

The slide features a decorative background of light blue fish silhouettes. A large group of fish is arranged in a circular pattern in the upper right quadrant, while other smaller groups are scattered in the lower left and bottom center areas.

# **Status of MPA and Policy System in Korea**

Jan 2020



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III. MPA Management Project(해양보호구역 관리 사업)

IV. Suggestion (제 언)



# I. Overview of MPA (해양보호구역 개요)

# Overview of MPA

- National Marine Ecosystem Monitoring Program(국가해양생태계종합조사)

## 필요성



### 법률

- 해양생태계의 보전 및 관리에 관한 법률 제10조, 제11조, 제29조
- 습지보전법 제4조



### 생태계

- 해양생태계 변동에 능동적 대응



### 사회

- 쾌적하고 건강한 해양생태계 조성

## 조사목적



### 정책

- 위험요소·기후변화 사전대응, 해양의 지속 가능한 이용 등을 위한 정책수립



### 과학

- 우리나라 해양생태계의 장·단기 변동 특성을 종합적이고 체계적으로 파악



### 보전 및 보호

- 해양보호구역 지정을 통한 해양생태자산 관리 및 우수해양생태계 보호

## Rationale



### Legislation

- Act on Conservation and Management of Marine Ecosystem Article 10, Article 11, Article 29
- Wetlands Conservation Act Article 4



### Ecosystem

- Active Measures to Address Marine Ecosystem Fluctuation



### Social Benefits

- Ensuring a Pleasant and Healthy Marine Ecosystem

## Purpose of Monitoring



### Policy

- Proactive Response to the Threat of Climatic Change, Policy Making for sustainable usage of the marine system



### Science

- Synthetic and systemic understanding of the short- and long-term variation in characteristics of Korea's Marine Ecosystem



### Conservation and Protection

- Management of Marine Ecosystem and Protection of Superb Marine Ecosystem through designation of marine sanctuaries

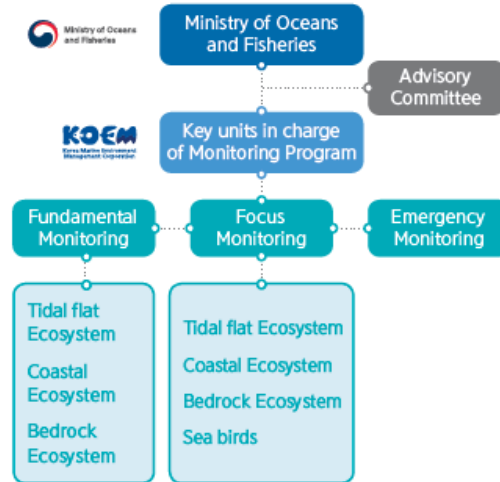
# Overview of MPA

- National Marine Ecosystem Monitoring Program(국가해양생태계종합조사)

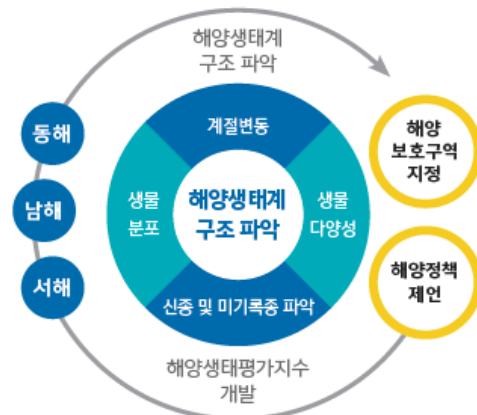
## 종합조사 추진체계도



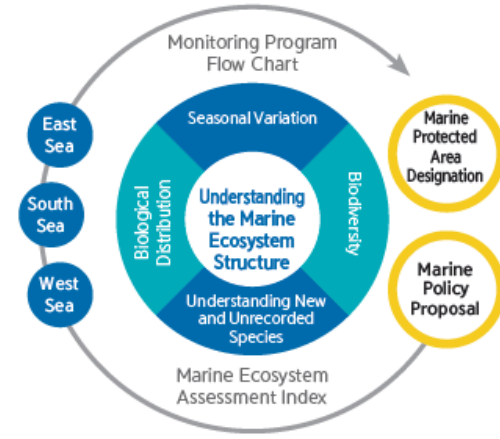
## Entities Involved in the Monitoring Program and their Responsibilities



## 종합조사 흐름도



## Monitoring Program Flow Chart



# Overview of MPA

- National Marine Ecosystem Monitoring Program (국가해양생태계종합조사)

## 종합조사 세부내용



기본조사

**조사영역** : 연안생태, 갯벌생태, 암반생태  
**조사범위** : 우리나라를 2개권역(동, 서)으로 구분  
 · 짝수해 : 동해, 남해동부, 제주권역  
 · 홀수해 : 서해, 남해서부권역  
**조사주기** : 연 1~2회 조사



중점조사

**조사영역** : 연안생태, 갯벌생태, 암반생태, 바닷새  
**조사범위** : 하구·용승해역(연안), 해양보호구역(갯벌), 아열대화해역(암반) 등 우리나라 전역  
**조사주기** : 연 2~4회 조사



긴급조사

사회적 이슈나 민원제기와 같은 긴급한 조사 발생 시 수행



## Structure of the monitoring program



Fundamental monitoring

**Monitored Areas**  
 Coastal Ecosystem, Tidal flat Ecosystem, Bedrock Ecosystem  
**Monitoring Scope**  
 Korea is classified into 2 areas(East, West)  
 - Even Years: East Sea, Eastern Part of South Sea, Jeju  
 - Odd Years: West Sea, Western Part of South Sea  
**Monitoring Cycle** 1-2 times a year



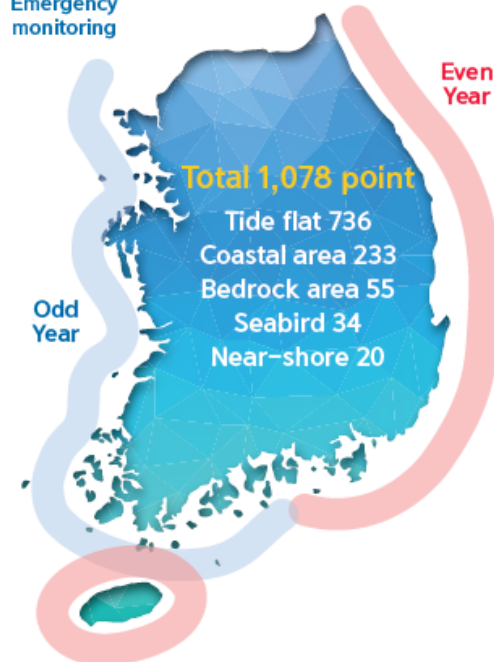
Focus monitoring

**Monitoring Field**  
 Coastal Ecosystem, Tidal flat Ecosystem, Bedrock Ecosystem, Seabirds  
**Monitoring Scope**  
 All across Korea including Estuary, Upwelling Area(Coast), Marine MPA (Tidal flat), Subtropical Regions(Bedrock)  
**Monitoring Cycle** 2-4 times a year



Emergency monitoring

Perform when there is the need for emergency monitoring, such as social issues or civil complaints




# Overview of MPA

- National Marine Ecosystem Monitoring Program (국가해양생태계종합조사)

**조사항목** 

**총 19개 분야 조사항목**  
 생물분야 14개 분야 (부유생물, 저서생물, 바닷새 등)  
 비생물분야 5개 분야 (수질환경, 경제적 가치, 주민인식변화 등)

**Monitoring Items** 

**Total of 19 Monitoring Items**  
 14 Biological (Plankton, Benthos, Sea birds etc.)  
 15 Non-biological (Water Quality, Economic Value, Change in Consciousness of Local Residents, etc.)

