



Coastal Wetland Conservation & Management Policies in Republic of Korea



Ministry of Oceans
and Fisheries

September 4 2016





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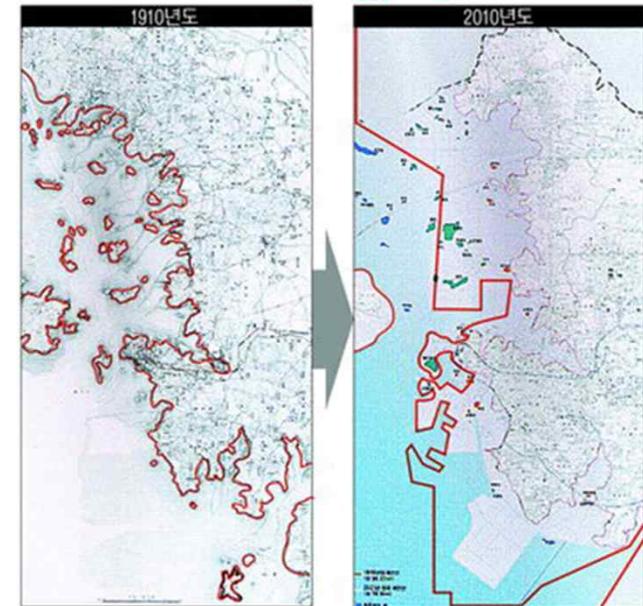
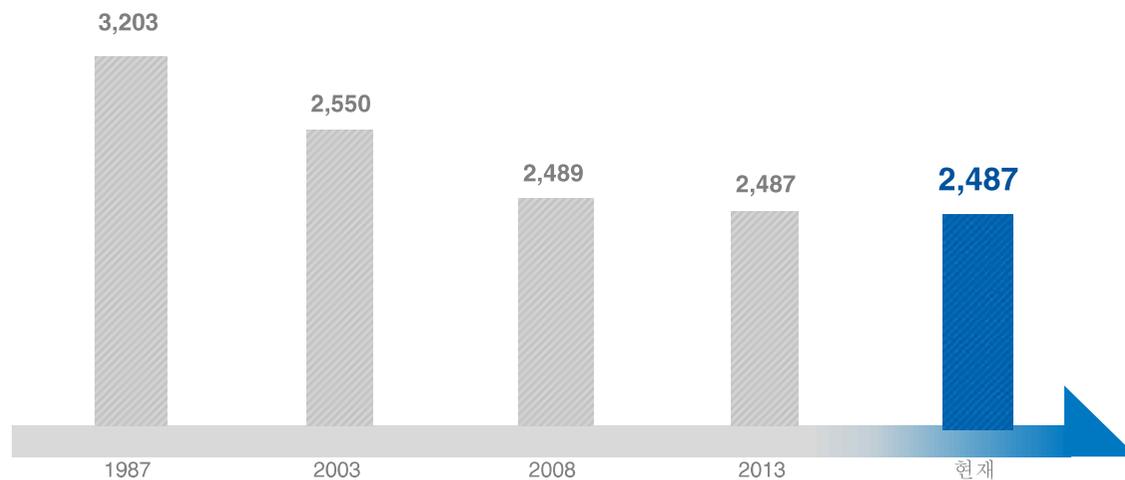
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Current Status and Value

Tidal Flat in Korea Surface



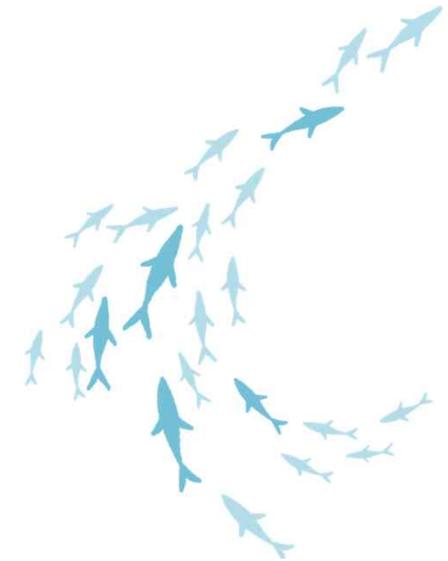
- * 40% of use : fisheries(MOF, 2011)
- Village community fishery(762km², 2,289 units)
- Shell fish aquaculture(237km², 2,120 units)



