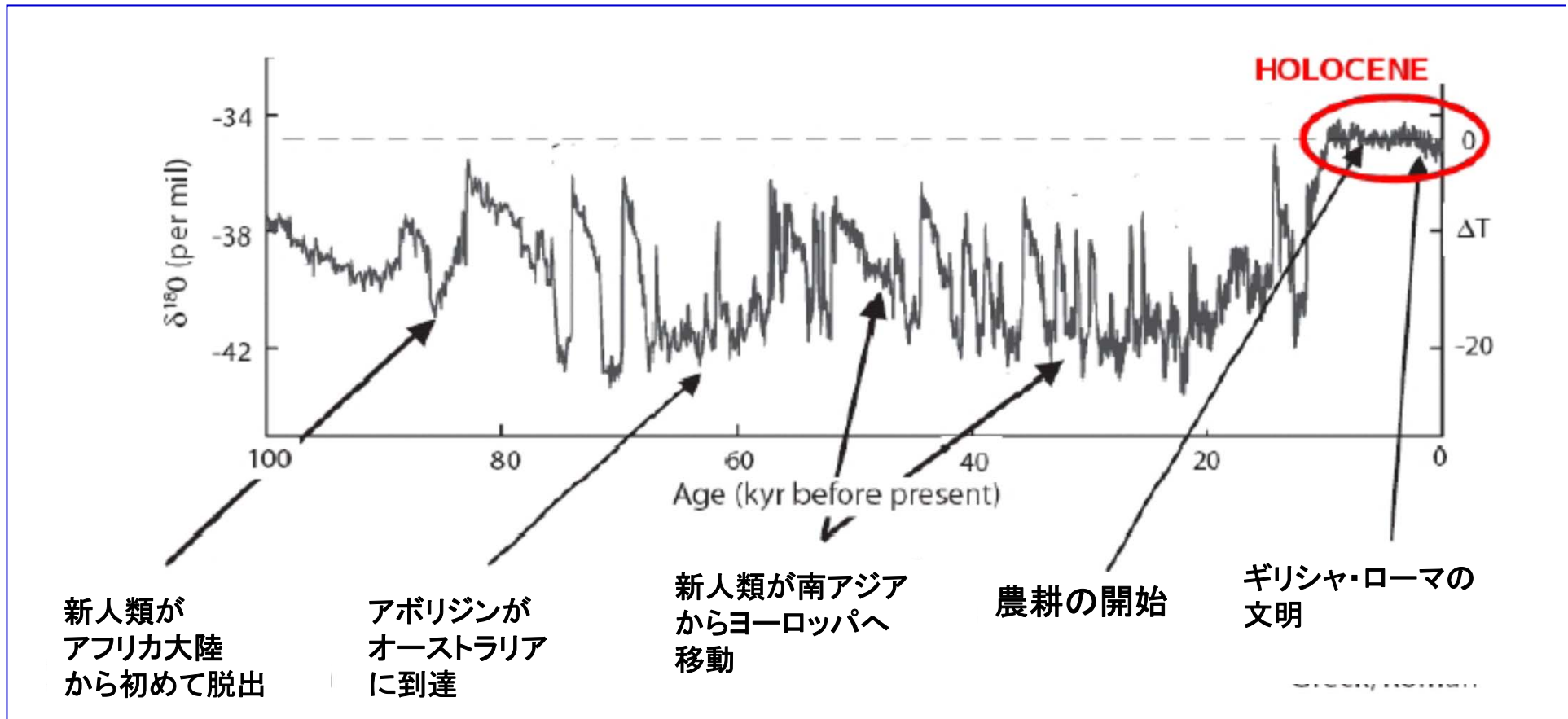


Future Earth の背景



私たちの生きている時代(完新世)は、それまでの100万年以上続いた寒冷で大変動する氷河期に比べ、非常に温暖で安定した気候の時代⇒ 農耕が可能 ⇒都市文明 (水の利用増大)

Planetary Boundaries (地球の限界)

