



Strategien für einen einheitlichen Zugang zu Umweltinformation

Ergebnisse aus dem Projekt ICT-ENSURE

Werner Pillmann

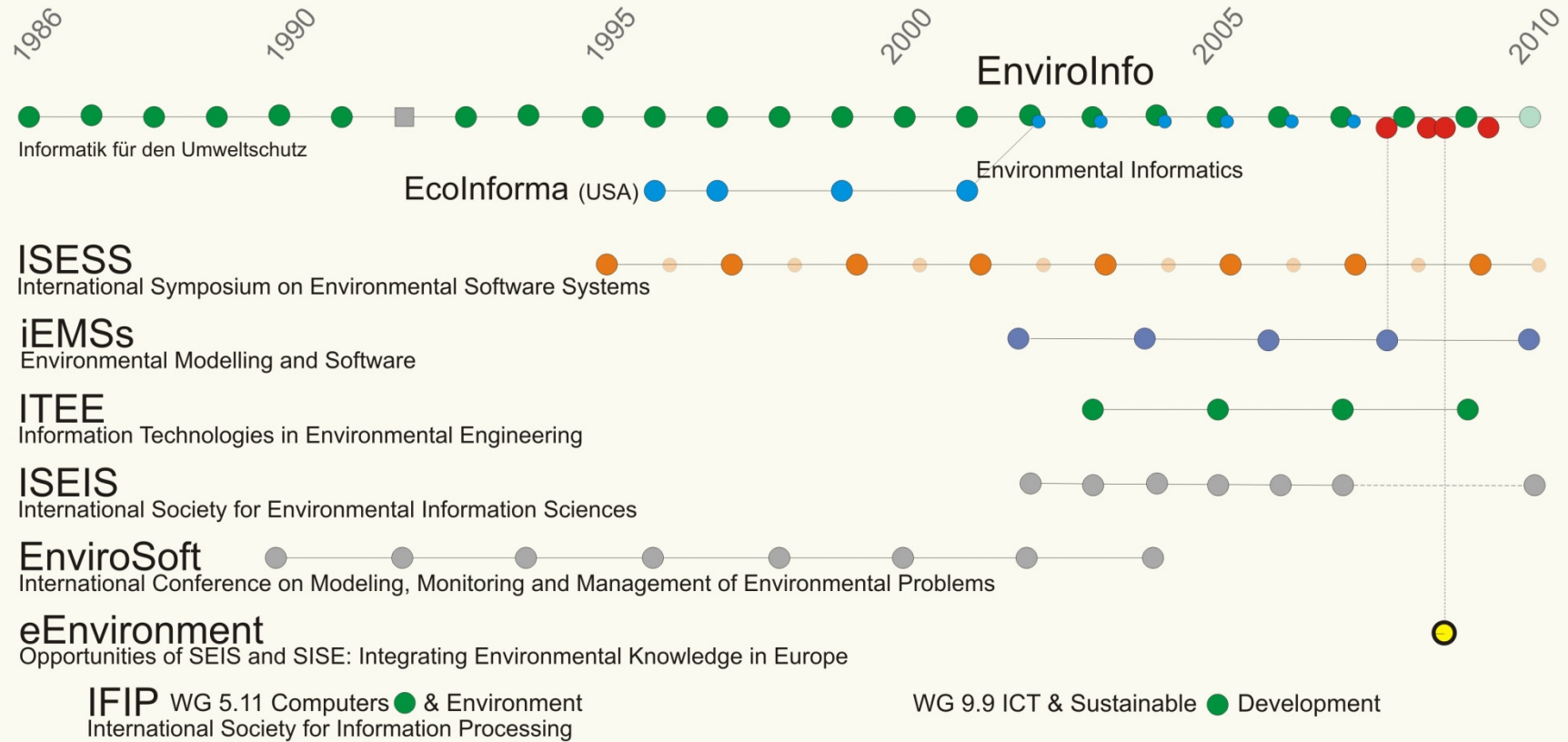
*IGU Internationale Gesellschaft
für Umweltschutz, Wien*