# Overview of MPA

## - National Marine Ecosystem Monitoring Program(국가해양생태계종합조사)

### 조사결과 활용

#### 1. 해양생태총서 및 조사연보 작성



< 해양생태총서 >



< 조사연보 >

- 조사연보 : 종합조사를 통해 얻어낸 연구분야별 조사결과 자료
- 해양생태총서 : 종합조사 조사결과를 바탕으로 한 종합해설자료

#### 2. 해양생태도 작성

- 1등급 : 보호대상해양생물의 서식지이거나 해양생물다양성이 풍부한 해역으로 보전가치가 높은 해역
- 2등급 : 장래 해양생태적인 보전가치가 있거나 1등급 권역의 보호를 위해 필요한 해역
- 3등급 : 1, 2등급을 제외한 해역으로 개발 또는 이용의 대상이 되는 해역

#### 3. 해양보호구역 지정

종합조사 결과를 바탕으로 해양보호구역 후보지를 발굴하고 지정을 위한 과학적 근거 제시

- 습지보호지역 : 습지 중 원시성을 유지하고 있거나, 생물다양성이 풍부하여 특별히 보전할 가치가 있는 지역
- 해양생태계보호구역 : 해양생태계가 특별히 우수하거나 취약하여 보호가 필요한 구역
- 해양생물보호구역 : 보호대상해양생물의 보호를 위해 필요한 구역
- 해양경관보호구역 : 바닷가 또는 바닷속의 지형·지질 및 생물상 등이 해양생태계와 잘 어우러져 해양경관적 가치가 탁월한 구역

#### 4. 기타 분야 활용

- 해양공간계획 수립 근거 제공 : 해양공간을 체계적·효율적 이용을 위한 해양공간계획의 주요자료로 활용
- 유해해양생물 모니터링 : 외래종의 국내 서식현황 조사 및 대응방안 수립을 통한 유해해양생물 관리정책에 활용
- 국제협력지원 : 생물다양성 협약, 람사르 협약, 지역협약체, UN 해양평가 등 국가자료 제공

### Application of Monitoring Results

#### 1. Making a Collection Book of Marine Ecosystem and Investigation Chronology



< Summary Book of Marine Ecosystem >



< Investigation Chronology >

- **Investigation Chronology**  
Investigation of Results Data through Monitoring Program
- **Summary Book of Marine Ecosystem**  
Total Explanatory Data based on the Results of the Monitoring Program

#### 2. Making a Marine Ecosystem Plan

- **1st Grade**: Habitat of Marine Life Subject to Protection; or Sea with high conservation value due to Marine Biological Diversity
- **2nd Grade**: Sea with conservation value in the future or that is needed to protect a 1st Grade Sea
- **3rd Grade**: Seas other than 1st and 2nd, which are subject to development or usage.

#### 3. Designating Marine Protected Area(MPA)

- Discover the Proposed Site for Marine Sanctuaries and Suggest the scientific basis
- **Tidal flat MPA**: Wetland that has been preserved in its natural state or has excellent Marine Biological Diversity
- **Marine Ecosystem MPA**: Superb or Vulnerable Marine Ecosystem that is to be protected
- **Marine Life MPA**: Area needed for Marine Life that is Subject to Protection
- **Marine Scenic MPA**: Superb Marine Scenic Area along with healthy Marine Ecosystem

#### 4. Other Applications

- **Offer Basis for Sea Space Planning**: Use as key materials for systemic, effective usage of Sea Space.
- **Monitor noxious Marine Life**: Use for policy to manage noxious marine life by investigating domestic habitation state of introduced species and establishing countermeasures.
- **Support International Cooperation**: Convention on Biological Diversity, the Ramsar Convention, Local consultative groups, UN Marine Evaluation

































# Overview of MPA

## - Marine Protected Species(해양보호생물) -80 species

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# Overview of MPA

- Marine Protected Species (해양보호생물) - 80 species

|  |  |   |   |   |   |   |   |
|--|--|---|---|---|---|---|---|
|  <p>갯게</p> <p>멸종위기 야생생물 Ⅱ급</p>         |  <p>남방방게</p> <p>멸종위기 야생생물 Ⅰ급</p>      |  <p>논콩게</p> <p>국립해양생물자원관</p>                     |  <p>달랑게</p> <p>국립해양생물자원관</p>         |  <p>두이발사각게</p> <p>국립해양생물자원관</p>     |  <p>붉은발 말뚝게</p> <p>멸종위기 야생생물 Ⅱ급</p>    |  <p>의염통성게</p> <p>멸종위기 야생생물 Ⅱ급</p>    |  <p>흰발농게</p> <p>멸종위기 야생생물 Ⅱ급</p>       |
|  <p>기수갈고동</p> <p>멸종위기 야생생물 Ⅱ급</p>      |  <p>나팔고동</p> <p>멸종위기 야생생물 Ⅰ급</p>      |  <p>대추귀고동</p> <p>멸종위기 야생생물 Ⅱ급<br/>IUCN 자료부족종</p> |  <p>금빛나팔 돌산호</p> <p>멸종위기 야생생물 Ⅱ급</p> |  <p>둔한진 총산호</p> <p>멸종위기 야생생물 Ⅱ급</p> |  <p>망상 매패산호</p> <p>멸종위기 야생생물 Ⅱ급</p>    |  <p>미립이분지 돌산호</p> <p>CITES Ⅱ</p>     |  <p>벌혹산호</p> <p>멸종위기 야생생물 Ⅱ급</p>       |
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# Overview of MPA

- Marine Protected Species (해양보호생물) - 80 species



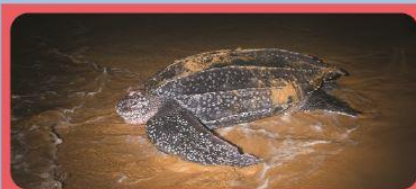
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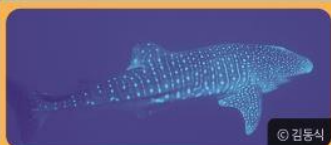


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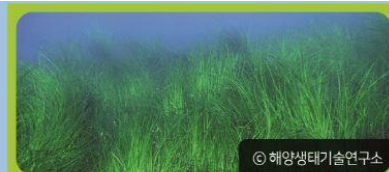
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**수거머리말** IUCN 위기근접종



