

Republic of Korea

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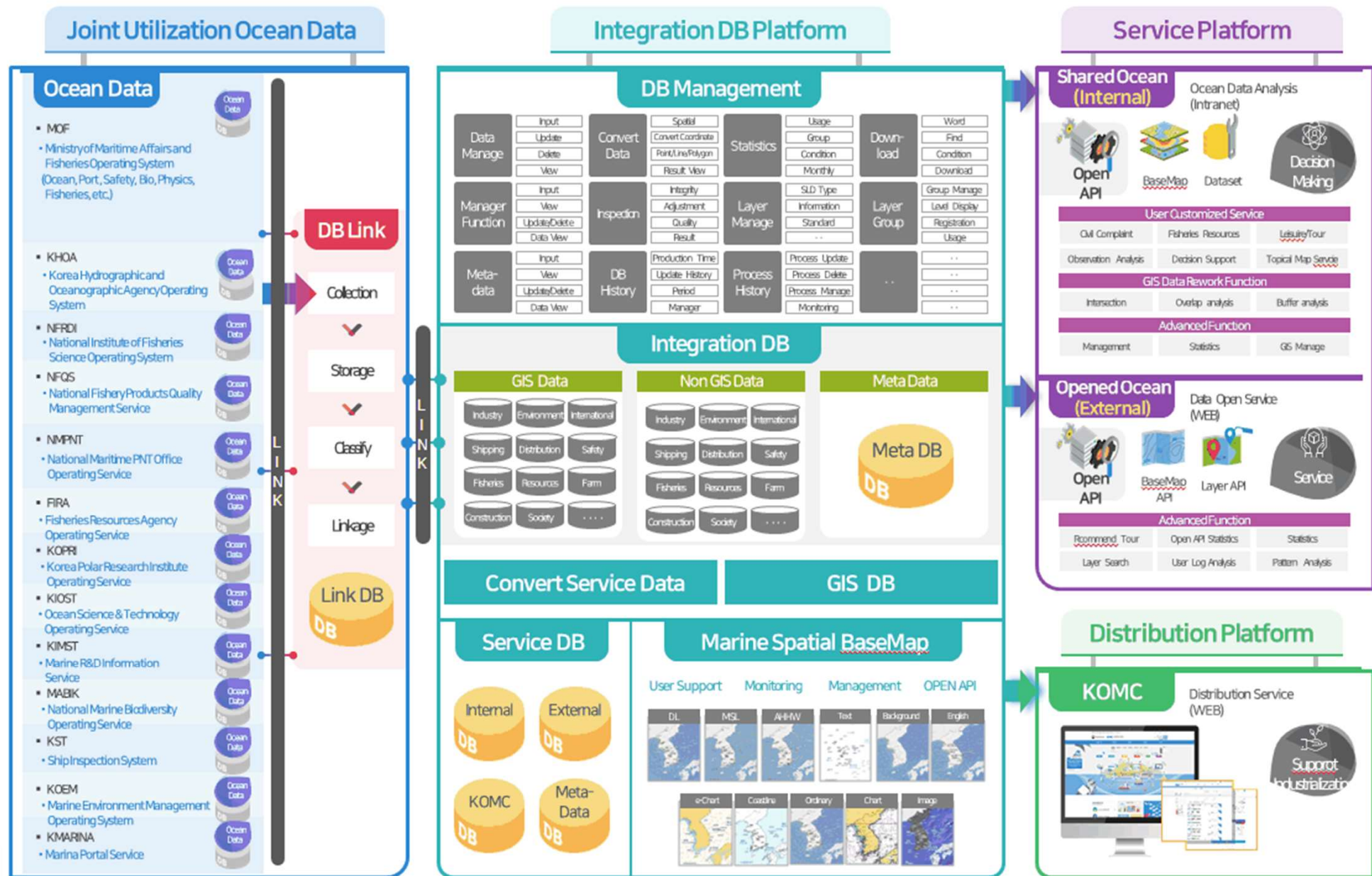
# MSDI National Report

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IHO MSDIWG10  
Busan, ROK  
4-6 March 2019

