

Integrated Ocean Management toward Capacity Development for Innovative Ocean Industry

Yoshie Kasajima

Project team for SIP research

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Cross-ministerial **S**trategic **I**nnovation Promotion **P**rogram

is a program conducted by the Council for Science, Technology and Innovation.

Innovative fuel technology

Next-generation technology for agriculture, forestry and fisheries

Next-generation power electronics

Infrastructure maintenance technology

Cyber security in critical infrastructure

Innovative design production technology

Disaster prevention and mitigation function

Innovative structural material

Automatic guided system

Next-generation technology for ocean resources exploration

Energy carrier

Next-generation technology for ocean resources exploration

1. Research on marine resources



2. Development of the survey technology

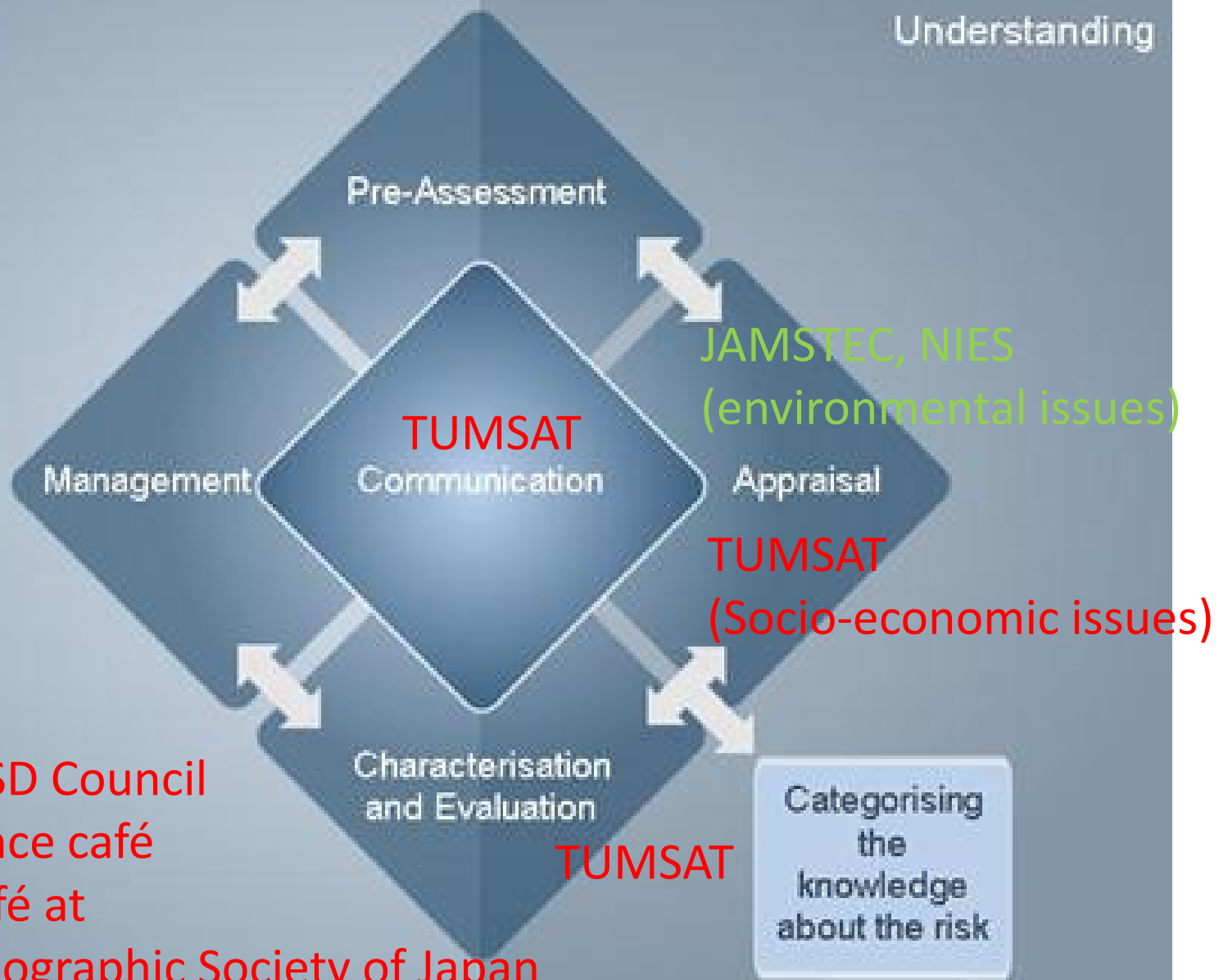


3. Development of long-term monitoring technique and ecosystem research => Risk assessment

Japan Agency of Marine-Earth Science and Technology (JAMSTEC)
National Institute for Environmental Studies (NIES)
Yokohama National University (YNU)
TUMSAT (+ Hokkaido University, Japan Coast Guard Academy)

Deciding

Understanding



Edomae ESD Council
Iwaki Science café
Science café at
Oceanographic Society of Japan

IRGC Risk Governance Framework (2012)

Communication in SIP project

Participatory seminar for EIA practitioners



Follow-up interviews are planned

Tasks of TUMSAT in SIP project

Theme A : Establish an appropriate legal system

Hokkaido University, Japan Coast Guard Academy

Theme B : Establish a proper procedure of the Social Impact Assessment for the deep sea mining

B-1: Pre-assessment, Appraisal

B-2: Evaluation

B-3: Communication

Ultimate objective of TUMSAT

Propose an “Integrated Ocean Management” which covers the deep ocean area.



The Integrated management in the coastal areas by UN, Agenda 21 in 1996

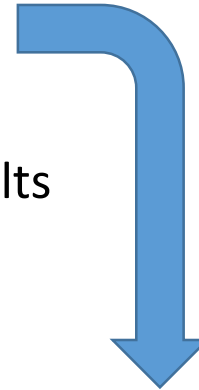
Implementation of the project outcome

TUMSAT will have a new faculty focusing on the ocean resources development in 2017

apply/integrate the results in education
human resource development

Knowledge transition from research community to private sector/local governments

By giving research results
back to society at large



Innovative Ocean Industry