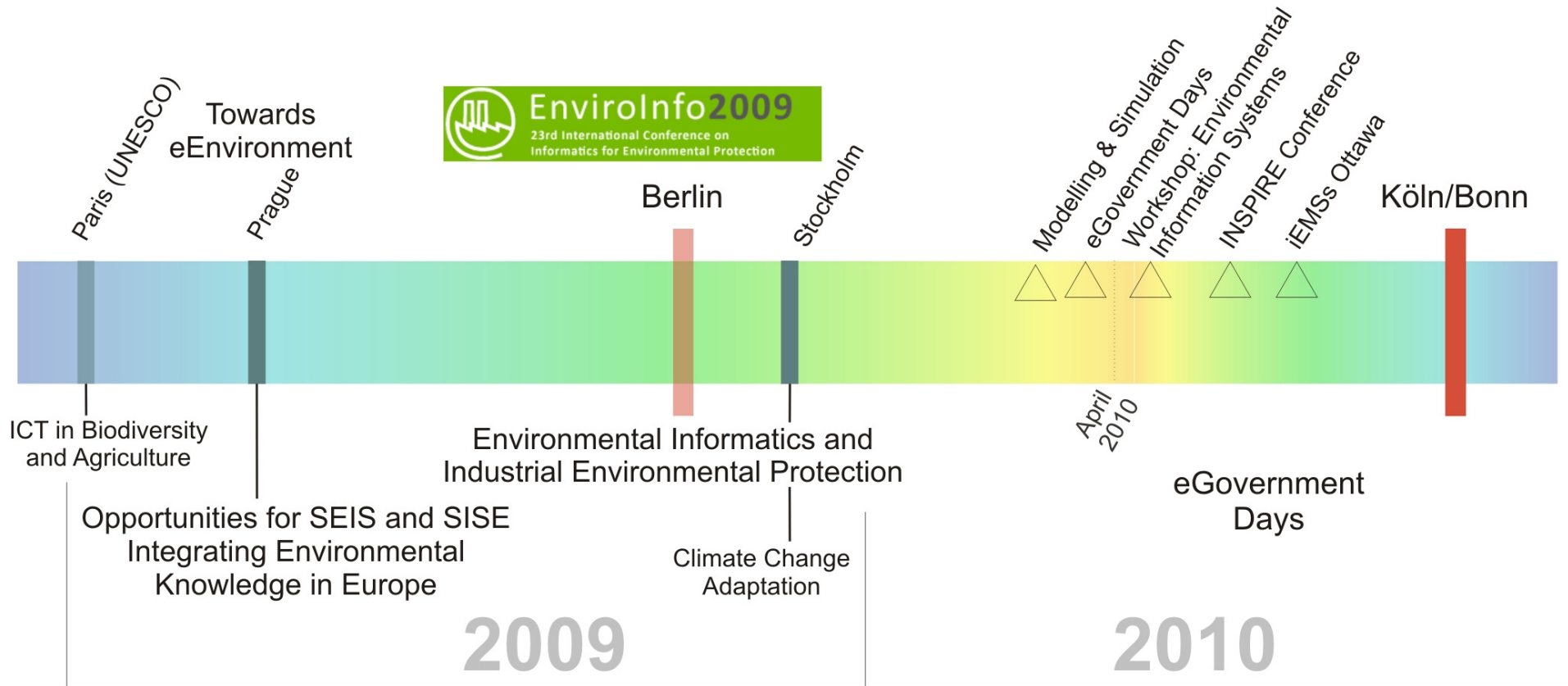
Workshop AK Umweltinformationssysteme
UFZ Leipzig 27.-28. Mai 2010



ICT-ENSURE 1

Erweiterung des EnviroInfo Netzwerks







ICT-ENSURE 2

Information Access & Dissemination



Literatur Informationssystem:

