





Future Earth - Challenges for Actions for Transformation

Fumiko KASUGA

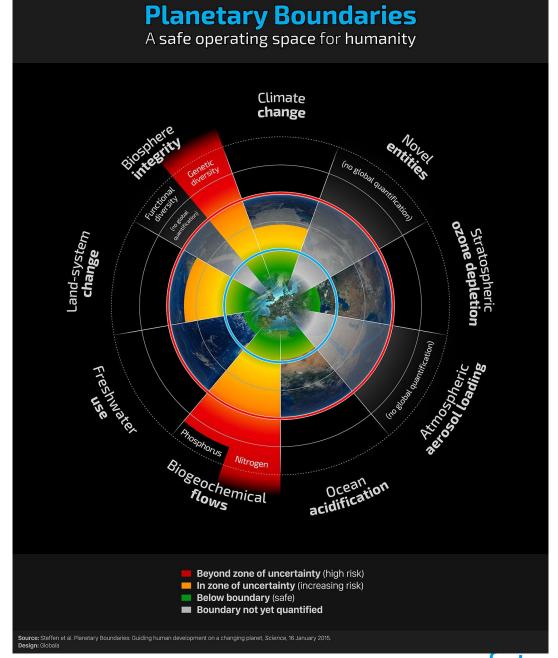
Senior Fellow, National Institute for Environmental Studies

Global Hub Director – Japan, Future Earth Secretariat

Visiting Professor, The University of Tokyo, IR3S

Planetary Boundaries:

- Climate Change
- Novel Entities
- Stratospheric
 Ozone depletion
- Atmospheric aerosol loading
- Ocean acidification
- Biogeochemical Flows
- Freshwater use
- Land-system change
- Biosphere Integrity

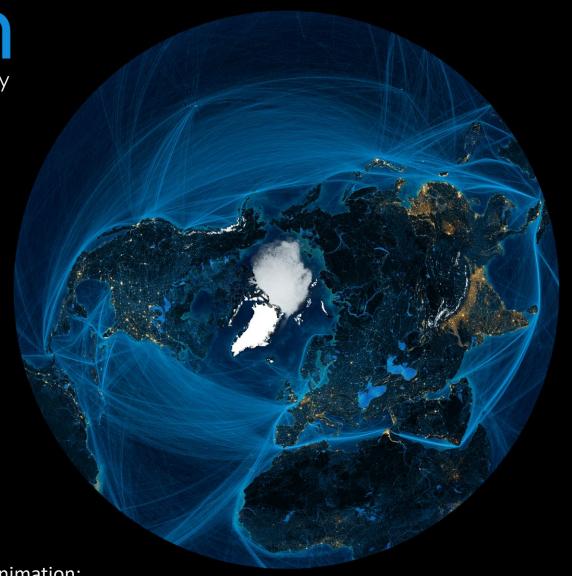






Future Earth characteristics:

- Research informing solutions
- Interdisciplinarity
- Stakeholder engagement



Picture from the animation:

"Welcome to the Anthropocene"

futurearth research for global sustainability

Facilitating networking

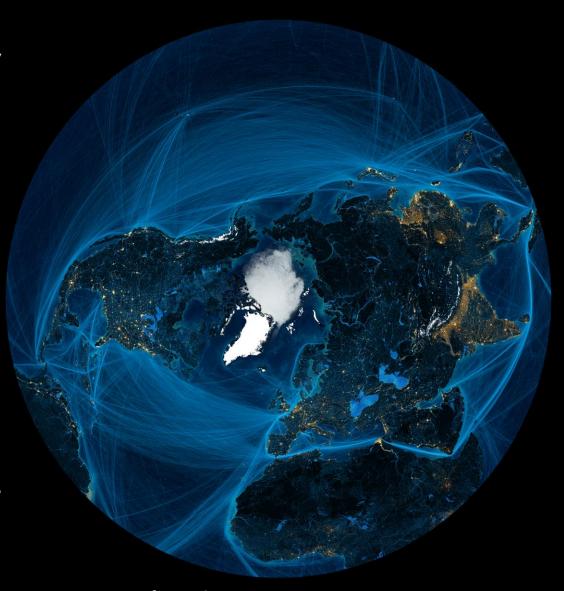
Synthesizing activities

Creating innovation

- Communication
- Capacity building

Recognizing single discipline or science alone cannot solve environmental and societal problems

Research programme



Picture from the animation: "Welcome to the Anthropocene"

