

Workbenches developed on the Data Integration and Analysis System (DIAS)

Toshio Koike^{1*}, SHIBASAKI, Ryosuke¹, HOMMA, Koki², WASHITANI, Izumi¹, KIMOTO, Masahide¹, FURUMAI, Hiroaki¹, OKI, Kazuo¹, CHIBANA, Takeyoshi¹

¹UTokyo/EDITORIA, ²Graduate School of Agriculture, Kyoto Univ.

To create knowledge to be shared among different disciplines, to create knowledge to be shared throughout the world, and to disseminate data and information that brings awareness, we have developed a pilot system for the creation of an information storage infrastructure for public benefit applications and the deepening of scientific knowledge in the areas of climate, water cycle, for application in fisheries, agriculture and biodiversity management particularly through the linking of information across disciplines. This approach has proven to be effective with the successful implementation of our pilot project.

Based on this success, DIAS has begun an Environmental information Integration Program to extend and enhance our services. Through this project, stakeholders in various fields can leverage the fusion of large-scale datasets and applicative knowledge. We are proposing the development of a prototype workbench system for information infrastructure, a workbench for leveraging our implemented information infrastructure, allowing users to develop new results based on our accumulated data and expertise for the solution of global societal dilemmas. Our design strategy is for an operational framework which can provide public benefit in the form of policy-directed data delivery.

Keywords: Earth Observation, Earth Environment, Data Integration, Big Data