



Northwest Pacific Action Plan



Northwest Pacific Action Plan (NOWPAP) - Brief Overview

Sangjin LEE

Northwest Pacific Action Plan (NOWPAP) of UNEP

www.nowpap.org

Expert Consultation Meeting, 27-28 June 2012, Seoul, Korea



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NOWPAP History

- Established in 1994 by *the People's Republic of China, Japan, the Republic of Korea and the Russian Federation* as an integral part of **UNEP Regional Seas Programme (RSP)**.
- The RSP has been promoted since 1974. Nowadays, the RSP covers in total 18 regions across the world, with about 140 participating countries.



UNEP Regional Seas Programmes

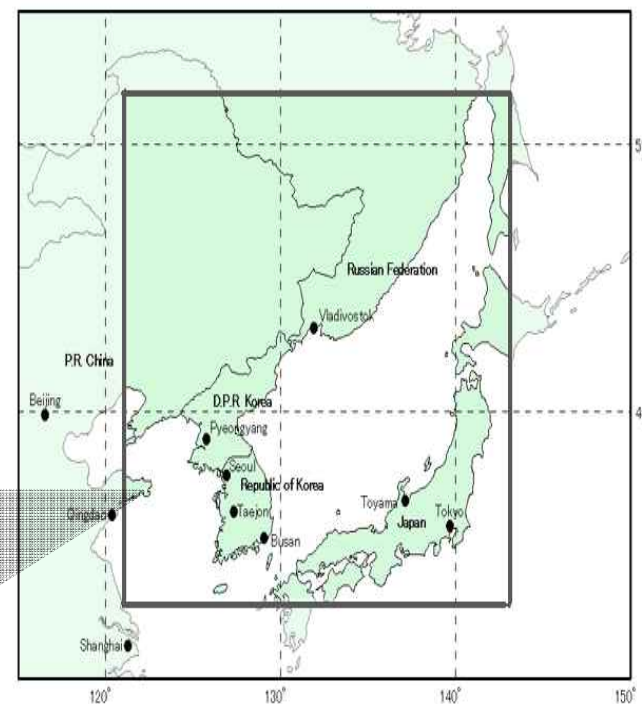


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Goal of NOWPAP

wise use, development and management of the coastal and marine environment so as to obtain the utmost long-term benefits for the human populations of the region, while protecting human health, ecological integrity and the region's sustainability for future generations.



