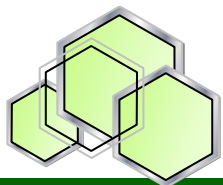


Stockholm Convention Regional Center BCRC's Role and Future Plan



Professor Yu Gang

POPs Research Center, Tsinghua University



OUTLINE



1

Introduction of SCRC

2

Introduction of BCRC China

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SC Activities of BCRC China

4

Future Plan of BCRC China



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Stockholm Convention Regional Centres (SCRCs)

Stockholm Convention: Paragraph 4 of Article 12

“The Parties shall establish, as appropriate, arrangements for the purpose of providing technical assistance and promoting the transfer of technology to developing country Parties and Parties with economies in transition relating to the implementation of this Convention. These arrangements shall include **regional and subregional centres for capacity-building and transfer of technology** to assist developing country Parties and Parties with economies in transition to fulfil their obligations under this Convention. **Further guidance in this regard shall be provided by the Conference of the Parties.**”



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Stockholm Convention Regional Centres (SCRCs)

Objective

- To provide technical assistance and promote the transfer of technology to
 - Developing country Parties, and
 - Parties with economies in transitionrelating to the implementation of the SC



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Stockholm Convention Regional Centres (SCRCs)

- SC-CoP1/16: Technical assistance:
Regional and subregional centers

“to develop terms of reference for regional and subregional centres and criteria for evaluating the performance of such centres within the following guidelines:





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Stockholm Convention Regional Centres (SCRCs)

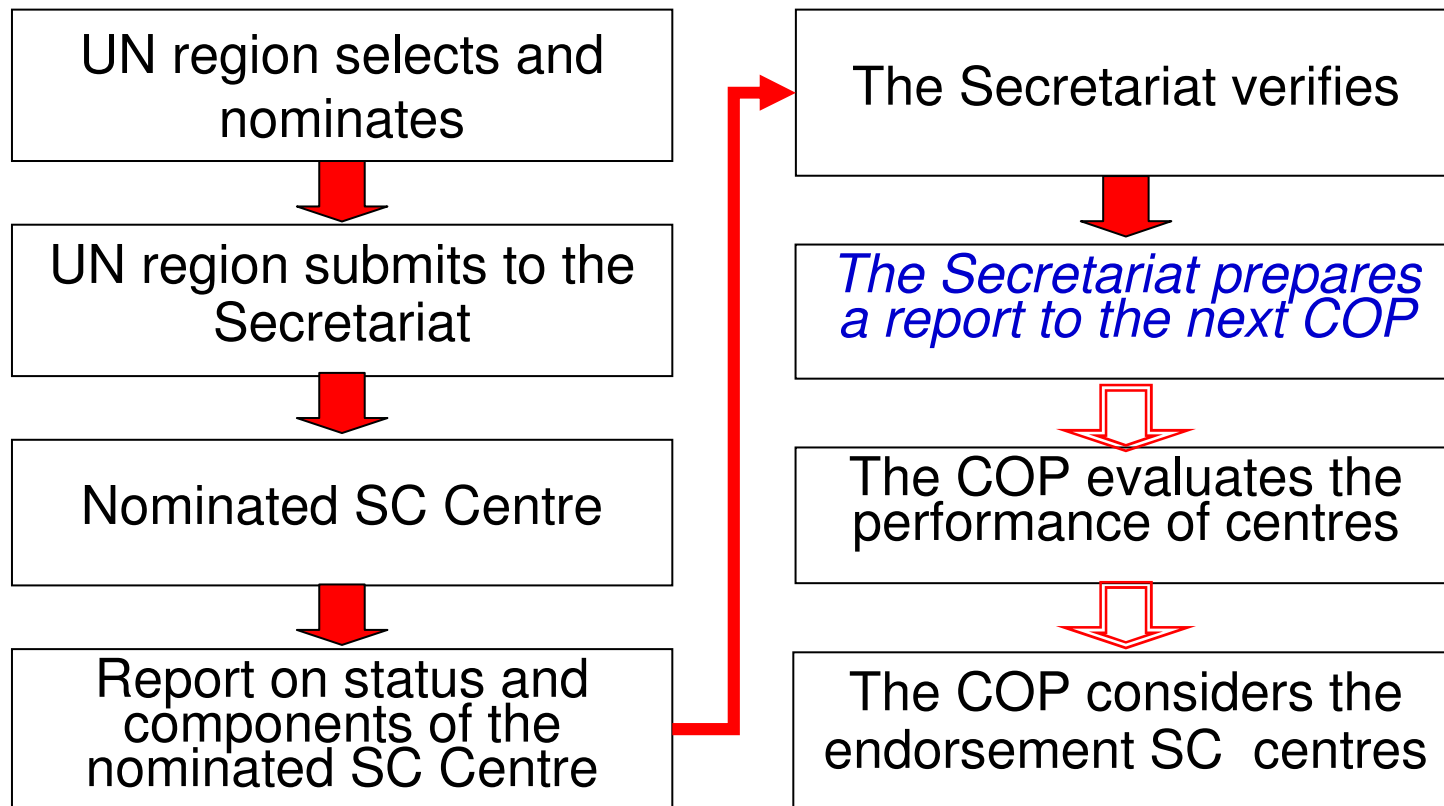
SC CoP-2/9: Technical assistance

-  Annex I: **Terms of reference for regional and subregional centres** for capacity-building and transfer of technology under the Stockholm Convention
-  Annex II: **Criteria for evaluating the performance of regional or subregional centres** for capacity-building and technology transfer



