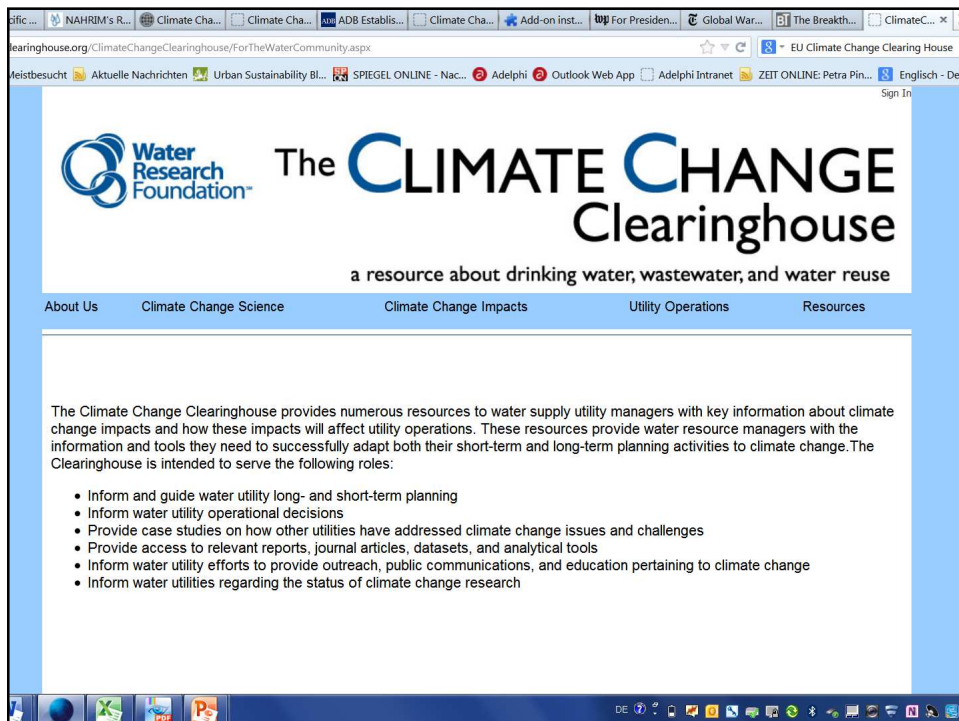



## Overview CC KH



The screenshot shows a web browser window displaying the homepage of the Climate Change Clearinghouse. The page features the Water Research Foundation logo on the left and the title "The CLIMATE CHANGE Clearinghouse" in large blue letters. Below the title is the subtitle "a resource about drinking water, wastewater, and water reuse". A navigation menu includes links for "About Us", "Climate Change Science", "Climate Change Impacts", "Utility Operations", and "Resources". The main content area contains a paragraph describing the clearinghouse's purpose and a bulleted list of its roles.

clearinghouse.org/ClimateChangeClearinghouse/ForTheWaterCommunity.aspx

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 The **CLIMATE CHANGE** Clearinghouse

a resource about drinking water, wastewater, and water reuse

About Us Climate Change Science Climate Change Impacts Utility Operations Resources

The Climate Change Clearinghouse provides numerous resources to water supply utility managers with key information about climate change impacts and how these impacts will affect utility operations. These resources provide water resource managers with the information and tools they need to successfully adapt both their short-term and long-term planning activities to climate change. The Clearinghouse is intended to serve the following roles:

- Inform and guide water utility long- and short-term planning
- Inform water utility operational decisions
- Provide case studies on how other utilities have addressed climate change issues and challenges
- Provide access to relevant reports, journal articles, datasets, and analytical tools
- Inform water utility efforts to provide outreach, public communications, and education pertaining to climate change
- Inform water utilities regarding the status of climate change research

The screenshot shows a web browser window displaying the ADB project page for '47074-001: Establishing a Regional Knowledge Hub on Green Growth and Eco-Compensation'. The page features a navigation menu at the top with categories like 'About ADB', 'News & Events', 'Data & Research', 'Publications', 'Countries', 'Projects', and 'Focus Areas'. The main content area is titled '47074-001: Establishing a Regional Knowledge Hub on Green Growth and Eco-Compensation' and includes a 'Project Data Sheet (PDS): Overview' section. This section contains a description of the project, a table of key data points, and contact information for the responsible ADB officer and divisions.