**Presented by Mr. Jun-Shik Lee**

## Current Status of MSDI



## Current Status of MSDI

STEP

Data integration

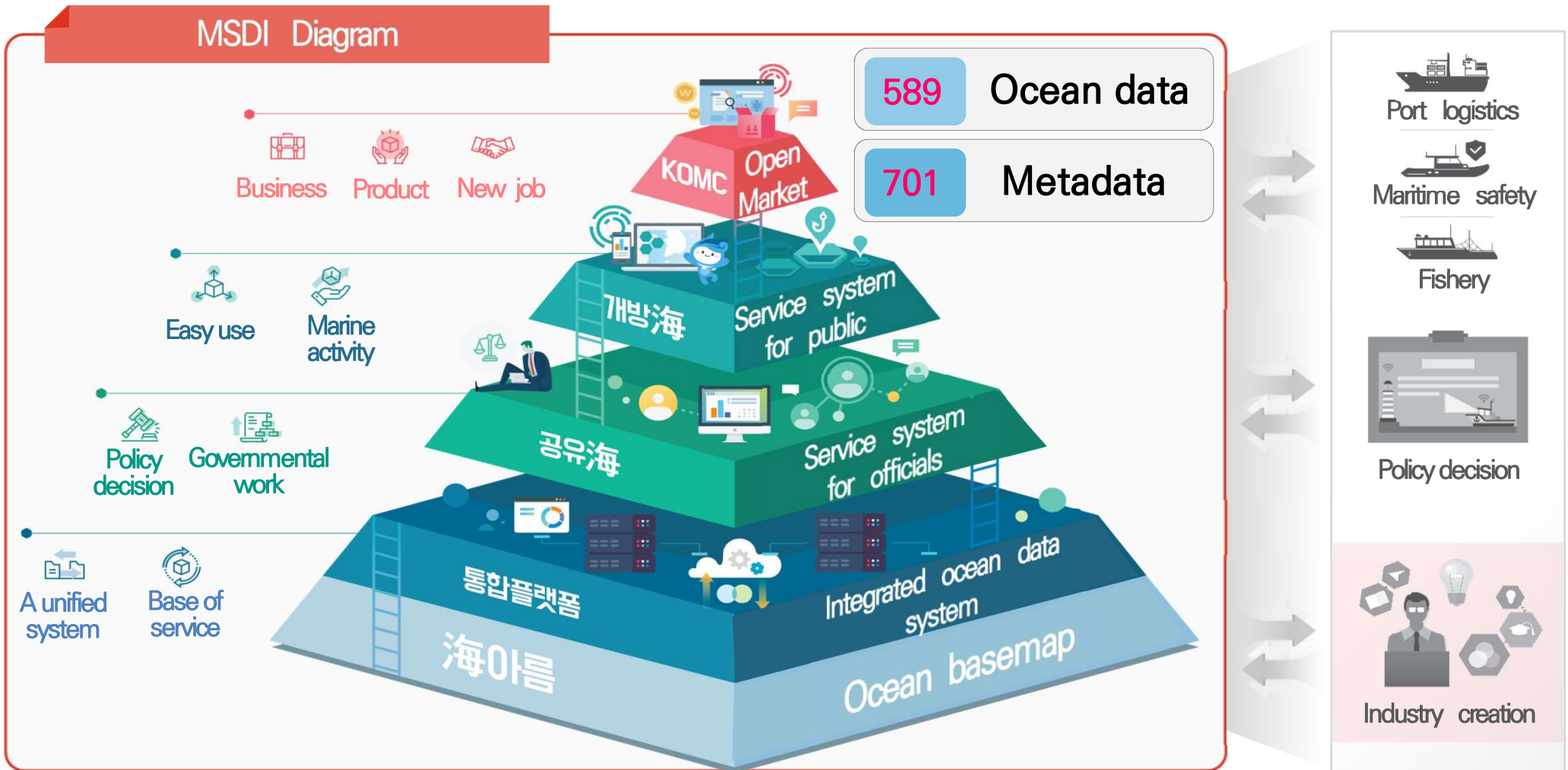


Service



Business

## MSDI Diagram



## Part. 1 Marine spatial basemap Hae-A-Reum

**Purpose** To provide a platform for various use of marine spatial information



UTM-K, WGS84

## Part. 2 Setup the metadata DB

**Purpose** Efficient management and use of integrated marine information

**Step**

Survey of current  
status of System  
& Data

Develop a  
metadata  
standard  
proposal

Hold a  
briefing  
session

Survey  
metadata

Meta DB  
creation

### Set the metadata standard



87 Departments

78 Data systems

701 Metadata

**Web Service**

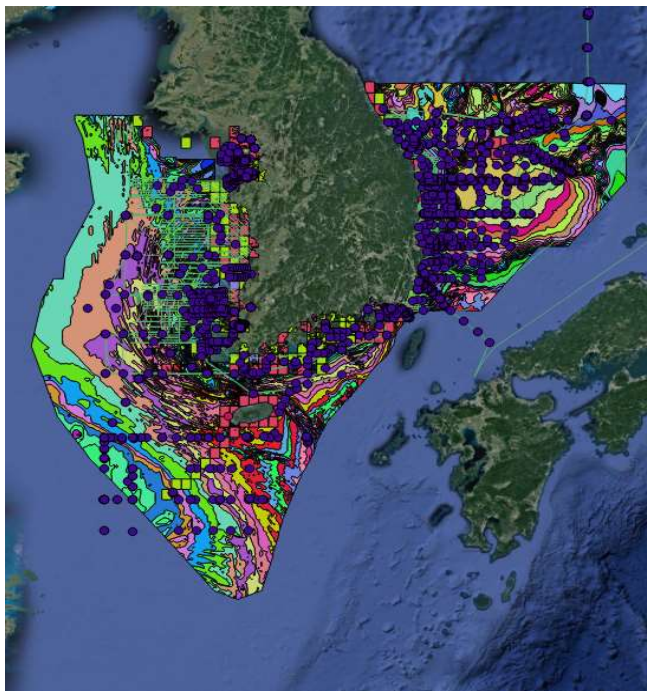
## Part. 3

## Data standard

## Purpose

Effective and systematic data classification, management and services

## STEP

Terms  
StandardizationQuality  
StandardizationClassification  
standardizationCode  
standardizationPresentation  
standardizationCommon quality  
processing

Error value

Missing value

Location survey

Time survey

Meta survey

Completeness

Classification  
(Organization+Task)

Marine policy

Fisheries policy

Shipping logistics

Maritime safety

Harbor

Public  
administration

	Presentation Method	Criteria	Example
Poi nt	Icon	Icon production	Icon
Poly line	Line	Actual line on the sea	Electric wire
	Dotted line	Seabed line	Undersea cables
	Double lines or Thick line	Statutory line	Territorial waters
Poly gon	Box with line	Actual sea area	Fishing ground
	Box with dotted line	Seabed area	Aggregate collection area
	Box with double lines or Thick line	Statutory area	Firing exercise area

	Color	Meaning	Example
SLD	Red	Danger, Beware	Prohibited Area Information
	Yellow	Protection, Creation, Positive, Energy	Resource development area, Seabed pipeline
	Green	Safety, Trust, Cure, Peace	Leisure safety line, swimming safety line

## Part. 4

## Service System – Two ways



For official use

Policy decision  
Governmental work

Environ-  
ment

Fisheries  
resources

Port  
facility

Obs.  
data



For the public

Marine activity  
Maritime safety

Sport  
Info.

Beach  
info.

Leisure  
Info.