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**포기 거머리말** IUCN 취약종

# Overview of MPA

## - Marine Protected Species(해양보호생물) -80 species



**검은머리물떼새**  
멸종위기 야생생물 II급  
천연기념물 제326호  
IUCN 위기근접종



**넓적부리도요**  
멸종위기 야생생물 I급  
IUCN 심각한위기종



**노랑부리백로**  
멸종위기 야생생물 I급  
천연기념물 제361호  
IUCN 취약종



**바다쇠오리** IUCN 관심필요종



**스새** IUCN 위기근접종



**아비** IUCN 관심필요종



**알락꼬리마도요**  
멸종위기 야생생물 II급  
IUCN 멸종위기종



**저어새**  
멸종위기 야생생물 I급  
천연기념물 제205-1호  
IUCN 멸종위기종



**바다오리** IUCN 관심필요종



**바다제비** IUCN 위기근접종



**뽕쇠오리**  
멸종위기 야생생물 II급  
IUCN 취약종



**쇠가마우지** IUCN 관심필요종

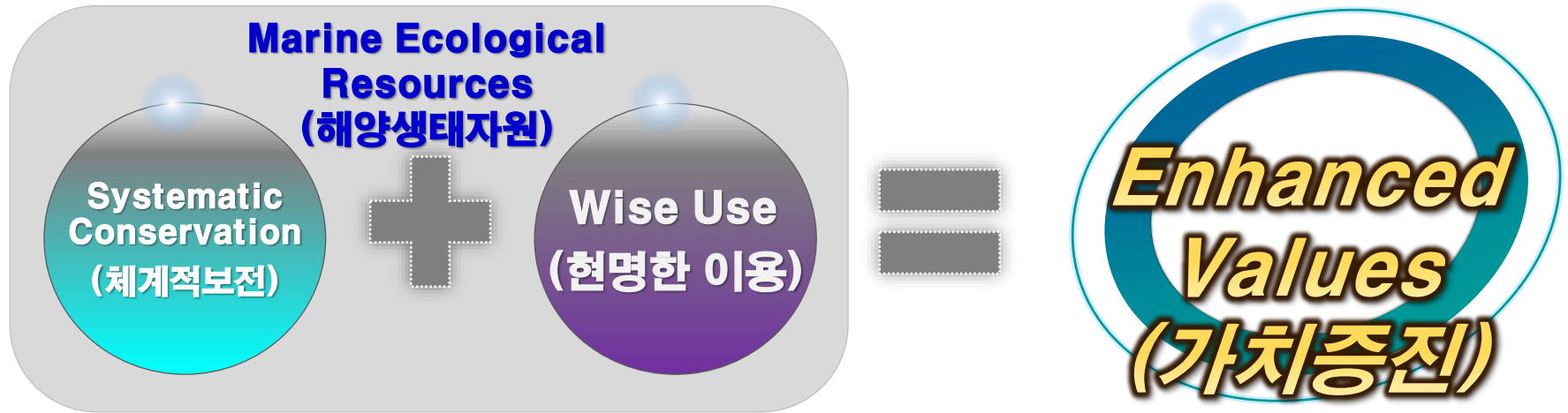


**청다리도요사촌**  
멸종위기 야생생물 I급  
CITES I  
IUCN 멸종위기종



**흰수염바다오리** IUCN 관심필요종

# Current Status of MPA



**(Conservation)** Establishment of conservation plan, operation of management commission



**(Utilization)** Eco-experience Center, utilization of ecological resources, sustainable utilization of marine resources



**(Enhanced Values)** Investment in management programs, invigoration of ecotourism and enhancement of local product values

# Current Status of MPA

## Definition of MPA

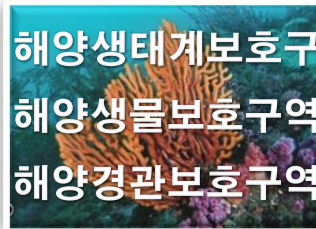
- **Areas of special worth for conservation** because of **its rich marine biodiversity** and ecological importance or **excellent marine assets such as marine landscape**
- **생물다양성**이 우수하여 **생태적으로 중요**하거나 **뛰어난 경관** 또는 **지형/지질학적** 가치를 지녀 **특별히 보전할 필요성이 있는 지역**

## Basis of Designation

### Article 25 of 「**Conservation and Management Of Marine Ecosystems Act**」 (해양생태계법)

- Marine Ecosystem Protected Area
- Marine Species Protected Area
- Marine Landscape Protected Area

- 해양생태계보호구역
- 해양생물보호구역
- 해양경관보호구역



### Article 8 of 「**Wetlands Conservation Act**」 (습지보전법)

- Coastal Wetland Protection Area (습지보호지역)