Exploring the Safe
Operating Space
for Humanity



Prof. Johan
Rockström
Stockholm Resilience
Centre

Stockholm Resilience Centre
Research for Governance of Social-Ecological Systems

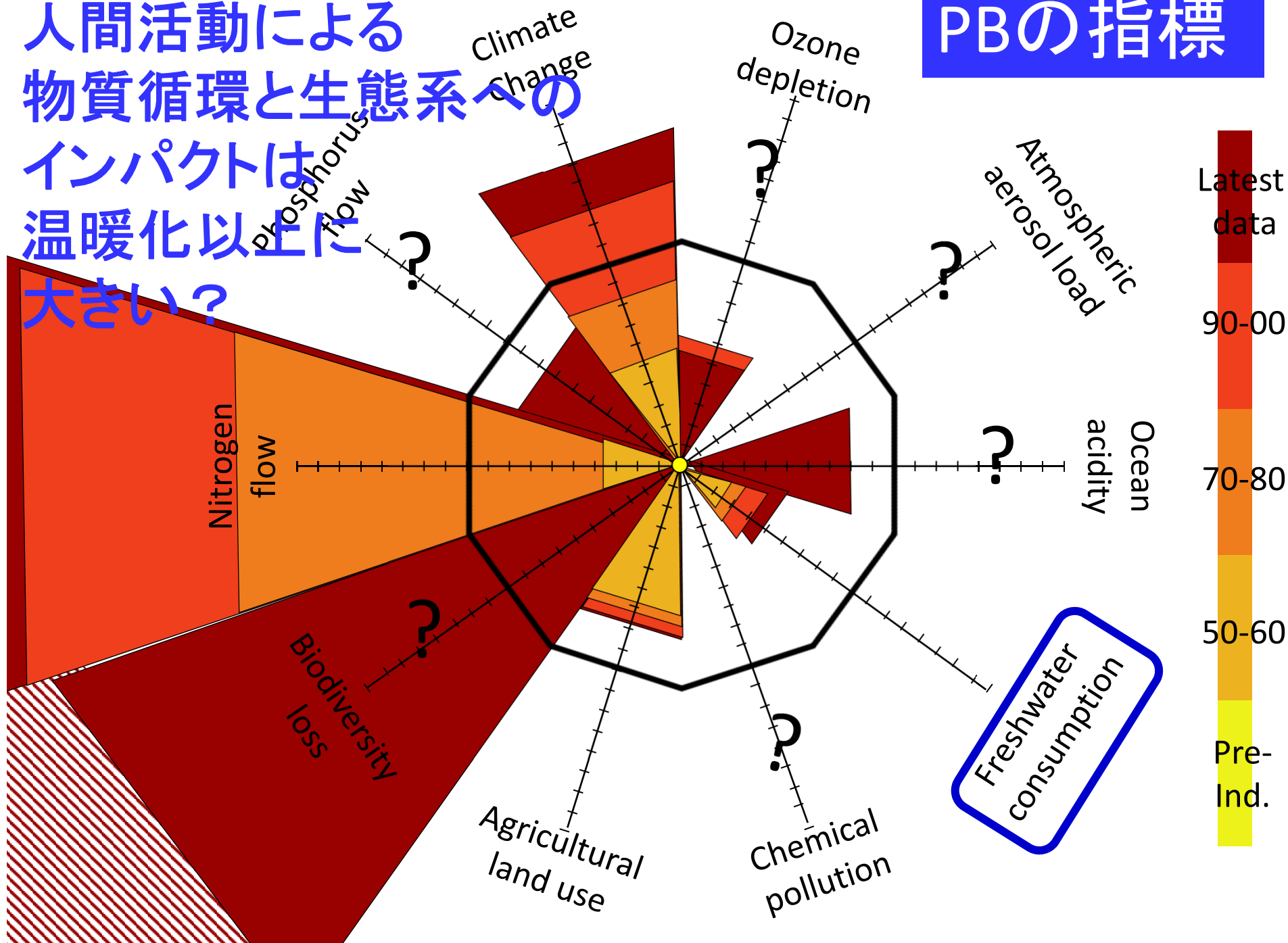


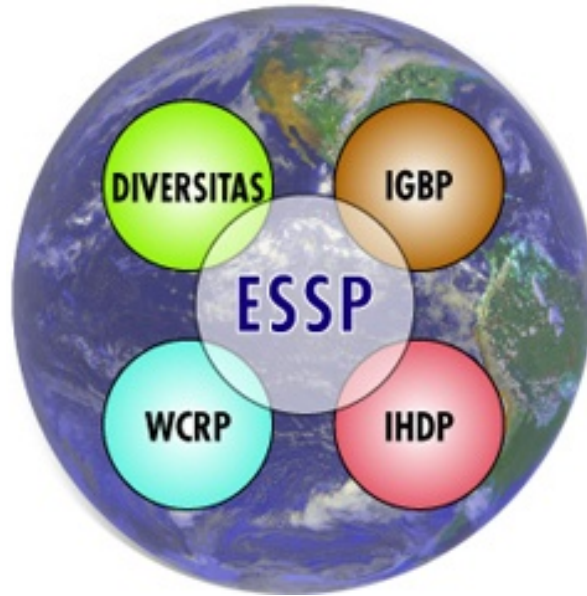
A centre with:



人間活動による
物質循環と生態系への
インパクトは
温暖化以上に
大きい？

PBの指標





地球環境科学における 国際協同研究プログラム

WCRP: World Climate Research Programme (1980 -)

世界気候研究計画

IGBP: International Geosphere-Biosphere Programme(1987-)

地球圏生物圏国際協同研究計画

IHDP: International Human Dimensions Programme

地球環境変化の人的側面に関する国際研究計画

DIVERSITAS: International Programme of Biodiversity Science

生物多様性科学国際協同研究計画

ESSP: Earth System Science Partnership

地球システム科学パートナーシップ



Future Earth

research for global sustainability



A new 10-year international research initiative

Future Earth will develop the knowledge for responding effectively to the risks and opportunities of global environmental change and for supporting transformation towards global sustainability. Future Earth will mobilize thousands of scientists while strengthening partnerships with policy-makers and other stakeholders to provide sustainability options and solutions in the wake of Rio+20.

A unique Alliance for Future Earth

Future Earth is being established by a partnership for global sustainability including researchers, funders and users of knowledge. The Alliance currently comprises:

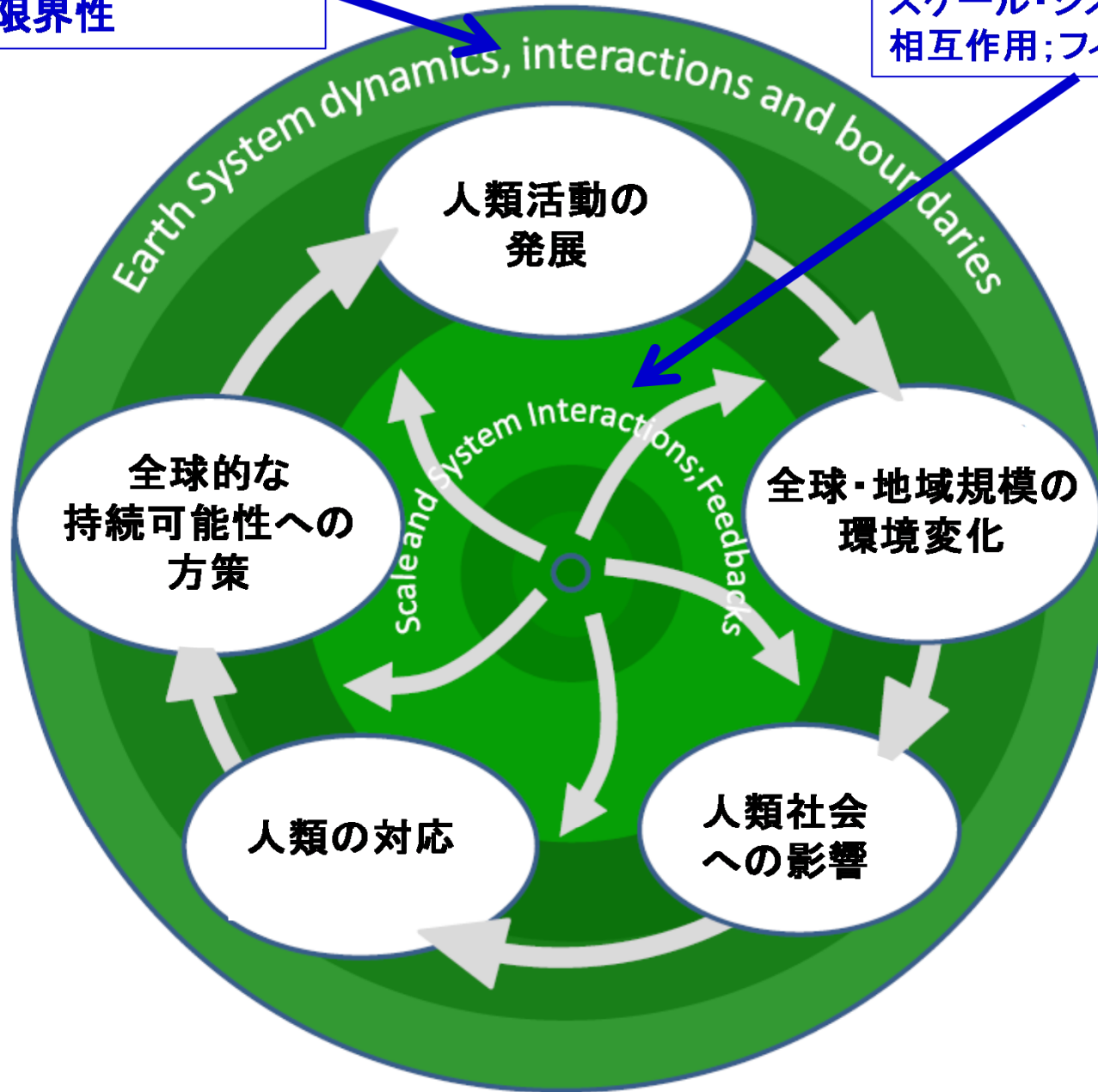
- International Council for Science (ICSU)
- International Social Science Council (ISSC)
- Belmont Forum (a high level group of major research funders)
- UN Educational Scientific Cultural Organization (UNESCO)
- UN Environment Programme (UNEP)
- UN University (UNU)
- World Meteorological Organization (WMO) as an observer

Future Earth will be a global platform to deliver:

- Solution-orientated research for sustainability, linking
持続可能性のための問題解決型の研究 ges to
satisfy human needs for food, water, energy, health,
- Effective interdisciplinary collaboration across natural and
文・理・工・農などの連携・融合による研究 ology
multi-
faceted problems;
- Timely information for policy-makers by generating the
政策立案者のためにタイムリーな情報を提供 d
generating greater consistency,
- Participation of policy-makers, funders, academics, business
**研究計画に、研究者だけでなく、政策立案者、経済関係者
などの社会の他のステークホルダーも参加**
- Increased capacity building in science, technology and
発展途上国や若い世代の研究者の能力強化 d
engagement of a new generation of scientists.

地球システムのダイナミクス、相互作用と限界性

スケール・システム間相互作用; フィードバック



The focus of the conference is:

to address the global dimensions of water system changes due to anthropogenic as well as natural influences.

The conference will provide:

the platform to present global and regional perspectives of world wide experiences on the responses of water management to global change in order to address issues such as variability in supply, increasing demands for water, environmental flows, and land use change.

It will help:

to build links between science and policy and practice in the area of water resources management and governance, related institutional and technological innovations and identify in which ways research can assist policy and practice in the field of sustainable freshwater management.