Obs.  
data

## Part. 4 Service System

### Marine spatial data Main List

Industry

Environment

Pelagic

Fishery

Farming

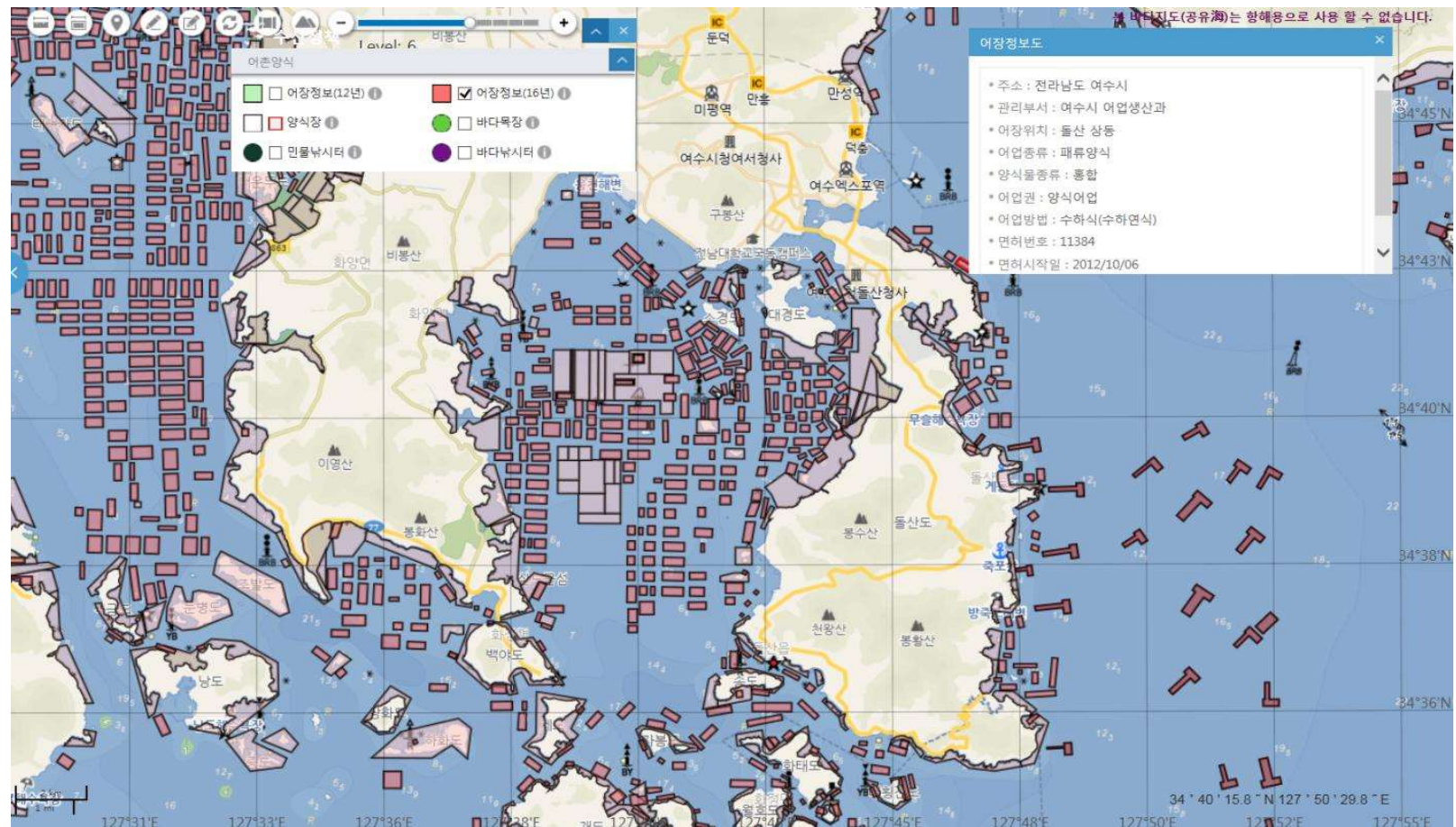