Geographic coverage

33-52°N, 121-143°E



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NOWPAP structure



CEARAC
Japan

-Special Monitoring and Coastal Assessment

DINRAC
China

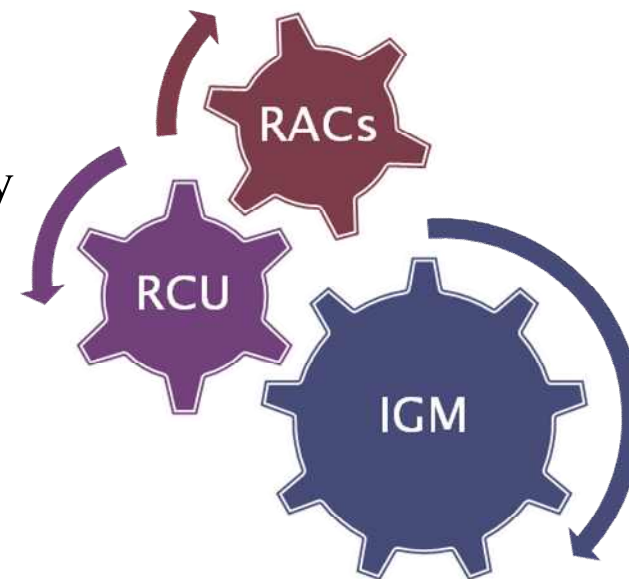
- Data and Information Network

MERRAC
Korea

- Marine Environment Emergency Preparedness and Response

POMRAC
Russia

- Pollution Monitoring



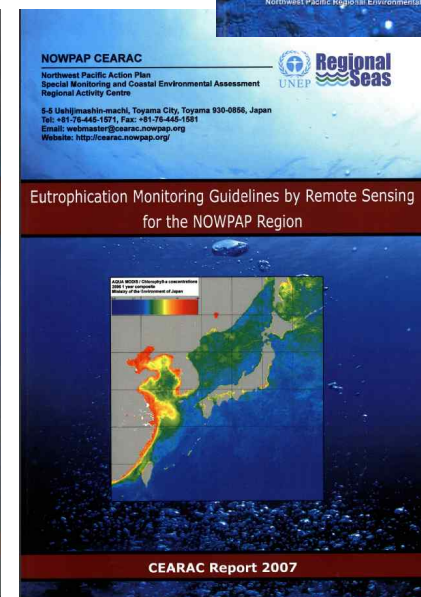
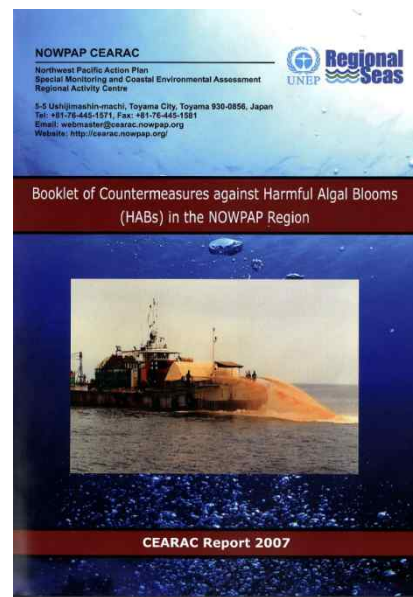
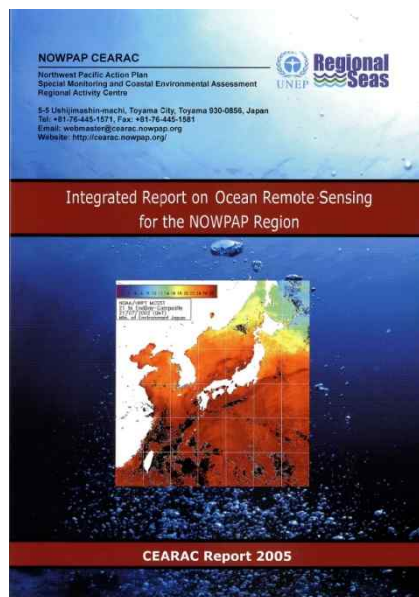
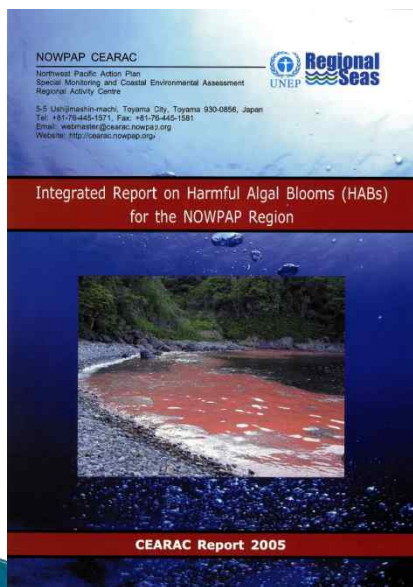
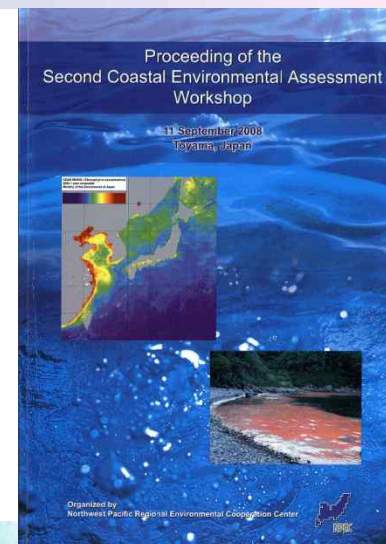


