



**International Symposium for
the Integration of Marine-Related Data and Information**

Session 2

**Needs on
Marine-Related Data and Information
for the Promotion of Ocean Industries**

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Hiroyuki Nakahara

Professor, Yokohama National University

Managing Director, Research Institute for Ocean Economics



Categorization of the Needs on Marine-related Data and Information

- 1. Administrative Needs
for Public Sector (Central & Local Gov'ts)**
- 2. Academic Needs
for Research Sector (Univ. & Res. Labs)**
- 3. Industrial Needs
for Private Sector (Companies)***



Industrial Needs on Marine-related Data and Information

Needs for Ocean Industries

What is the definition of Ocean Industries?

Basic Act on Ocean Policy, 2007 (Art.5)

***Ocean Industries ; Industries bearing development,
use and conservation of the oceans.***

How much significant is the Ocean Industries?

Annual Survey on the Ocean Industries upon the Basic Plan on Ocean Policy, authorized in March, 2008, upon the Basic Act, has been conducted.

For grasping the effects of various measures implemented for marine industries and reviewing them, surveys should be conducted to understand the current conditions and trends of marine industries, with regard to indicators such as the size of industry and the number of employees.

Categorization of Ocean Industries

Type B Industries;

Supply
Type A
Industries
With Products
and Services

Shipbuilders,
Steel Makers,
Manufacturers,
Electronics, etc

Type A Industries;

Execute Their
Business
Activities in the
Oceans

Fisheries, Shipping,
Oil/Mineral Development
Contractors, Pollution
Control, etc

Type C Industries;

Receive Output
of Type A
Industries and
Convert it to
their own
Products and
Services

Seafood Processing,
Oil & Gas, Mining,
Chemicals, etc

Potential Users of Marine-related Data & Information

(Source; Research Report of the Survey on Activities of Ocean Industries, March 2009)

How much significant is the Ocean Industries?

Estimate of Japanese Ocean Industries

-Domestic production ;

2009 report; 16.5 trillion yen

2010 report; 20.0 trillion yen

-The number of employee ;

2009 report; 1.01 million.

2010 report; 0.98 million.)

-Gross Value Added of ocean industries ;

2009 report; 7.4 trillion yen*

2010 report; 7.9 trillion yen

(* GDP Ratio 1.47%)

Current Hot Issues for Ocean Industries

Deep Sea Mineral Resource Development

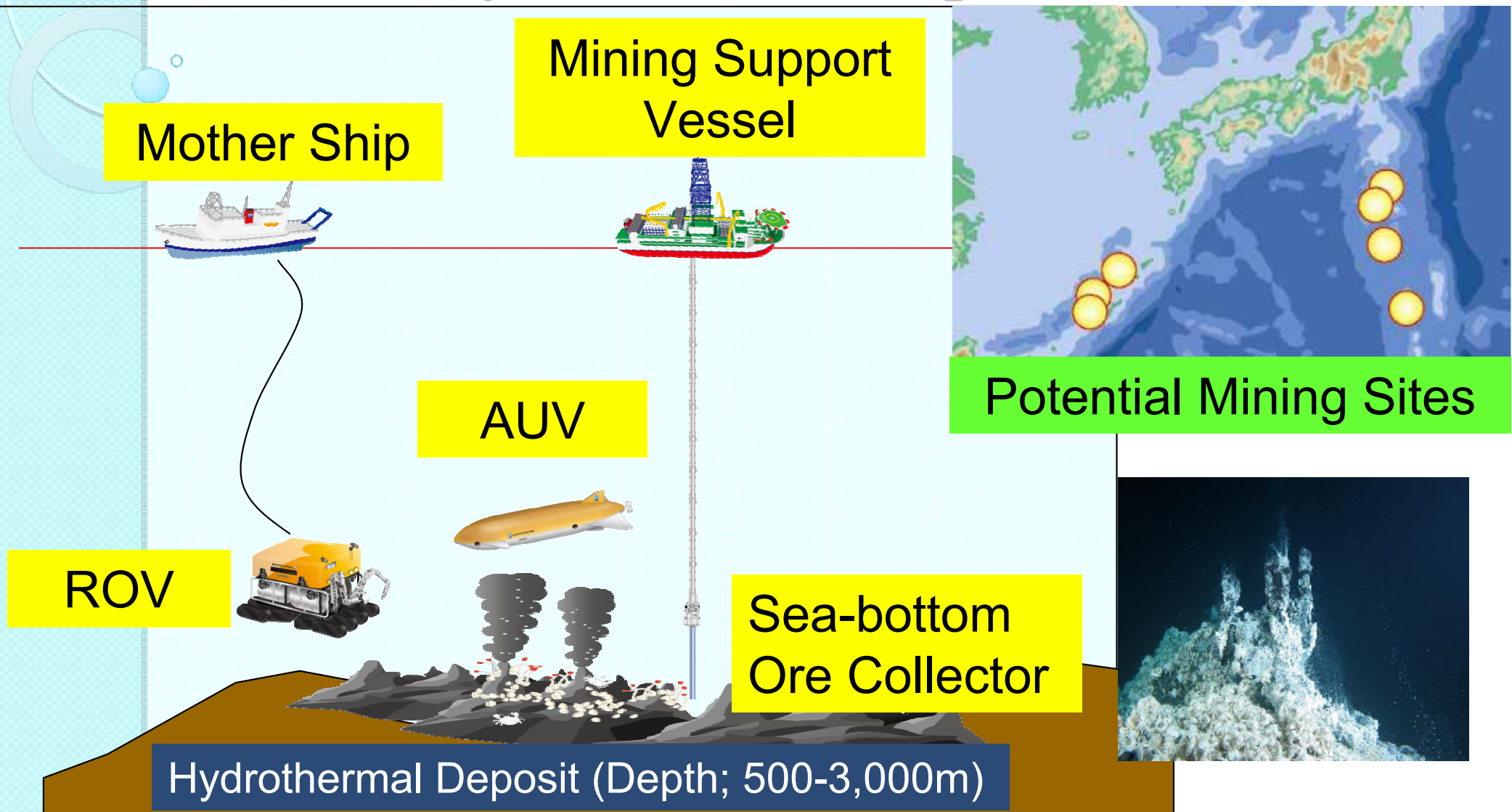
National Plan for Ocean Energy and Mineral Resource Development

