



# ARIES

ARTificial Intelligence for Environment & Sustainability

3rd ESP Asia Conference

14-17<sup>th</sup> December 2021

ESP Training ARIES (ARTificial Intelligence for Environment & Sustainability)  
On line in Nagasaki, Japan, 14<sup>th</sup> December 2021

**Date:** 14<sup>th</sup> December 2021

**Time:** 15:30-17:30 (Japan Time)

**Language:** English

**Venue:** Online

**Organized by:** ARIES team, Nagoya University IMASS Hayashi Lab., Tokyo University of Agriculture

**Person of Contact:** K. Hayashi (maruhaya98—(at) imass.nagoya-u.ac.jp)

### ARIES Masterclass

The training class of ARIES (Artificial Intelligence for Environment & Sustainability) will give the participants how the ARIES web system work for data and model integration through the semantic web, by providing a live demo showing how its web interface k.Explorer and ARIES for SEEA explorer work as well as showing how customized models work under k.Modeler.

The training class will be conducted by the ARIES team and k.LAB Japan member. No laptops will be required for this training. However, it is better for the participants to install k.Explorer and touch on it in advance.

After attending this class, the participants will gain enough knowledge and skills to use the ARIES existing data and models with k.Explorer. And they will understand the future possibility for the application of customized models. Software installation details as well as some suggested reading material will be informed to those registered to the class.



## Goals

1. Introduce ARIES so that participants become familiar with the modelling framework.
2. Introduce k.Explorer and ARIES-SEEA so that participants can further explore and use the models by themselves during and after the masterclass.
3. Introduce the examples for making ecosystem service modelling and others by k.Modeler.
4. Provide a venue for future collaborations on ecosystem services modelling.

## Attendance

The session is open to all conference participants who have already registered for it. Due to the need to limit the total participant number, this has been limited to 100.

## Program

Chaired by Prof. H. Okazawa (Tokyo University of Agriculture)

15:30 - 15:40 - Welcome and Agenda for the Training

Prof. H. Okazawa (Tokyo University of Agriculture)

15:40 - 16:10 - Live showing of k.Explorer and k. Modeler

Ikerbasque Research Professor Ferdinando Villa (Basque Centre for Climate Change)

16:10 - 16:40 - Live training of existing models (Model 1; Model 2)

Ikerbasque Research Fellow Dr. Stefano Balbi (Basque Centre for Climate Change)

Model 1 Live training – Carbon storage

Model 2 Live training – Recreation, Pollination

16:40-17:10- k. Modeler customized models

Prof. K.Hayashi(Nagoya University, IMASS)

Dr. Y.Yamazaki (Tokyo University of Agriculture)

Small-hydro power estimation, Solar panel, Air regulation, local carbon stock, crop model, etc.

17:10 - 17:25 - Q&A Session

17:25 - 17:30 – Closing

Prof. H. Okazawa (Tokyo University of Agriculture)