**Project Data Sheet (PDS): Overview**

**Description**

ADB and the PRC have been actively exploring knowledge partnerships to expand mutual learning with other developing member countries in urban development, water security, and transport sector. In March 2010, the Urban Knowledge Hub was established with the Tongji University in Shanghai, PRC to share best practices in urban planning. A knowledge partnership, covering the water sector, with the Asia-Pacific Center for Water Security was established in 2011 jointly with Tsinghua and Peking universi...[READ MORE](#)

Country	China, People's Republic of
Project Number	47074-001
Project Type or Modality of Assistance	Technical Assistance
Financing	Public sector (Sovereign)
Status	Approved
Approval Numbers	TA No. 8554
Approval Date	20 Dec 2013
ADB Financing (\$ thousand)	140
Sector / Subsector Classification	Multisector

**Project Data Sheets (PDS)**

Print  
Download

**Responsible ADB Officer**  
Qingfeng Zhang  
[Email contact](#)

**Responsible ADB Department**  
East Asia Department

**Responsible ADB Divisions**  
Environment, Natural Resources & Agriculture Division, EARD

**Last PDS Update**  
02 May 2014

The screenshot shows the WHO Europe website page for 'Knowledge Hubs'. The page features the WHO logo and navigation menu. The main content area is titled 'Knowledge Hubs' and includes a section for 'Knowledge hubs as regional technical capacity centres' and 'WHO/GTZ BACKUP Initiative'. This section describes the initiative's goal to help ensure access to and optimal use of resources from the Global Fund to Fight AIDS, Tuberculosis and Malaria and other large grants, by supporting the development of local technical capacity to launch urgent large-scale responses to HIV/AIDS. It also lists three priority areas: treatment and care, harm reduction and surveillance, and provides a list of knowledge hubs.

**Knowledge Hubs**

**Knowledge hubs as regional technical capacity centres**

**WHO/GTZ BACKUP Initiative**

The resources available to fight HIV/AIDS, tuberculosis (TB) and malaria have dramatically increased in recent years. Nevertheless, many countries find it difficult to harness available resources and use them effectively to direct health and social programmes. The WHO and Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) initiated the WHO/GTZ BACKUP Initiative to help ensure access to and optimal use of resources from the Global Fund to Fight AIDS, Tuberculosis and Malaria and other large grants, by supporting the development of local technical capacity to launch urgent large-scale responses to HIV/AIDS.

For the WHO European Region, three knowledge hubs were established, each of them focusing on one of three priority areas: treatment and care, harm reduction and surveillance.

- Eurasian Harm Reduction Knowledge Hub
- Regional Knowledge Hub for Capacity Building in HIV Surveillance
- Regional Knowledge Hub for Care and Treatment of HIV/AIDS in Eurasia

**Background**

The core of the WHO/GTZ BACKUP Initiative was to develop a number of existing regional institutions and networks into centres that can take a lead in providing technical backup to the Global Fund process at the regional and/or

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# Asia-Pacific Water Forum Knowledge Hubs

Knowledge Networking for Water Security in the 21st Century

- Home
- About Us
- Mission
- Hubs
- Principles
- Products and Services
- Downloads
- Contact Us

