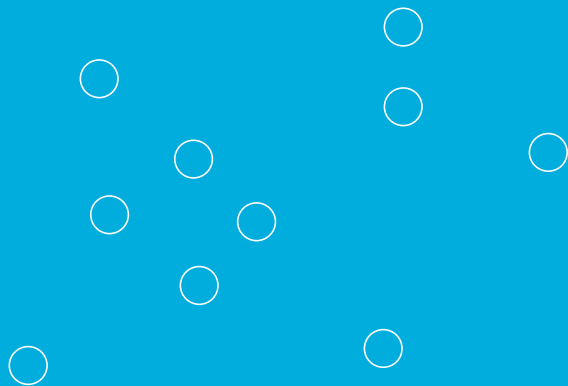


# Welcome to the Eawag



# Introducing the EAWAG

- **Institution**
- **Action Fields**
- **Cross-Cutting Projects**
- **Eawag in Numbers**

# Focus of the Eawag

Institution

Action Fields

Cross-Cutting Projects

Eawag in Numbers

- **Eawag's main research subject is water.**

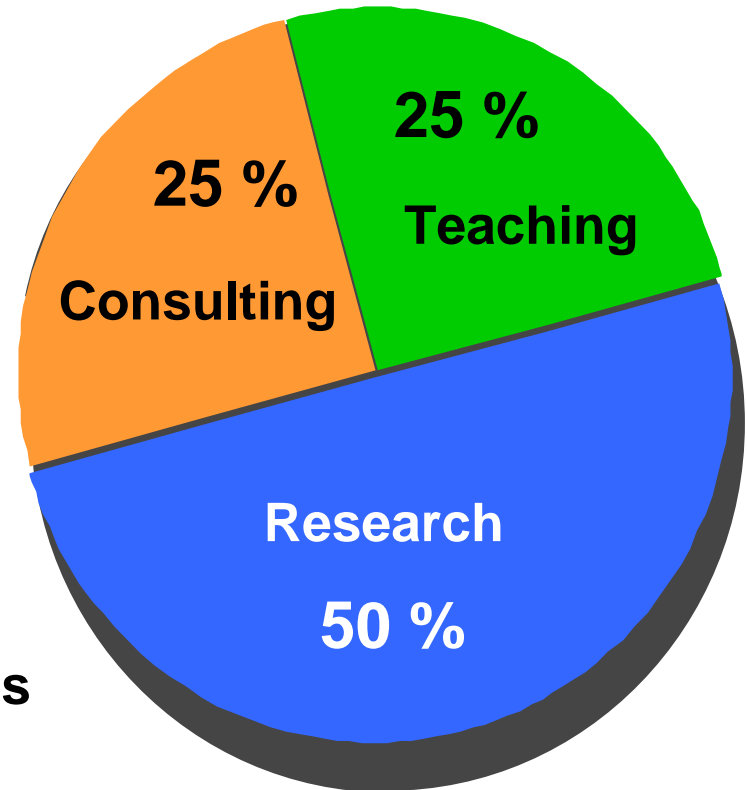
**Understanding all aspects of water**  
**on the chemical and physical levels**  
**on the systems level**  
**on the societal level**  
**and interactions between these levels**

# Mission of the Eawag

- **To function as an interface between science and society (between research and practice)**
- **To develop concepts and technologies for sustainable and continually improved usage of water**
- **To harmonize ecological, economic and social interests for sustainable management of aquatic resources**

## Activities of Eawag

- **Research on water and Development of problem solutions and sustainable technologies**
- **Teaching at universities**
- **Education of professionals**
- **Consulting to politicians, public administrations, commerce, environmental and industrial associations and the public**



# Scientific Perspectives of Eawag

**Complexity of subject as well as bridging function between research and practice requires several scientific perspectives:**

- **Disciplinary Perspective** —→ Understanding fundamental processes in nature, technology and society
- **Interdisciplinary Perspective** —→ Understanding natural, technological and social systems
- **Transdisciplinary Perspective** —→ Assessment and evaluation of the interactions between humans and the environment. Development of problem solutions which include stakeholders.

