



THE STORMWATER EXPERTS.
INGENIEURGESELLSCHAFT
PROF. DR. SIEKER MBH

EU application and funding - experience and examples

Aqualife, Kiel
2.07.08

Dr.-Ing. Harald Sommer



Content

- Who are we?
- EU funded projects in the last years or still running
 - 5th Framework
 - 6th Framework
 - Interreg
- EU funding programs
 - Interreg IV North Sea Region/Baltic Sea
 - Life
 - Eureka Eurostars
- New Interreg IVB Project ideas
 - STEAM
 - SKINT
 -



THE STORMWATER EXPERTS.
INGENIEURGESELLSCHAFT
PROF. DR. SIEKER MBH

Ingenieurgesellschaft Prof. Dr. Sieker mbH



Rennbahnallee 109A
15366 Hoppegarten
www.sieker.de



Consultants Engineers

- Head of the office:
 - Prof. Dr. Friedhelm Sieker, Hannover
 - Dr. Heiko Sieker, Berlin
- Workforce (15)
 - Construction engineers
 - Environmental engineers
 - Geographers
- Specialised in Storm Water Management
 - Studies
 - Master Planning
 - Software Development
 - Detailed Planning
 - R&D (Patents: INNODRAIN, INNOLET)
 - Education (Seminars, Presentation, Publications, Books)
 - Project Development



Where the money comes from!

- Umweltbundesamt (Federal EPA)
- DBU (Deutsche Bundesstiftung Umwelt)
- Water Administrations (I.e. Berlin, Nordrhein-Westfalen, Saarland, Hamburg)
- Sewage companies (I.e.)
 - Berliner Wasser Betriebe, Emscher Genossenschaft, Hamburg Water
- Städte (I.e.)
 - Dresden, Essen, Baden Baden
- International Projects:
 - **European Union**, Netherlands, Canada,



EU funded Projects with participation

- European Research Framework Programme
 - 5th FP: DAYWATER
 - 6th FP: SWITCH
- Interreg-projects
 - NORIS - No Rain in Sewers
 - UWC - Urban Water Cycle
 - Raindrop