# Current Status of MPA(2018)

28 MPAs / Total 1,777.449 km<sup>2</sup>

해양보호구역 지정 현황도

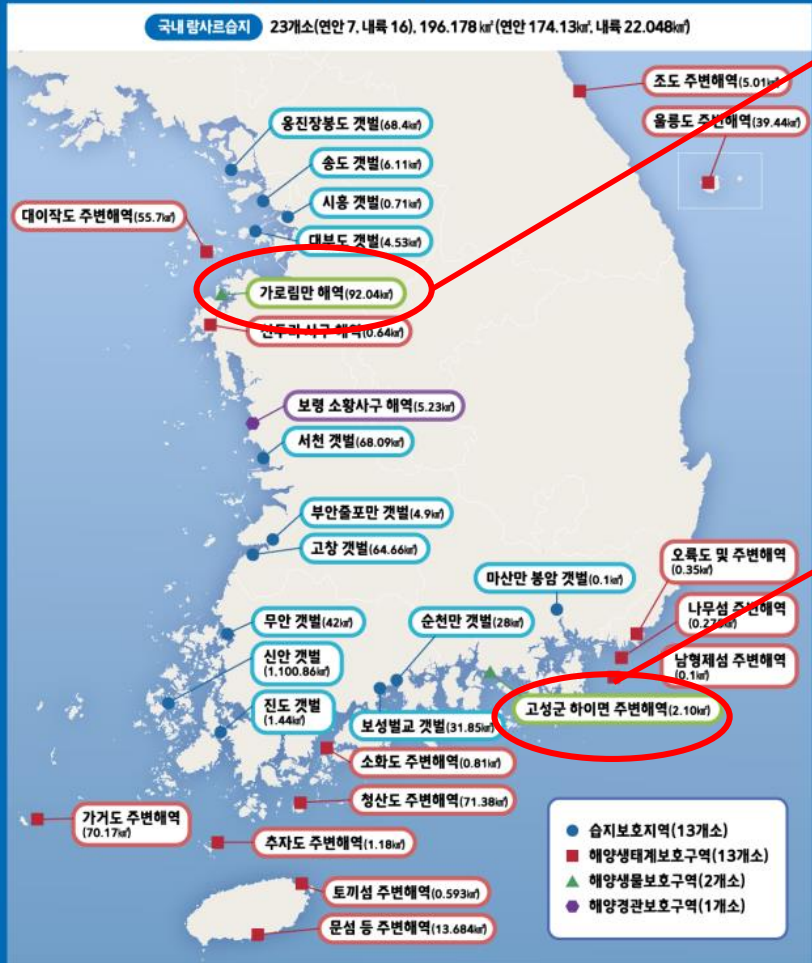


| Type of MPA                            | Area (km <sup>2</sup> )   |
|--|---------------------------|
| <b>Wetland Protection Area</b>         | <b>1,421.65 / 13 MPAs</b> |
| Suncheon                               | 28                        |
| Bosung                                 | 31.85                     |
| Gochang                                | 64.66                     |
| Seocheon                               | 68.09                     |
| Shinan                                 | 1,100.86                  |
| 무안갯벌                                   | 42                        |
| 진도갯벌                                   | 1.44                      |
| 웅진장봉도갯벌                                | 68.4                      |
| 부안줄포만갯벌                                | 4.9                       |
| 송도갯벌                                   | 6.11                      |
| 마산봉암갯벌                                 | 0.1                       |
| 시흥갯벌                                   | 0.71                      |
| 대부도갯벌                                  | 4.53                      |
| <b>Marine Ecosystem Protected Area</b> | <b>259.332 / 13MPAs</b>   |
| 신두리 사구해역                               | 0.64                      |
| 문섬 등 주변해역                              | 13.684                    |
| 오륙도 및 주변해역                             | 0.35                      |
| 대이작도 주변해역                              | 55.7                      |
| 가거도 주변해역                               | 70.17                     |
| 소화도 주변해역                               | 0.81                      |
| 남형제섬 주변해역                              | 0.1                       |
| 나무섬 주변해역                               | 0.275                     |
| 청산도 주변해역                               | 71.38                     |
| 울릉도 주변해역                               | 39.44                     |
| 추자도 주변해역                               | 1.18                      |
| 토끼섬 주변해역                               | 0.593                     |
| 조도 주변해역                                | 5.01                      |
| <b>Marine Species Protected Area</b>   | <b>91.237 / 1 MPAs</b>    |
| 가로림만 해역                                | 91.237                    |
| <b>Marine Landscape Protected Area</b> | <b>5.23 / 1 MPAs</b>      |
| 보령소항사구 해역                              | 5.23                      |

# Current Status of MPA(2019.12)

29 MPAs / Total 1,780.352 km<sup>2</sup>

(29개소, 1,780.352km<sup>2</sup>)



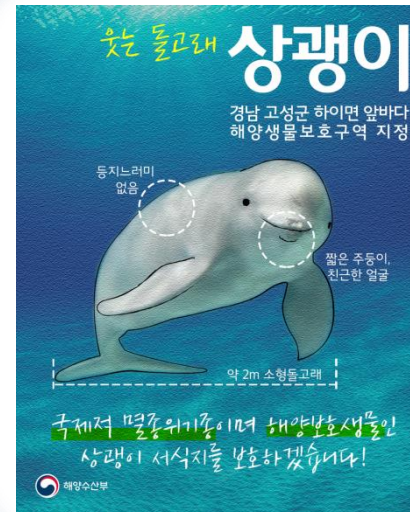
| 지역별<br>해양보호구역 | 인천 | 경기 | 충남 | 전북 | 전남 |
|---------------|----|----|----|----|----|
|               | 3  | 2  | 4  | 2  | 8  |
|               | 경남 | 부산 | 경북 | 강원 | 제주 |
|               | 2  | 3  | 1  | 1  | 3  |

| 람사르<br>습지<br>면적 | 순천만·보성갯벌             | 무안갯벌                 | 고창·부안갯벌              |                     |
|-----------------|----------------------|----------------------|----------------------|---------------------|
|                 | 35.50km <sup>2</sup> | 35.89km <sup>2</sup> | 45.50km <sup>2</sup> |                     |
|                 | 서천갯벌                 | 증도갯벌                 | 송도갯벌                 | 대부도갯벌               |
|                 | 15.30km <sup>2</sup> | 31.30km <sup>2</sup> | 6.11km <sup>2</sup>  | 4.53km <sup>2</sup> |

## Extension of Garorim Bay



Request  
From local residents  
(91.237km<sup>2</sup>  
→ 92.04km<sup>2</sup>)



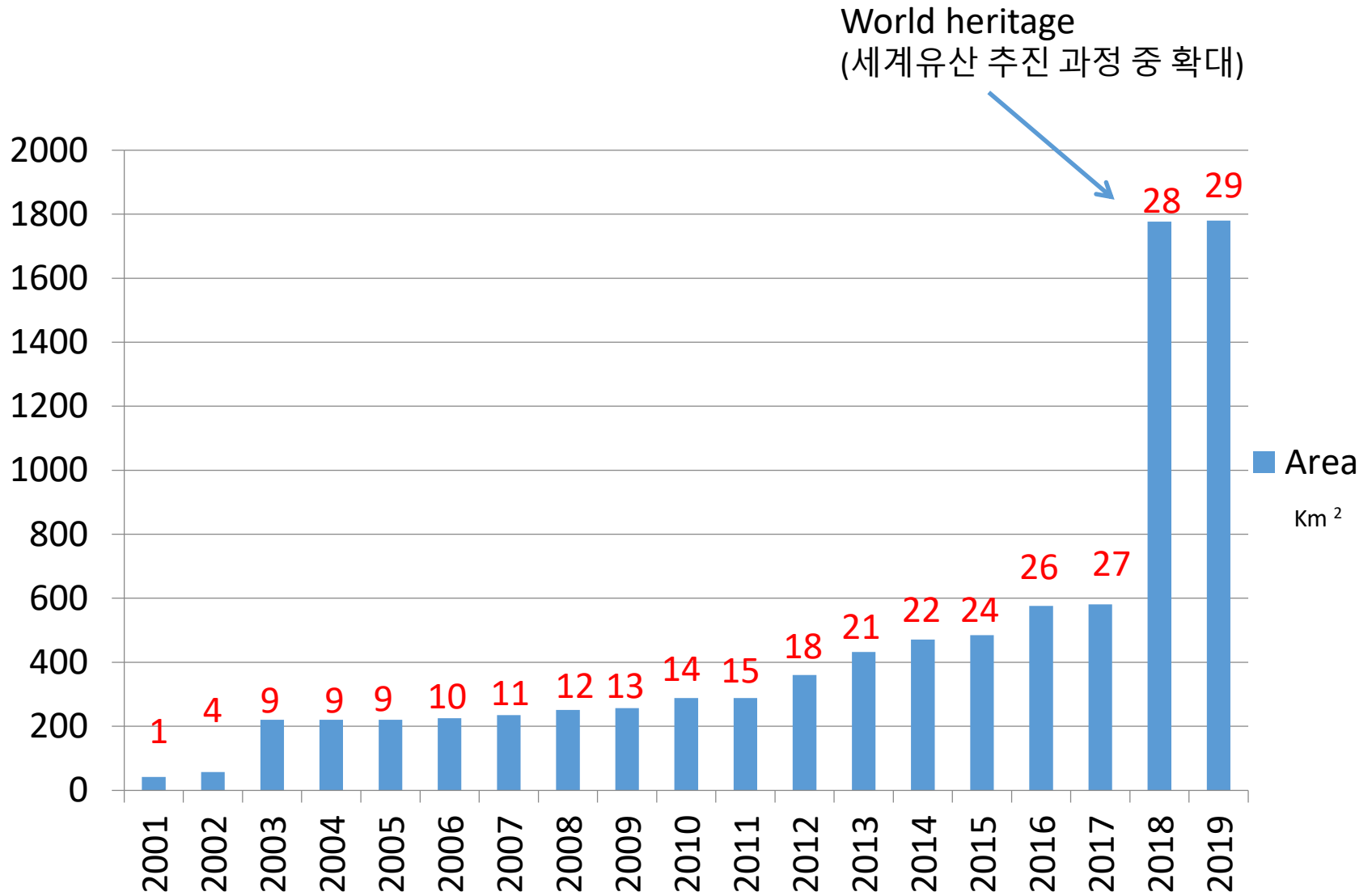
## Gyeongnam Goseong

Finless porpoise  
(*Neophocaena  
Asiaeorientalis*)