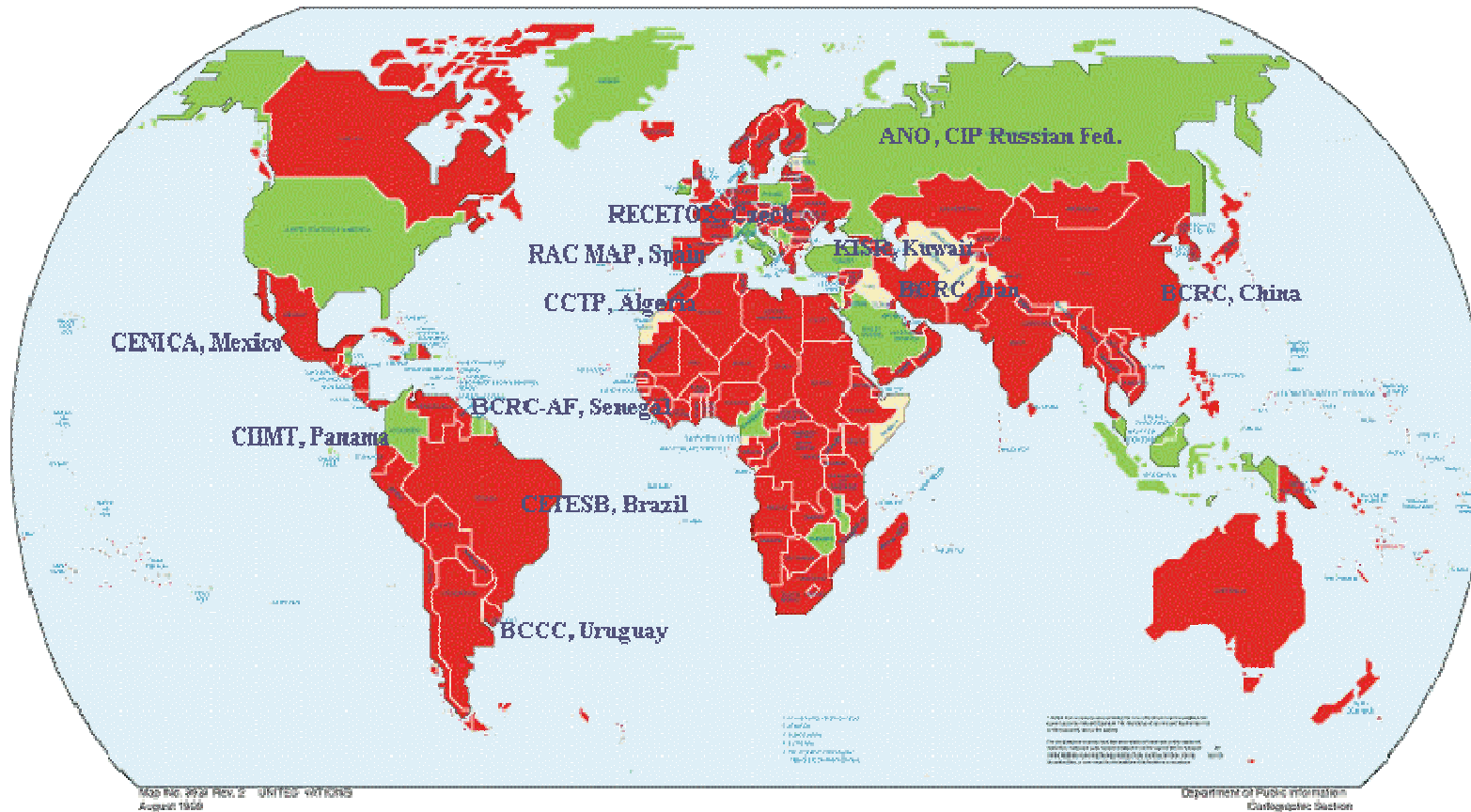
Stockholm Convention Regional Centres (SCRCs)

SC CoP-3/12: Procedures



SCRCs

Nominated SCRCs



<http://chm.pops.int/LinkClick.aspx?link=434&tabid=425&mid=1458&language=en-US>



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SCRC in Asia-Pacific Region

BCRC-China

Africa

National Centre for Cleaner Technologies
Production, Algeria

Basel Convention Regional Centre for French
African countries (BCRC-FA), Dakar, Senegal

Asia and Pacific

Basel Convention Coordinating Centre for Asia
and Pacific, Beijing, China

Basel Convention Regional Centre, Tehran, Iran
(Islamic Republic of)

Kuwait Institute for Scientific Research, Kuwait

Central and Eastern Europe

RECETOX, Brno, Czech Republic

ANO "Centre for International Projects" Moscow,
Russian Federation

Centro CETESB – Companhia de Tecnologia de
Saneamento Ambiental de Brasil, Brazil

Latin America and the Caribbean Region

Centro Nacional de Investigacion y Capacitacion
Ambiental (CENICA), Mexico

Centro de Investigacion e Informacion de
Medicamentos y Toxicos, Panama

Basel Convention Regional and Coordinating
Centre (BCRC), Uruguay

Western Europe and others Region

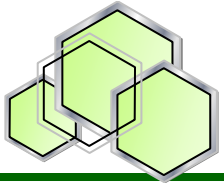
Regional Activity Centre for Cleaner Production,
Mediterranean Action Plan, United Nations
Environment Program; Barcelona, Spain

<http://chm.pops.int/Programmes/TechnicalAssistance/ProgressReport/tabid/234/language/en-US/Default.aspx>



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OUTLINE



Introduction of SCRC



Introduction of BCRC China



SC Activities of BCRC China



Future Plan of BCRC China



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BCRC-China

History

- In 1993, China NEPA established **National Training and Technology Transfer Center for Hazardous Waste Management and Disposal of China (NTTTC)**, in Tsinghua University
- In 1995, 3rd International Conference of the Parties to the Basel Convention officially selected China to establish a **regional center for hazardous waste management in the Asia-Pacific region**
- In 1997, BCRC-China established based on the NTTTC
- In 2008, BCRC-China was nominated as one of the regional centers under the Stockholm Convention



