

AGRI-COCOON
農学における情報利用研究フォーラムグループ

第1回勉強会
「地球観測サミットから学内連携研究機構(EDITORIA)まで」
小池俊雄 工学系研究科社会基盤学専攻

1. 自己紹介
2. 「GEOSS10年実施計画」と「地球観測の推進戦略」
3. GEOSSプロトタイプとしてのCEOP
4. 地球観測連携研究機構(EDITORIA)



Earth Observation Summit I

DECLARATION

Affirmed need for:

- Comprehensive, coordinated, sustained Global Earth Observations
- Capacity-building related to Earth observations
- Exchange of observations in a full and open manner
- A 10-year Implementation Plan

The ad hoc Group on Earth Observations (ad-hoc GEO)

U.S. Department of State, Washington DC
July 31, 2003

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Earth Observation Summit II

Earth Observation Summit II

Framework Document

- Nine specific areas of socio-economic benefit; Disasters, Health, Energy, Climate, Water, Weather, Ecosystems, Agriculture and Desertification, Biodiversity
- The Global Earth Observation System of Systems (GEOSS)
- A 10-Year Implementation Plan;

The Implementation Planning Task Team (IPTT)

Hotel Okura, Tokyo, Japan
April 25, 2004

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分野間の相互協力による公共的利益の創出

A SYSTEM OF SYSTEMS

GEOSS は9つの公共的利益分野に貢献

1. 災害の軽減と予防
2. 健康問題
3. エネルギー
4. 気候変化
5. 水の管理
6. 気象予報
7. 生態系
8. 農業と森林破壊
9. 生物多様性



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Earth Observation Summit II

Earth Observation Summit II

Framework Document

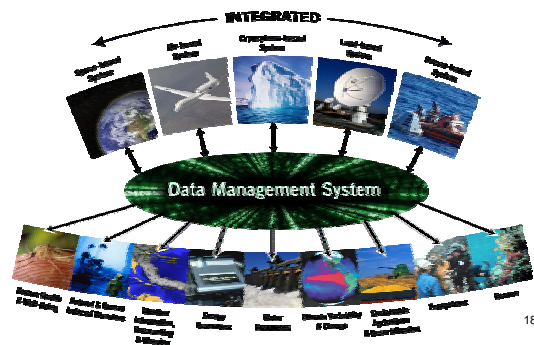
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複数システムからなる全球地球観測システム
Global Earth Observation System of Systems
(GEOSS)



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Earth Observation Summit II



Framework Document

- Nine specific areas of socio-economic benefit; Disasters, Health, Energy, Climate, Water, Weather, Ecosystems, Agriculture and Desertification, Biodiversity
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Earth Observation Summit III

Summit Resolution

- Endorsed the GEOSS 10-Year Implementation Plan
- Noted with appreciation the extensive supporting material in its companion Reference Document
- Established formally the Group on Earth Observations (GEO)
- Issued special communiqué relating to support for tsunami and multi-hazard warning systems with the context of the Global Earth Observations System of Systems (GEOSS)

Palais d'Egmont, Brussels, Belgium
February 16, 2005


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GEO and GEOSS

- **GEO is an Intergovernmental Initiative**
 - 60 Nations
 - European Commission
 - 43 Participating Organizations
- **With a Single Objective: GEOSS**
 - To establish a global, coordinated, comprehensive and sustained system of Earth observing systems

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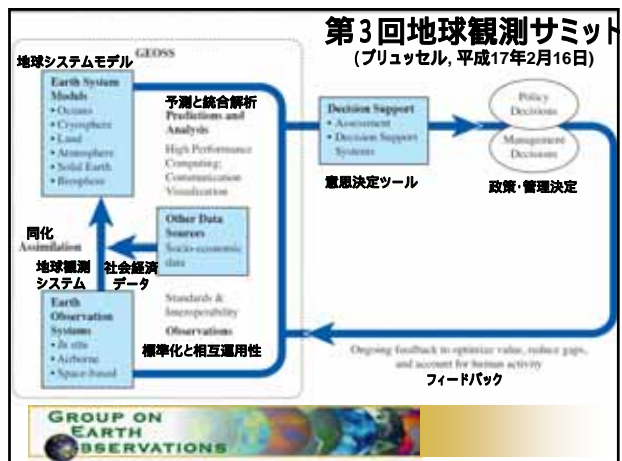