Home » Hubs » Center for River Basin Organizations and Management

## Center for River Basin Organizations and Management

Regional Water Knowledge Hub for River Basin Organizations and Management

### CRBOM's Expertise

CRBOM is a newly created alliance of agencies of the Government of Indonesia, composed of the Ministry of Public Works' Directorate General of Water Resources, the Ministry's Research and Development Agency, and two corporate-type river basin organizations—Jasa Tirta Public Corporations I and II. These entities have decades of experience establishing and operating public-utility-type and corporate-type river basin organizations; planning and developing water resource use and conservation; managing technical, financial, and management issues associated with river basin organizations and management; operating and maintaining water resource infrastructure; managing watersheds and river environments; and conducting research and development in hydrology, hydraulic structures and geotechnical engineering, river engineering, and sediment management. CRBOM's activities will be implemented through the Network of Asian River Basin Organizations (NARBO) in collaboration with NARBO secretariat partners—Japan Water Agency (JWA), Asian Development Bank (ADB), and ADB Institute. CRBOM will be assisted by JWA through the Dissemination Unit for Water Resources Management and Technology, a JWA and Japan International Cooperation Agency project to improve water resources management in Indonesia, and by ADB through a regional technical assistance project entitled, "Managing Water in Asia's River Basins: Charting Progress and Facilitating Investment." CRBOM welcomes further partnerships through NARBO to complement these collaboration initiatives.

### CRBOM's Services

CRBOM aims to provide local, regional, and national-level government agencies; river basin organizations; water service providers; and others with the most reliable, effective, and practical information; analysis; advice; and capacity-development services in the field of river basin organizations and management. More specifically, the regional water knowledge hub will:

- Assist clients in establishing river basin organizations and river basin management systems that integrate up-to-date quality management systems

### Contact

**Hermono Budinetro**  
Deputy Director for Data and Information, CRBOM  
Email: hermonob@crbom.org

**Rahardjanto**  
Deputy Director for Program and Evaluation, CRBOM  
Email: rahardjanto@crbom.org

Jl. Solo-Kartasura, Pabelan  
Solo 57162

Telephones: +62 271 719429  
Fax: +62 271 716406  
Website: http://www.crbom.org

### Downloads

- Flyer

### Follow Us

- LinkedIn

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- Home
- Profile
- Vision & Mission
- Contacts
- Our Services
- Current
- Future
- Activities
- News
- Experts
- Feedback

## Regional Water Knowledge Hub for Water and Climate Change Adaptation In Southeast Asia

Latest News > Other Language >

June 11, 2013

### ASEAN Infrastructure Fund Readies \$1 Billion Pipeline for Lending Operations

NEW DELHI, INDIA - The ASEAN Infrastructure Fund Limited (AIF) is set to begin its lending operations in the second half of 2013, with a pipeline of around \$1 billion in projects for the next three years. At the meeting of the AIF Board of Directors, which took place on the sidelines of the 46th [...]

Read more...

Send us your FEEDBACK!

### Our Services

#### Hydroclimate Projection

"Establish the Hub's CC Projections Team..."

Read more > Articles >

Parse error: syntax error, unexpected 'endf' (T\_ENDIF) in D:\xampp\htdocs\wkh\wp-content\themes\lwkhca\sidebar.php on line 312

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**THE WORLD BANK GROUP**  
**Climate Change Knowledge Portal**  
 For Development Practitioners and Policy Makers

Search  GO


You Are Here: Home

Select a Country or Territory


The Climate Change Knowledge Portal (CCKP) Beta is a central hub of information, data and reports about climate change around the world. Here you can query, map, compare, chart and summarize key climate and climate-related information. [Read More](#)

Click on an area of the map to get started >

[Disclaimer](#)

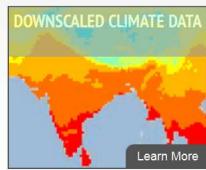


**GLOBAL CLIMATE DATA**




[Learn More](#)

**DOWNSCALED CLIMATE DATA**



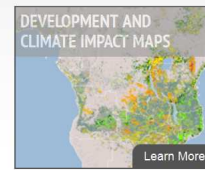
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Explore and use a collection of development, vulnerability, and impact-related indicators and datasets.