Current Status and Value

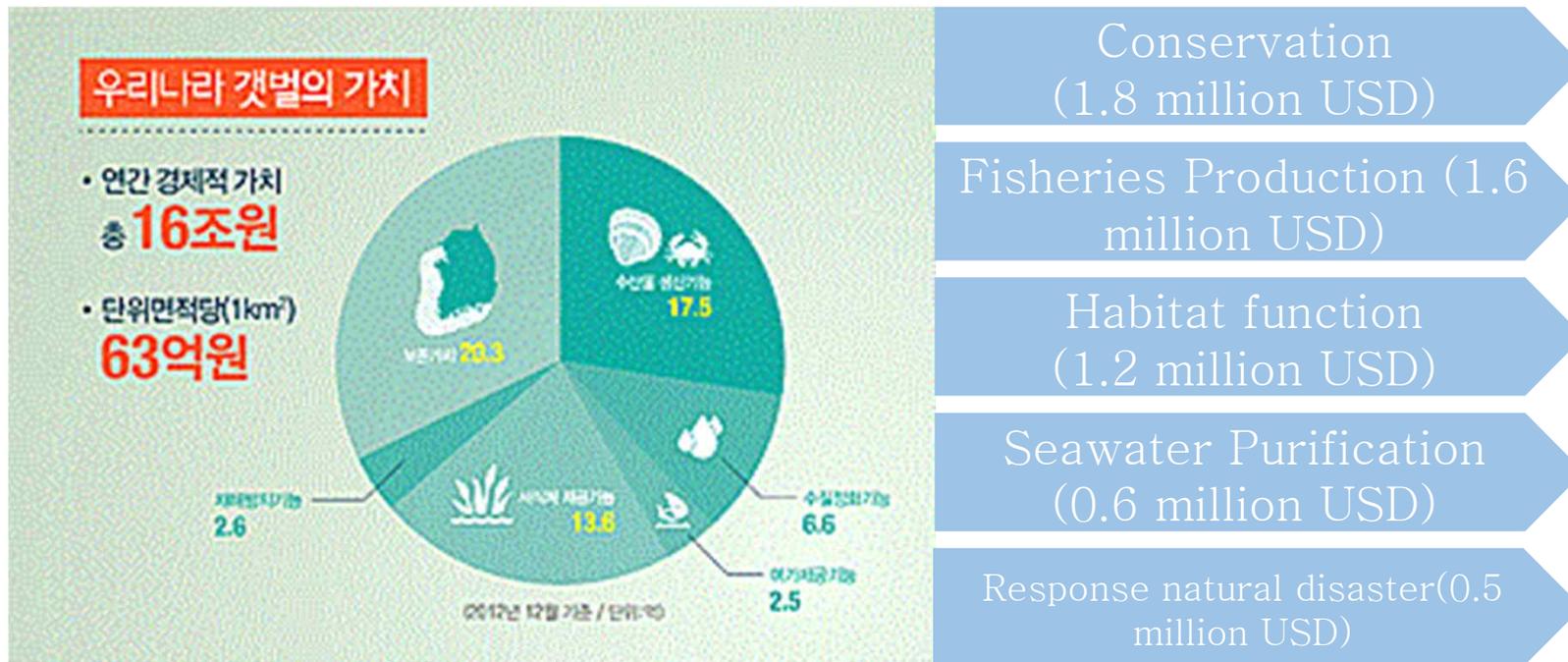
Tidal Flat in Korea

Value



- about 5.6 million USD / km² (=6.3 million KW)(MOF, 2013)

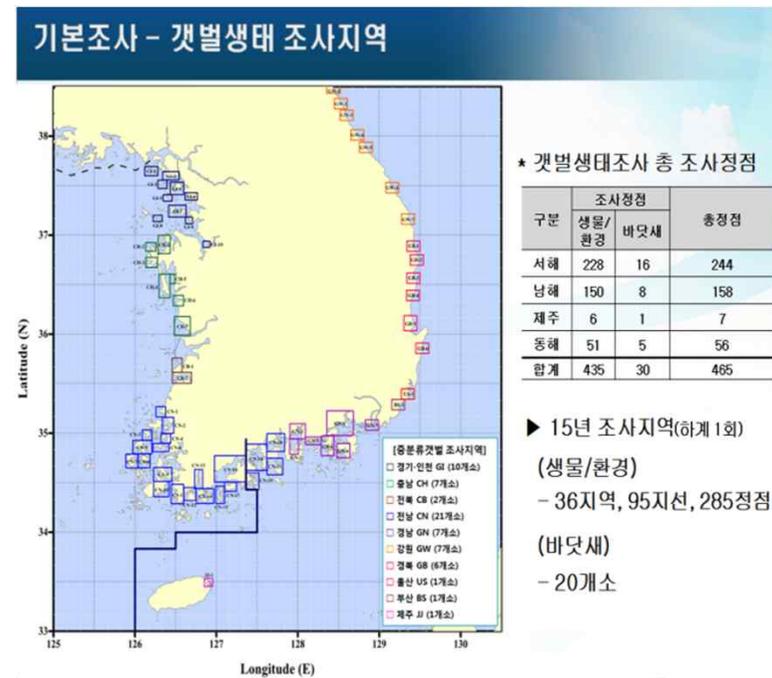
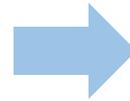
*Total economic valuation 14.4 Billion USD estimated