Daywater

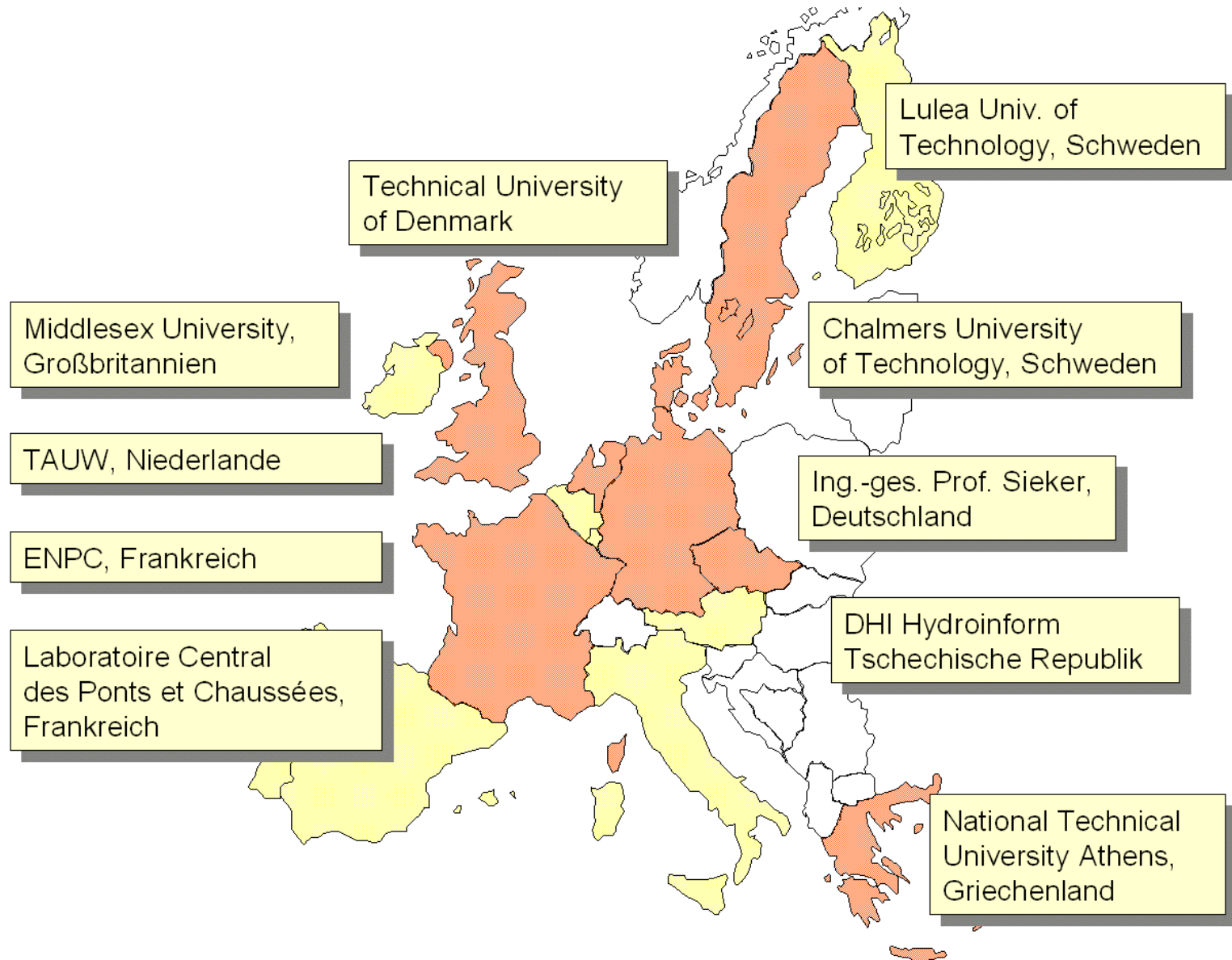


- Daywater: schwedish „dagwaten“ = Storm water
- Objective:
Development of an Adaptive Decision Support System (ADSS) for Stormwater Pollution Control
- Period Dec. 2003 - Nov. 2005
- Budget: ~ 2.5 Mill. €





Daywater Partner





Daywater - Abstract

The EU-Project Daywater aims at developing an **adaptive decision support system (ADSS)** for use by stakeholders involved in urban water management. The ADSS is a combination of simulation models, assessment tools, databases, guidance documents, road maps, etc.. presented and operating together on a web site or CD-ROM. Starting from an analysis of end-user's experience on decision making in stormwater source control, **the research will focus on the functional behaviour of structural and non structural best management practices (BMPs). Models** will be developed for simulating **pollution fluxes** and assessing their possible control and fate within BMPs, and for assessing risks and impacts related to urban stormwater. The project is carried out by a **multi-disciplinary research team** and includes 14 end-users corresponding to European cities presenting various climates and organisation, where ADSS will be developed and tested.



Daywater – More Information

- Website www.daywater.org
- ADSS-prototype www.daywater.cz
- Final Daywater Conference
November 3-4th, Paris, 2005



THE STORMWATER EXPERTS.
INGENIEURGESELLSCHAFT
PROF. DR. SIEKER MBH

SWITCH

EU-FP6th Project





SWITCH

- SWITCH: **S**ustainable **W**ater management
Improves **T**omorrow's **C**ities' **H**ealth
- Status: Projekt is running
- Application
 - Period 5 years (Evaluation after 18 months)
 - Start 2005-2010
 - Budget 24.7 Millionen €
 - Partners 34



SWITCH Partners

- Netherlands
 - UNESCO-IHE Institute for Water Education, Delft (Lead Partner)
 - IRC International Water and Sanitation Centre, Delft
 - Wageningen University
 - ETC Foundation, Leusden
- UK
 - Middlesex University, London
 - University of Birmingham
 - Ove Arup Environment
 - Natural Resources Institute
 - Water, Engineering and Development Centre, Loughborough University
- Germany
 - Technical University of Hamburg-Harburg
 - ICLEI (Europe) – Local Governments for Sustainability, Freiburg
 - Technical University of Berlin
 - Ingenieurgesellschaft Prof. Dr. Sieker mbH, Hoppegarten
- Ayuntamiento de Zaragoza, Spanien (EXPO 2008)
- University of Lodz, Polen
- Ecole Polytechnique Fédérale de Lausanne, Schweiz