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**Lebanon Dashboard**

Overview

Overview Climate Baseline Natural Hazards Climate Future Impacts & Vulnerabilities Adaptation Print (forthcoming) References

Recent Trends

Mean Annual Temperatures 0.7°C per year from 1951-2000

Mean Rainfall [Explore Further](#)

Key Sectors

Water Resources

Agriculture

Energy

Coastal Zones [Explore Further](#)

Natural Hazards

Overview

Lebanon has a land area of 10,230 km and is located on the eastern basin of the Mediterranean Sea. Dominated by mountains, 67% of the country's total land is arable and 13% is forest. The country's population totals 4,223,500 with over 87% living in urban cities. Lebanon is rated as an upper middle-income country with a per capita GDP of US\$8,175. The economy is dominated by the service sector, which contributes 45% of the country's GDP. In recent years, the development of financial markets, mainly in the banking industry, has contributed to the increased GDP. Despite the large part of the country being arable, agriculture contributes only about 6% to GDP. In light of recent rising world food prices and the effects of climate change on agriculture, the country is likely to face serious food shortages in the near future. Water resources are currently favorable, but the country experiences severe, long dry summers, which often cause water shortages, putting a heavy burden on development. Lebanon is divided into four topographic systems: (1) the flat, narrow coastal strip parallel to the Mediterranean Sea; (2) the Lebanon Mountains; (3) the Bekaa Valley; and (4) the Anti-Lebanon mountainous chain. The country's soil is mainly Mediterranean, with

Select a layer to visualize it on the map.

Legend

- Major Cities

Layers

- Major Cities
- Major Rivers
- Water Bodies
- Roads
- Wetlands
- Elevation

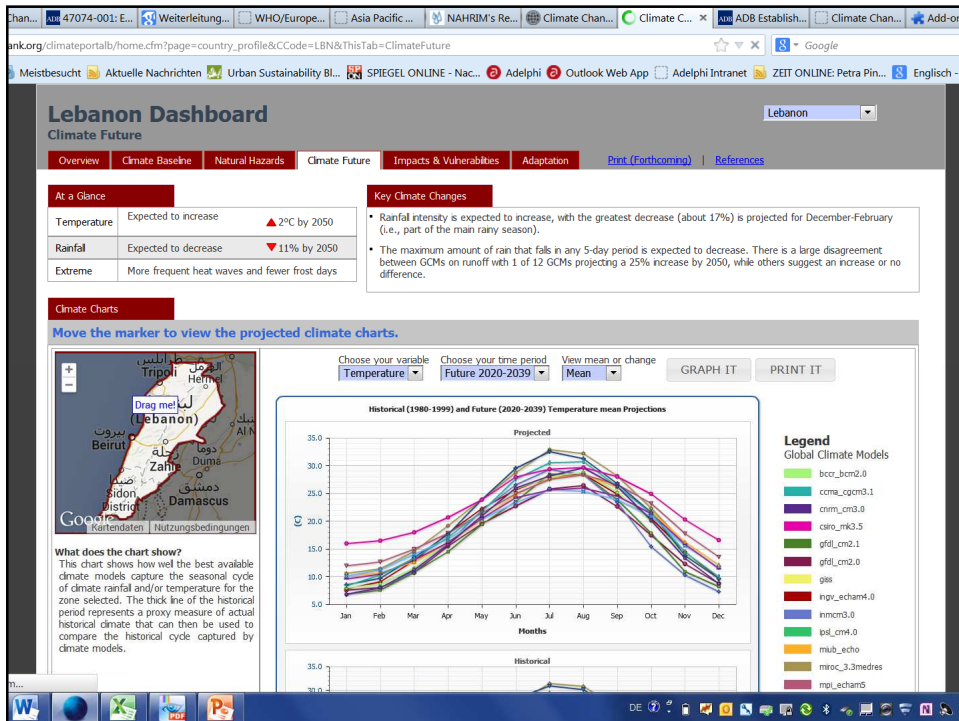
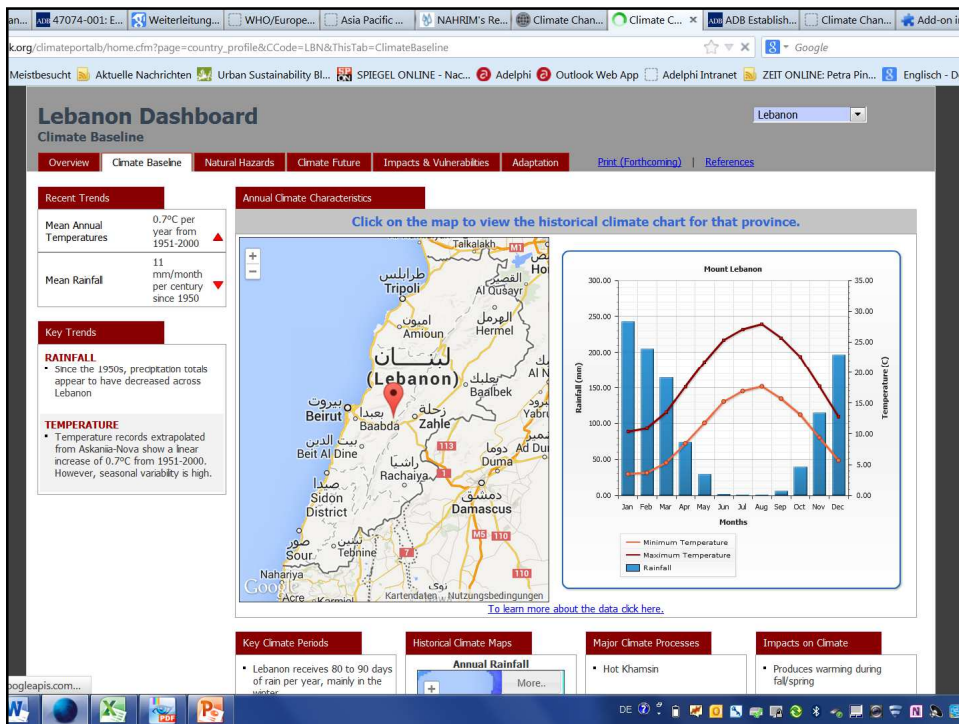
Selected Indicators for Impacts and Vulnerabilities