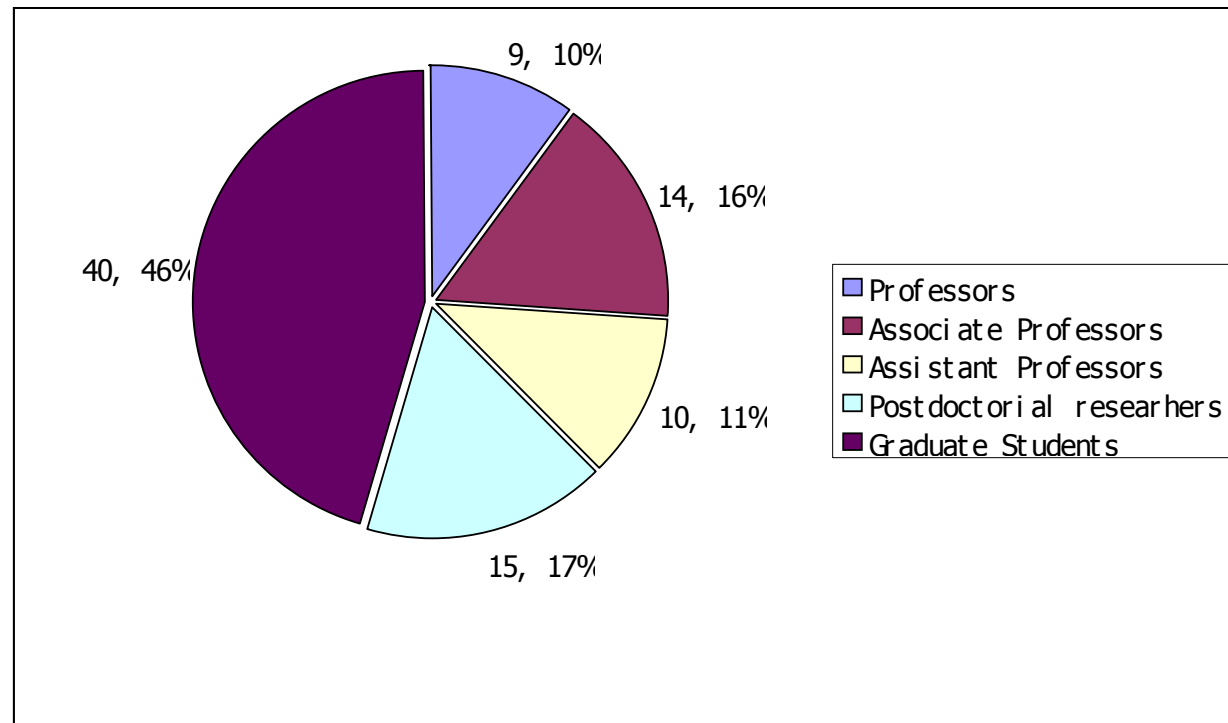
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BCRC-China

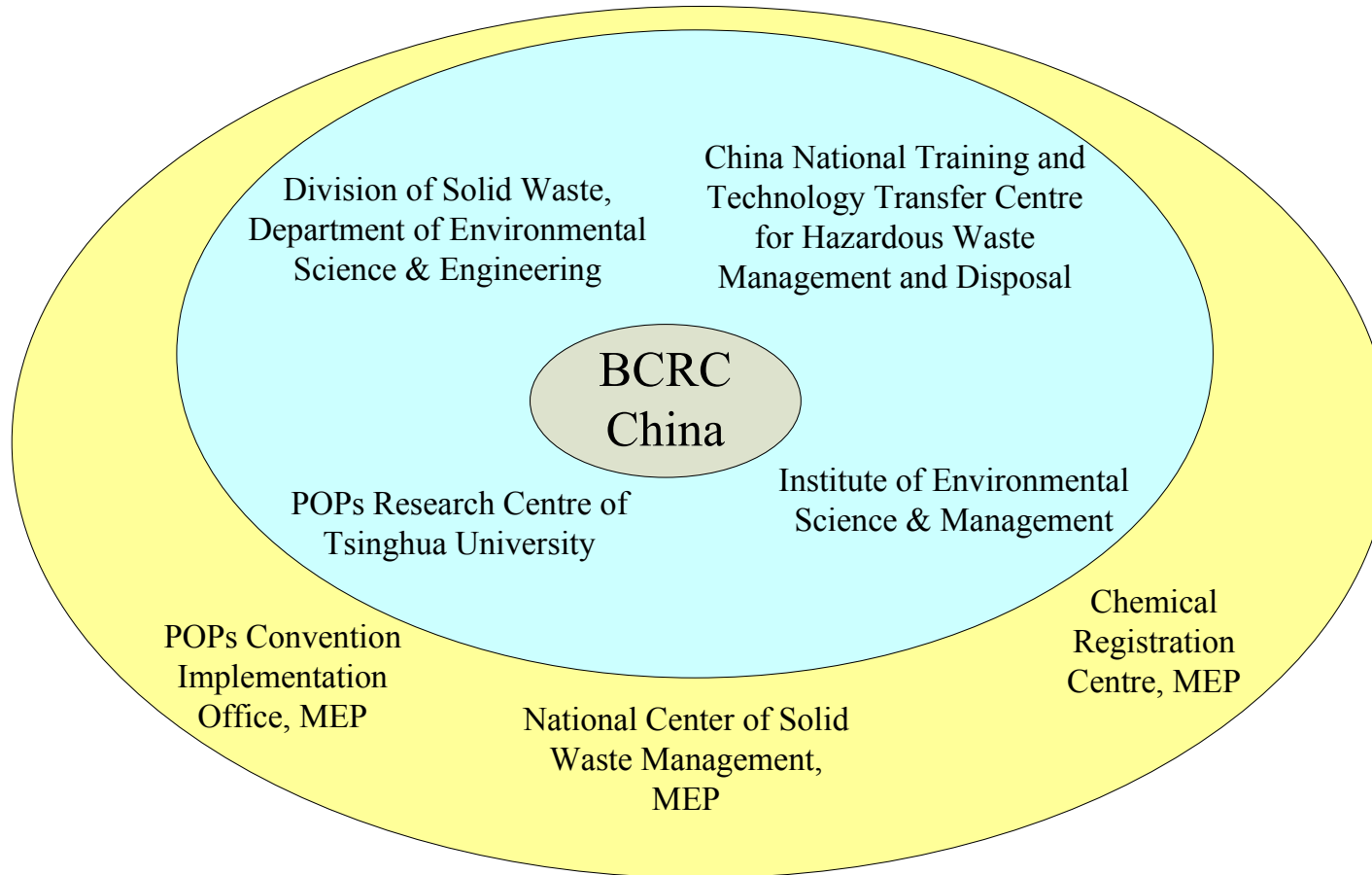
Staffs

- Fulltime members: 6+1
- Part-time supporting members:



BCRC-China

Networking



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BCRC-China

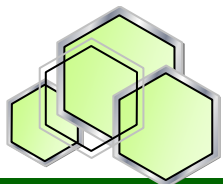
Main areas

- Under the Stockholm Convention
 - POPs Inventory survey methodology and practice
 - BAT/BEP for dioxins reduction and control
 - Strategy and action plan for reducing or eliminating POPs
- Under the Basel Convention
 - Hazardous waste management
 - E-waste management and technology
 - Trans-boundary movement of HW
- Synergies of chemical conventions
- Chemical and Waste Platform



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- 1 Introduction of SCRC
- 2 Introduction of BCRC China
-  3 **SC Activities of BCRC China**
- 4 Future Plan of BCRC China



Main Activities

- ① Regional project development and implementation
- ② Providing consulting service
- ③ Technology transfer promotion
- ④ Regional and national level training
- ⑤ Public awareness raising