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Special Monitoring and Coastal Environmental Assessment Regional Activity Center

Goals coordinate activities on assessment of *harmful algal blooms (HABs)*; develop new monitoring tools using *remote sensing (RS)*; assess coastal environment





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DINRAC

Data and Information Network Regional Activity Center

Goals

develop a *region-wide data and information exchange network*,
promote regional cooperation and *exchange of information*

Activities

- **Maintain and update data bases (DBs):**
 - Coastal and marine environmental GIS & RS applications
 - Marine litter
 - Coastal and marine nature reserves
- **Develop reference DBs:**
 - Atmospheric deposition, AD
 - River and Direct Inputs, RDI
 - Integrated Coastal and River Basin Management, ICARM
- **Investigation of *Alien Species***
- **Development of *web-GIS on DINRAC website* :**
<http://dinrac.nowpap.org>

| No. | Country | Records | Last Update |
|-----|---------|---------|-------------|
| 1 | China | 20 | 2010-02-05 |
| 2 | Japan | 31 | 2008-11-05 |
| 3 | Korea | 22 | 2006-10-03 |
| 4 | Russia | 14 | 2006-09-25 |

Total 87 Marine Protected Areas in Nowpap/MPA from 4 member states.

Monitoring Results on Marine Litter Surveys in NOWPAP Region
(Last updated: 2011-04-20)

- List of Survey Sites for Marine Litter Surveys in NOWPAP Region by IJPEC: 1996 to 2004)

China

- Monitoring Results on Marine Litter Surveys in China, 2009 (data based on pieces and weight, 3 sites)
- Monitoring Results on Marine Litter Surveys in China, 2008 (data based on pieces and weight, 2 sites)
- Monitoring Results on Marine Litter Surveys in China, 2007 (by IJPEC, data based on pieces and weight, 12 sites)
- Monitoring Results on Marine Litter Surveys in China, 2006 (by IJPEC, data based on pieces and weight, 10 sites)
- Monitoring Results on Marine Litter Surveys in China, 2005 (by IJPEC, data based on pieces and weight, 10 sites)
- Monitoring Results on Marine Litter Surveys in China, 2004 (by IJPEC, data based on pieces and weight, 14 sites)
- Monitoring Results on Marine Litter Surveys in China, 2003 (by IJPEC, data based on pieces and weight, 12 sites)
- Monitoring Results on Marine Litter Surveys in China, 2002-2009 (by IJPEC Summary)

Japan

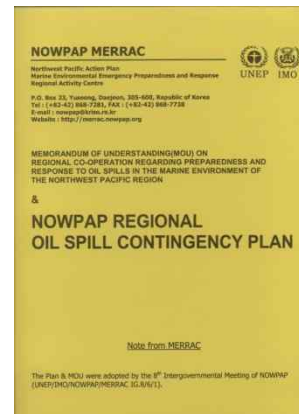
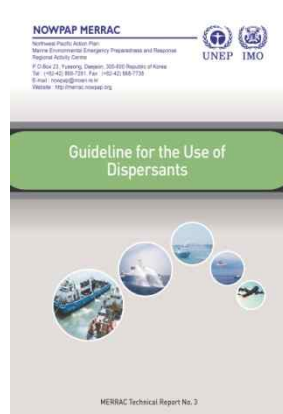
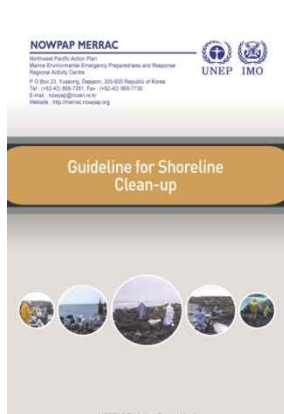
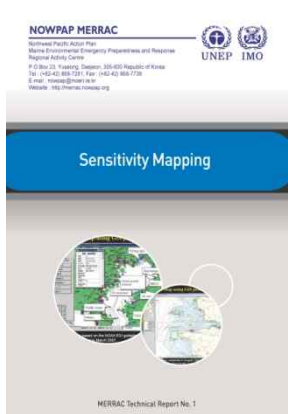