Coastal Wetland Management

National survey programs

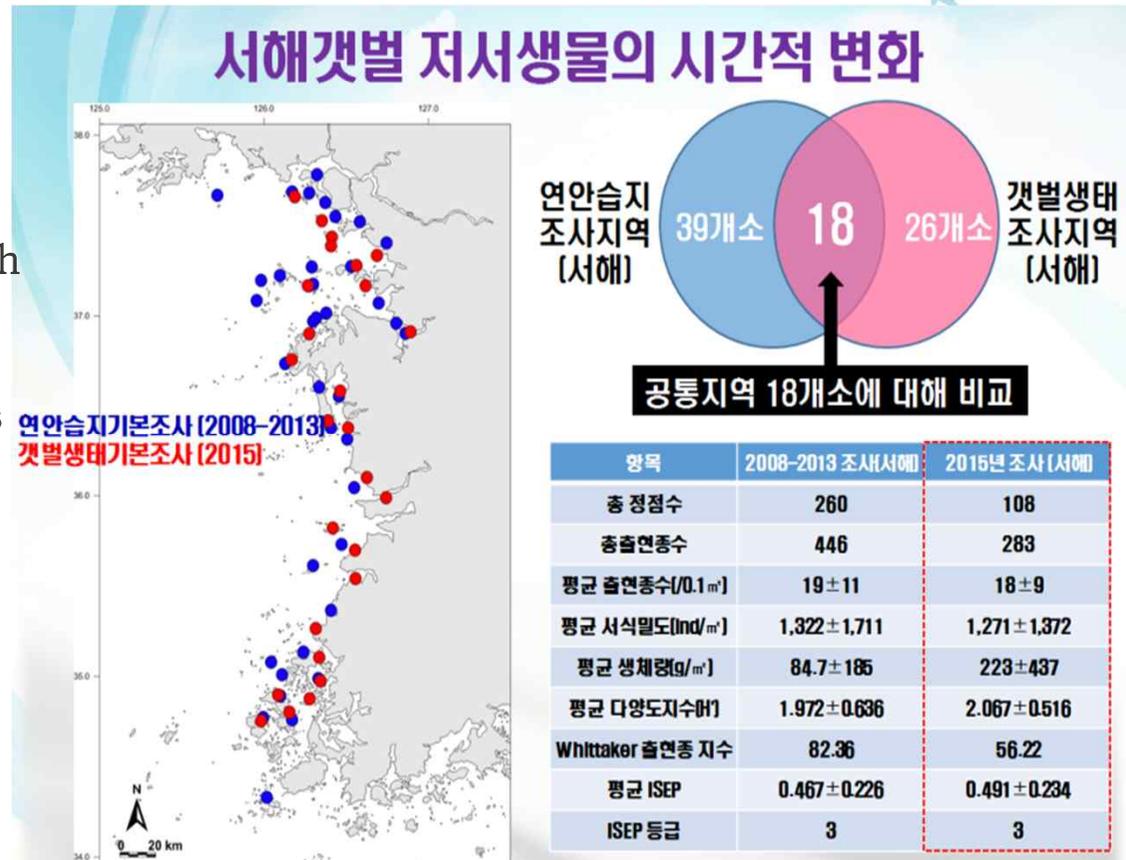
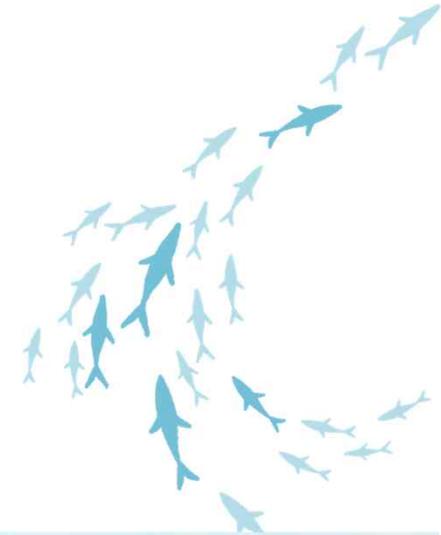
- National Basic Survey of Coastal Wetland(1999~2014)
- National Integrated Survey of Marine Ecosystem(2015~)



Coastal Wetland Management

Main Results from National Survey : Benthos(MOF, 2015)

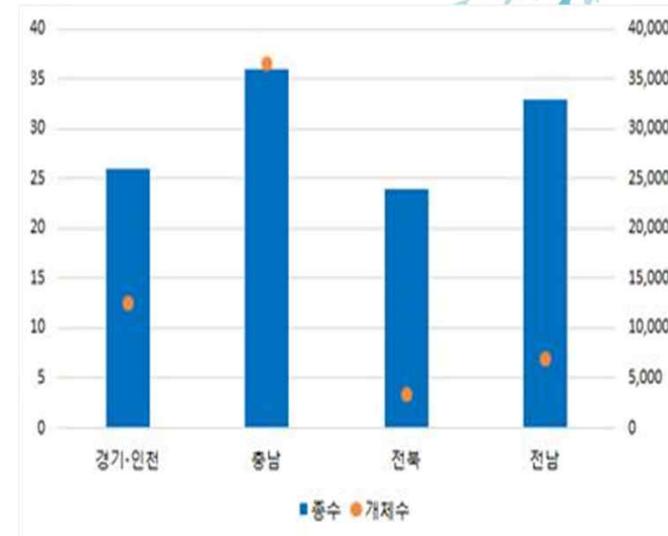
- appearance of 401 species of macrobenthos
- Comparing with precedent data (2008~2013) : stable of biomass, density, health index
- Increasing of density and biomass Oyster, shell(Clam)



Coastal Wetland Management

Main Results from National Survey : Sea Bird(MOF, 2015)