( 2.01 km<sup>2</sup> )



# Current Status of MPA





## II. Legal system and Policies (법 · 정책 시스템)

# Legal system and Policies

## Basis of Designation

- 『Wetlands Conservation Act』 Article 8
- 『습지보전법』 제8조제1항



1. An area that has **native continuity** or **rich biodiversity**

1. 자연상태가 원시성을 유지하고 있거나 생물다양성이 풍부한 지역



2. An area inhabited or visited by a **rare or endangered wild animal or plant**

2. 희귀하거나 멸종위기에 처한 야생동식물이 서식/도래하는 지역



3. An area that has **extraordinary scenic, topographic, or geologic value**

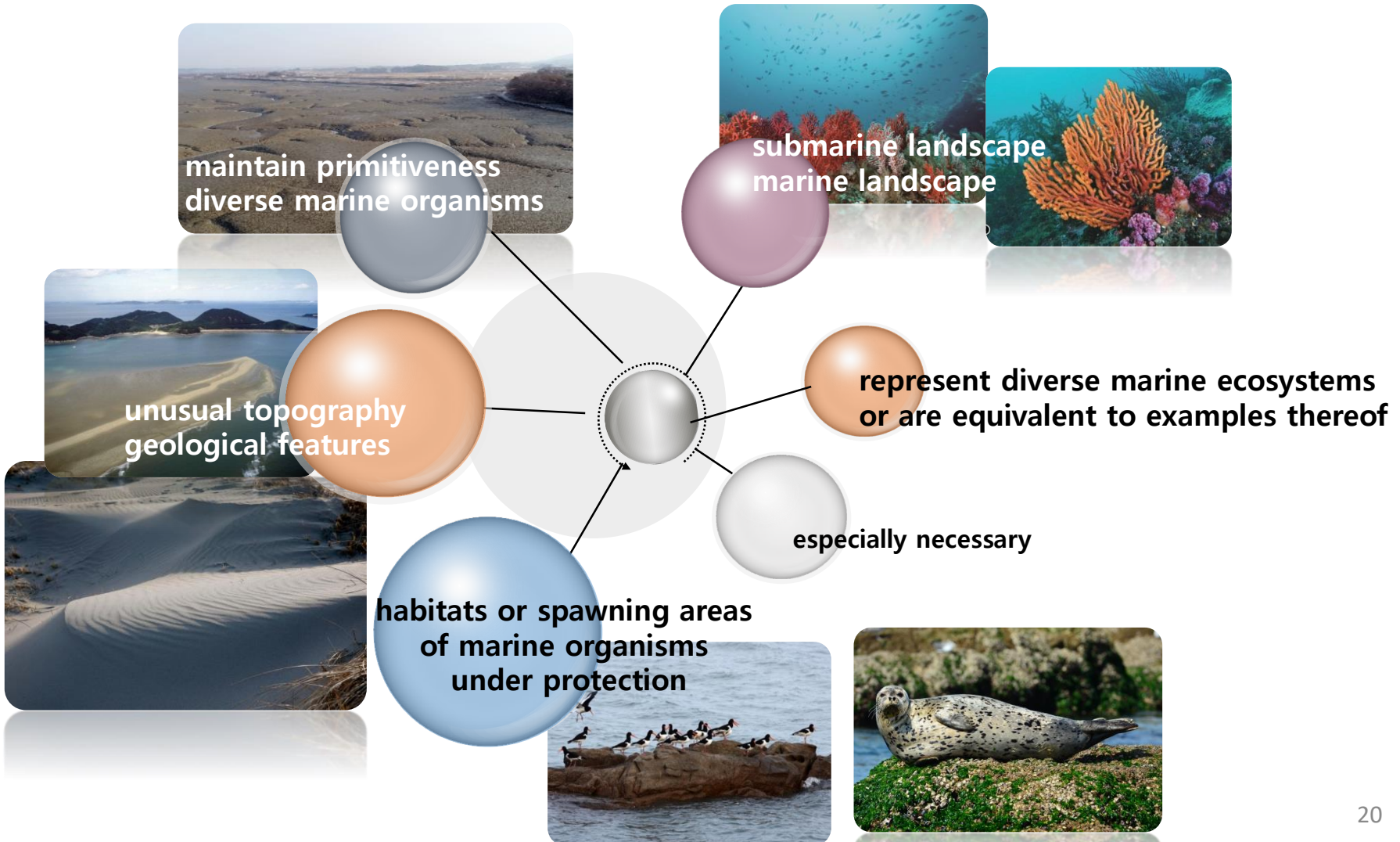
3. 특이한 경관적·지형적 또는 지질학적 가치를 지닌 지역

# Legal system and Policies

## Basis of Designation

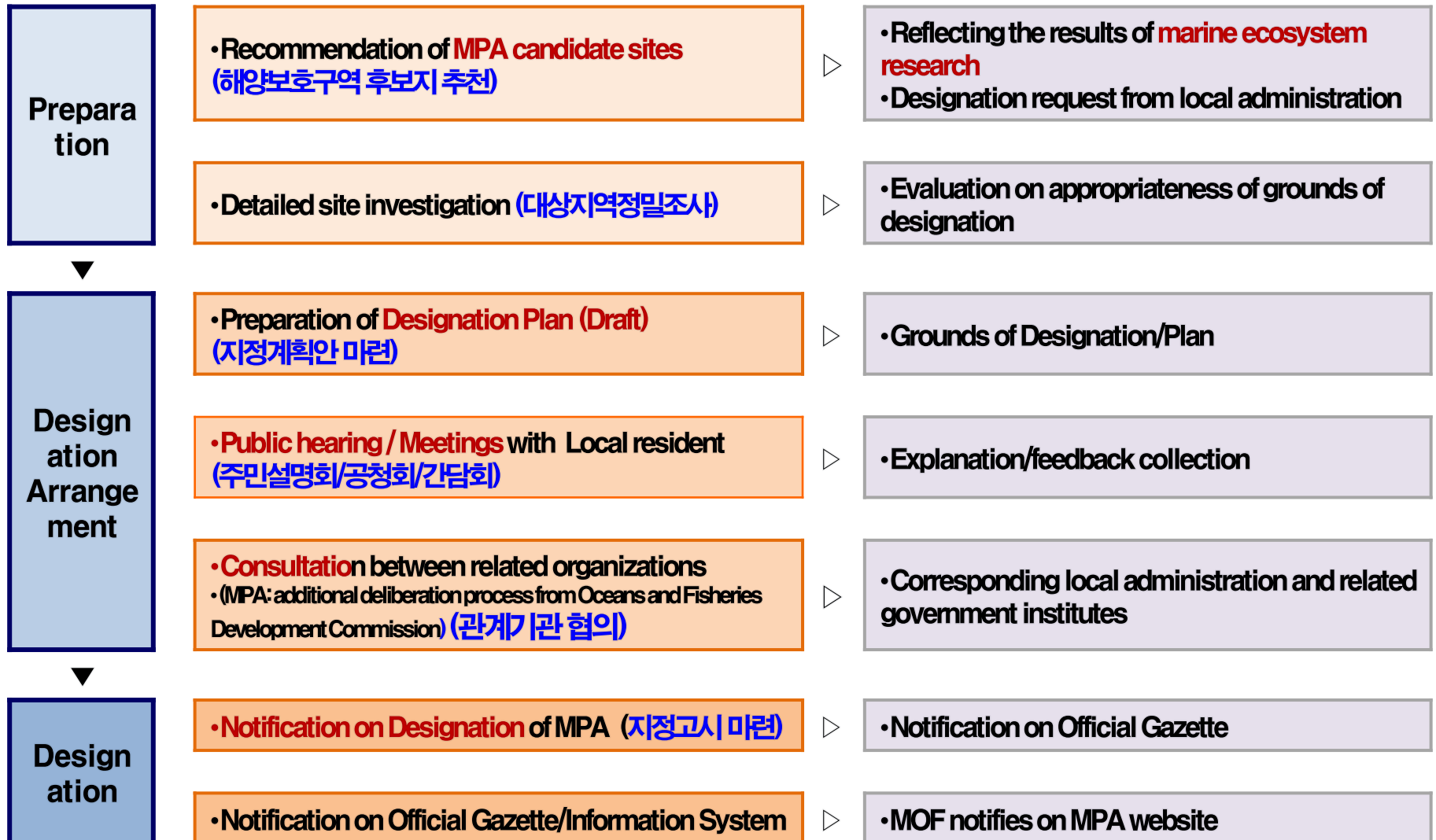
『 **Conservation and Management Of Marine Ecosystems Act** 』 (해양생태계법) Article 25