Global Research Projects



































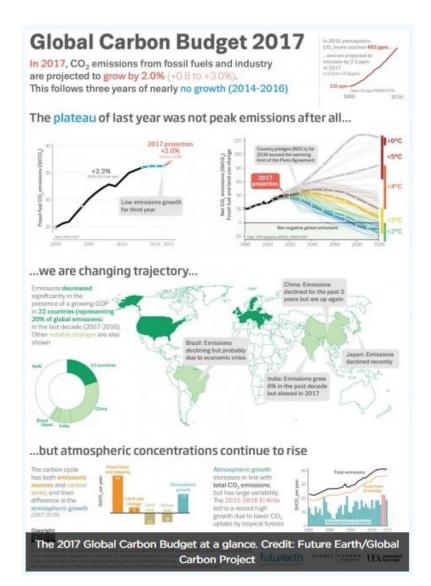




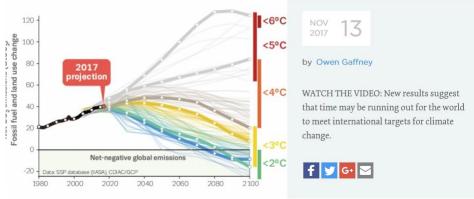


Future Earth at COP23





Global carbon dioxide emissions projected to rise after three stable years





HOME ▶ WHO WE ARE ▶ GLOBAL RESEARCH PROJECTS

MAIRS-FE — Monsoon Asia Integrated Research on Sustainability - Future Earth



Future Earth Regional Activity in Asia

L+63 2 433 3689



SIMSEA Sustainability Initiative in the Marginal Seas of South and East Asia

ICSU REGIONAL OFFICE FOR ASIA AND THE PACIFIC

In collaboration with

The Marine Science Institute
University of the Philippines, Diliman
Japan Agency for Marine-Earth Science and Technology (JAMSTEC)

HOME PARTNERSHIP RESEARCH SCIENCE STEERING COMMITTEE NEWS & EVENTS CONTACT US



Sustainability Initiative in the Marginal Seas of South and East Asia (SIMSEA)

A project developed in Asia to meet the requirement for transformative change towards global sustainability ABOUT US NEWS EVENTS RESEARCH PRODUCTS GET INVOLVED OPEN NETWORK



Future Earth/Earth League

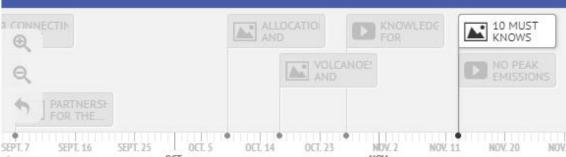
The period of 2016-2017 saw a number of significant climate-related events around the world.

NOVEMBER 13, 2017

10 MUST KNOWS

What are the 10 things all leaders should know when crafting policies on climate change? That question was the focus of a statement released by Future Earth and the Earth League at this year's United Nations climate negotiations, or COP23. Check out a full list of our resources from this conference in Bonn, Germany and read a reflection from Future Earth's Kaela Slavik.





♦ SEPT. 7 SEPT. 16 SEPT. 25 OCT. 5 OCT. 14 OCT. 23 NOV. 2 NOV. 11 NOV. 20 NOV. 29 DEC. 9 DEC. 18 DEC. 27 JAN. 6 JAN. 15 ♦ Timeline JS OCT. JAN. 6 JAN. 15

Future Earth and the Secretariat of the Convention on **Biological Diversity** agreed to strengthen collaboration, and **Future Farth** contributed to the 21st meeting of the Subsidiary Body on Scientific, Technical and Technological Advice of the CBD December, 2017, Montreal



The international research organisations will join forces to catalyse new research to inform evidence-based policy focusing on the world's biodiversity.

Today, Future Earth and the Secretariat of the Convention on Biological Diversity (CBD) agreed to strengthen their collaboration around a number of key areas. The two organisations signed the new agreement at the 21st meeting of the Subsidiary Body on Scientific, Technical, and Technological Advice (SBSTTA), which runs from 11 to 14 December in Montreal.

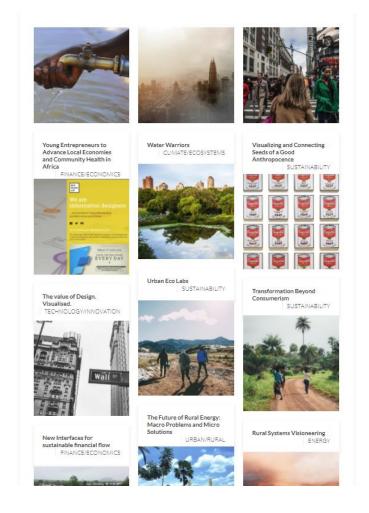
Future Earth had a large presence at this meeting in Montreal, which featured discussions on cities and biodiversity, wild meat and more.