SWITCH Partners (2)

- Near East
 - Mekorot Water Company, Tel Aviv,
 - Hebrew University, Jerusalem
 - House of Water and Environment, Palestine
 - Institute of Graduate Studies and Research, Alexandria, Egypt
- China
 - Ministry of Construction, Beijing
 - Institute of Geographical Sciences and Natural Resources Research, Beijing
- Africa
 - United Nations Human Settlements Programm, Nairobi, Kenya
 - IWMI International Water Management Institute, Accra, Ghana
 - Kwame Nkrumah University of Science and Technology, Ghana
- South-Amerika
 - Prefeitura Municipal de Belo Horizonte, Brasilien
 - Universidade Federal de Minas Gerais, Belo Horizonte
 - Centro Inter-Regional de Abastecimiento y Remocion de Agua, Colombia
 - Universidad Nacional [UNAL], Bogota
 - IPES – Promocion del Desarrollo Sostenible, Lima, Peru

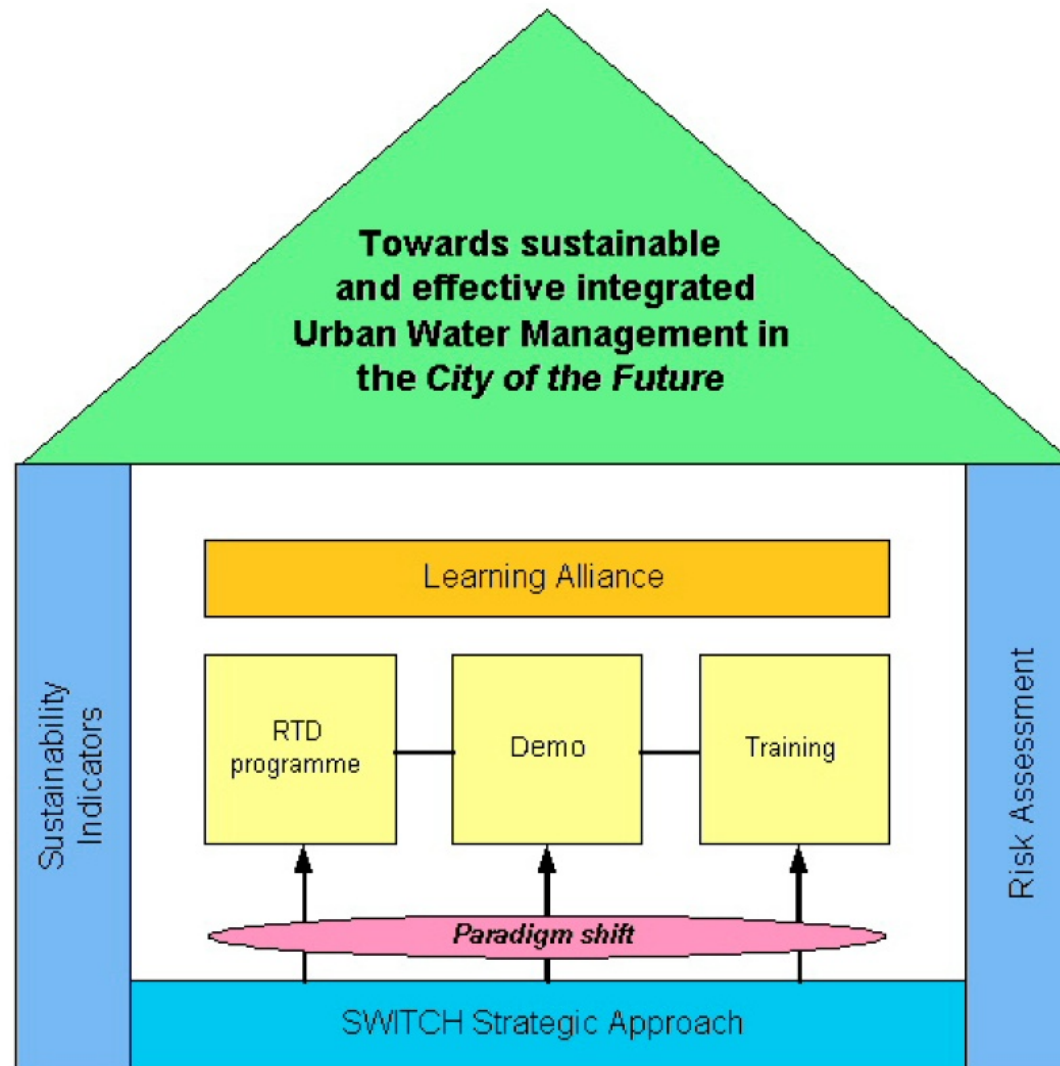


SWITCH: Project Goal

The SWITCH Integrated Project aims at the **development, application and demonstration** of a range of **tested scientific, technological and socio-economic solutions and approaches** that contribute to the achievement of **sustainable and effective urban water management** schemes in **'The City of the Future'** (projection 30-50 years from now)



SWITCH: Project Idea





SWITCH: Work Packages

- WP1: Overall activities
- WP2: Urban water paradigm shift
- WP3: Urban water supply & use
- WP4: Storm Water Management
- WP5: Water use in sanitation and waste management
- WP6: Urban water environments and planning
- WP7: Governance and institutional change