Agricultural land (% of land area)

Year	Agricultural land (% of land area)
2001	~60.00
2002	~60.00
2003	~60.00
2004	~60.00
2005	~60.00
2006	~60.00
2007	~60.00

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Lebanon Dashboard  
Impacts & Vulnerabilities

Overview | Climate Baseline | Natural Hazards | Climate Future | Impacts & Vulnerabilities | Adaptation | Print (Forthcoming) | References

**Implications for Disaster Risk Management**

- Increased temperature and drier conditions may increase the severity and intensity of fires.
- Increased temperatures and evapotranspiration coupled with declining, but increasingly erratic rainfall, may lead to more severe drought conditions.
- Drier conditions are likely to further accelerate the depletion of groundwater supplies that are currently under pressure from extraction for agriculture and are also being polluted by industry.

**Legend**  
Population Density (Persons per sq km)

0
1 - 5
6 - 25
26 - 50
51 - 100
101 - 500
501 - 2,500
2,501 - 5,000
5,001 - 130,000

**Layers**

- Population 2000
- Population 2015
- Number of children under the age of 5
- Prevalence of Child Malnutrition
- Rainfed, Cultivated Land, Year 2000
- Crop Land

**Data description:** Gridded Population of the World, Version 3 (GPW3) estimates population for the year 2000 (in 2.5 minute grid cells) by using raw count and population density datasets.

**Source link:** [Columbia University's CIESIN](#)

**Further reading:** [GFDRR Country Disaster Risk Management Programs](#)

**Vulnerability Indicators**

Agricultural land (% of land area)

Year	Lebanon	Middle East and North Africa
2001	60.00	38.00
2002	61.00	38.00
2003	62.00	38.00
2004	63.00	38.00
2005	64.00	38.00
2006	66.00	38.00
2007	68.00	38.00

WB Home Page | GFDRR Home Page | Climate Change Knowledge Portal  
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Lebanon Dashboard  
Adaptation

Overview | Climate Baseline | Natural Hazards | Climate Future | Impacts & Vulnerabilities | Adaptation | Print (Forthcoming) | References

**Adaptation Options by Key Sectors**

Agriculture | Coastal Resources | Energy | Forestry | Water

- Setting up and implementing a sustainable agricultural policy to maintain the viability of the agriculture sector and an acceptable level of food security.
- Adopting sustainable agriculture practices, such as conservation agriculture, adequate crop rotations and organic farming as part of soil and water management.
- Developing a national rangeland program in collaboration with all stakeholders, which would include rangeland management plans and actions.
- Shifting from surface to more efficient drip irrigation and other innovative methods to minimize water wastage and promote more efficient use.
- Accounting for all water resources through surveys, taking topology-hydrology-water needs studies, assessment methodologies, and designing and installing irrigation schemes.
- Establishing and implementing an early warning system to alert farmers on the occurrence of extreme weather events to enable appropriate planning.