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Marine Environmental Emergency Preparedness and Response Regional Activity Center

Goal develop *effective regional cooperative measures* in response to marine pollution incidents, including *oil and HNS spills*





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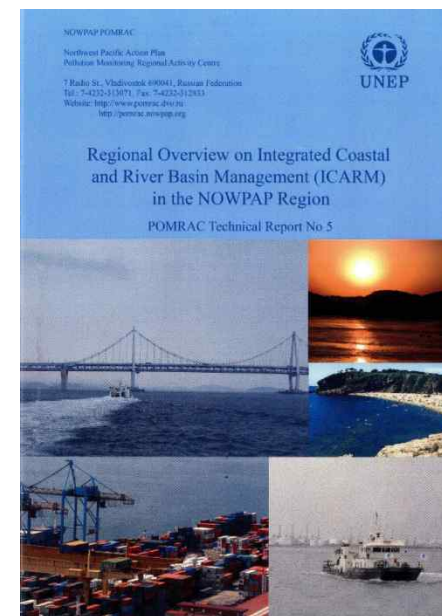
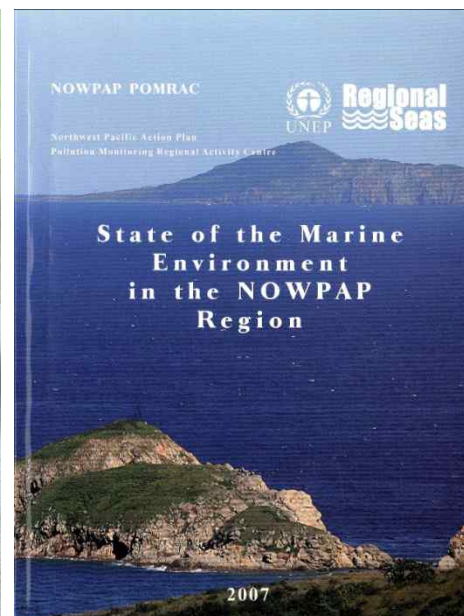
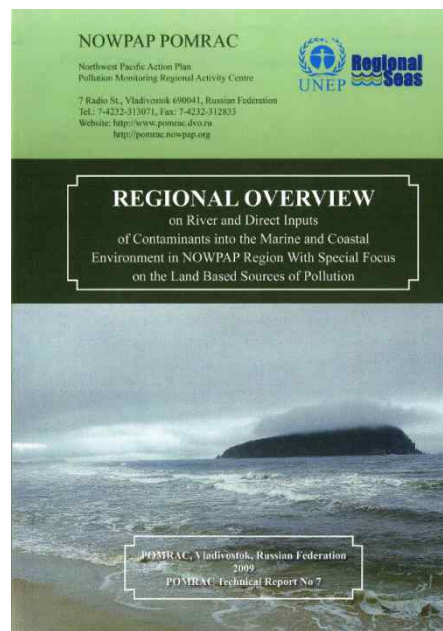
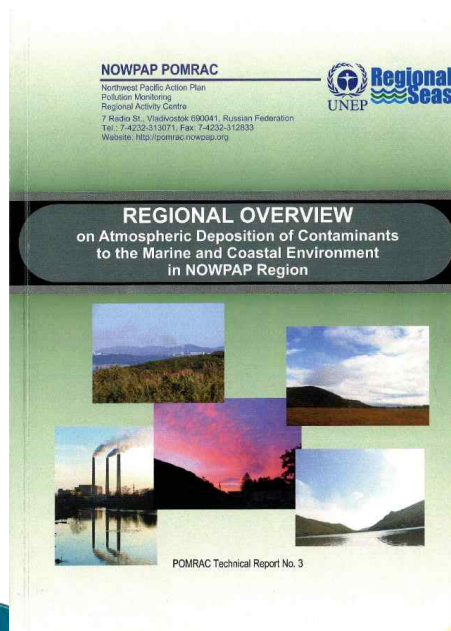