- Appearance
 - 49 species,
 - 59,262 ind. in 15 sites
- 8 of legal protected species



<검은머리갈매기>



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<저어새>



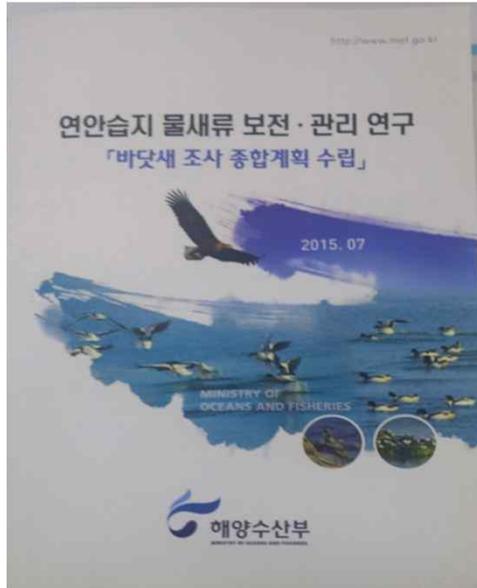
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Coastal Wetland Management

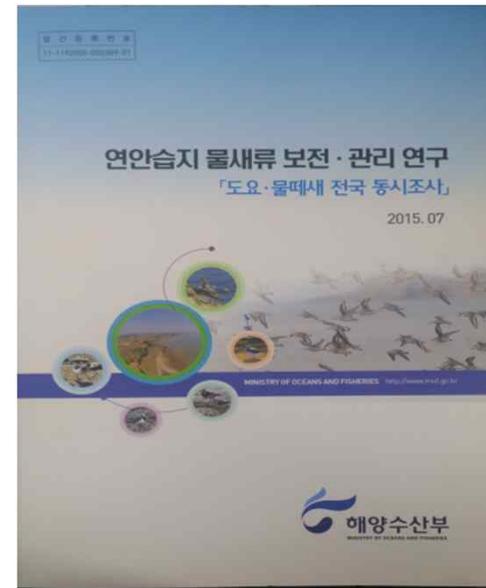
Outcomes from Sea Birds Conservation and Management Project(2014)



·National plan of Sea Bird Long-term Survey (MOF, 2015)



·National report on sea bird monitoring in East Sea(MOF, 2015)



·National report on monitoring of Sea bird (Snipe & Plover)(MOF, 2015)



·National Symposium on Habitat conservation of Sea Bird in Yellow Sea(Dec. 2015)

Coastal Wetland Management

Designation and Management of 25 MPAs

- 13 of Coastal Wetland Protected Areas (231.28 km²)
- * 12 of Marine Protected Areas (344.966 km²)