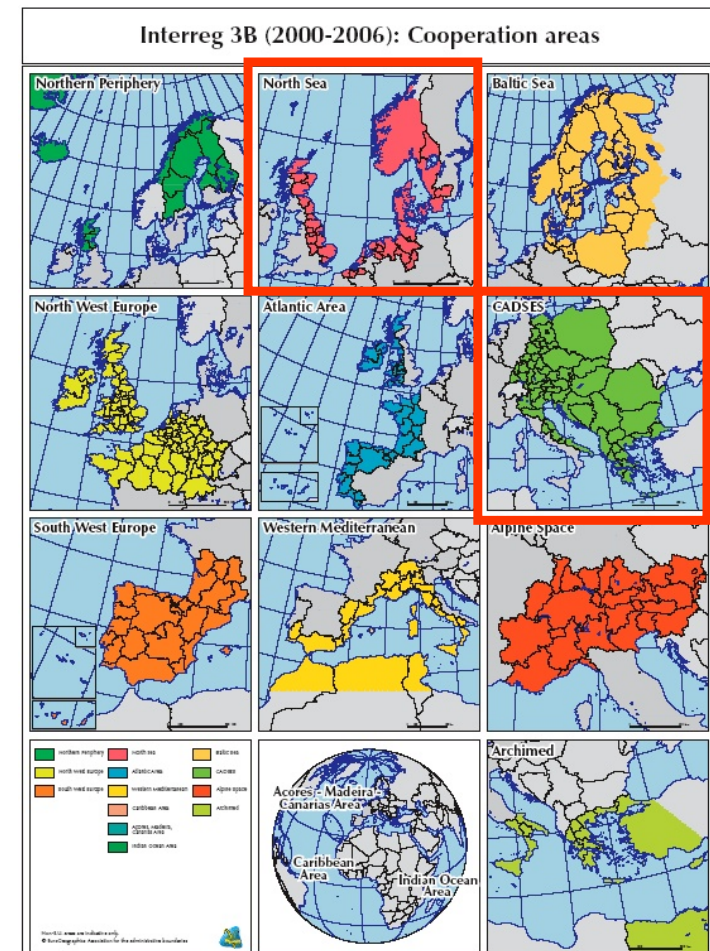
SWITCH: Demonstration and Study Sites

		<u>The major Global change indicators per demonstration city</u>											<u>City characterisation</u>									
		Theme 1			Theme 2				Theme 3				Theme 4			Theme 5		Theme 6				
		1.1	1.2	1.3	2.1	2.2	2.3	2.4	3.1	3.2	3.4	3.5	4.1	4.2	4.3	5.1	5.2	6.1	6.2	6.3	6.4	
<u>Demonstration Cities</u>																						
Hamburg	Germany	•	•	•	•		•	•										•	•			
Birmingham	UK	•	•		•	•							•	•	•			•			•	
Lodz	Poland	•	•	•	•	•															•	
Zaragossa	Spain	•	•		•				•		•											
Tel Aviv	Israel	•	•	•	•	•					•	•										
Beijing	China P.R.	•	•		•											•				•		
Alexandria	Egypt	•	•		•				•	•												
Accra	Ghana	•	•		•					•										•		
Belo Horizonte	Brasil	•	•		•	•							•	•								
<u>Study sites</u>																						
'Ruhrgebiet'	Germany												•	•								
Bogota	Colombia																•					
Cali	Colombia																				•	
Lima	Peru																			•		
Nanjing	China																				•	
Bogota	Colombia							•							Low	Low					Tropical	
Cali	Colombia							•							Low	Medium					Tropical	
Lima	Peru				•			•							Low	Low/Medium					Arid	
Nanjing	China				•			•							Medium	Medium						Land



Interreg III B

- Europa separated in different regions:
 - CADSES
 - Alpine Space
 - NorthSea-Region
 - Northwest Europe
 - Baltic Sea
 - ...