POMRAC

Pollution Monitoring Regional Activity Center

Goal

develop cooperative activities related to *atmospheric deposition, river and direct inputs of contaminants*, and *integrated coastal and river basin management (ICARM)*, and carry out *regular assessments* of the state of the marine environment

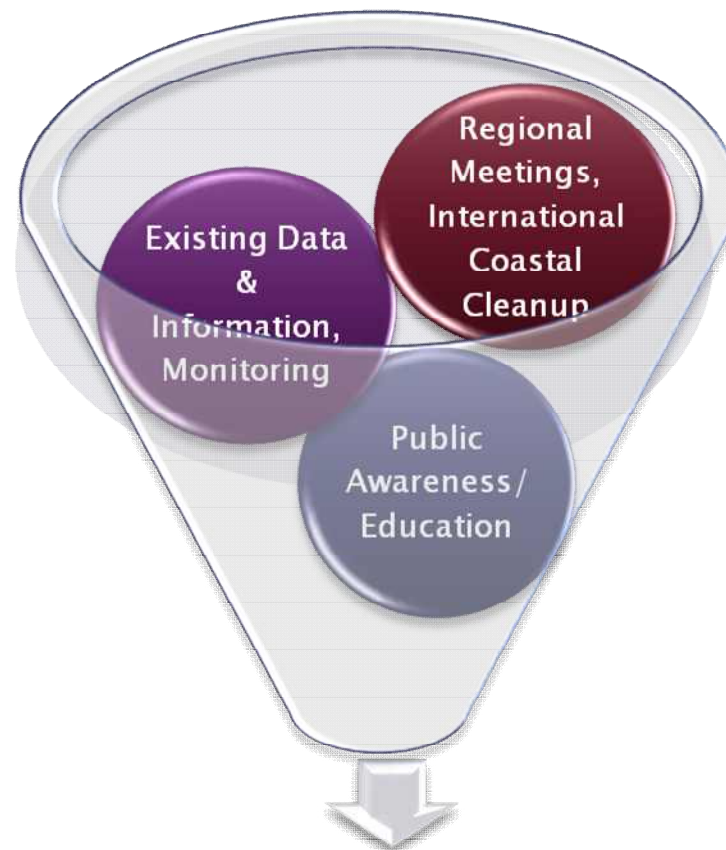




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Marine Litter (ML)



Regional Action Plan on Marine Litter



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ML meetings and workshops: sharing information, building trust



**International ML Workshop
Toyama, Japan, 2005**



**1st NOWPAP ML Workshop
Incheon, Korea, 2006**



1st MALITA Working Meeting



**2nd NOWPAP ML Workshop
Toyama, Japan, 2007**



**3rd NOWPAP ML Workshop
Dalian, China, 2008**



2nd MALITA Working Meeting



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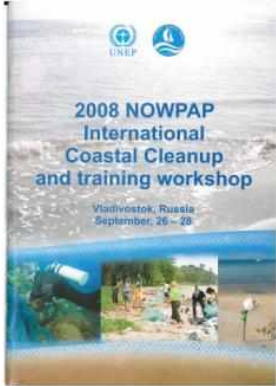
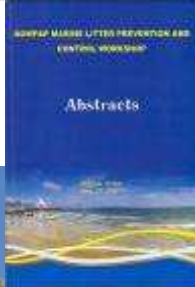
International Coastal Cleanup (ICC)