Authorized by the HQ for Ocean Policy on March, 2009, upon *Basic Plan on Ocean Policy*

Ocean Renewable Energy Development

Offshore Wind Energy and other Ocean Renewable Energy (Wave, Tidal, etc.,) Are Expected to Be Developed, particularly after the Nuclear Power Plant Accident by East Japan Great Disaster, Earthquake/Tsunami, on March 11th, 2011.

Deep Sea Mineral Resource Development; Hydrothermal Deposit



Exploration & Mining Systems be developed.

What are the Needs on Marine-related Data & Information for Deep Ocean Mining?

What Kind of Data & Info.?

-Physical, Chemical, Biological

For What Purpose?

-Exploration & Exploitation Activities

Who are the Potential Users?

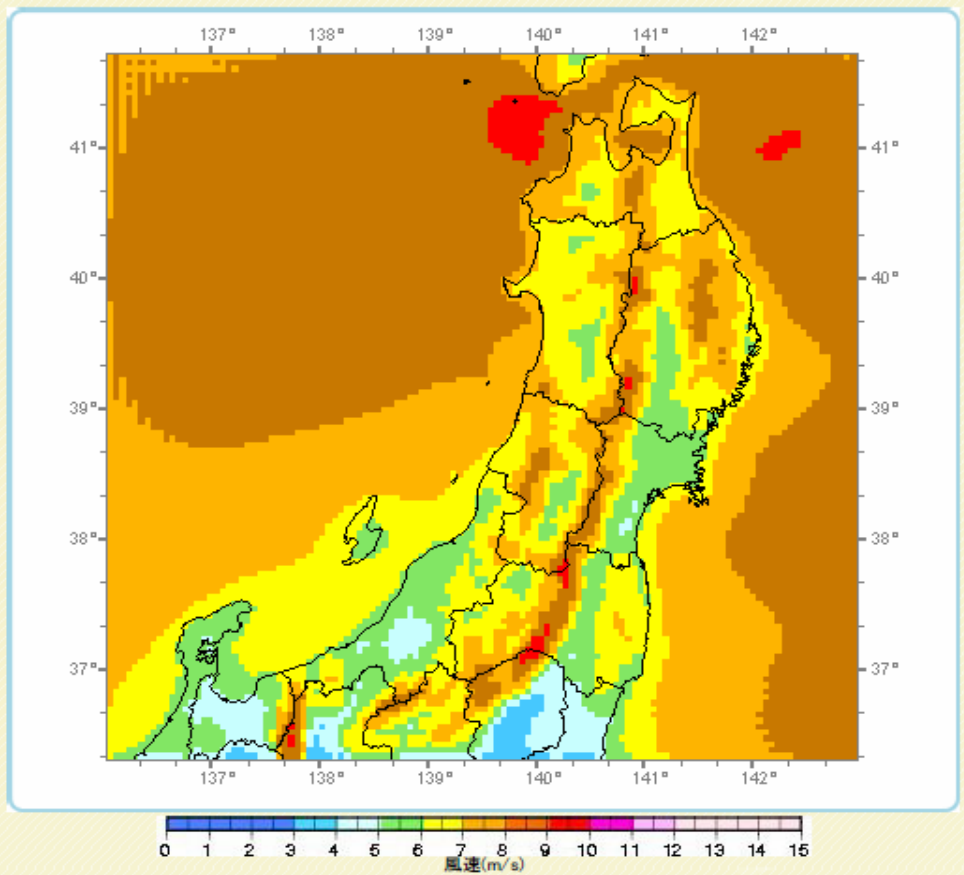
-Mining Companies,

**-Designers & Manufacturers of
Exploration & Mining Equipments**

(Shipbuilder, Heavy Machinery Industries, etc.,)

-Sensor Developer, etc.,

Ocean Renewable Energy Development



Wind Energy Potential Map
(Source: NEDO)



Image of Offshore Wind Farm
(Source; OEAJ)



Image of Wave Energy Farm
(Source; OEAJ)



What are the Needs on Marine-related Data & Info. for Ocean Renewable Energy Development?

What Kind of Data & Info.?

- Meteorological, Oceanographical

For What Purpose?

- Construction/Operation of Ocean Energy Conversion Systems

Who are the Potential Users?

- Electric Companies, New Comers
- Marine Environment Surveyors
- Designers & Manufacturers of Energy Conversion Systems,
- Marine Civil Work Companies, etc.,



Additional Comment

Users are also Suppliers.

Every administrative organization is producing some data and information on oceans, not only on natural conditions but also on social, economical, legal and policy-related perspectives.

Every university/research laboratory and institution is also doing the same job, and even private companies are getting and producing such data and information through their business activities.

Needs and Supplies of Data and Information;
it is not a simple one-way structure.



***Thank you very much for
your interest and attention!***

Hiroyuki Nakahara

**Managing Director, Research Institute for Ocean Economics
Professor, Yokohama National University
h-nakahara@cd.inbox.ne.jp**