**Priority Adaptation Projects**

A National Emergency Reconstruction Program (NERPA)  
(Ministry of Energy and Water)

- Water Plan
- Greater Beirut Water Supply Project
- Green Plan
- Bekaa Emergency Water Supply Project
- Technology Needs Assessment Reports By Countries
- Establishing The Regional Center For Disaster Risk Reduction

**Gaps and Needs**

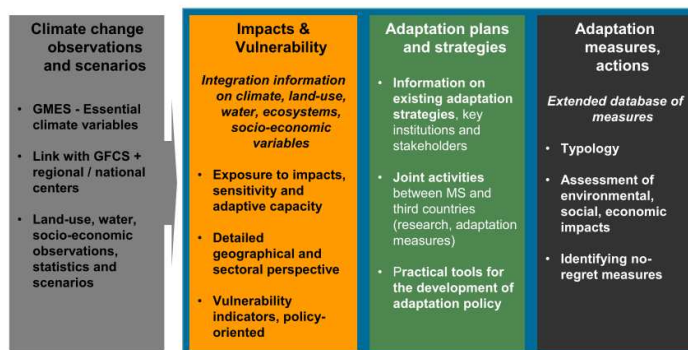
Research Gaps | Institutional Response | Data and Information Gaps

- Research on technology options for adaptation in the water resources and agriculture sectors suitable for Lebanon.
- Developing science and educational infrastructure and providing targeted research grants to facilitate climate research on a local scale.
- Developing science and educational infrastructure and providing targeted research grants to facilitate climate research on a local scale.