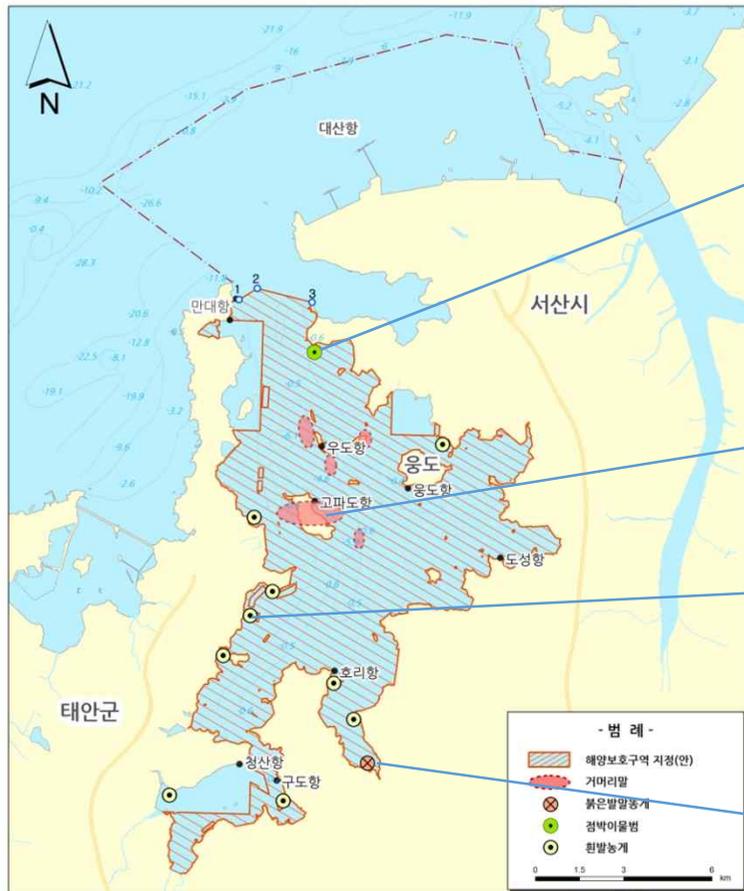


지정명칭	지정일자	면적	원칙	관리사업	관리종
습지보호지역 (13개소) (단위: 습지보호법 제8조 (2) 1 231km ²)					
부안갯벌 습지보호지역	2001.12.28	42km ²	신남부안면, 부안군, 대천해역	08년부터	국립해양생태연구소
진도갯벌 습지보호지역	2002.12.28	1,441km ²	진도군 진도면, 진도군, 진도해역	05년부터	국립해양생태연구소
시흥갯벌 습지보호지역	2003.12.31	281km ²	시흥시 대정면, 대정면, 대정해역	05년부터	국립해양생태연구소
보성벌교갯벌 습지보호지역	2003.12.31	10,811km ²	보성군 보성면, 보성군, 보성해역	08년부터	국립해양생태연구소
웅진장봉도갯벌 습지보호지역	2003.12.31	68.41km ²	웅진시 웅진면, 웅진면, 웅진해역	08년부터	국립해양생태연구소
부안출포만갯벌 습지보호지역	2006.12.05	4.91km ²	부안군 부안면, 부안면, 부안해역	07년부터	국립해양생태연구소
고창갯벌 습지보호지역	2007.12.31	10,411km ²	고창군 고창면, 고창면, 고창해역	07년부터	국립해양생태연구소
서천갯벌 습지보호지역	2008.1.30	15,811km ²	서천군 서천면, 서천면, 서천해역	08년부터	국립해양생태연구소
서천갯벌 습지보호지역	2008.12.31	6,111km ²	서천군 서천면, 서천면, 서천해역	10년부터	국립해양생태연구소
마산만방암갯벌 습지보호지역	2010.1.29	31,811km ²	마산합포구 마산면, 마산면, 마산해역	10년부터	국립해양생태연구소
마산만방암갯벌 습지보호지역	2011.12.10	6,111km ²	마산합포구 마산면, 마산면, 마산해역	12년부터	국립해양생태연구소
시흥갯벌 습지보호지역	2012.2.17	6,711km ²	시흥시 대정면, 대정면, 대정해역	12년부터	국립해양생태연구소
비금·도초도갯벌 습지보호지역	2015.12.29	12,821km ²	비금면, 비금면, 비금해역	16년부터	국립해양생태연구소
해양생태계 보호구역 (11개소) (단위: 해양생태계의 보전 및 관리에 관한 법률 제25조 (2) 59,729km ²)					
신두리사구해양보호구역	2002.10.9	0.641km ²	신두리사구면, 신두리사구면	05년부터	국립해양생태연구소
문섬등해양보호구역	2002.11.5	18,684km ²	문섬면, 문섬면, 문섬해역	05년부터	국립해양생태연구소
오륙도해양보호구역	2003.12.31	0.951km ²	오륙도면, 오륙도면, 오륙도해역	08년부터	국립해양생태연구소
대이작도해양보호구역	2003.12.31	55.71km ²	대이작도면, 대이작도면, 대이작도해역	08년부터	국립해양생태연구소
가거도해양보호구역	2012.11.30	70.171km ²	가거도면, 가거도면, 가거도해역	18년부터	국립해양생태연구소
순천만해양보호구역	2012.11.30	0.811km ²	순천만면, 순천만면, 순천만해역	18년부터	국립해양생태연구소
나주도해양보호구역	2013.11.29	0.2751km ²	나주도면, 나주도면, 나주도해역	14년부터	국립해양생태연구소
남형제섬해양보호구역	2013.11.29	0.111km ²	남형제섬면, 남형제섬면, 남형제섬해역	14년부터	국립해양생태연구소
청산도해양보호구역	2013.11.29	71,881km ²	청산도면, 청산도면, 청산도해역	14년부터	국립해양생태연구소
울릉도해양보호구역	2014.12.29	89,441km ²	울릉도면, 울릉도면, 울릉도해역	15년부터	국립해양생태연구소
추자도해양보호구역	2015.12.29	1,181km ²	추자도면, 추자도면, 추자도해역	16년부터	국립해양생태연구소
해양생물 보호구역 (1개소) (단위: 해양생물의 보전 및 관리에 관한 법률 제25조 (9) 1,297km ²)					
가로림만해양생물보호구역	2010.07.28	91,297km ²	가로림만면, 가로림만면, 가로림만해역	17년부터	국립해양생태연구소

Coastal Wetland Management

Recent Designation of Garolim Bay as Marine Life Protected Area(the first designation case in Korea)

* 91.237 km² of surface including tidal flat (28 July 2016)



Coastal Wetland Management

Management of Coastal Wetland Protected Areas

- Management Plan
- Regional Advisory Council
- Citizen Monitoring Program, Eco-guide
- Tidal flat visitor center, Center network
- International Cooperation(RAMSAR, Wadden Sea)
- World Wetland Day, Korean MPAs Day