- <http://lit.ict-ensure.eu>

Forschungsprogramm Informationssystem

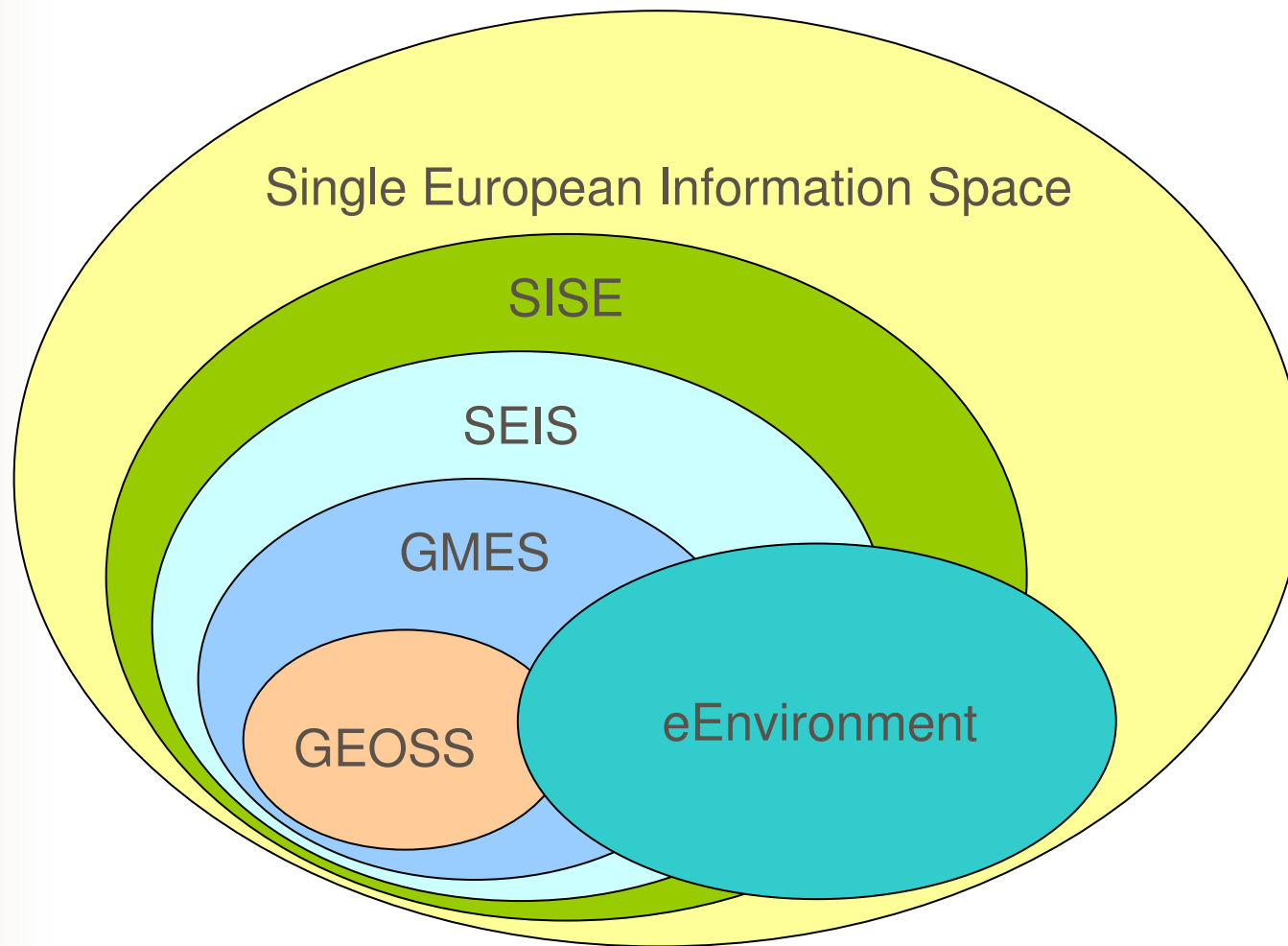
- <http://is.ict-ensure.eu>

www.ict-ensure.eu



ICT-ENSURE 3

- Konzept für einen Single Information Space in Europe for the Environment
- Scientific Surveys
- Modell der Informationsflüsse



CIP

Competitiveness
and Innovation
Framework
Programme

ICT PSP

Information and
Communication
Technologies
Policy support
Programme

FP7

Seventh European
Research Framework
Programme

i2010

A European
Information Society for
growth and employment

DG ENV

Environment
Directorate-General

EEA

European
Environment
Agency

JRC

European
Commission -
Joint
Research
Centre

Eurostat

Statistical Office
of the European
Communities

Go4 Group of four

DG INFSO

Information Society
& Media
Directorate-General

EIONET
European
Environment
Information and
observation
Network

REPORTNET

ETC's
European
Topic
Centres

Geodata
Infrastructure

Environmental Policy

Air
Climate Change
Land use
Water
Nature &
Biodiversity

Soils
Forests

Wastes
Natural
Resources
Integrated
Product Policy

Data Centres

NESIS

Network to enhance
European Environmental
Shared and Interoperable
Information System