Logistics

Safety

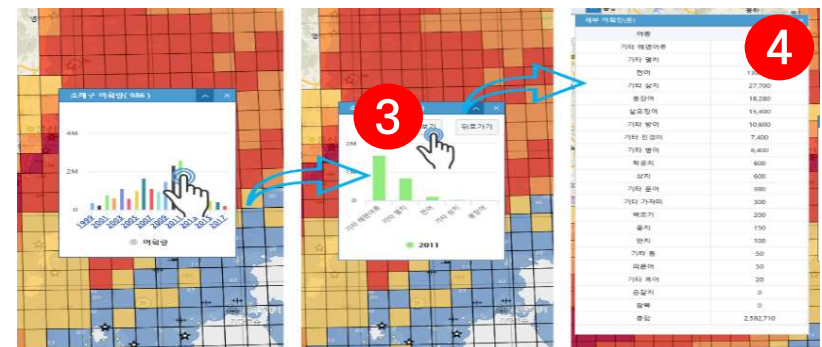
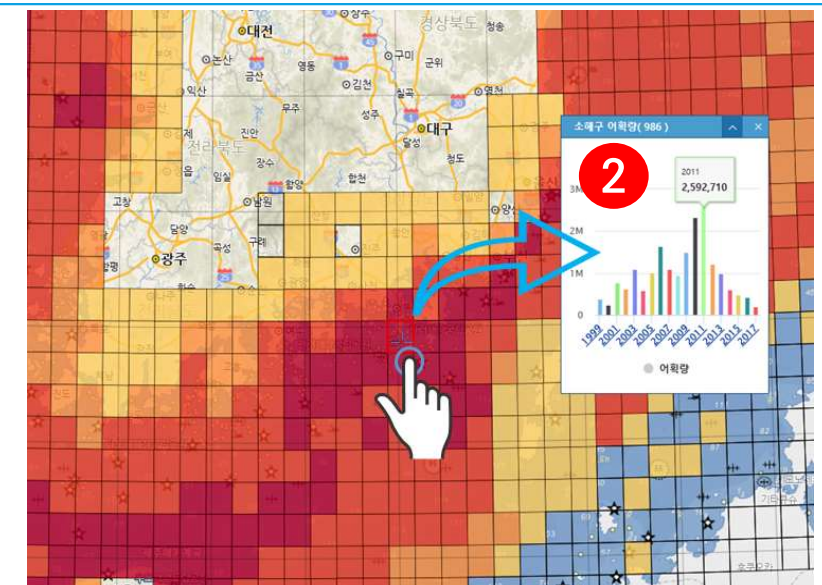
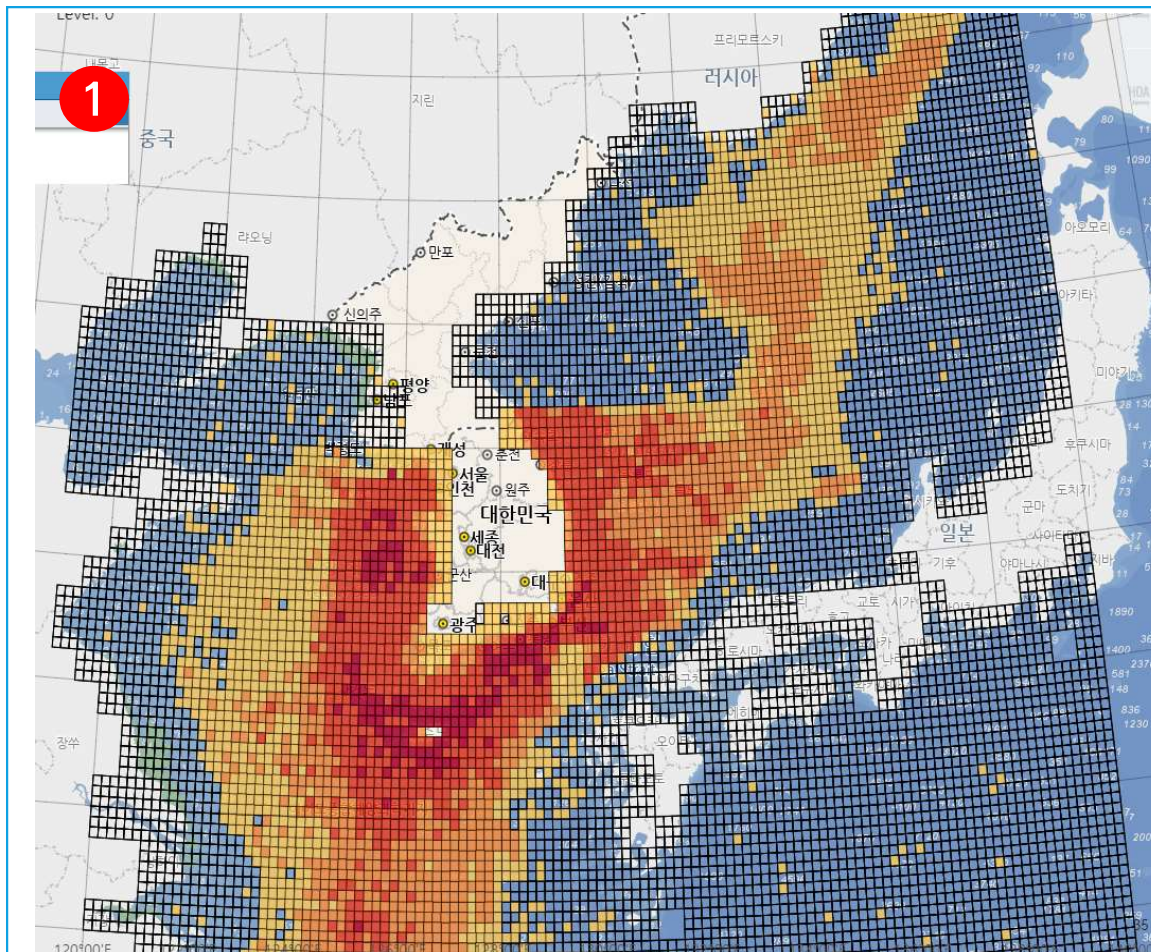
Construction