The 10-Year Implementation Plan

Vision for GEOSS

The vision for GEOSS is to realize a future wherein decisions and actions for the benefit of humankind are informed by coordinated, comprehensive and sustained Earth observations and information.

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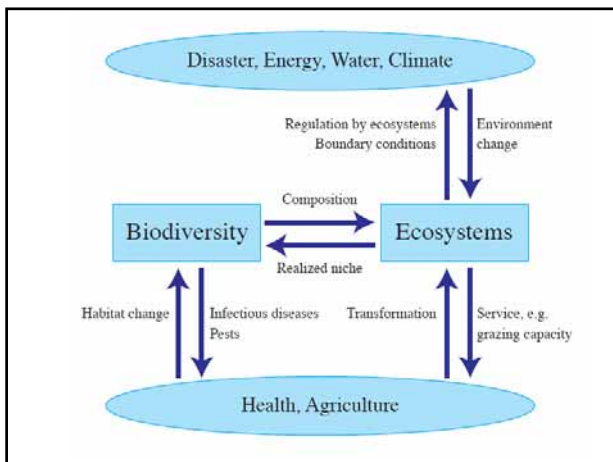
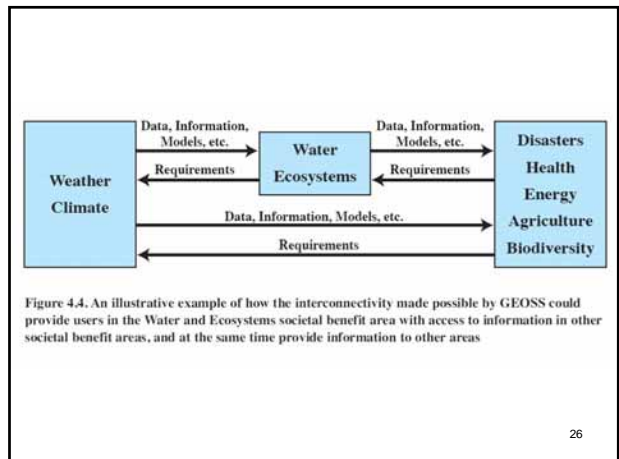
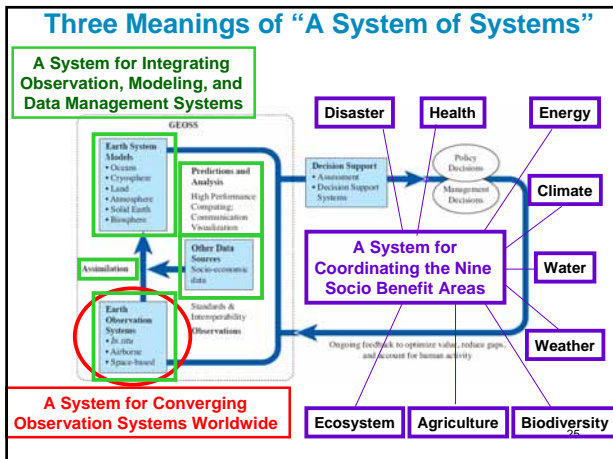
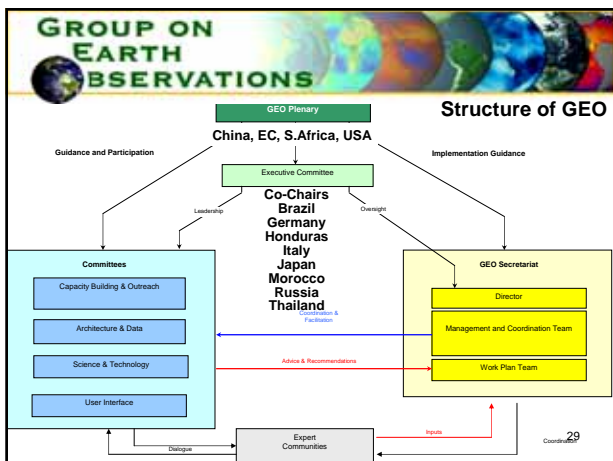