- \*자연생태가 원시성을 유지, 해양생물 다양성이 풍부
- \*지형지질생태가 특이하여 학술적 연구 또는 보전이 필요한 지역
- \*기초생산력이 높거나 보호대상해양생물 서식지·산란지 등
- \*다양한 해양생태계를 대표할 수 있거나 표본에 해당하는 지역
- \*산호초·해초 등의 해저경관 및 해양경관이 수려
- \*그 밖에 특별히 필요한 해역



# Legal system and Policies

## Designation Process



# Legal system and Policies

## Restrictions

### Construction

- Newly constructing or extending buildings
- Changing the quality of public waters or land



### Damaging marine organisms

- Capturing, collecting, transplanting
- Damaging the breeding grounds and habitats
- Influencing marine species by producing sound, light, vibration, odor



### Changing of Public water

- Changing the structure of public waters
- Increasing or decreasing the water level or quantity of the sea water



### Others

- Damaging, destroying or relocating notices on the conservation and management of marine ecosystems or other landmarks
- Throwing away harmful substances, toxic substances

### Collecting Marine Resource

- Collecting the sea sand, quartz sand, soil and stones
- Extraction of minerals



# Legal system and Policies

## Permitted Activities

### Nonapplication of Restrictions



- 1 Where it is necessary for military purposes (필요시, 군사적 목적)
- 2 urgent measures to cope with natural or other disasters (자연재해)
- 3 **maintaining the existing farming or fishing for local residents (기존 어업 행위 유지)**
- 4 establish necessary facilities, so as to protect and manage protected marine areas (해양보호구역 관련 시설)
- 5 facilities for experiencing ecosystems

### Consultation required



- 2 Where the heads of the relevant administrative agencies are directly engaged in development activities under other statutes, or where the authorization or permission of the relevant administrative agencies are given

### Permit required



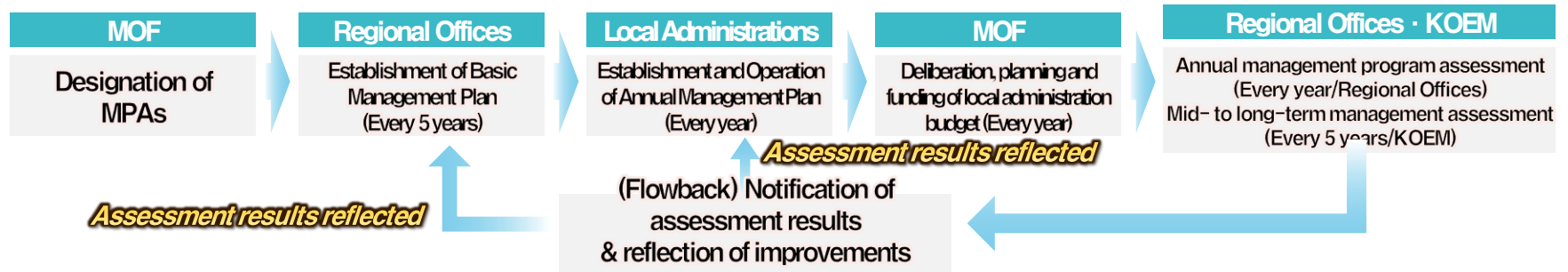
- 3 Acts or related facilities for conducting an academic investigation or research (과학적 조사)

→ Authority of Permission and Consultation:  
Regional Office of Oceans and Fisheries

# Legal system and Policies

## Management Operation System

- ✓ **(MOF · KOEM)** Designation, monitoring, subsidization, Raising Awareness,



- ✓ **(Regional Office)** Establishment of 5-Year Basic Management Plan, Provision · Assessment of Subsidies
  - Collection of opinions of local administrations · regional commission · local residents
- ✓ **(Local administrations)** implementation of yearly MPA programs