China based, serving the region



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① Regional project development and implementation

- ✚ Survey of the Import and the Environmentally Sound Management of Electronic Wastes in Asia-Pacific Region.
Basel Convention Trust Fund, 2003-2005
- ✚ Project on Collection and Treatment Schemes for E-waste.
United Nations Environment Programme, 2007-2009
- ✚ The Import/Export Management of E-Waste and used EEE.
Secretariat of BC, 2008-2009
- ✚ Hazardous Substances from Open Burning of Waste in Developing Countries.
United Nations Environment Programme, 2007-2008



② Consulting service for the government

- ✦ Development of Chinese Strategy and Action Plan for the Reduction and Control of Dioxins in China
- ✦ Hazardous Waste Legislation: Management of the Hazardous Waste Generation Source
- ✦ Development of Solid Waste Management System
- ✦ Development of PCBs inventory methodology
- ✦ Development of the inventory methodology for POPs stockpile and contaminated sites
- ✦ Environmental survey of POPs in Haihe basin

✦



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Strategy & Action Plan to Reduce and Control the Release of Dioxins in China

- Stage 3 : 2025~
- Stage 2 : 2010~2025
- Stage 1 : 2005~2015

Continuously Reduction

Existing Source: Phase II Replication, target at the reduction of release from key sources by **80%**

New Source: EIA Application

Existing Source: Phase II Replication, target at the reduction of release from key sources by **40%**

New Source: Strengthening EIA policy with requirement of BAT application



PCB Inventory Methodology



③ Technology Transfer Promotion



- China
- Laos
- Malaysia
- Nepal
- Philippines
- Sri Lanka

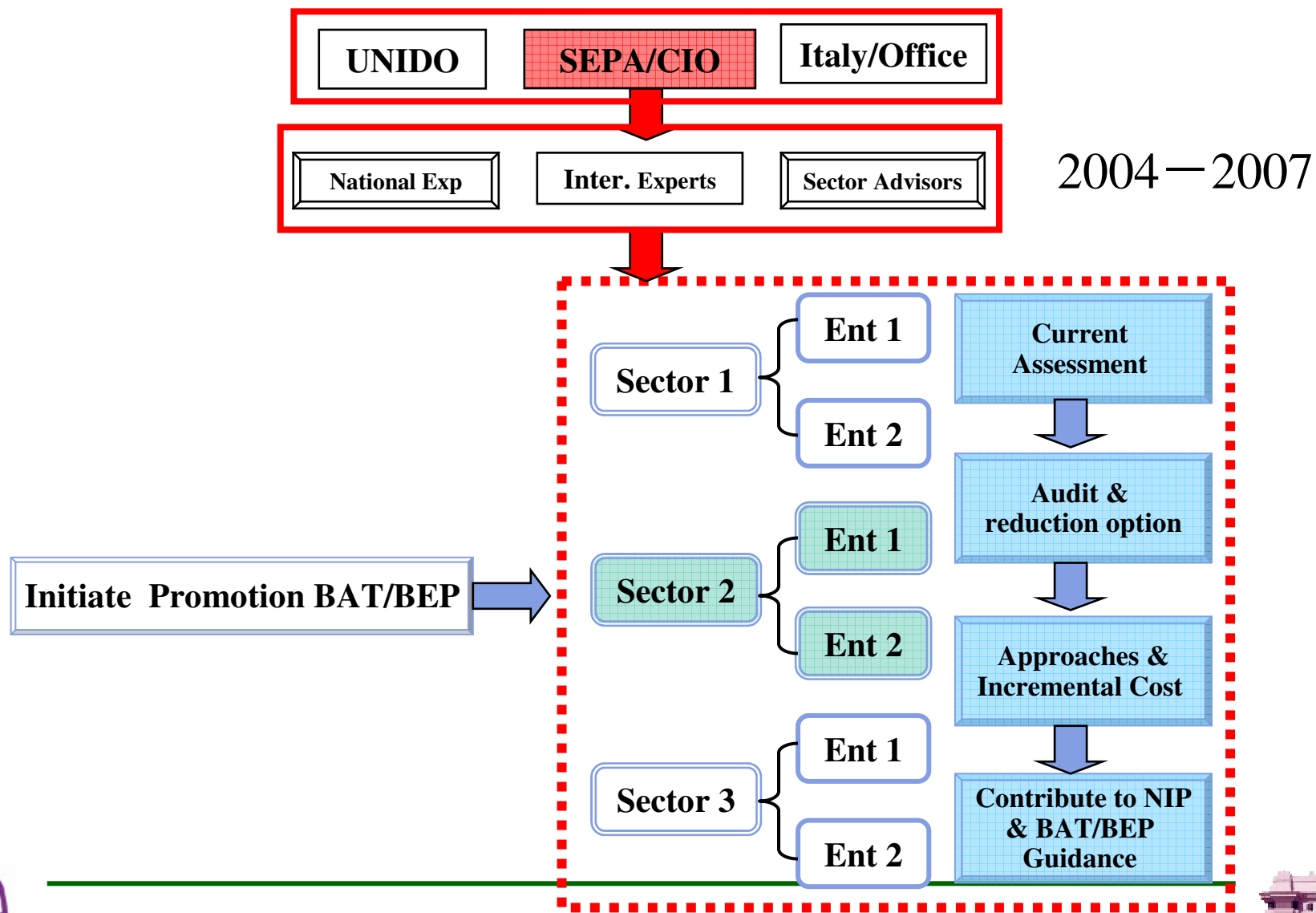
**Consultation Workshop on Regional Needs of SC Implementation
2008, Nov 7, Beijing**



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Demonstration Project for BAT/BEP Implementation & UP-POPs Reduction in China



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Project Outputs

- ✚ Established expert group and **decision supporting system** for BAT/BEP
- ✚ Demonstrated some BAT/BEP in full scale in six factories
- ✚ Analyzed **incremental cost** referred to full scale demonstration
- ✚ Provided suggestion for BAT/BEP implementation in 3 industry sectors (6 enterprises) in future



④ Regional and national level training

Regional training workshops



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China POPs Forum

China POPs Forum

- “Persistent Organic Pollutants Forum & National Symposium on Persistent Organic Pollutants in China ”

Organized by



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Office of Convention Implementation (CIO) of Ministry of Environmental Protection



Professional Committee of POPs of Chinese Society for Environmental Sciences



Professional Committee of Environmental Chemistry of Chinese Chemical Society



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Objectives of China POPs Forum