FP7 Projects

GIGAS

GEOSS, INSPIRE
and GMES an
Action in Support

ICT-ENSURE

European ICT
for Environmental
Sustainability
Research

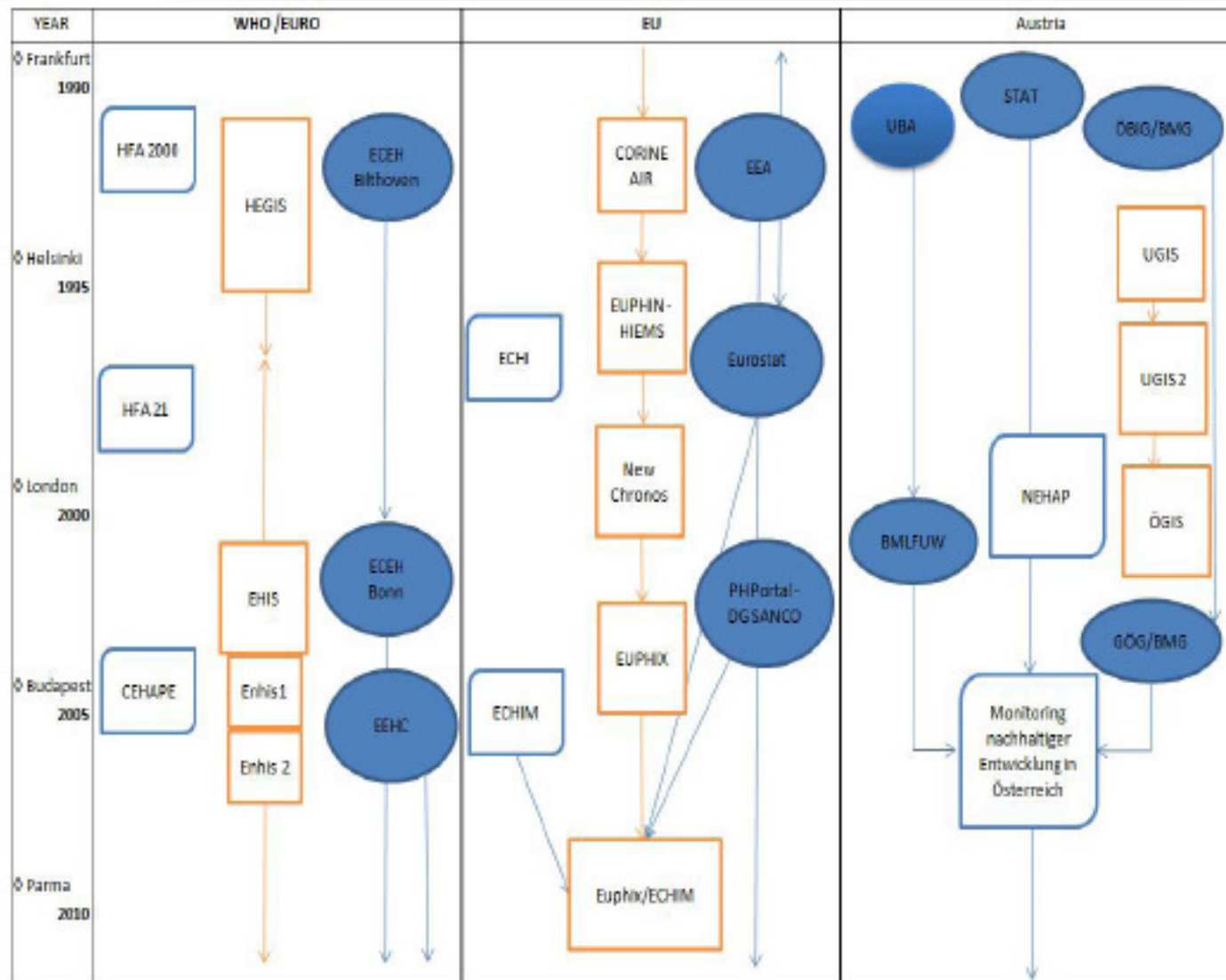
other topics:

Energy efficiency
Energy Management
Environment
management
Risk management
Location based
environment and
health service
Sustainable use of
natural resources
Sensor networks

Informatic aspects

Information Systems
Geographic Information Systems
Information management
Databases
Interoperability
Web technologies
Semantic Web
Service oriented architectures
Multilingual Thesauri
Mobile Systems
Simulation and modelling
Visualisation
Location based content etc.