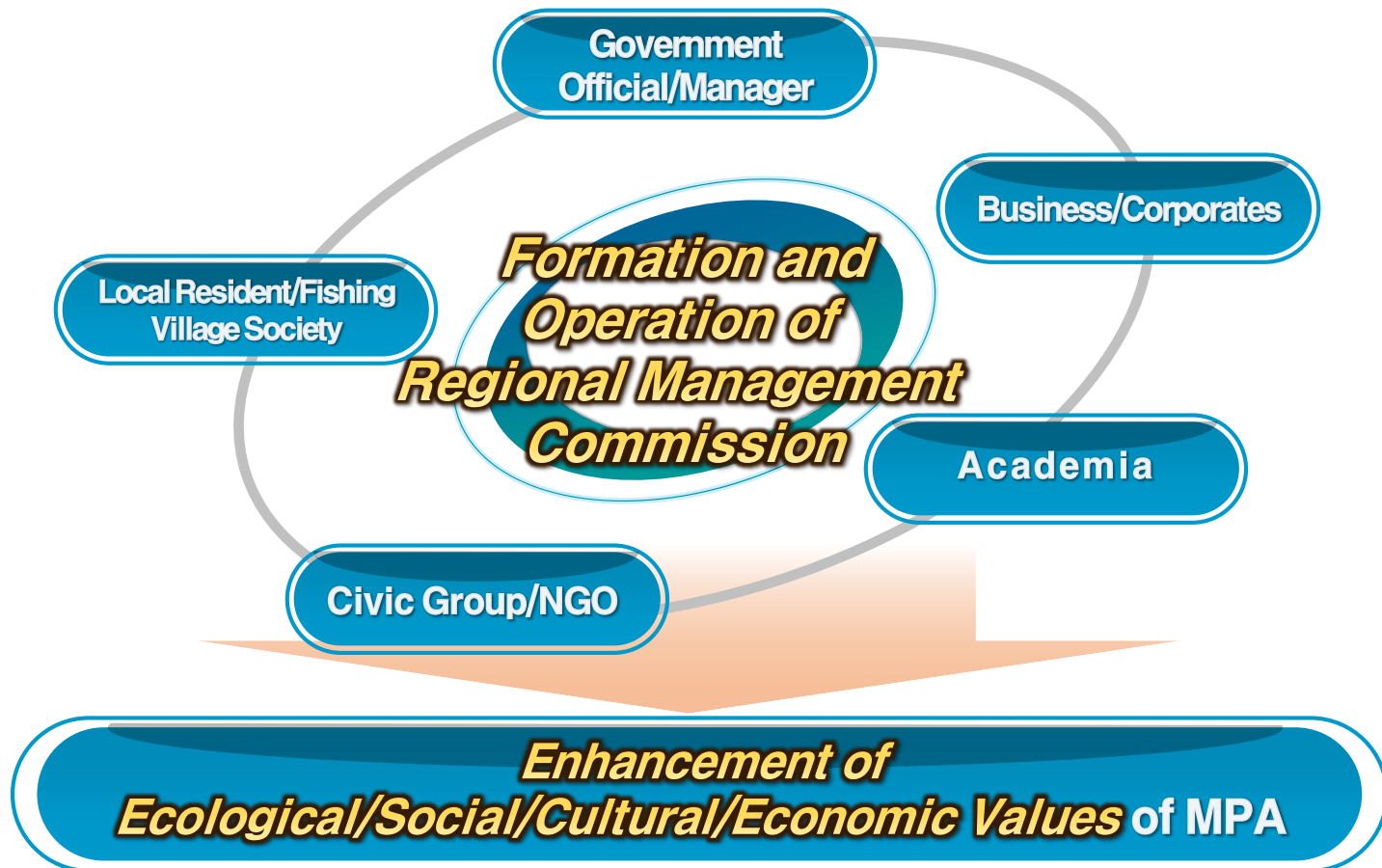
- ✓ **(해수부 · KOEM)** 지정, 모니터링, 예산지원, 인식증진(전국단위), 국제협력
- ✓ **(지방청)** 관리기본계획(5년 단위) 수립, 보조금 교부 · 평가
  - 지자체 · 지역위원회 · 지역주민 등의 의견수렴
- ✓ **(광역 · 기초지자체)** 연차별 사업시행 수립 및 운영



# Legal system and Policies

## Management Operation System

- Regional Participatory Management System (지역사회 참여형, 지역주도형 관리)



# Legal system and Policies

## Wetland Conservation Act



- 1999
- **Effective Conservation and management of Tidal Flat**
- Tidal Flat Surface Area Survey
- Wetland Conservation Master Plan/ Wetland Protected Area Conservation Plan

## Marine Ecosystem Act



- 2006
- **Integrated Policy**
- National Marine Ecosystem Monitoring Programme
- Marine ecosystem conservation and management master plan/MPA management plan

## Tidal Flat Act



- 2019 (2020)
- **Sustainable use and conservation**
- Tidal flat status survey
- Management and Restoration Master Plan of tidal flat/**Restoration** Project Plan of Tidal Flat

# Legal system and Policies

## Marine Spatial Planning Act/해양공간계획법 (2018)

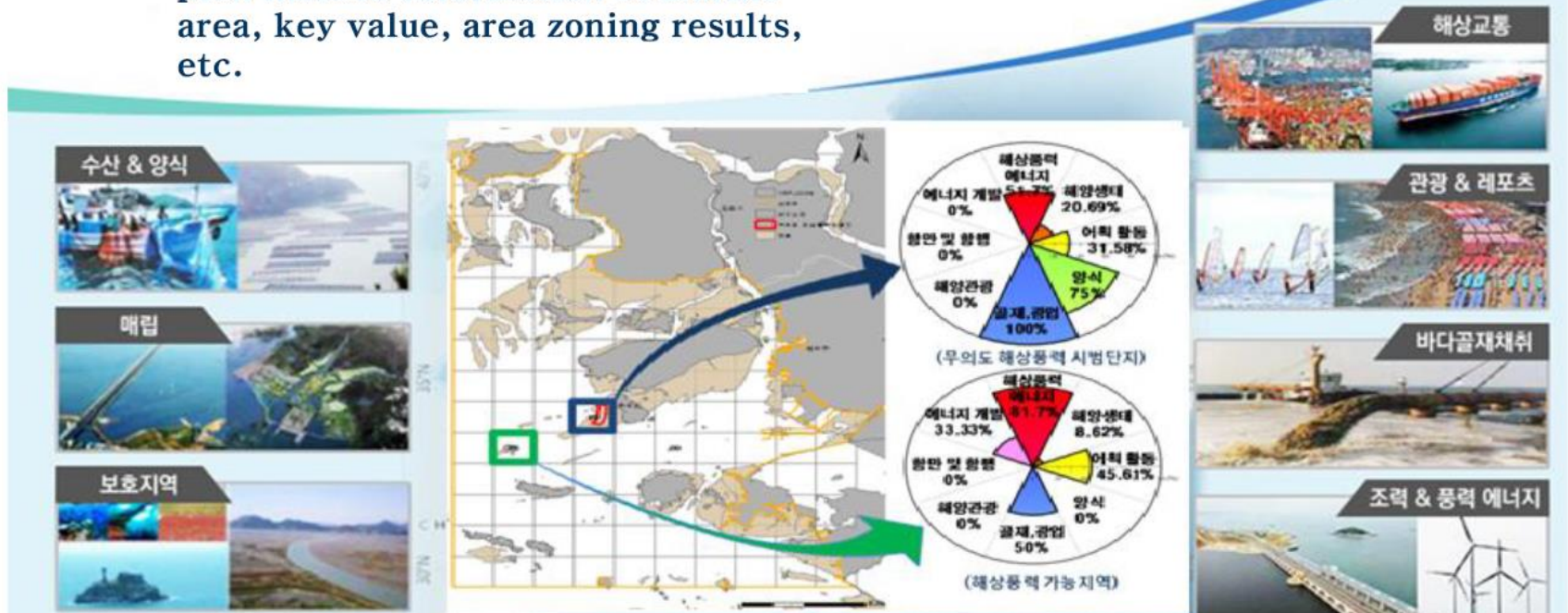
The introduction of marine spatial integrated management system

- ✓ Paradigm shift to 'plan first-use after'

→ Establishment of Marine spatial plan include information of marine area, key value, area zoning results, etc.