Future Earth representatives recently attended the 21st meeting of the Subsidiary Body on Scientific, Technical and Technological Advice (SBSTTA-21) of the Convention on Biological Diversity (CBD), convened from 11 to 14 December 2017 at the Palais des Congrès in Montreal, Canada. SBSTTA is an open-ended, intergovernmental scientific advisory body that provides the Conference of the Parties (COP) with advice around the implementation of the convention. This meeting brought together civil society groups, technical experts and government officials from around the world.

Montreal's Palais des Congrès was the site of a rece<mark>nt scientific</mark> meeting on biodiversity. Photo: Jamie McCaffrey

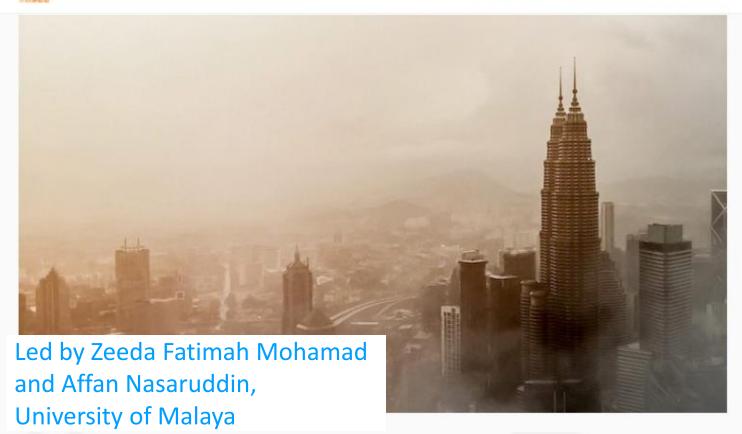
7th International Conference on Sustainability Science (ICSS 2017)















Heartware approach

Water Warriors

BACKGROUND

Water Warriors is a Living Lab initiative currently coordinated by a group of action researchers based at the University of Malaya, Kuala Lumpur, Malaysia. We apply the "heartware" approach to support transformation at two river basin communities: one, the University of Malaya campus community located at the Klang River basin within the capital city of Kuala Lumpur (urban) and two, the District of efromthesky-118580-e1491199496203.jpg ngor River basin at the State of Selangor (rural) in Malaysia.



Institution/Organization University of Malaya, Malaysia

Place Malaysia

Lab project lead

1. Zeeda Fatimah Mohamad, University of Malaya 2. Affan Nasaruddin, University of









































Piko Taro & MOFA(SDGs)~PPAP~ Mofachannel

PPAP (Pen Pineapple Apple Pen)

or

PPAP (Public Private Action for Partnership)





1st Japan SDGs Award, Dec. 26, 2017 Best winner: Shimokawa-cho Town, Hokkaido (small town with biomass energy use)

第2回 イオン未来の地球フォーラム

いま次世代と 語りたい未来のこと

一持続可能な消費と生産-

2nd AEON Future Earth Forum Generations in Dialogue: Sustainable Consumption and Production



2018年1月20日 | 土 |

13:00-17:00 (12:00開場)

場所:東京大学 安田講堂 (本郷キャンパス内)

参加無料 対話型パネルディスカッションあり

言語:日本語





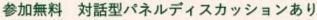




第2回 イオン未来の地球フォーラム

いま次世代と





言語:日本語

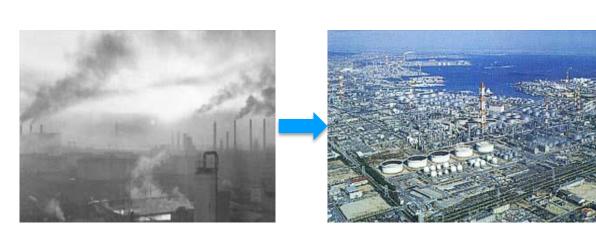






Asia: frontier of both global issues and opportunities for solutions

- Rich in diversity in the nature and in human society (history, culture, demography, population, urbanization, economy, etc.)
- Affected by various natural disasters and social problems
 all global challenges
- Opportunities overcoming problems, new development sustainable