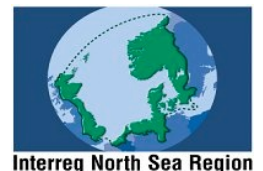




NORIS

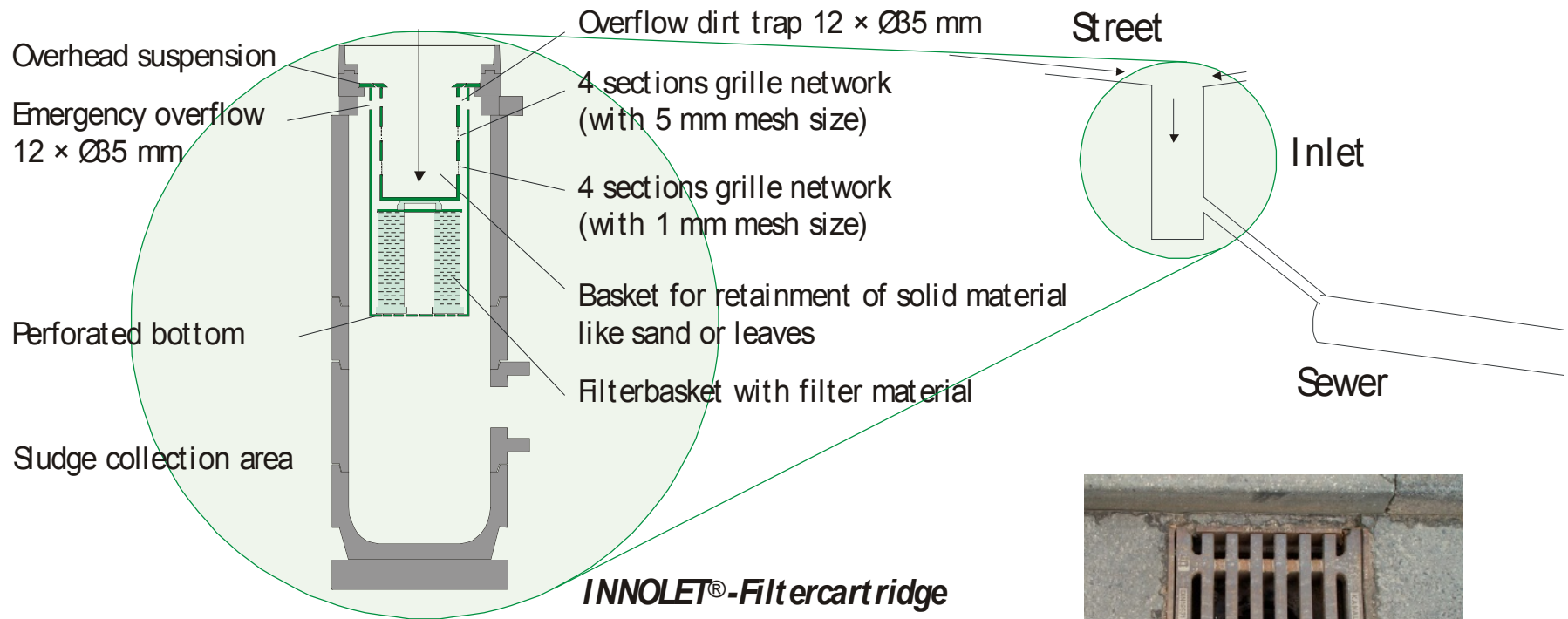


- NORIS: No Rain in Sewers
- Interreg IIB NorthSeaRegion (2005 – 2007)
- Lead partner: Skövde community, Sweden
- Partner: Hannover (D), Ieper (B), Bradford (UK), Wieringer Meer (NL)
- Subpartner: IPS (D), Chalmers Univ. (S)
- Innovative Technologies for reduced water discharge and improved water quality
