

MARITIME AFFAIRS: AN INDIAN PERSPECTIVE

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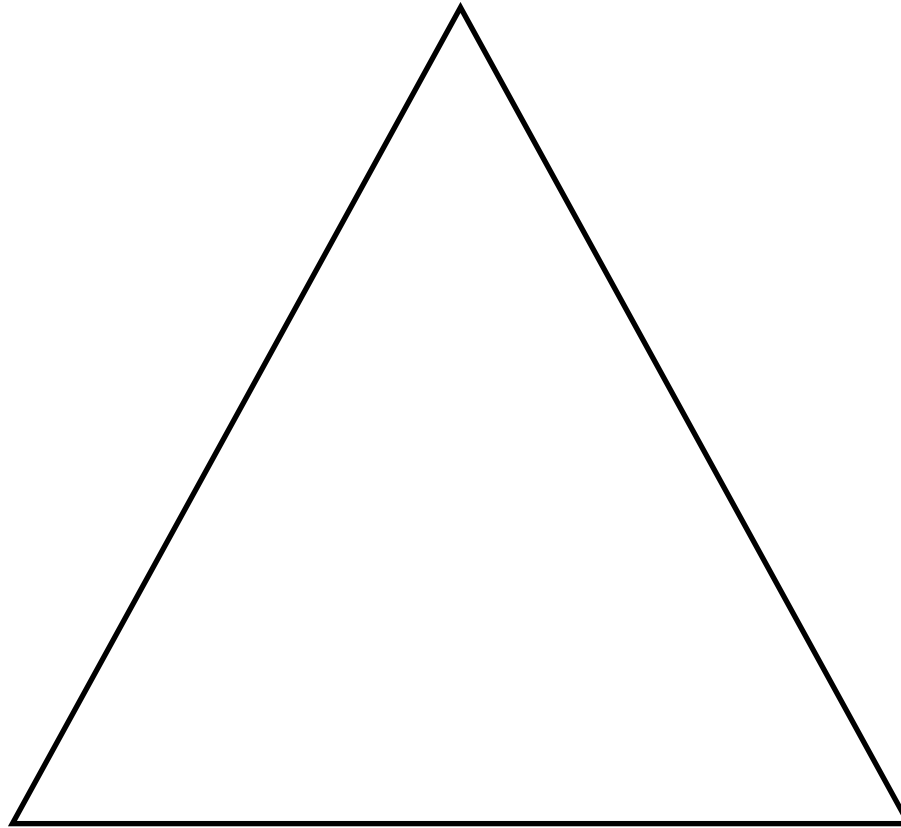
Integrated Management of Maritime Affairs

- **MARITIME DIMENSION**
 - TRINITY THEORY
 - **MARITIME INDIA**
 - PRESSURE
 - RESPONSE
 - STATE
 - IMPACT
 - **MARITIME MANAGEMENT**
 - INTERESTS & VISION
 - STRATEGY
 - ROAD MAP
- 

THE OCEAN TRIAD

WELT WIRTSCHAFT

INDIAN OCEAN



PACIFIC OCEAN

ATLANTIC OCEAN

21ST CENTURY GEOPOLITICS*

GLOBALISATION

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graph TD; G[GLOBALISATION] --- T(( )); T --- GP[GEOPOLITICS (GP)]; T --- GS[GOVERNANCE STANDARDS]; T --- ECW[END OF COLD WAR];
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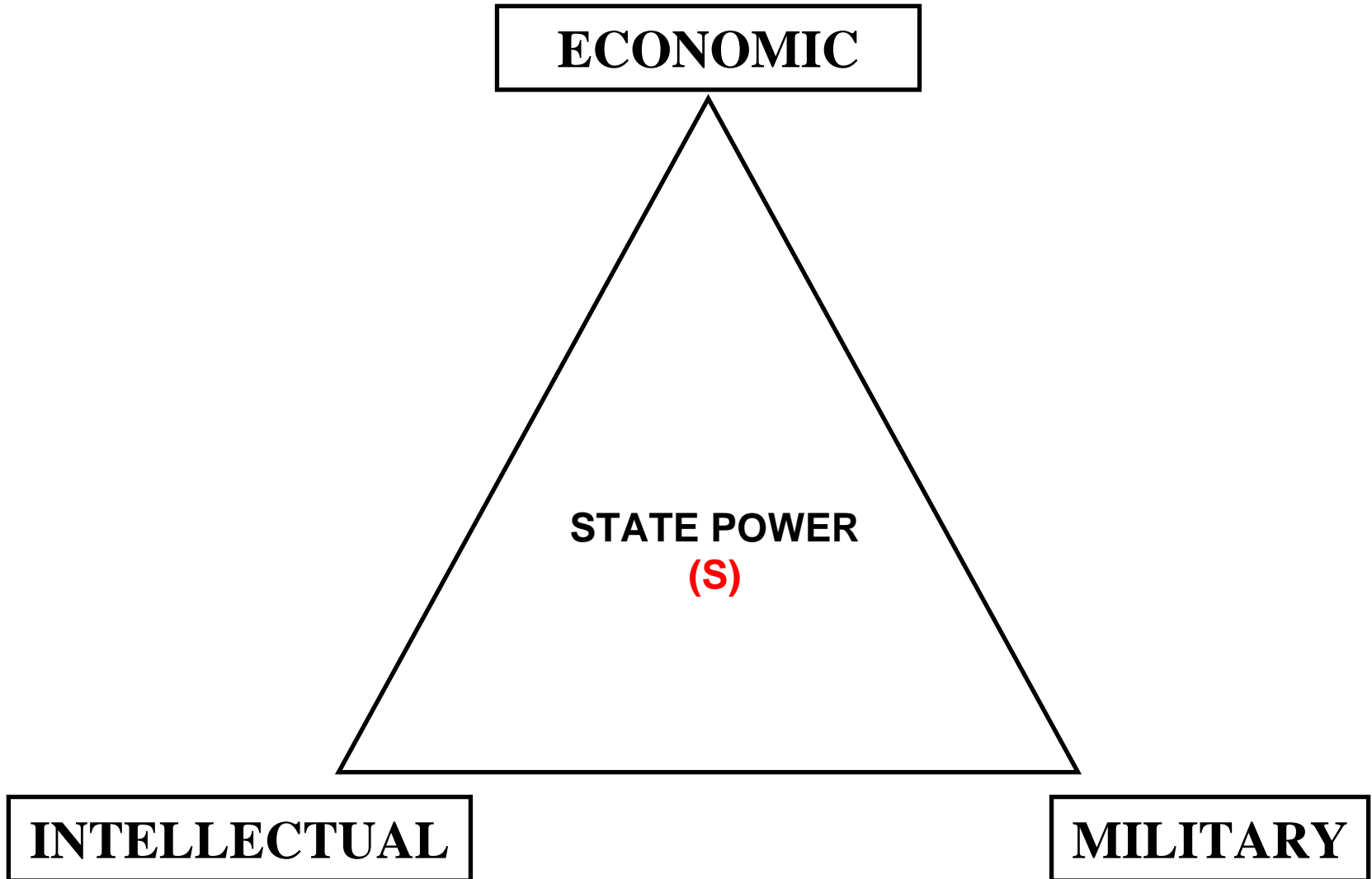
**GEOPOLITICS
(GP)**