3C Objectives of China POPs Forum

- To prompt the
 - **Communication**
 - **Coordination**
 - **Cooperation**
- among
 - **Government**
 - **Industry**
 - **Academy**
 - **Public**



Win-Win

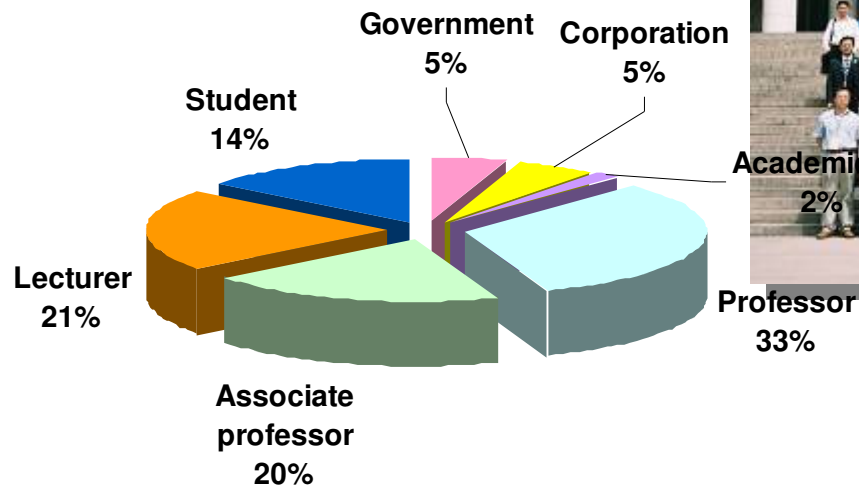


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China POPs Forum 2006

- Participants: 223
- Presentations: 59
- Paper: 100



17-18 May 2006, Beijing

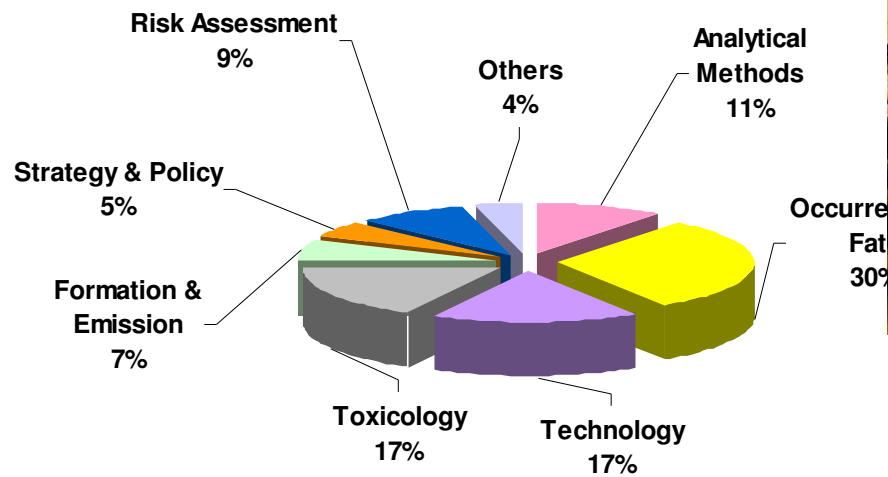


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China POPs Forum 2007

- Participants: 170
- Presentations: 76



17-18 May 2007, Dalian

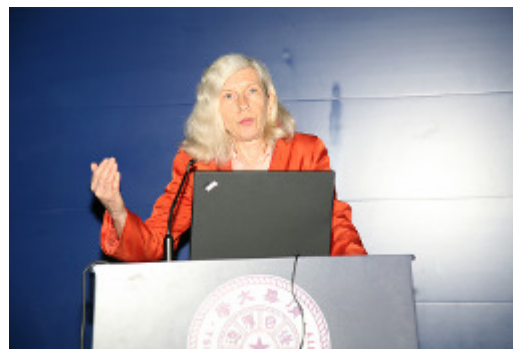


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China POPs Forum 2008

- Participants: 256
- Presentations: 85
- Papers: 108



17-18 May 2008, Beijing



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⑤ Public awareness raising

Books



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⑤ Public awareness raising

TV programs



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⑤ Public awareness raising

Weekly column
in China Environmental Protection newspaper

为何北极熊体内也会有 POPs

北熊熊 (~10,000×)
海豹 (~1,000×)
鱼类 (~100×)
海水 (1×)

是从来使用过 POPs 的南北极和高寒地区发现 POPs 存在的原由。因为在中等纬度地区在温度较高的夏季 POPs 易于挥发和迁移，而在温度较低的冬季 POPs 则易于沉降下来。所以 POPs 在向高纬度迁移的过程中会有一些距离相对较短的跳跃过程，这种特性又被称之为“蚱蜢效应”(Grasshopper Effect)。此外，大气的稀释作用、洋流作用等也会将 POPs 由释放源带到从未使用过 POPs 的清洁地区。

POPs 属于疏水亲脂性的有机化合物，因此进入机体的 POPs 倾向于在生物的脂肪组织中浓缩富集，并且通过食物链的作用随营养级的升高而逐级放大，最终停留在营养级的顶端生物如北极熊体内。北极熊体内较高的脂肪含量，也直接使其成为 POPs 的“藏身之地”。

◆ 苏楠
北极作为没有任何工业污染区的白色世界曾被视作一片净土，但是随着对北极生态污染状况调查的不断深入，科学家们发现，北极动物如北极熊、海豹，以及当地土著居民因纽特人体内都已经含有一定浓度的 POPs，而且蓄集浓度很高。其实，除了从未使用过 POPs 的南北极地区外，地球北部的许多高山，如奥地利的阿尔卑斯山，我国喜马拉雅山顶也都已检测到高浓度的有机氯农药类 POPs。其中山间冰雪所含农药的浓度为山下农业区域的 10-100 倍。那么 POPs 是如何“远渡重洋”来到人迹罕至的北极和高山雪域，并且最终大量残留在北极熊等生物体内呢？

原由 Goldberg E. D. 最早提出的“全球蒸馏效应”，加拿大科学家 Wania F. 和 Mackay D. 成功地解释了 POPs 从热带地区向寒冷地区迁移的现象。从全球来看，由于温度的差异，地球就像一个蒸馏装置——在低、中纬度地区，由于温度相对高，POPs 挥发进入到大气；在寒冷地区，POPs 沉降下来，最终导致 POPs 从热带地区迁移到寒冷地区，也就

