



“中国自然资本核算与生态系统服务估价”

项目概况

Outlines of

Natural Capital Accounting and Valuation of
Ecosystem Services Project in China

国家统计局国民经济核算司

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一、项目背景

- 2016年10月，联合国统计司、联合国环境署、生物多样性公约秘书处及欧盟共同启动了自然资本核算和生态系统服务估价项目。该项目为期三年，由欧盟出资，由联合国统计司和联合国环境署牵头，在中国、巴西、印度、墨西哥及南非五个试点国家开展。项目的目的要在试点国家推进环境和生态系统核算知识的传播，进行实验性生态系统核算、生态系统估价和宏观经济分析的测试工作，以加强其在自然生物资源、生态系统及其服务方面的管理，使生物资源、生态系统及其服务在国家政策的制定和实施中占有一席之地。



Background

- In Oct 2016, UNSD, UNEP, CBD and EU initiated NCAVES. The project lasted for 3 years, funded by EU , led by UNSD and UNEP, and implemented in China, Brazil, India, Mexico and South Africa.
- This Project aims at assisting China to advance the knowledge agenda on environmental and ecosystem accounting, initiate pilot testing of the SEEA Experimental Ecosystem Accounting (SEEA-EEA), ecosystem valuation and macro-economic analysis, with a view to improving the management of natural biotic resources, ecosystems and their services at the national level and mainstreaming biodiversity and ecosystems in national level policy-planning and implementation.



二、项目主要内容

- 一是在联合国项目团队指导下，在广西壮族自治区和贵州省开展生态系统服务的实物量和价值量核算试点工作；二是结合我国正在开展的自然资源资产负债表工作，对从国家层面探索编制实物量和价值量自然资源资产负债表提供技术支持；三是参与此项目的国务院有关部委根据工作需要，可以自行开展项目确定的两地区之外的生态系统服务估价研究。



Main Contents

- Firstly, under the guidance of UN project team, pilot accounting of ecosystem services in physical and monetary terms has been conducted in Guangxi and Guizhou . Secondly, the project has provided technical support to the accounting of physical and monetary Natural Resources Balance Sheet (NRBS), at national level. Thirdly, participating ministries can advance research on ecosystem services valuation according to their needs.



三、项目主要目标

- 一是增强中国国家统计局和其他相关部门自然资源资产负债表编制能力，解决技术难题，提高自然资源资产负债表数据质量；二是协助制定广西和贵州生态系统服务估价方法，进一步提高核算结果科学性和合理性；三是测试《2012环境经济核算体系---试验性生态系统核算》框架的科学性和有效性，并为其后续修订贡献中国的最佳实践和经验；四是测试所提出的包括可持续发展目标（SDG）指标在内的与生态系统相关的指标及其与经济之间的关系



Main Objectives

- Firstly, strengthen the capacity of NBS and other relevant departments to compile NRBS, solve technical problems and improve the data quality of NRBS. Secondly, assist in the construction of valuation methodology for ecosystem services in Guangxi and Guizhou, and further improve their scientific and rational results. Thirdly, carry out scientific and effective test of the framework of The SEEA-EEA, and contribute China's best practices and experience to its subsequent revision. Fourthly, carry out the test of the related indicators of the ecosystem including the sustainable development goals (SDG) and their relationship with the economy.



四、项目实施情况

- 2017年10月31日至11月3日，我局与联合国、欧盟在京共同举办中国“自然资本核算和生态系统服务估价”项目启动会，会议决定成立项目国家指导委员会，并制定项目实施国家计划。2017年11月6-8日，国家统计局还在北京举办了生态系统核算国际培训班，并邀请联合国有关专家授课。



Implementations

- From Oct 31 to Nov 3 2017, inception meeting on NCAVES project was held by NBS, UN and EU in Beijing, and project steering committee and project implementation plan were formulated accordingly. From Nov 6 to 8 2017, NBS held ecosystem accounting international workshop in Beijing, inviting UN experts as lecturers.