Coastal Wetland Management

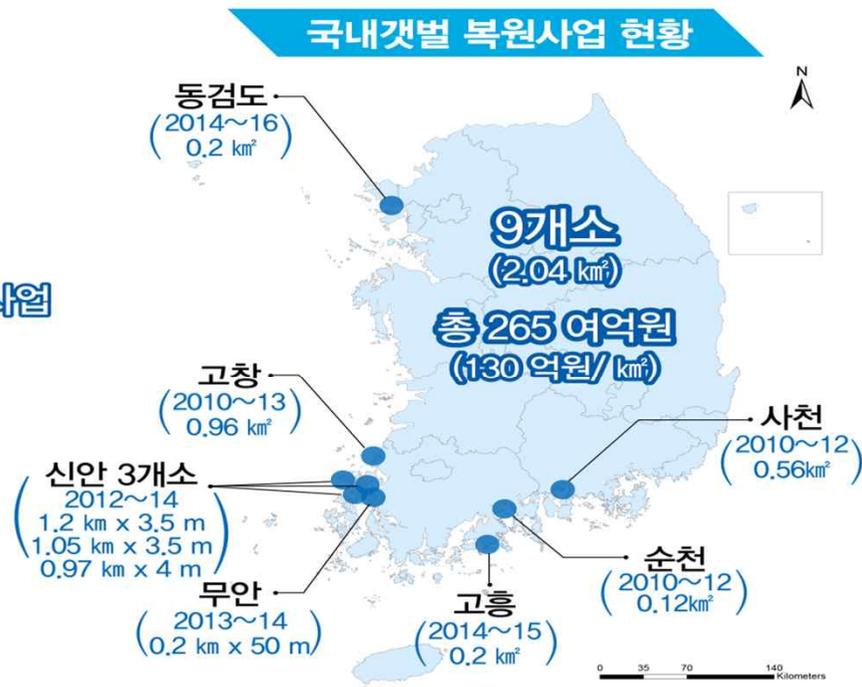
Tidal Flat Restoration

Restoration to tidal flat from abandoned salt farm or closed aquaculture farm,
enhancement of sea current around submergible road

: 8 sites determined, 3 sites in processing

◆ 국내 갯벌 복원 주요동향

- 2003
 - 갯벌 복원 계획 수립 연구
- 2009
 - 우선 복원대상지 17개소 선정
- 2010
 - **순천 / 고창 / 사천 갯벌 복원 시범 사업**
(19억원) (153억원) (20억원)
- 2012
 - 신안 3개소 갯벌 복원 사업
(19억원)
- 2013
 - 무안 갯벌 복원 사업
(4.3억원)
- 2014
 - **고흥갯벌 및 강화 동검도 복원 사업**
(4.2억원) (45억원)
- 2015
 - **갯벌자원화계획(안) 발표**
※갯벌 복원 대상지 재조사/복원대상지 우선순위 선정 기준 마련
- 2016



우리나라 갯벌의 경제적 가치: 63억원/km²/년

Direction of Coastal Wetland Management

Management of Coastal Wetland Protected Areas(MPAs)

Development Tidal flat
Resources

- Enlargement of Restoration
- Eco-tourism
- Environment friendly fisheries

Management Plan for
MPAs

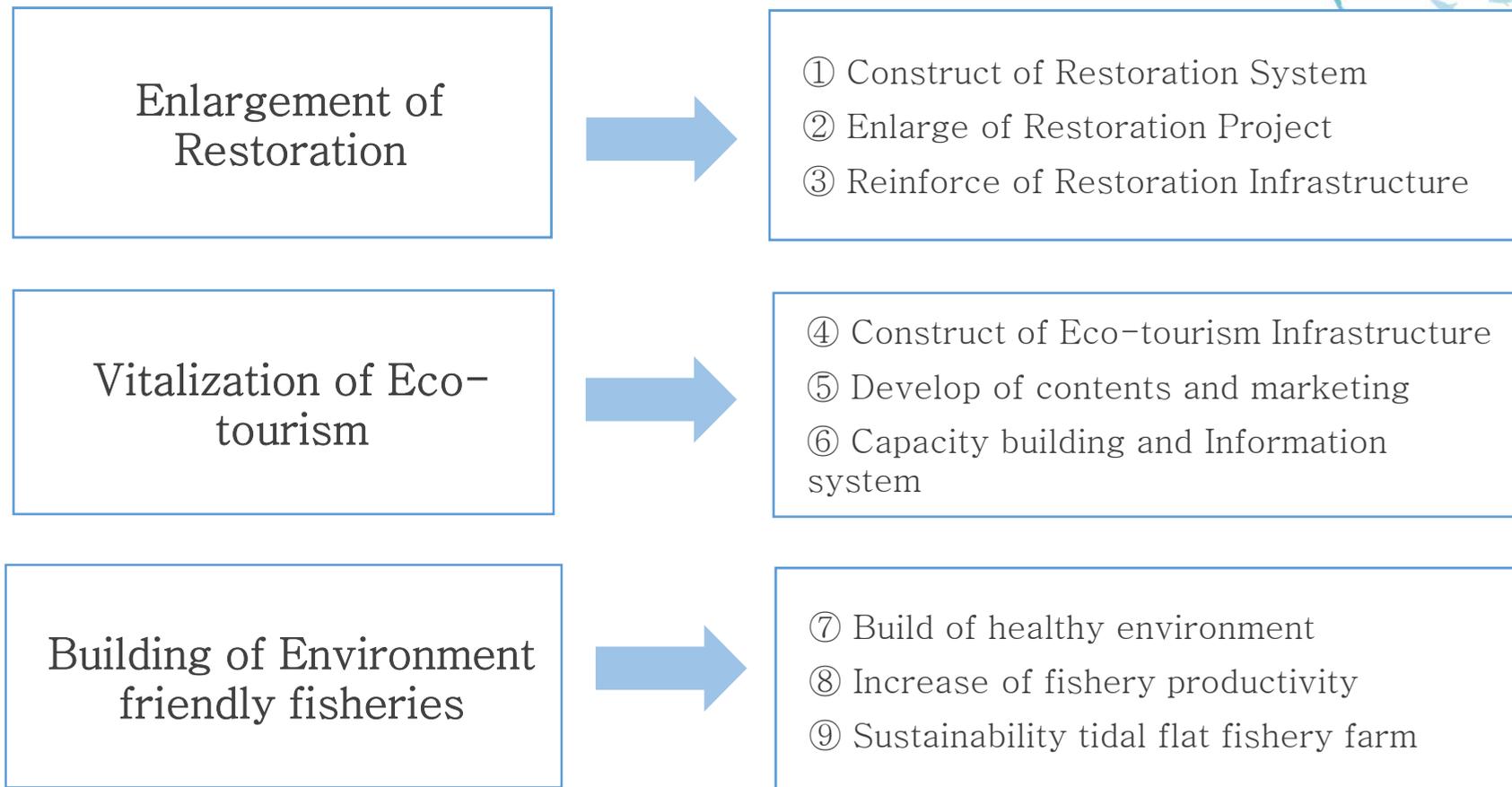
- Conservation and Restoration of Ecosystem
- Sustainable use and management
- Raise Quality of life