教你认识 POPs

国家环保总局 POPs 公约履约办 协办
清华大学 POPs 研究中心











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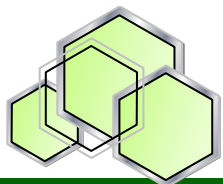
⑤ Public awareness raising

China POPs Network

-  'POPs News Center'
-  'POPs in China' on-line database
-  Download Service of POPs related materials
-  On-line Survey System on POPs
-  Directory Service of POPs related URLs
-  Registration System for 'POPs Forum'
-  POPs BBS
-  POPs Blog

– *More on www.china-pops.net*





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-  **2 Introduction of BCRC China**.....●
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Prospective

- **BCRC-China will make great efforts to**
 - ✚ To establish powerful technology transfer information platform
 - ✚ To demonstrate advanced technologies
 - ✚ To provide training, workshops, etc.
- For implementing both BC and SC**



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Projects Based SCRCs

● Current projects






- ✚ GEF-UNIDO project: Strengthening Institutions, Regulations and Enforcement Capacities for Effective and Efficient Implementation of the National Implementation Plan in China
- ✚ **Sino-Norwegian Cooperative Project on Capacity Building for Persistent Organic Pollutants in China**
- ✚ China Projects: BAT/BEP demonstration projects

● New proposals

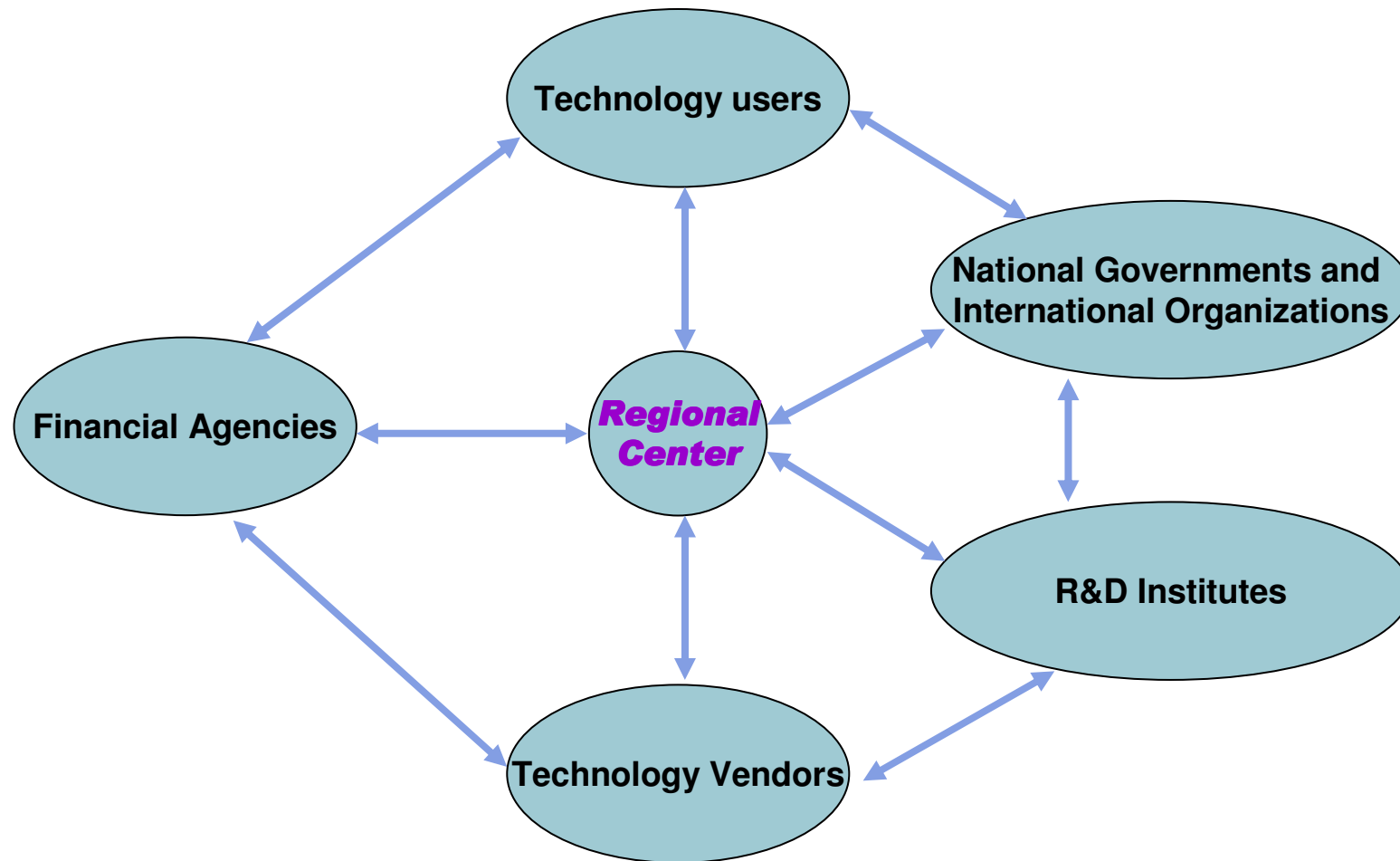
- ✚ Focus on disposal of PCBs, Pesticides wastes and reduction of PCDD/Fs
- ✚ Cooperated with UNIDO, UNEP, ADB, Academics, Industries, NGOs, etc.
- ✚ Get support from GEF and other financial sources