Integrated information of Oceans/Fisheries and Open to the private sector based on BIG-DATA

- ✓ Supports of integrated management and private utilization





### **III. MPA Management Project**

# MPA Management Project

Management  
Project  
(관리사업)

Marine litter disposal  
해양쓰레기 처리



Building Visitor Centers  
방문객센터 설립



MPA Center Network  
지역해양보호구역센터 네트워크



International Cooperation  
국제협력



Citizen Monitoring 시민모니터링



MPA Management Assessment 관리평가



World Wetland Day Ceremony 습지의날



MPA Congress 해양보호구역대회



# MPA Management Project

## - 태안가로림만 해역 해양보호구역 관리사업 (ex. Taean Garorim Bay)

### <명예지도원 제도>

방문객 대상 해양보호구역 및 지역소개

해양 훼손행위 감시 및 계도

쓰레기 수거 및 분포현황 관찰

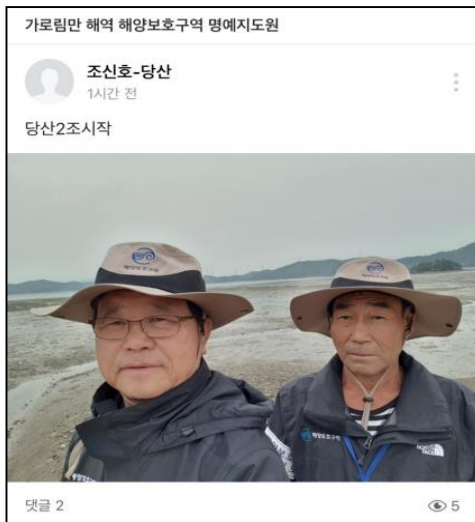
### <Honorary instructor>

Introduce MPA to Visitors

Monitoring MPA site and damaging activities

Garbage Collection

Finding out distribution Status



# MPA Management Project

- 태안가로림만 해역 해양보호구역 관리사업 (ex. Taean Garorim Bay)

## <해양쓰레기 수거/Marine litter>



## <편의시설 설치/Constructing MPA Facilities>

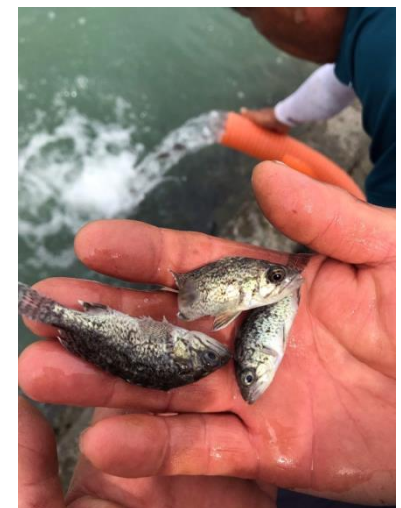


## <양식장 환경개선/

Oyster Farm Environment Enhancement>



## <치어방류사업/Releasing juvenile fish>



# MPA Management Project

## - 태안가로림만 해역 해양보호구역 관리사업 (ex. Taean Garorim Bay)

### <선진지 견학-Visiting other MPA sites>



### <대국민 인식증진-Public awareness>



### <지역관리위원회-Local MPA committee>







IV

Suggestion (제 언)

# World Heritage Inscription(Korea)

- ▶ The government of the Republic of Korea is now nominating the country's **Southwestern coast of the Yellow Sea** as the UNESCO's World Heritage listing in 2020

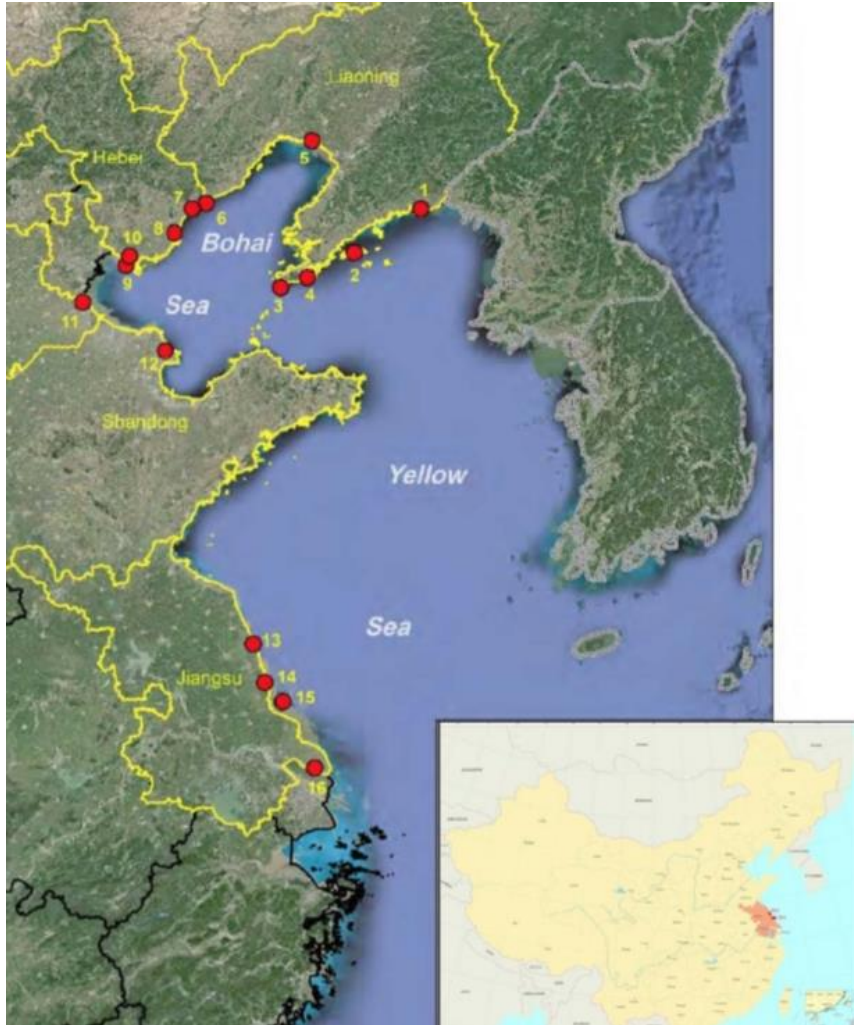
Total 129,346ha

- ▶ Seocheon Getbol
- ▶ Gochang Getbol
- ▶ Shinan Getbol
- ▶ Boseong-Suncheon Getbol



# World Heritage Inscription (China)

▶ Bird migratory site, [Yancheng](#) → UNESCO World Heritage(2019)



# Yellow Sea Large Marine Ecosystem (YSLME)

2005

2016

↓ 2020

Phase 1

Small Grant  
(소액사업 추진)

→ Who can be a partner??  
(잠재적 파트너 찾기, 양성)

- ✓ Black faced spoon bill  
(저어새 보전활동)
- ✓ Promotion of local residents participation, Education, Network  
(주민참여, 교육, 네트워크)
- ✓ Ecosystem Monitoring  
(생태계모니터링-시범지역)
- ✓ Marine litter(해양쓰레기)

Phase 2

Target Species  
(타겟종별 논의)

Update of  
Potential Protected Area  
(보호지역 파악/업데이트)



Phase 3

- ✓ Designating a New MPA considering “connectivity” ??  
(생태적 연결성을 고려 새로운 MPA의 지정?)
- ✓ Education programme??  
(교육 프로그램 진행)
- ✓ Network???  
(네트워크 협력, 강화)
- ✓ DPRK ? (북한)

# THANK YOU

**Korea's future lies in the Ocean,**

We don't live in the ocean. But we need the ocean to live.