Humanities

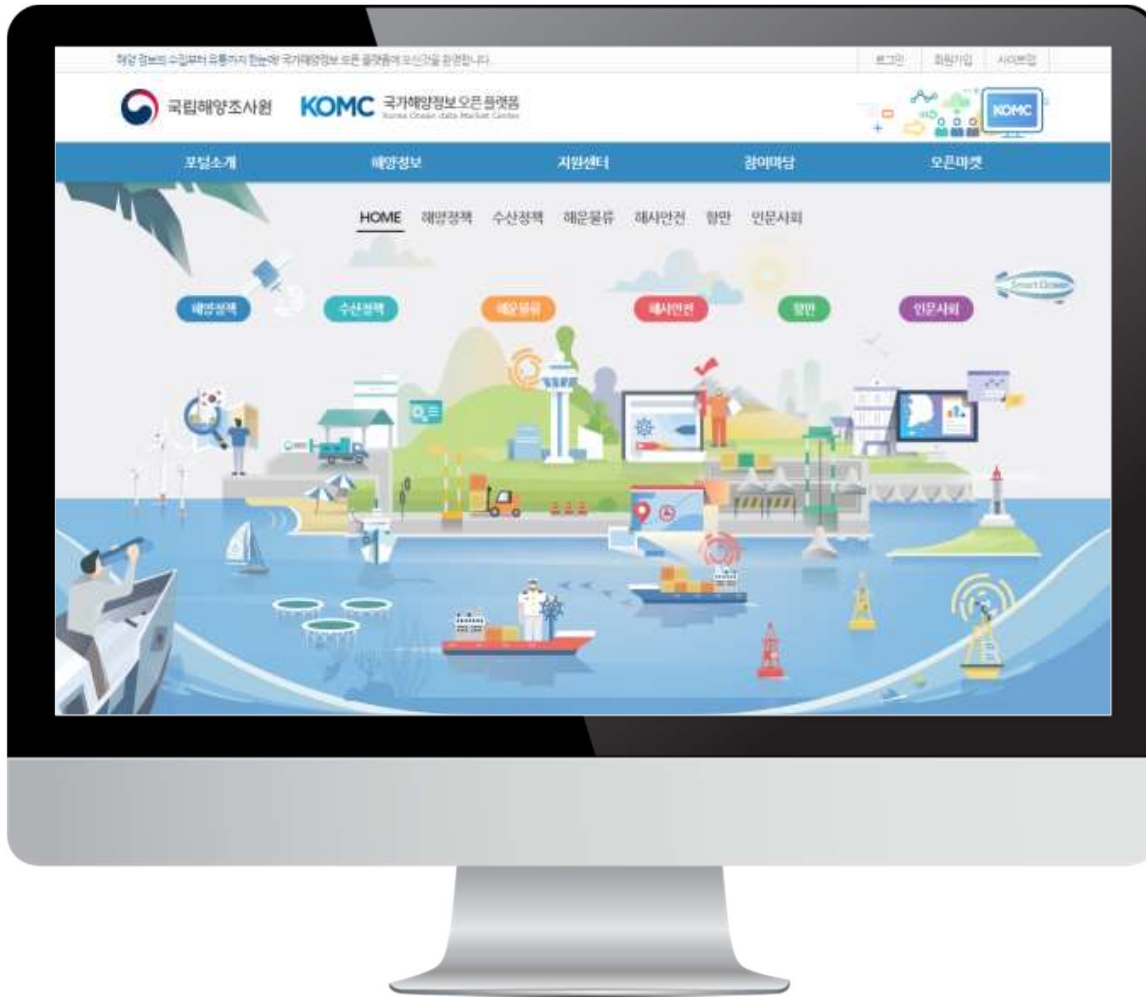
### Fishing license



## Sector data – Amount of fishery



## Part. 5 Use case – Open Market



PROVISION

Useful business data

How to use the data

Online Market

## Part. 5

## Use case – Open API

## 117 types of marine spatial information



Open API  
Standard

WMS 1.3.0  
Web Map Service

WFS 1.1.0  
Web Feature Service

## Open API Use



API



WEB Browser



Tablet



Smart Phone

## Establishment of the MSP (Marine Spatial Planning) Law



## Enactment of Regulations on the Integration and Co-utilization of Marine Information

Marine Information Co-utilization  
Guideline

Marine Information Quality Processing  
Guideline



Harbor sea fog

Port traffic

Amount of fish catch per year

Economic route

Data integration (Link / Update)

Various Service (Customized)

Business Model (Development)

Maintenance Laws (For MSDI)

Marine Spatial Data Infrastructures

# Thank you