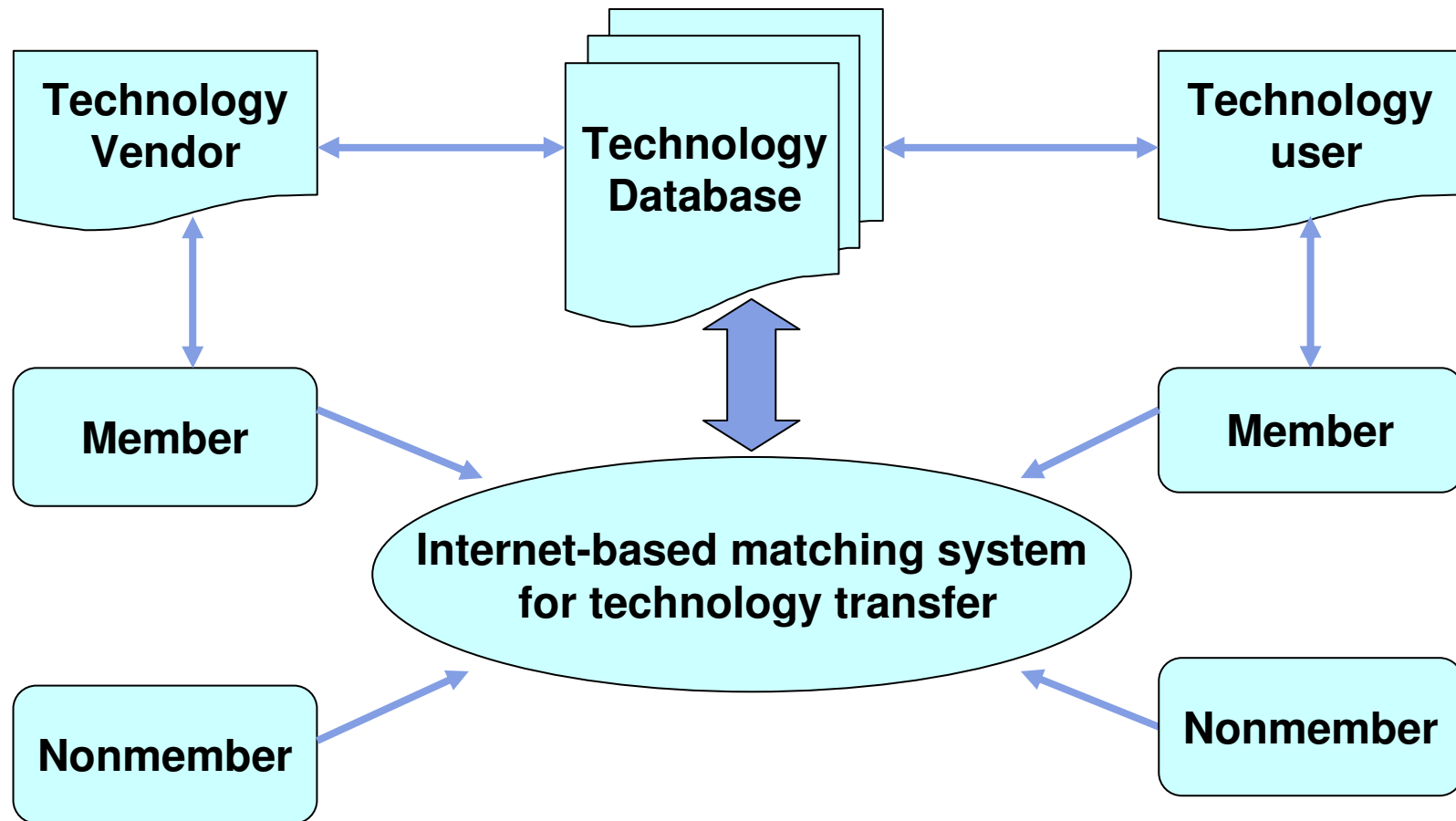
Activity5: Technology transfer

-  Establish an assistance-oriented **Technology Transfer Promotion Centre TTCP**
-  Enable the TTCP to work as a **technology information clearinghouse**
-  Provide enterprises with **assistance** in optimising the technical and engineering
-  Establish a technological **coordination and cooperation** platform
-  **Evaluate the barriers** in technology transfer and propose the instruments to remove the barriers