Yokkaichi (Japan) about 50 years ago

Yokkaichi City now

Bandung City Command Center from https://portal.bandung.go.id/

Regional Centers and Offices

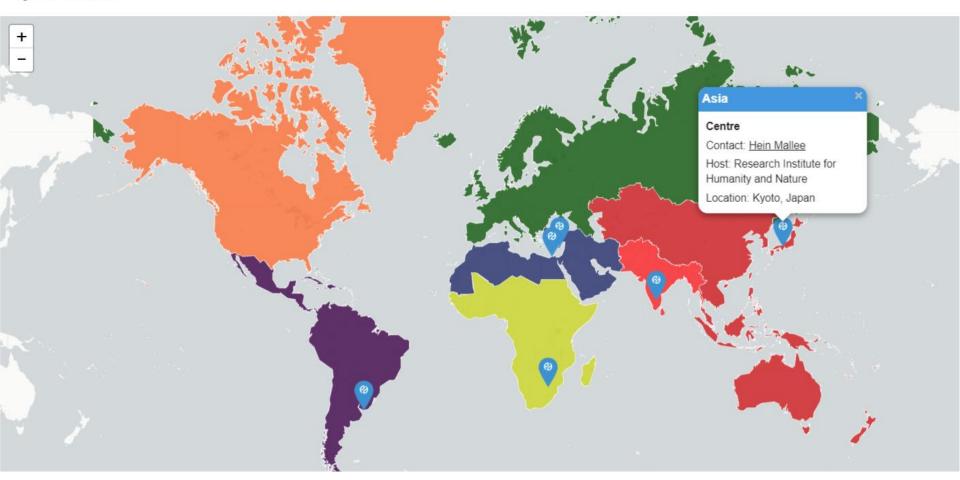
Global Hubs

Regional Centres

National Networks

Global Research Projects

Future Earth's regional centres and offices play a crucial role in adapting and spreading the vision of the programme, driving research around the sustainability challenges facing particular regions of the world.





Regional Centre for **Asia**

WHO WE ARE

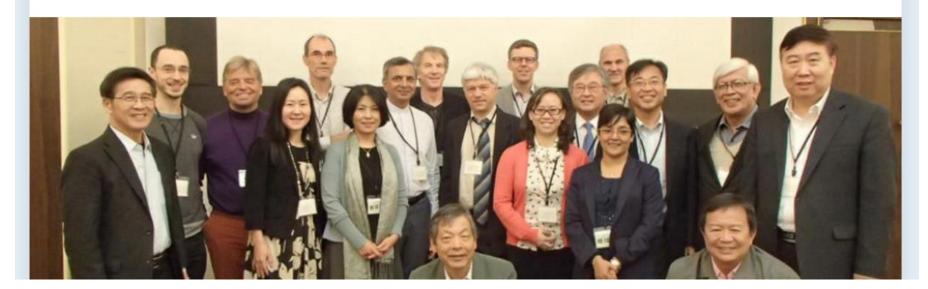
WHAT WE DO

NEWS & EVENTS

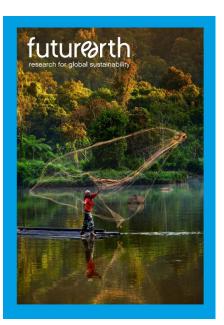
RESOURCES

HOME ▶ WHO WE ARE ▶ REGIONAL ADVISORY COMMITTEE FOR FUTURE EARTH IN ASIA

Regional Advisory Committee for Future Earth in Asia



Other outreach activities (http://www.futureearth.org/)







MISSION

We create digital products and experiences that drive new types of connections between people and planet. We do this to immerse people in the challenges of global sustainability and deepen their personal sense of involvement. This is our theory of change.

NEWS AND EVENTS PRODUCTS GET INVOLVED OPEN NETWORK Early Career Professionals One of Future Earth's key focuses is on engaging diverse early-career professionals from a Global Research Projects range of disciplines and sectors. We seek to bring together professionals from different Knowledge-Action Networks domains and to strengthen their capacities in conducting inter- and transdisciplinary research around global sustainability - with the goal of generating solutions for Research Initiatives sustainability and improving our understanding of the physical, biogeochemical and human dimensions of global environmental change. Early Career Professionals Early Career Network of Networks Future Earth engages with a wide variety of early career researchers and other professionals. We work with researchers in the natural and social sciences and the

Media Lab

Joining the Future Earth Early Career Professionals Network entails numerous benefits:

If you are an early career professional and would like to get involved in Future Earth, we

 Engage with other early career professionals through one-on-one and group conversations

humanities. We also reach out to professionals in policy, business, the technology

· Get the latest scientific research results around sustainability

industry, agriculture, civil society and much more.

