



## International Partnership Development For the International Master's Degree Program

### 国際修士プログラムのためのパートナーシップ

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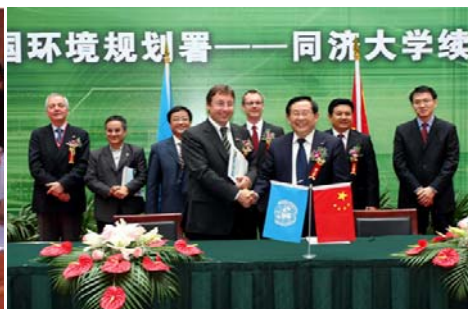
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## Introducing "IESD" - UNEP-Tongji Institute of Environment for Sustainable Development 国連環境計画—同済大学の持続可能な開発のため の環境研究所



Established on May 9, 2002

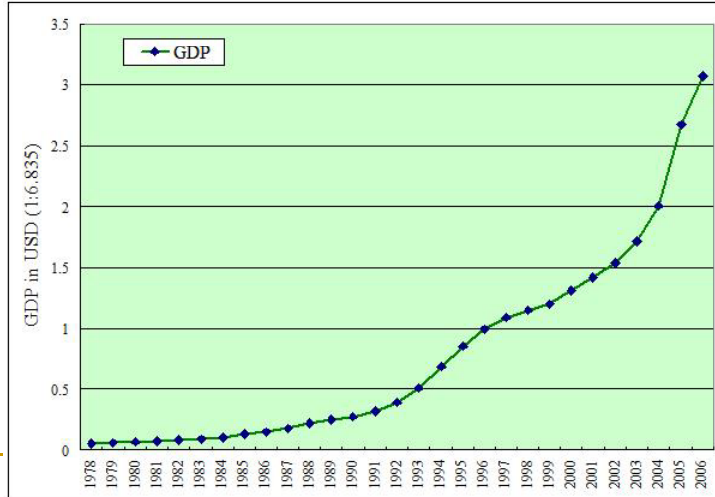


Agreement renewed on May 18, 2007

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## Experience and lessons learned in China 中国の経験と習得

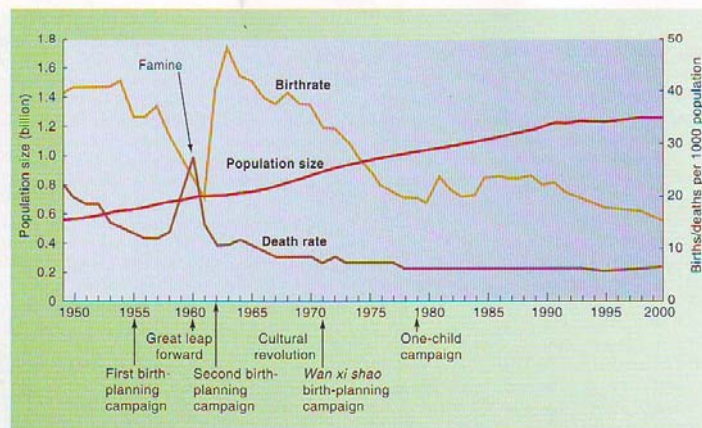
- China has made dramatic economic development from 1978:  
1978から、中国は、急激な経済発展を遂げた



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## Experience and lessons learned in China 中国の経験と習得

- But not too far back, Chinese were also suffering from hunger:  
一方で、つい最近まで、中国は食糧不足に悩まされていた。



**Figure 8.3 Population Changes in China** China has a long history of actively promoting population control. This graph shows the changes that have occurred in birthrates, death rates, and total population as a result of significant policy initiatives.

Source: Data from H. Yuan Tian, "China's Demographic Dilemmas," *Population Bulletin*, 1992; Population Reference Bureau, Inc., Washington, D.C., and National Family Planning Commission of China. And more recent data from the Population Reference Bureau.

## Experience and lessons learned in China

### 中国の経験と習得

- Limited resource, but severe environmental pollution:  
資源の限界と、深刻な環境公害問題
  - Chinese cities are often on the list of the world's most air polluted cities, severe acid rain because of coal burning and not enough desulfurization, severe haze pollution;
  - Most of the rivers passing through cities are severely polluted. Algae blooming in lakes due to eutrophication;
  - Solid waste is an urgent issue for large cities.
- Efforts have been made to combat environmental pollution:  
環境公害問題に対応するための取り組み
  - Institutional, SEPA to MoEP, laws and regulations...
  - Actions, examples: EIA to SEA, EIA storming, Ecocity development, green accounting...
  - “Energy saving and emission reduction” now is compulsory, quantified indicators for the evaluation of chief government officers...

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## Cooperation of IESD Tongji with Asia on education for sustainable development

### 持続可能な教育に関連した同済大学持続可能な開発のための環境研究所のアジアでの協力活動

- International Master's Degree Program in Environmental Management and Sustainable Development  
(環境管理と持続可能な発展に関する国際修士プログラム)
- Young Environment Leaders Program on Sustainable Development  
(持続可能な開発の為に若者向けの環境リーダープログラム)
- Sino-Germany-Africa PhD Candidate Summer School  
(中国、ドイツ、アフリカの博士課程学生向けサマースクール)
- Sino-Japan-Korea PhD Candidate Summer School  
(日中韓博士課程学生サマースクール)
- Cooperative research projects  
(共同研究プロジェクト)

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## Core courses (必修科目)

- Environmental ethics
- Environmental sociology
- Environmental Science
- Environmental economy and circular economy
- Framework and tools for sustainable development
- Environmental management and policy
  
- Chinese language
- Select two from:
  - Sustainable development of China
  - Chinese culture
  - Urban and township development in
  - Economy and management in China



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## Selective courses (選択科目)

- Global environmental challenges
- Climate change and adaptation
- Environmental ecology
- Project management in environmental engineering
- Environmental impact assessment
- Environmental information and decision supporting system
- Fundamentals of environmental engineering
- ...