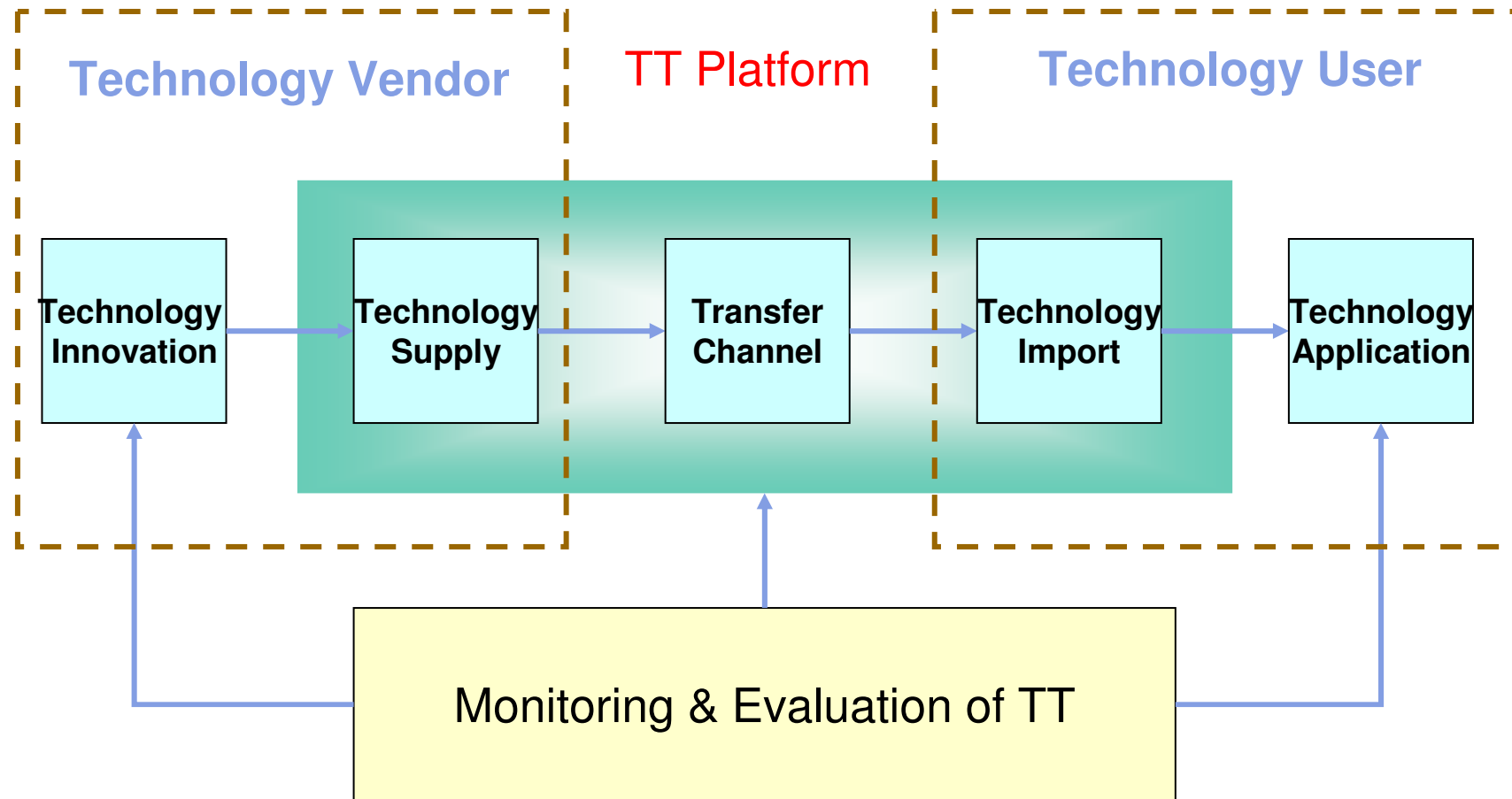
Technology transfer promotion



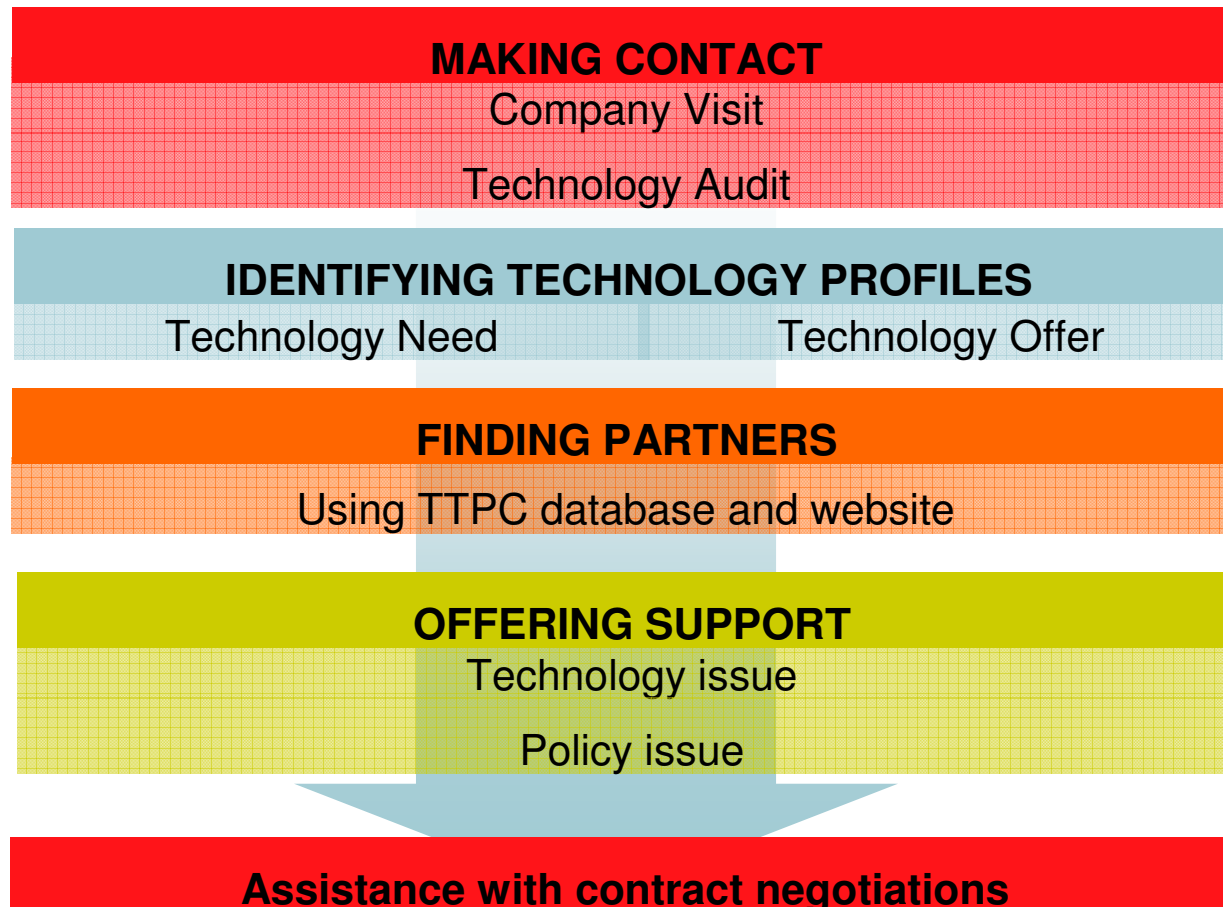
Technology transfer information system



Technology transfer promotion



Technology transfer promotion



Prospective

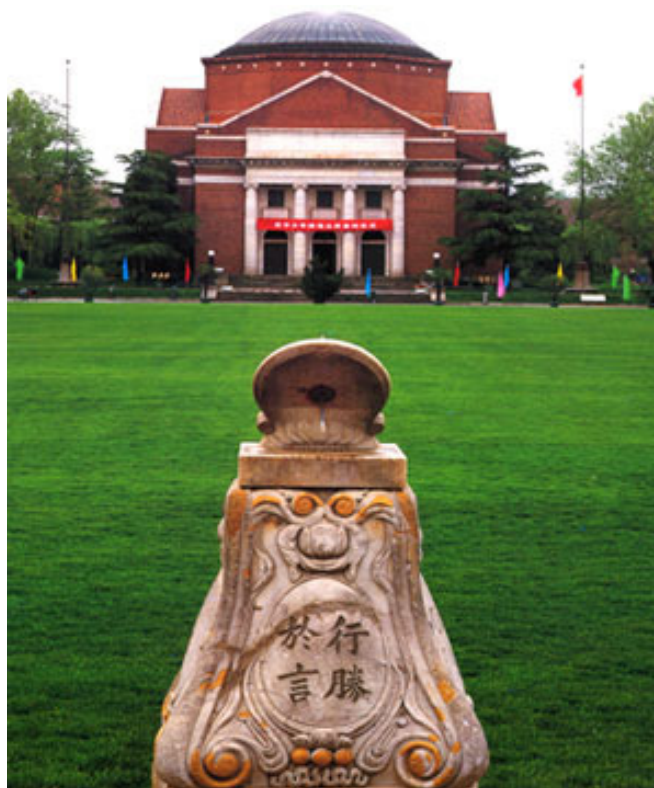
- BCRC-China welcome and appreciate
 - cost-effective **technologies**
 - **experts** with extensive experience
 - **information** exchange and experience share
 - bilateral **funding** as co-financing
 - various cooperation with the goal to
 - Reduce
 - Eliminate, and
 - Controlof POPs in Asia-Pacific region!



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Thanks for your attention!



<http://www.china-pops.net>



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