- Website: www.noris-interreg.eu





NORIS





UrbanWaterCycle

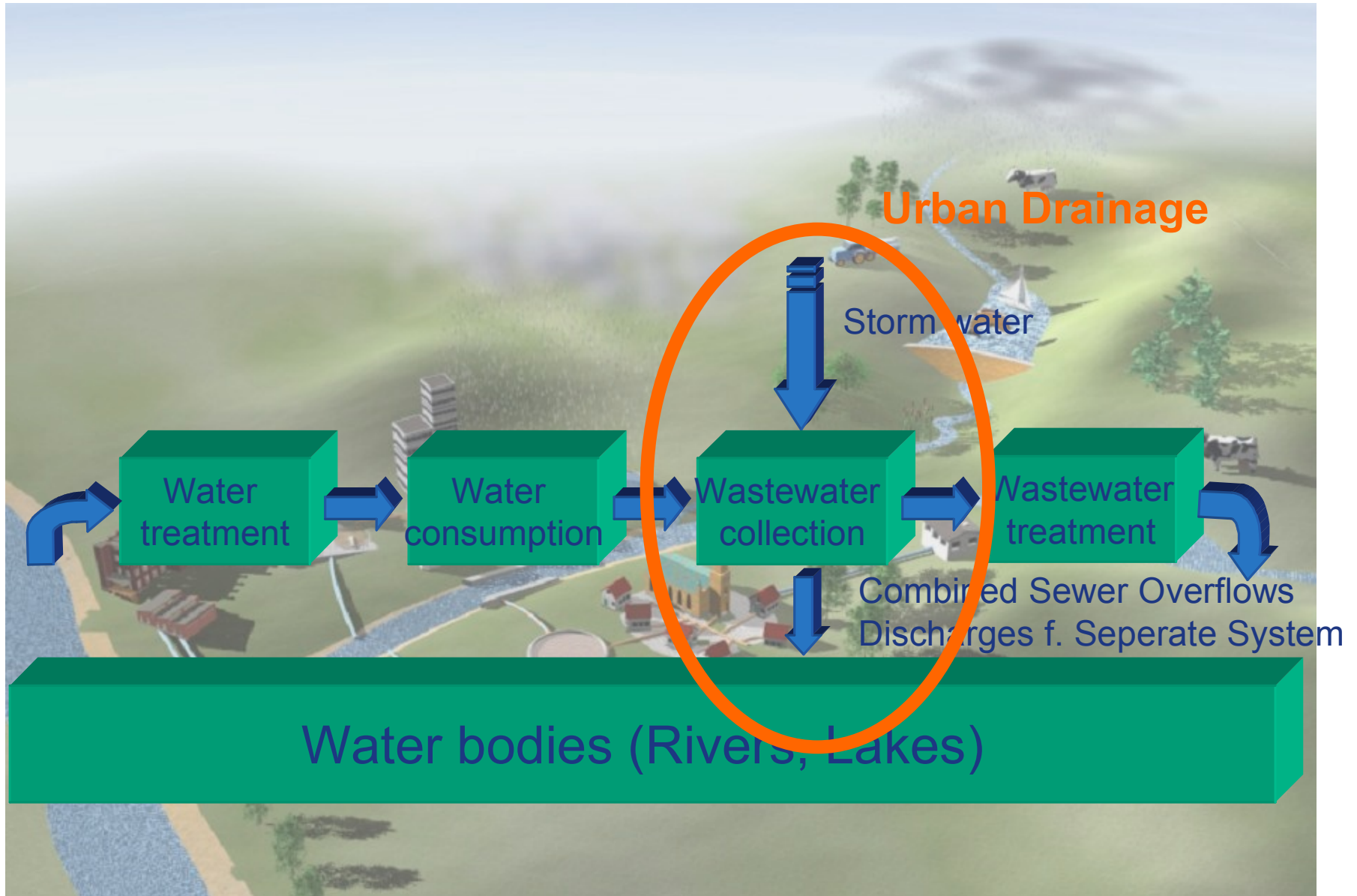
- Interreg IIB NorthSeaRegion (2004-2008)
- Lead-Partner: Waterschap Regge&Dinkel, Nederlande
- Partner: Freie und Hansestadt Hamburg (IPS als Consultant), Province of Frysland (NL), Bradford (UK)
- Aim: Optimisation of Urban Water Cycle
- Website: www.urbanwatercycle.org