四、项目实施情况

- 2018年5月21日至25日，联合国统计司环境经济核算处统计师周健英先生率项目评估团一行4人走访了广西和贵州两省，旨在帮助设计有关试点方案和解决有关技术问题。5月28日，在北京组织召开了小规模技术专家会议，旨在对中国实物量自然资源资产负债表编制过程中遇到的共性问题 and 生态系统服务价值核算问题进行深入研讨，并提出解决问题的思路和办法，同时介绍评估团在两地考察调研的成果。



Implementation

- From May 21 to 25, 2018, the project team and international consultants led by Mr. Julian Chow visited the two pilot provinces - Guangxi and Guizhou to address technical issues and discuss the initial programme of work to compile their ecosystem accounts using the SEEA EEA approach. On May 28, a small technical meeting was held in Beijing to discuss the common problems found in the pilot compilation of NRBS, address methodological questions related to the compilation of the NRBS and ecosystem accounts and introduce the findings of the project team visiting the two pilot provinces.



四、项目实施情况

- 2019年3月，联合国统计司项目负责人布拉姆·伊登斯先生率项目评估团一行4人再次赴广西和贵州进行实地考察，了解试点地区开展生态系统服务核算工作进展情况，指导解决项目进展中遇到的技术问题，并在北京召开项目相关方会议，交流自然资本核算与生态系统服务估价领域的最新研究成果，有序推进项目开展。



Implementation

- In March 2019, the project assessment team led by NCAVES project manager Mr. Bram Edens visited Guangxi and Guizhou again, aimed to follow up on the progress in ecosystem services accounting and to address the technical problems. A meeting was held in Beijing to advance the project implementation, with the latest research developments being exchanged on natural capital accounting and ecosystem services valuation.



五、项目实施取得的成果

- 一是初步完成了我国主要自然资源资产估价方法的研究。二是在环境经济核算体系（SEEA）框架下，针对广西和贵州两个试点省份各编制出一套涵盖生态系统范围、状况和服务的生态系统试点账户。此外，广西还利用SEEA框架下的情景分析法，开展了对西江流域的生态补偿政策的评估研究。三是在广西测试了所建议的包括可持续发展目标（SDG）指标在内的与生态系统相关的指标及其与经济之间的关系。四是项目相关方已完成反映本项目成果的最终总结报告。



Achievements

- Firstly, a tentative research on the valuations methods for key natural resources assets has been completed. Secondly, under the framework of SEEA, Guangxi and Guizhou separately compiled its ecosystem pilot accounts, covering the extent, condition and services of ecosystem. Further, Guangxi completed Scenario-based analysis of ecological compensation standards for the Xijiang river basin. Thirdly, the relationships between economy and SDG and ecosystem related indicators has been tested in Guangxi. Fourthly, the final report reflecting the achievements has been drafted.



六、下一步工作设想

- 组织翻译和出版（经联合国授权）联合国等国际组织制定的《环境经济核算体系--生态系统核算》。
- 国家统计局将基于最新的SEEA EA国际统计标准、自然资本核算与生态系统服务估价项目的经验以及中国在生态系统服务评估和自然资本核算方面正在进行的其他工作，探索编制全国生态系统账户，特别是制定全国统一规范的生态产品价值量核算制度。
- 国家统计局还将探索自然资源负债的概念，完善主要自然资源资产的估值方法，以探索编制价值量自然资源资产负债表。



Next Step

- Organizing to translate and publish (authorized by UN) the SEEA-EA
- NBS will explore to compile national ecosystem accounts, especially work out the unified accounting system for the valuation of ecosystem products, based on the latest SEEA-EA , NCAVES experiences and other related work.
- NBS will also investigate the concepts of natural resource liabilities, and improve the valuation methods for key natural resource assets in order to compile the NRBS in monetary terms.



谢谢!
Thanks!