SESSION DESCRIPTION

Session ID: T13

Session title: Stepwise ecological restoration for planetary health

Hosts:

	Title	Name	Organisation	E-mail
Host:(1	Prof.	Junguo Liu	Southern University of Science and Technology; Society for Ecological Rehabilitation of Beijing (SERB)	liujg@sustech.edu.cn
Co-host(s):	Dr.	Florian Kraxner	International Institute for Applied Systems Analysis (IIASA)	kraxner@iiasa.ac.at

Abstract:

The United Nations General Assembly declared 2021-2030 as the "Decade of Ecosystem Restoration", which positions "the restoration of ecosystems as a major nature-based solution towards meeting a wide range of global development goals and national priorities". Ecological restoration, when it was implemented effectively, contributes to increasing ecosystem services, protecting biodiversity, and enhancing human and ecosystem health. Given ecosystems are degraded, damaged, or destroyed at different severity levels, stepwise ecological restoration (STERE) is required to repair them through different approaches e.g., environmental remediation, ecological rehabilitation, and natural restoration. This session aims to discuss the scientific advances in STERE, the linkages of STERE to ecosystem services, and the practical applications of STERE theory for eco-health and a more ambitious planetary health. Different experiences will be shared among countries in Asia and other continents.

Recommended Reading:

Liu J., Cui W., Tian Z., Jia J., 2021. Theory of stepwise ecological restoration. *Chinese Science Bulletin* 66 (9): 1014-1025

Goals and objectives of the session:

1. Communicate the research progress of stepwise ecological restoration
2. Discuss application of stepwise ecological restoration

Planned output / Deliverables:

Journal special issue

Voluntary contributions accepted:

Yes

Related to ESP Working Group/National Network:

TWG 13 – Role of ES in Ecosystem restoration