SINCIERE

Sino-Norwegian Centre for Interdisciplinary Environmental Research

• Bilateral agreement between CAS/RCEES and UiO/CIENS

• Sponsored by: The Research council of Norway
Stor interesse

• For å utvikle forskningssamarbeidet mellom Kina og Norge
  – på Tvers av fag
  – på Tvers av grunnforskning (UiO) og anvendt forskning (CIENS)
Enable Chinese decision makers to establish efficient abatement strategies on environmental challenges thereby ensuring a sustainable development.

Sustainability implies positive solutions for all components.

Needs for environmental protection are balanced against limitation posed by social harmony and economic production.

- To obtain this knowledge, integrated assessment studies of the ways pollution and inadequate resource management affect the environment and humans are required.
**DPSIR – philosophy**

**Conceptual framework**

- **Drivers**: Activities in society to achieve "good life" (production, energy, travel)

- **Pressures**: side effects of drivers (Emissions, combustion of fossil fuels, CO₂)

- **State**: Chemical, Biological properties of, Water, Air, Soil, Climate, Radiation

- **Impacts**: Fish extinction, vegetation damage, Impacts for user interests, floods, droughts

- **Nature’s Response**: Changed biodiversity, adjusted ecosystems, feedback mechanisms

- **Society’s Response**: Adjustments, environmental protection, environmental technology, policy, legislations, taxes
Needs

• Social, economic and nature scientists do not usually socialize
  – We need to generate breeding ground for interdisciplinary projects
    • Meeting point
    • Think tanks
    • Workshops

• Allocate funding
Our SINCIERE Vision:

To act as a catalyst and mediator for cooperation between China and Norway within the field of environmental research.

- Facilitate interdisciplinary and policy relevant research and serve as a node for a broad network of associated institutions.
Centre Goals – Holistic perspective

• Generate and facilitate research projects that:

  – Conduct **Integrated Assessments**, taking into account the full range of factors of importance for the impact and mitigation of environmental stressors on a local -, regional -, and global scale.

  – Develop novel approaches linking **bio-physico-chemical** knowledge with **economic** and **social** understanding within the field of environmental research in a Chinese context.
Advantages

• Integrate research networks
  – Through international collaboration
  national cooperation develops

• Strengthen institutional and scientific capacity

• Constitute a noticeable rostrum
to allocate funding for environmental research
  in China

• Provide common framework and infrastructure
  for projects
  – Facilities, Workshops, Think Tanks

• Increase access to international research funding
  (EU’s 7th, WB, etc)
Centre Tasks

- Identify knowledge gaps and generate projects
  - Visualize by means of a DPSIR framework where there are research needs that Norwegian institutes can provide.
  - Apply for funding to arrange matchmaking workshops and seminars on identified target areas
    - Invite key persons in China to the workshop
- Dissemination through Web page and Newsletter
  - Present Members and their activities
    - List of members with short presentation of research incl. previous and ongoing projects in a DPSIR context
  - Information about arrangements and projects
    - Presentations
  - Membership pages:
    - Overview of
      - Funding sources for
        » Research projects
        » Knowledge transfer
        » Development aid
        » Student and researcher mobility
        - As well as Deadlines
  - Update on EU
  - Relevant conferences and venues
Substance

• Member Forum
  – “CAS: RCEES, SYIG, IGSNRR
    CAF: SFA
    CASS
  – Universities:
    Nanjing Wuhan, Renmin, Tsinghua, Agricultural, Peking
    SEPA: CRAES
    – and others”

  – CIENS: NIVA, NILU, NIBR, NINA, NVE, UiO, CICERO, TØI
    UiO: Faculty of Mathematics and Natural Sciences
  Associated members:
    BioForsk, Univ. of Life Science, Norw. Forest & Landscape
    Institute, HiT, ECON, FNI, NORDECO, NUPI

• Staff
  – Chinese director, secretary,
    Bilingual administrative coordinator,
    Scientific coordinators

• Facilities
  – Office, venues, laboratories
Linking up to ongoing CAS project: Jing-Jin-Tang region

Prof. ZHU Yongguan – RCEES/CAS

- Overall rapid economic expansion in this region;
- Increasing energy consumption and transport system → Air pollution;
- Conflicts of water use between different sectors,
- Safe drinking water
- Water reuse and food safety issues;
- Land use changes;
- Soil contamination
  - An integrated approach for multi pollutant – multi effects environmental problems in the Beijing-Tianjin-Bohai Bay region
  - Development of pollution control technologies and implementation demonstration in the Beijing-Tianjin metropolitan region;
  - Water-environment security in Tianjin Binhai New District – development of green technologies and demonstration projects;
欢迎指导！

Thank You

谢谢！