Interreg North Sea Region



Urban Water Cycle





Raindrop



- Interreg IIB Cades (2005-2007)
- Lead-Partner: Karvina, Czech Republic
- Partner: Kupferzell (D, IPS as consultant), Acharnai (GR), Tsetin (SW), Vsetin (CZ)
- Aim: Optimised Master planning for Storm Water
- Website: www.raindrop-cades.org



Raindrop



14.11.05 13:14



Actual EU funding programs (selection)

- Interreg IV (A, B, C)
- Life
- EUREKA Eurostars
-



Interreg IVb North Sea Region Program: Central Criteria

- A Crossborder
 - B Partners from a specific Region
 - C Partners with no regional context
-
- Sustainable development
 - Innovation
 - Territorial cohesion
 - Equal opportunities
 - Transnational Cooperation



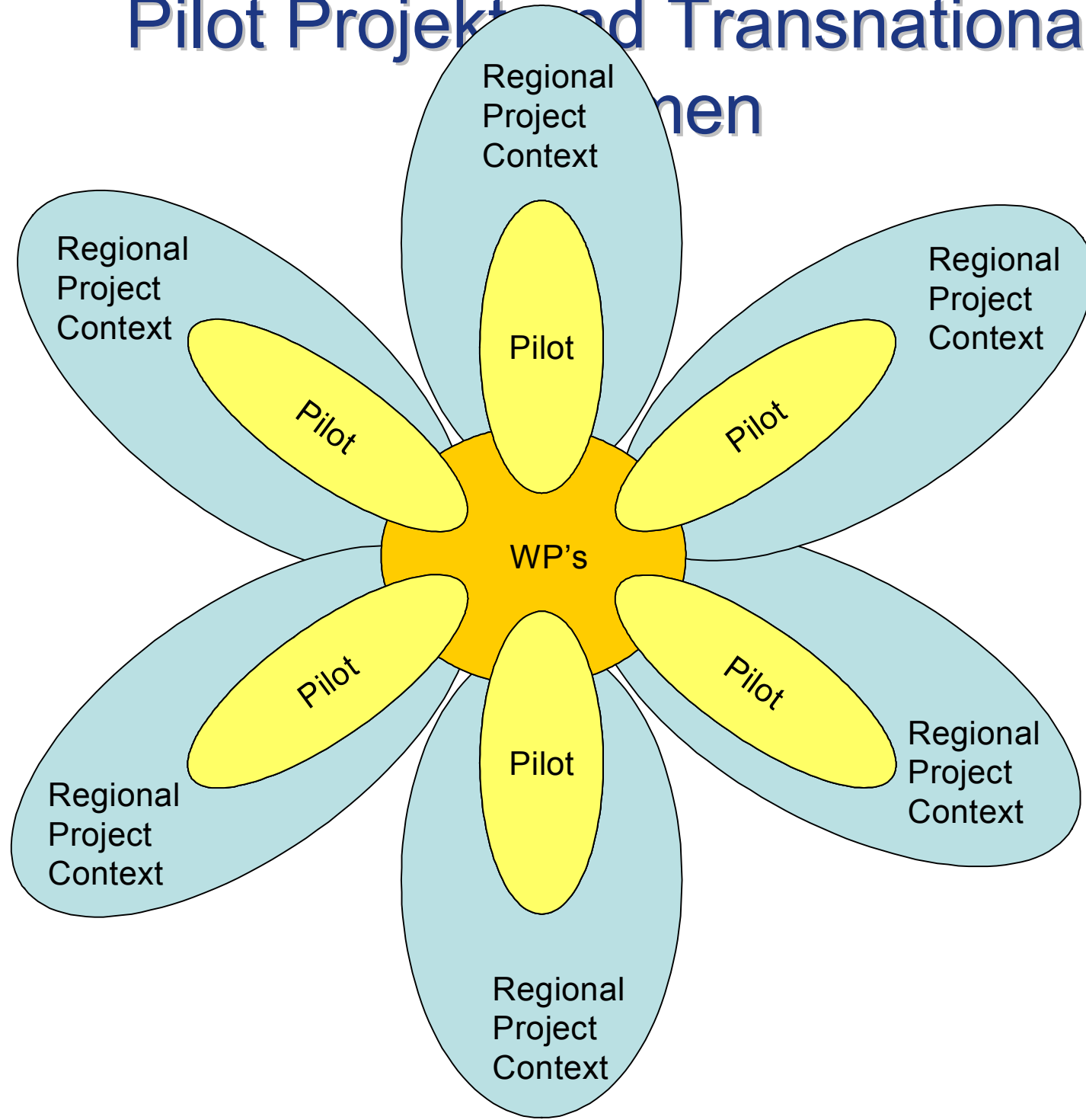
**Aim of the Program:
Make the North Sea Region a better
place to live, work and invest in.**