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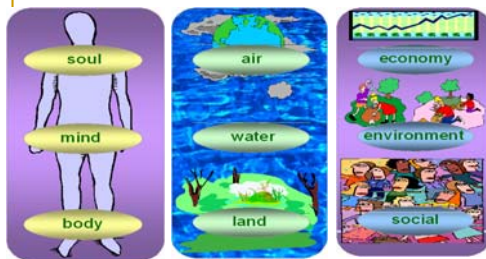


## Leadership Programs (リーダーシッププログラム)

- Asia-Pacific Leadership Programme of Environment for Sustainable Development (annually from 2004, 5 times already)  
(持続可能な開発のためのアジア太平洋環境リーダーシッププログラム:2005年より毎年開催)
- Leadership Programme for Small Island Developing States (May 2006)  
小島開発途上諸国のためのリーダーシッププログラム
- Young Environmentalist Programme for African Countries (May 2008)  
アフリカ諸国の環境業務担当者のプログラム
- HSBC Leadership Program on Urban Environment and Sustainable Development (twice a year, from 2006, 6times already)

HSBC都市環境と持続可能な開発リーダーシッププログラム

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4<sup>th</sup> 5<sup>th</sup> Leadership program  
Africa in environment and  
sustainable Development in  
Asia and Pacific

every year 500 applicants  
第4回、第5回リーダーシッププログラム  
アフリカの環境問題とアジア太平洋の持  
続可能な開発

毎年、500名以上の応募がある



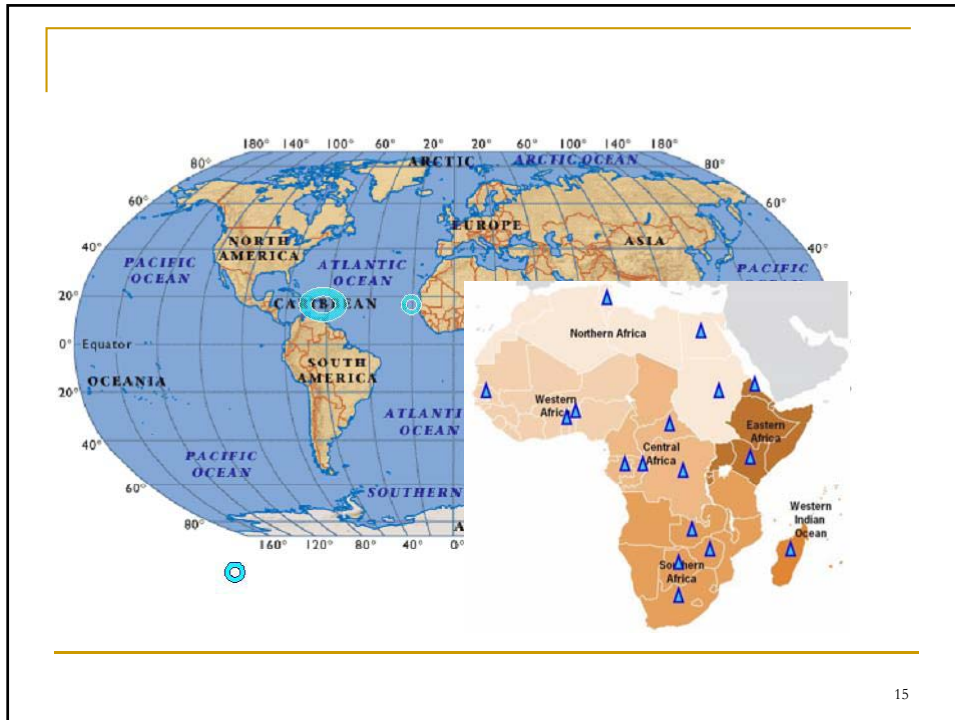


Leadership program  
Africa countries in  
the field of disaster  
prevention and SD  
アフリカ諸国のためのリーダ  
シッププログラム:防災と持  
続可能な開発



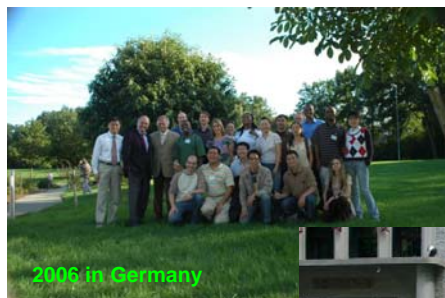
Cooperation with UNU AIT Nanyang, NSWU Griffith  
国連大学、アジア工科大学、南山大学、グリフィス大学との協力





## 2.4 Sino-Germany-Africa Summer School for PhD Candidates on Water Management

水管理学専攻の博士課程学生のための中国ードイツーアフリカサマースクール



2006 in Germany

2007 in Tongji



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## Conclusion

### 結論

- IESD is born for ESD and international cooperation, also for cooperation with universities, for the low carbon society.

低炭素社会構築に貢献すべく、持続可能な開発のための環境研究所は、持続可能な開発のための教育、国際協力の推進、大学間連携を目的として設立された。

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