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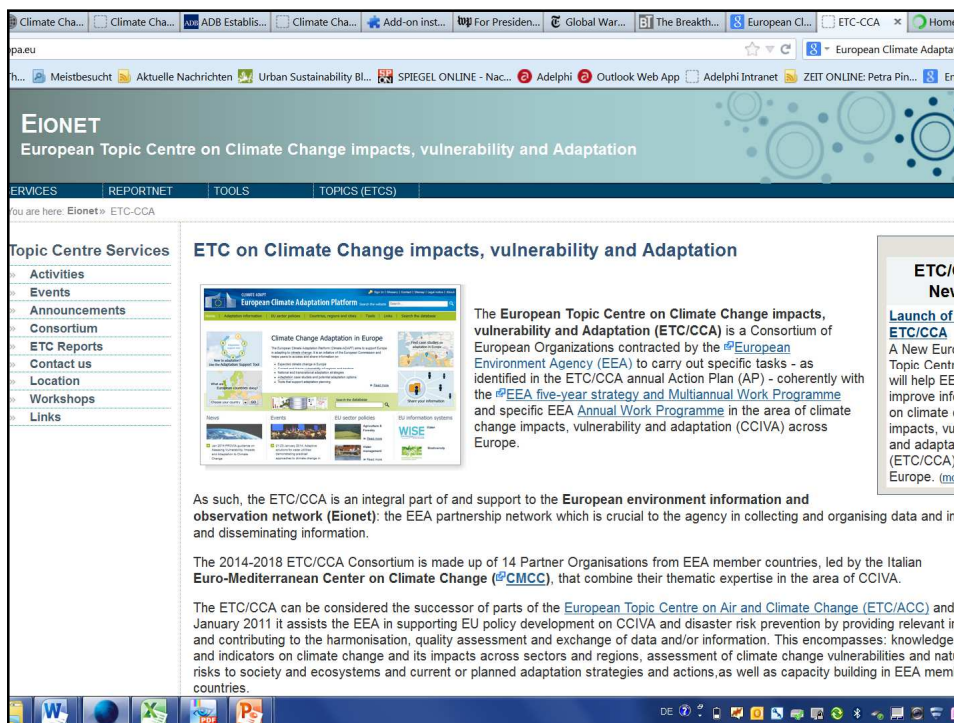
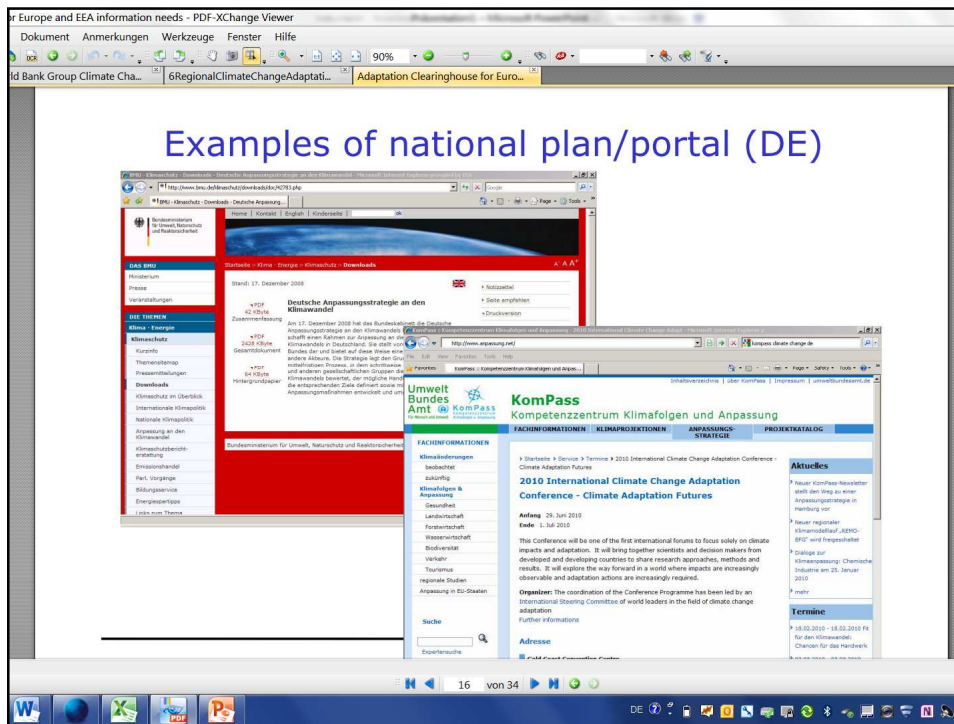
# EU CLIMATE CHANGE IMPACTS, VULNERABILITY AND ADAPTATION CLEARINGHOUSE

## EU Climate Change Adaptation Clearinghouse









The screenshot displays the European Climate Adaptation Platform website. At the top, there is a navigation bar with the logo and the text "CLIMATE-ADAPT European Climate Adaptation Platform". Below this is a secondary navigation menu with links for Home, Adaptation information, EU sector policies, Countries, regions and cities, Tools, Links, Search the database, and Newsletter. A search bar is also present.

The main content area features a featured article titled "Implementation of the integrated Master Plan for Coastal Safety in Flanders" with a sub-headline "The Flemish coast is intensively used by many actors." and a "Read more" link. To the right of this article is a "SEARCH THE CLIMATE ADAPTATION DATABASE" section with a search form including fields for "Search Term(s)", "Keyword Search", "Sectors" (with options for Agriculture and Forest, Biodiversity, and Coastal areas), and "Country" (with options for Albania, Austria, and Belgium), and a "SEARCH" button.

Below the featured article are four interactive tiles: "New to adaptation? Use the Adaptation Support Tool", "What are European countries doing?" with a "Choose a country" dropdown and "GO" button, "Find case studies on adaptation in Europe" with a map, and "Share your information" with a person icon.

At the bottom of the page, there are four green buttons labeled "News", "Events", "EU sector policies", and "EU information systems". The Windows taskbar is visible at the very bottom of the screenshot.