Support of transnational Cooperation:

- **Enforce overall niveau of Innovations in the North Sea Region**
- **Improve environmental quality**
- **Improve reachabilty of places**
- **Sustainable and compatible communities and regions**



Pilot Projekt und Transnationale Kooperationen





Interreg IVb Finances

- 148.000.000 Euro on 4 priorities
 - Priority 1: 30%
 - Priority 2: 25%
 - Priority 3: 25%
 - Priority 4: 20%
- Programm for transnational Knowledge Exchange
 - Communication plan
 - Budget for material investments ca. 15-20% per partner
- Funding
 - North Sea Region 50%
 - Baltic Sea Region up to 75%



LIFE+

- 2007-2013
- Innovative or demonstration projects
 - Nature and biodiversity
 - Environment Policy and governance
 - Information and communication
 -



LIFE+

- **(a) to contribute to the development and demonstration of innovative policy approaches, technologies, methods and instruments;**
- **(b) to contribute to consolidating the knowledge base for the development, assessment, monitoring and evaluation of environmental policy and legislation;**
- **(c) to support the design and implementation of approaches to monitoring and assessment of the state of the environment and the factors, pressures and responses that impact on it;**
- **(d) to facilitate the implementation of Community environment policy, with particular emphasis on implementation at local and regional level;**



LIFE+

- **Subjects (selection)**
 - **Climate change !!**
 - **Water**
 - **Environment**
 - **Innovation**
 - **Strategic approaches**
- **Who can apply**
 - **Legal entities**
 - **Communities, commercial firms etc.**
 - **Min. 2 countries from participating countries**
 -
- **Cofinancing rate**
 - **Max. 50%**



Eurostars, powered by EUREKA

- **Research and developing program (2008-2013)**
- **Technological, non-military**
- **New product, process or service**
 - **Ready for market after funding period**
- **Who can apply**
 - **Especially SME's, as leading partners**
 - **Partners from min. 2 participating countries**
 - **Max. 3 years**



Eurostars, powered by EUREKA

- **Finances**
 - 300 Mio. EUR all countries
 - 30 Mio. EUR Germany (BMBF funds)
- **Cofinancing rate**
 - Up to 50% SME
 - Up to 100% Universities
 - Up to 75% Research institutes
 - Max. 1 Mio. EUR for german partners



Developing new projects by IPS

INTERREG

Northsea Region IVb

- STEAM Energy and Water
- SKINT Watermanagement in early planning stage, water balance

Baltic Sea Region Ivb

- Diffuse pollution, City of Prenzlau

Life

- Demonstration of decentral storm water treatment

Eurostars

-

Consultancy for projects by other SME's is possible



Thanks for your attention!