Vladivostok, Russia, 2012

Lianyungang, China, 2011

Jeju, Korea, 2010

Hirado, Japan 2010



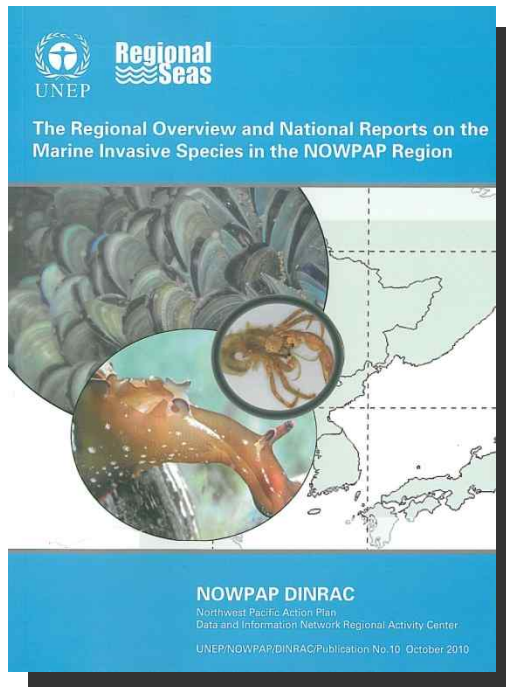


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On-going/New activities

Marine Invasive Species (MIS)



The national reports and regional overview on the MIS in the NOWPAP region (2010)

Atlas of marine invasive species (2012)

International workshop on MIS problems in the Northwest Pacific region (2013)

- funded by **APN**



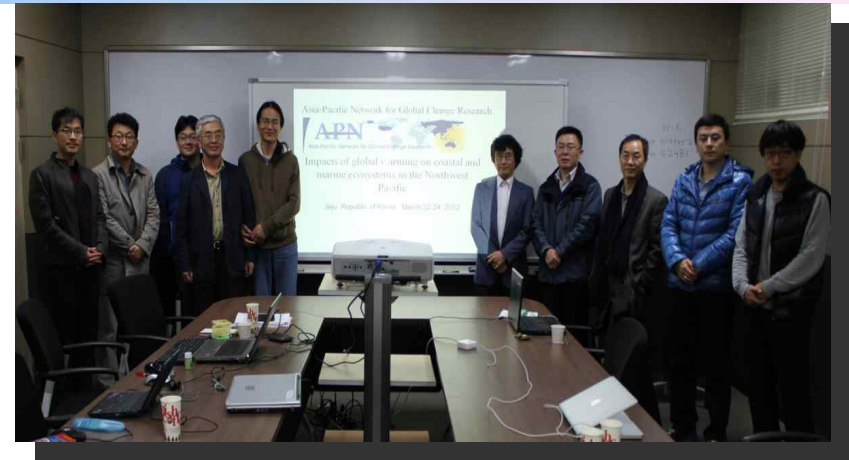


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On-going/New activities

Climate Change



First APN Workshop (2012), Jeju, Korea, funded by APN

Impact of global warming on coastal and marine ecosystems in the Northwest Pacific (2011-2013) - funded by **APN**

Goals:

- **Analyze spatial and temporal variability** in oceanographic conditions and recruitments of major fish species in the NOWPAP sea area for the last 40 years
- **Forecast changes in potential production of fisheries resources and evaluate risks and vulnerabilities**, induced by climate change, in fisheries - dependent sectors across NOWPAP countries



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On-going/New activities

Biodiversity and Marine Protected Areas (MPAs)

UNEP- led *Global Outlook Report* on the State of **Marine Biodiversity**, launched at CBD COP-10 (2010)



Development of the **new marine environment assessment method** focusing on marine biodiversity (2010-2011)



