</li> <li>Grey turns to green</li> </ul>
	Model concepts for local authorities	<ul style="list-style-type: none"> <li>Encouraging inner-city development</li> <li>Upgrading inner-city neighbourhoods</li> <li>New forms of funding (private-sector funds)</li> </ul>
	Regional model concepts	<ul style="list-style-type: none"> <li>Opportunities for regional cooperation and regional land management</li> <li>New planning instruments</li> <li>Regional dialogue</li> </ul>



# REFINA Philosophy

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## Bilateral Cooperation – Phase 4

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- Cooperation based on REFINA projects with „volunteer“ practitioners in the US
- Projects should drive and benefit from the cooperation
- International cooperation
  - to learn from each other
  - to prove REFINA concepts
  - to strike new and unconventional paths in both countries

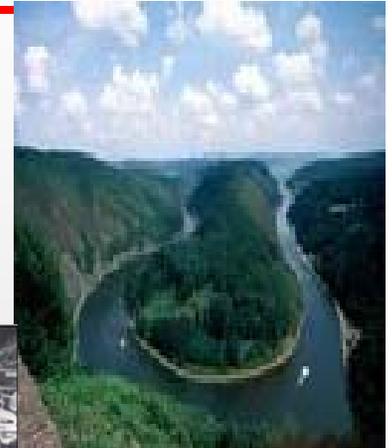




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## Phase 4 – Focus Areas (2006-2010)

- Brownscape Design
- Regional and Local Land Revitalization Planning
- Project Management





## Design Charrettes

- develop analytical and methodological repertoires to reintegrate brownfield sites into functional urban areas
- combine round table, design workshop, jury evaluation



Hertener Allgemeine Zeitung

**Charrette Westerholt**  
Gelsenkirchen/Herten, Germany  
26-30 Nov 2007



**Charrette North-West Aluminum**  
The Dalles, Oregon  
28 Apr - 2 May 2008



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## Phase 4 – Workshop topics (8-9 May 2008)



Regional Infrastructure and  
Transboundary Management



Brownscape Design



Financial Management



Cross-cutting – Regional planning  
Criteria for Site Prioritization



## Phase 4 – Potential Products

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- SMARTe Tools and Expansion
- Regional Revitalization Planning Criteria
- Workshop Products
- Project Management Tools/Approaches (schedule, budget, maintenance, training programs)
- Institutional Controls Tools, Evaluation
- Design Criteria
- Model Design Approaches (including visual simulation tools)
- Case Studies
- Other Revitalization Tools



## Contacts

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## Web Sites

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### US-German Bilateral Working Group

<http://www.bilateral-wg.org/>

### REFINA

[www.refina-info.de](http://www.refina-info.de)

### SMARTe

[smarte.org](http://smarte.org)

### START-UP Plan

[www.vegasinfo.de/startup/](http://www.vegasinfo.de/startup/)

### Interstate Technology and Regulatory Council

[www.itrcweb.org](http://www.itrcweb.org)