	WHO	Period
HEGIS	Health and Environment Geographical Information System	1991-2003
HFA 2000	Health for All (WHO health targets, comparability of indicators)	1978-1998
EHIS	Environment and health information system	2003 -
ENHIS I	Implementing Environmental and Health Information System in Europe I	2004-2005
ENHIS II	Implementing Environmental and Health Information System in Europe II	2005-2007
CEHAPE	Children's Environment and Health Action Plan for Europe	2004 -
HFA 21	Health for All in the 21st Century	1998 -
EEHC	European Environment and Health Committee	2004 -
ECEH Bonn	European Centre for Environment and Health, Bonn	2001 -
ECEH Bilthoven	European Centre for Environment and Health, Bilthoven	1991 - 2001
EU		
EEA	European Environment Agency	1993
Eurostat	Eurostat	1953-1994-
PH Portal	Public Health Portal	2004
CORINE – AIR	Coordinated Information on the European Environment	1985-1995
EUPHIN HIEMS	European Public Health Information Network - Health Information Exchange and Monitoring System	1995-2000
New Chronos	New Chronos implemented 2005 in Eurostat	2000-2005
EUPHIX	European Public Health Information, Knowledge and Data Management System	2004-2007
ECHI	European Community Health Indicators	1998-2004
ECHIM	European Community Health Indicators - Shortlist	1998-2004
ECHIM	Health Indicators and Monitoring	2005-2008
ECHIM/EUPHIX	Implementation	2009 -



Structural Data - (Examples)

Component (Period, Sources)

- Population census (VZ 1981, 1991, 2001, ST.AT)
- Population projections (2010-2051, ÖAW/ÖROK)
- Population statistics (2001-2009)
- Socio-economic data (1981-2001, ST.AT, ÖIR)
- Health surveys (1991, 1999, 2006, 2007 ST.AT)
- Traffic network model (2008, GÖG)

Environmental Data

Component (Period, Sources)

- Settlement/Infrastructure (HwZ 1991, 2001, ST.AT)
- Air pollution concentration from 200 sites (1990-2006, ST.AT, UBA, LReg)
- Bioindicator network (1986-1995, ST.AT, FBVA)
- Pollution concentration regarding
 - × drinking water (1990-2000, ÖVGW, W/WF)
 - × groundwater (1995, 2000 W/WF, UBA)
 - × radioactivity (1975-2001, BMG)

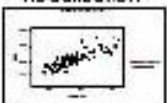

Health (system) related Data

Component (Period, Sources)

- Life expectancy (1980-2008, ST.AT, GÖG)
- Mortality statistics (1980-2008, ST.AT)
- Cancer statistics (1983-2008, ST.AT)
- Health surveys/perceived health (1991/1999/2007, ST.AT)
- Military medical examinations (1991-2007, BMLV)
- Traffic accidents (1982-2007, KfV)
- Hospital admissions statistics (1992-2008, BMG)
- Inpatient frequency report (1988-2008, BMG)
- Evidence of doctors (1998-2008, ÖÄK)
- Evidence of non-medical professions (2002/2003, GÖG)


Interpretation
Statistics
Visualization

Desktop-Mapping





MS Access, SAS
MS Excel, SPSS, MiniTab

MapInfo



SQL-Server
ODBC



"ÖGIS"

Regional levels in GIS: Austria, 1 NUTS-1-regions, 9 NUTS-2-regions, 35 NUTS-3-regions, 121 districts, 2.300 communities
Time series/monitoring: 1980-2008

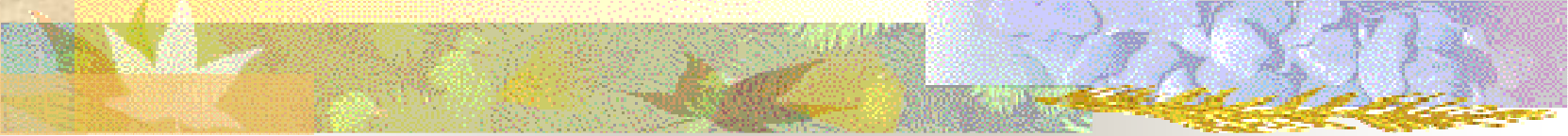
Geographic Data

- Administrative boundaries
- Settlements, Landuse (ÖK50)
- Surface waters (ÖK50)
- Traffic network (ÖK50)



ICT-ENSURE Zusammenfassung

- Screening von Initiativen, die sich mit der Integration von Umweltinformation beschäftigen
- 2 Informationssysteme
- Scientific Surveys
- Ausarbeitung eines Konzepts für einen integrierten Umweltinformations-Raum (Single Information Space in Europe for the Environment)



Danke für die Aufmerksamkeit

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