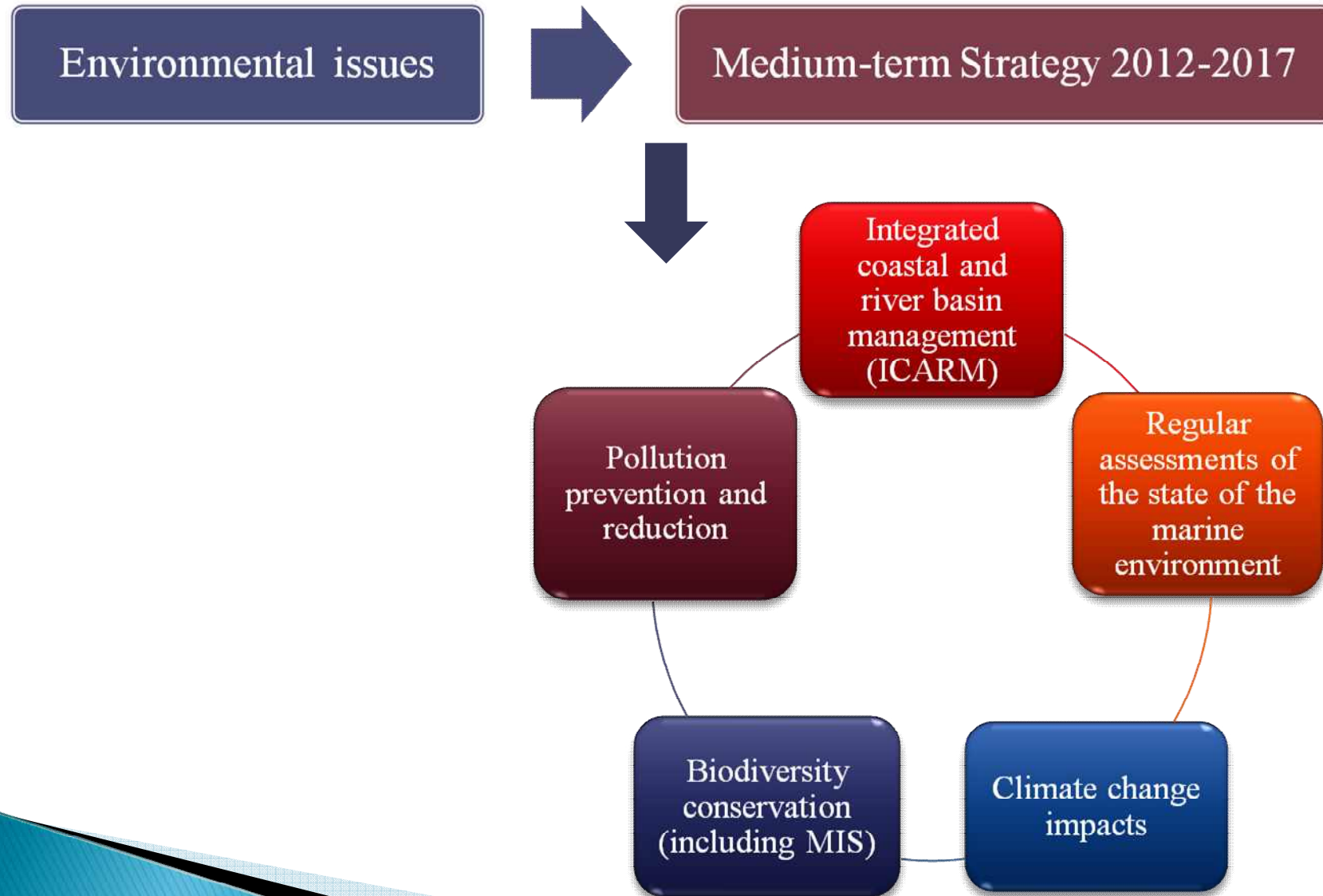
Regional report on **conservation of marine biodiversity and sustainable use of marine ecosystem services** in the NOWPAP region (2012-2013)



First Regional Workshop (2009), Toyama, Japan, supported by UNEP



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Thank you for your attention!