· Stay up to date with funding opportunities and relevant vacancies

invite you to join the Future Earth Early Career Professionals Network.

Be the first to know about exciting conferences and workshops

Members of our network also get the chance to be involved in various Future Earth activities and structures, such as our Knowledge-Action Networks, regional centres and conferences.

Future Earth engages and partners with a number of existing initiatives and networks that work to empowering the next generation. These include:

- The Early Career Researchers Network of Networks, which brings together 17 global networks
- Young Leaders for Sustainability (Collective Leadership Institute)
- · and many more to come

If you are interested in joining the Future Earth Early Career Professionals group, please contact us.

We define early career professionals as anyone whose career has started within the last 10 years and who is connected to sustainability. This includes researchers who have received their Bachelor's or Master's qualification within the last 10 years or their PhD within the last six years, as well as professionals working at the interface of society, policy, practice and research.

Anthropocene Magazine



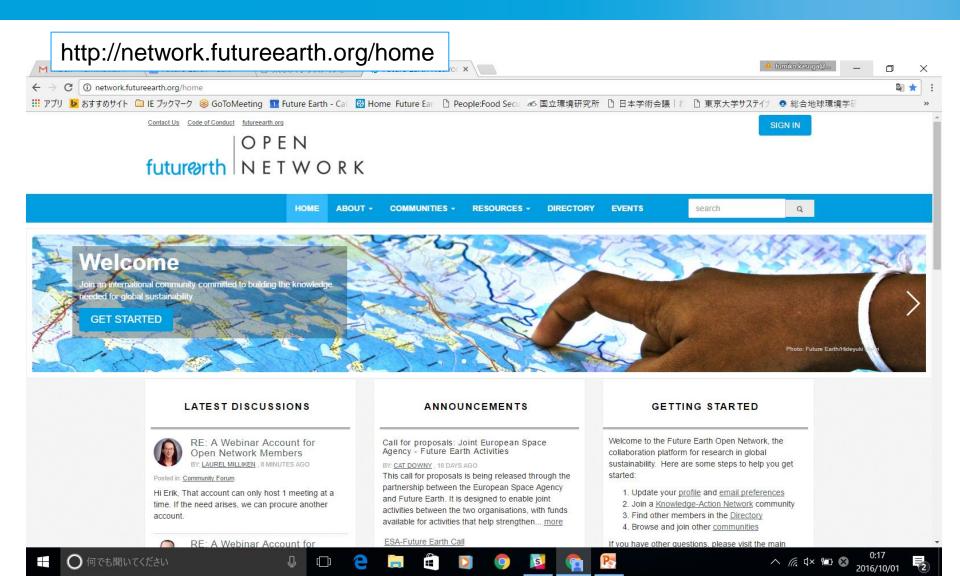
Fee download Not scientific articles or news, but new web magazine to connect people by sciences

anthropocenemagazine.org





How to get involved in Future Earth? – via Open Network



futurearth research for global sustainability

Facilitating networking

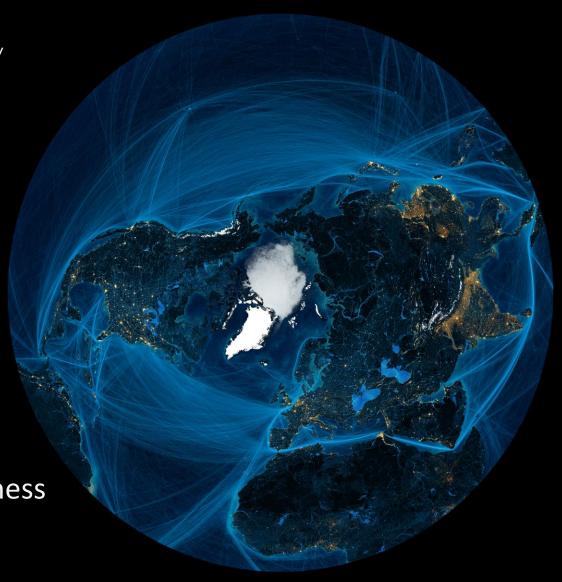
Synthesizing activities

Creating innovation

For human and ecosystem wellbeing

Concerns over someone different from you – gentleness and imagination

For 'No one left behind'



Picture from the animation: "Welcome to the Anthropocene"

Thank you very much!



Website: www.futureearth.org

Blog: www.futureearth.org/blog

Facebook: www.facebook.com/futureearth.org

Twitter: @FutureEarth