Table 4.1: An illustrative example of how the interconnectivity made possible by GEOSS could provide users in the Water and Ecosystems societal benefit area with access to information in other social benefit areas, and at the same time provide information to other areas

Examples of Information Provided to these Societal Benefit Areas

Societal Benefit Area	Disasters	Health	Energy	Climate	Water	Ecosystems	Agriculture	Biodiversity
Disasters	Information on hazards, vulnerability, and risk assessment	Information on health impacts of disasters	Information on energy infrastructure vulnerability	Information on climate change impacts	Information on water resources and infrastructure	Information on ecosystem services and infrastructure	Information on agricultural infrastructure	Information on biodiversity impacts
Health	Information on health impacts of disasters	Information on health impacts of climate change	Information on health impacts of energy infrastructure	Information on health impacts of water resources	Information on health impacts of ecosystems	Information on health impacts of agriculture	Information on health impacts of biodiversity	Information on health impacts of ecosystems
Energy	Information on energy infrastructure vulnerability	Information on energy infrastructure health impacts	Information on energy infrastructure climate change impacts	Information on energy infrastructure water resources	Information on energy infrastructure ecosystems	Information on energy infrastructure agriculture	Information on energy infrastructure biodiversity	Information on energy infrastructure ecosystems
Climate	Information on climate change impacts	Information on climate change health impacts	Information on climate change energy infrastructure impacts	Information on climate change water resources impacts	Information on climate change ecosystems impacts	Information on climate change agriculture impacts	Information on climate change biodiversity impacts	Information on climate change ecosystems impacts
Water	Information on water resources and infrastructure	Information on water resources health impacts	Information on water resources energy infrastructure impacts	Information on water resources climate change impacts	Information on water resources ecosystems impacts	Information on water resources agriculture impacts	Information on water resources biodiversity impacts	Information on water resources ecosystems impacts
Ecosystems	Information on ecosystem services and infrastructure	Information on ecosystem services health impacts	Information on ecosystem services energy infrastructure impacts	Information on ecosystem services water resources impacts	Information on ecosystem services climate change impacts	Information on ecosystem services agriculture impacts	Information on ecosystem services biodiversity impacts	Information on ecosystem services ecosystems impacts
Agriculture	Information on agricultural infrastructure	Information on agricultural infrastructure health impacts	Information on agricultural infrastructure energy infrastructure impacts	Information on agricultural infrastructure water resources impacts	Information on agricultural infrastructure ecosystems impacts	Information on agricultural infrastructure climate change impacts	Information on agricultural infrastructure biodiversity impacts	Information on agricultural infrastructure ecosystems impacts
Biodiversity	Information on biodiversity impacts	Information on biodiversity health impacts	Information on biodiversity energy infrastructure impacts	Information on biodiversity water resources impacts	Information on biodiversity ecosystems impacts	Information on biodiversity agriculture impacts	Information on biodiversity climate change impacts	Information on biodiversity ecosystems impacts



地球観測の推進戦略

(第42回総合科学技術会議決定 平成16年12月27日)

【推進戦略】

- 地球観測に関する総合的な推進戦略を策定し、関係機関・関係機関との連携を強化し、地球観測の推進を図る。
- 地球観測に関する総合的な推進戦略を策定し、関係機関・関係機関との連携を強化し、地球観測の推進を図る。

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