Direction of Coastal Wetland Management

Plan of Development to utilize resource from Tidal flat

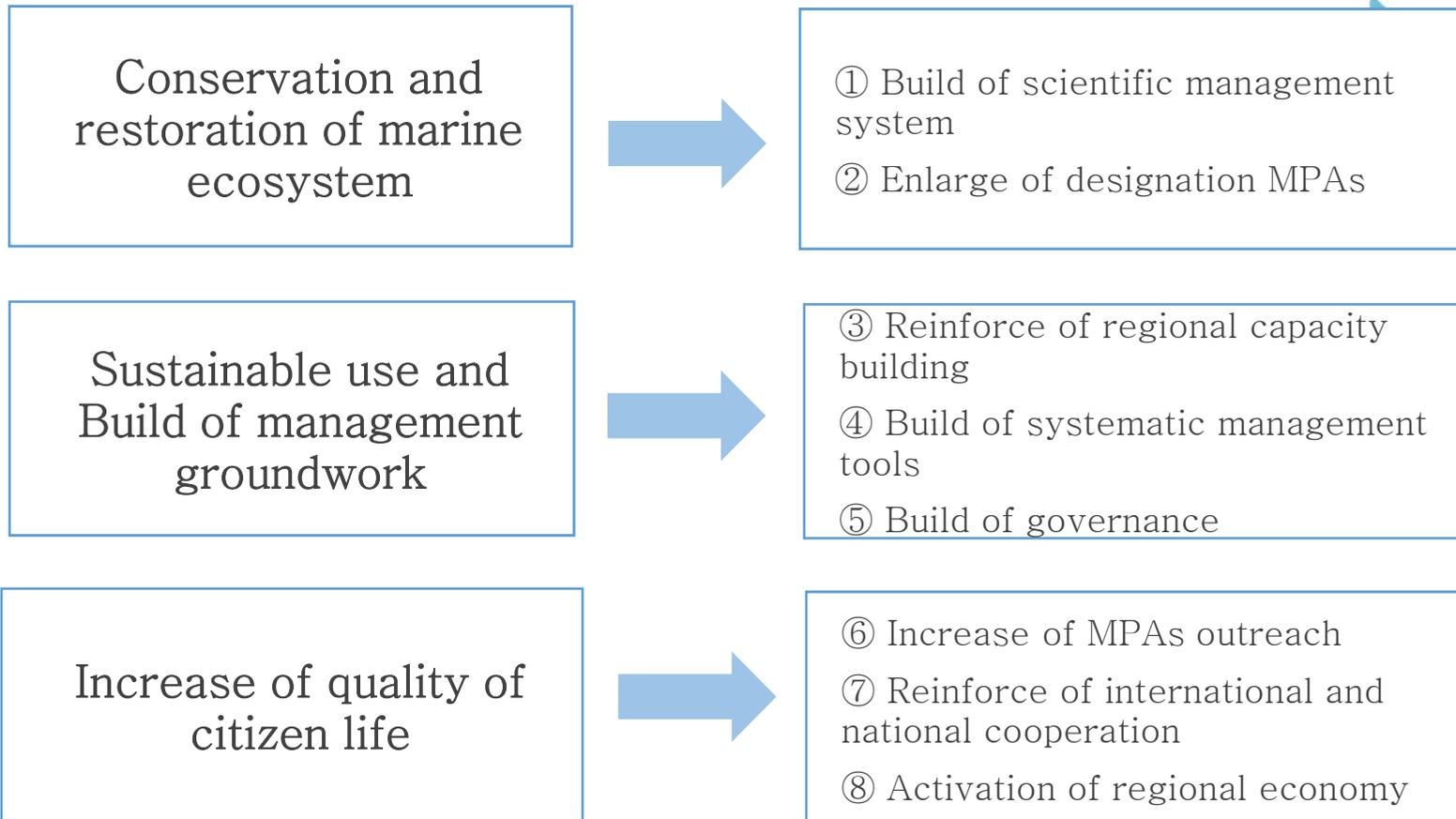
* 3 Strategies and 9 targets



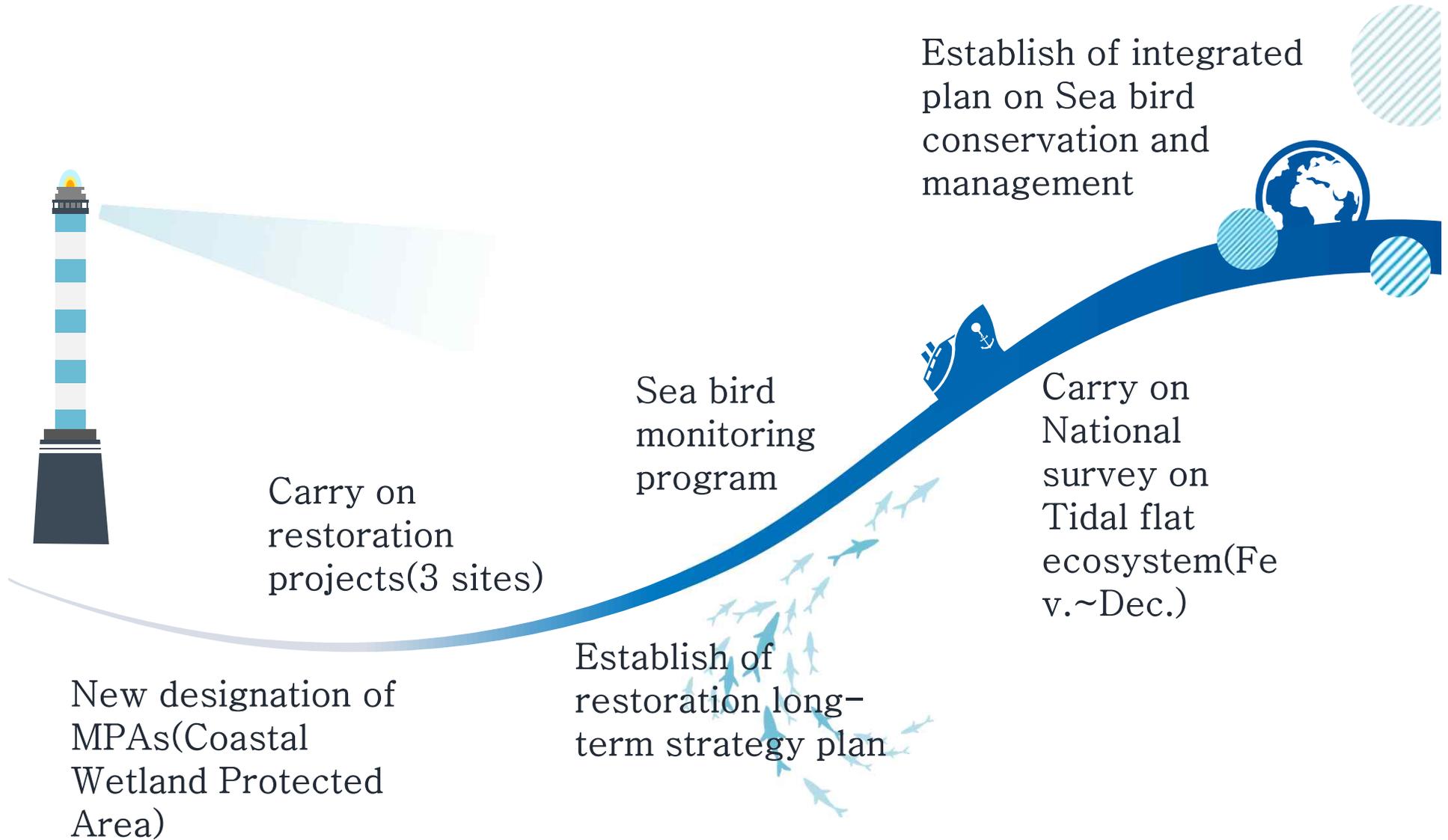
Direction of Coastal Wetland Management

Plan of MPAs integrated management

* 3 Strategies and 8 targets



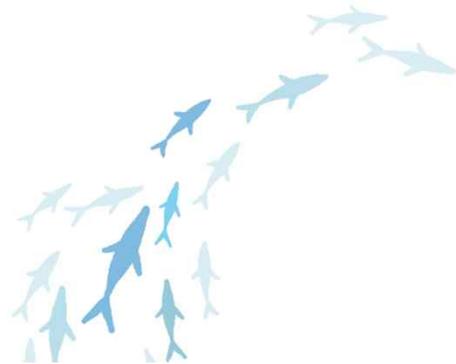
Action Plan in 2016



THANK YOU

Korea's future lies in the Ocean,

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



Ministry of Oceans
and Fisheries