# Affiliation in the ETH Domain

- **Federal Government**

- **ETH domain:**

**ETH-Zurich, ETH-Lausanne,  
PSI, WSL, Empa, Eawag**

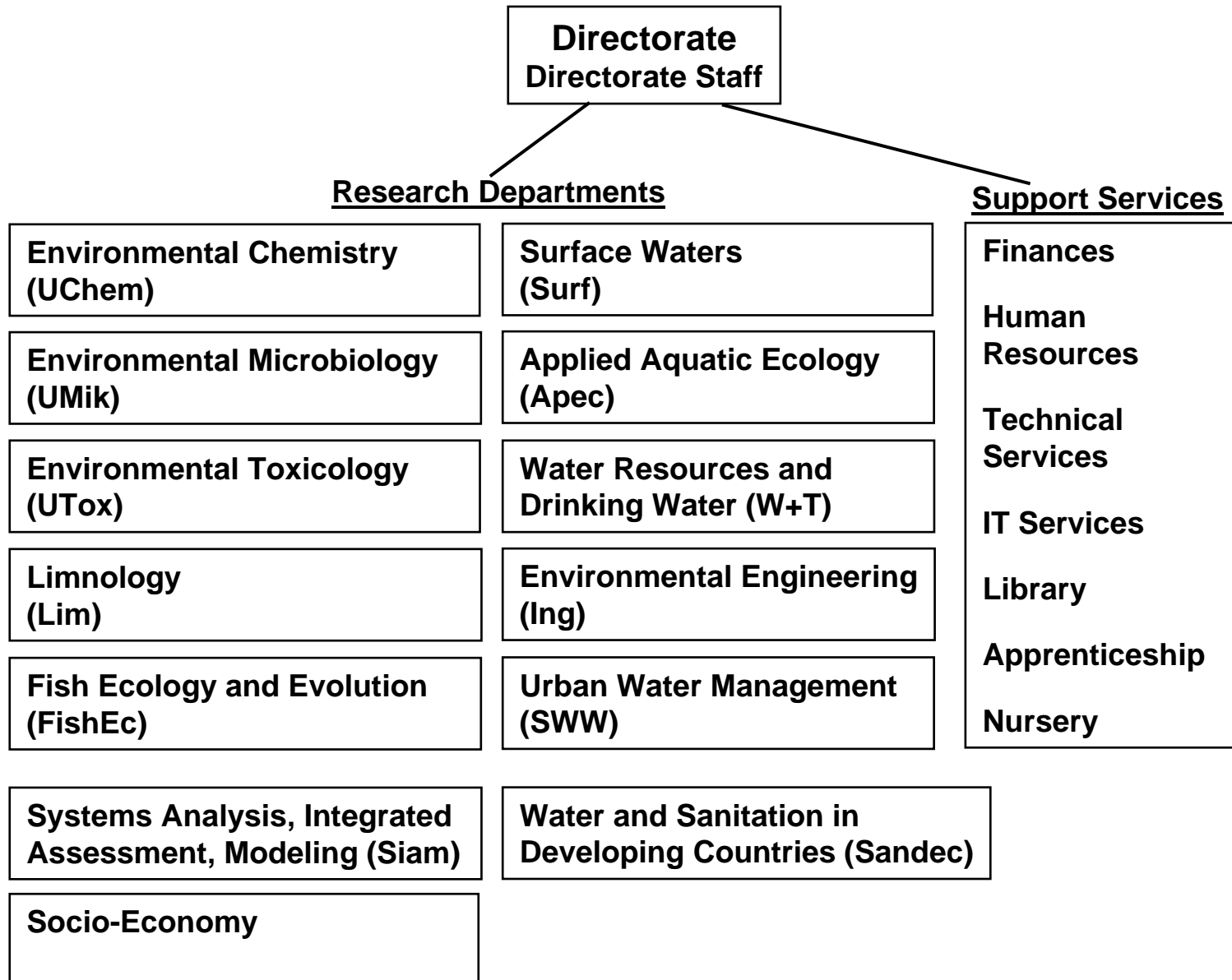
# Structure of the Eawag

Institution

Action Fields

Cross-Cutting Projects

Eawag in Numbers





# Action Fields

- **Urban Water Management**
- **Aquatic Ecosystems**
- **Chemicals and their Effects**

# Action Field «Urban Water Management»

- **Drinking water supply:**
  - sustainable management of drinking water resources
  - methods for drinking water treatment
  - methods for assessing the drinking water quality
  
- **Waste water treatment**
  - methods for waste water treatment
  - strategies for redirecting long-lasting systems
  - alternative concepts in waste water treatment

Focus on the requirements of both industrialized countries as well as of developing countries.

## Action Field «Aquatic Ecosystems»

- Basic research in order to understand the relevant processes in aquatic ecosystems
- Stream rehabilitation (aims, measures, predictions, decision support)
- How to deal with direct anthropogenic affects (agriculture, hydroelectric power generation, pollution)
- Effects of global change on water ressources and aquatic ecosystems
- Watershed management (Integrated water management, assessment of yield/effort, prioritization of measures)

## Action Field «Chemicals and their Effects»

- Risk assessment of chemicals
- Ecotoxicological evaluation of water and aquatic ecosystems
- Identification of critical regions and situations
- Identification of critical chemicals, products and applications
- Exertion of influence on public authorities, politics and industry

# Cross-Cutting Projects

- **Tool for examining current and future problems regarding water resources and aquatic ecosystems**
- **Collaboration of different disciplines at Eawag**
- **Involvement of relevant players outside of Eawag (parties involved, consumers, experts, politics)**
- **Limited to 3-4 years**

## Eawag in Numbers (Human Resources)

- **Employees:**  
300 scientists including 100 PhD students,  
75 technical and administrative employees,  
25 trainees
- **Disciplinary origin of the scientists :**  
70% natural sciences, 25% engineering,  
5% social sciences
- **Countries of origin:**  
65% Switzerland, 25% European Union, 10% other

## Eawag in Numbers (Budget and Output)

- **Annual Budget:**

45 Million SFr funds from federal government,  
10 Million SFr third-party funds

- **Output (annual average):**

140 publications in peer-reviewed journals,  
25 PhD theses,  
9 certificated trainees,  
50 employees teach at ETH Zurich and other universities,  
Organisation of 8-10 courses and symposiums

# Eawag Locations

**Main Building  
in Dübendorf near Zürich**



**Limnological Research Center  
in Kastanienbaum near Lucerne**





## SWAT 2005 Conference

- **Local Organizers**

Karim Abbaspour

Rosi Siber

Karin Ghilardi

Jürgen Schuol

Jing Yang

Raghavan Srinivasan

- **Scientific Committee**

- **Conference**

Applications (research, scenario studies, policy advice)

Systems analysis, calibration, optimization

Problems

New features, future directions