GOVERNANCE STANDARDS

END OF COLD WAR

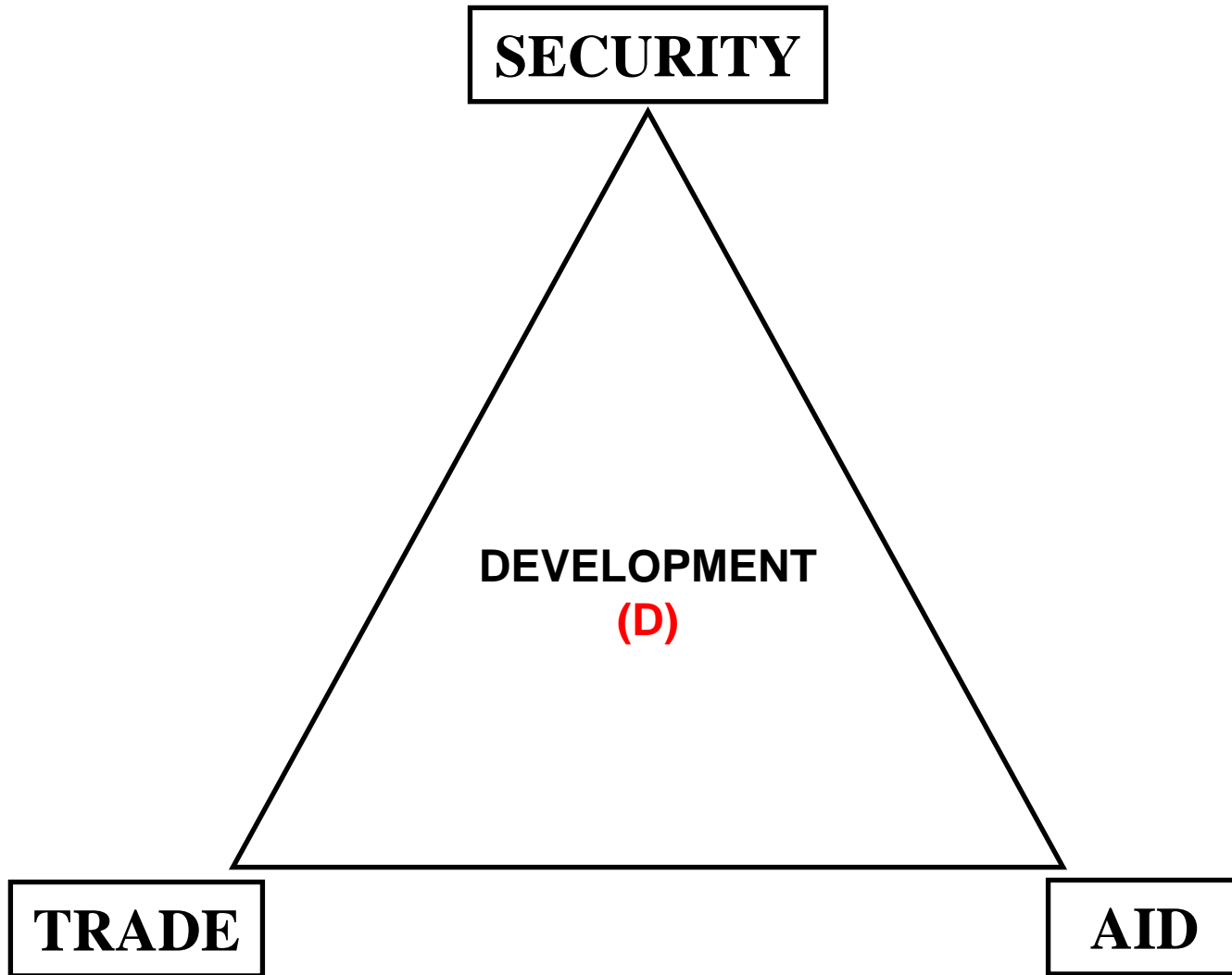
*Adapted from Ramesh Thakur

ELEMENTS OF STATE POWER*



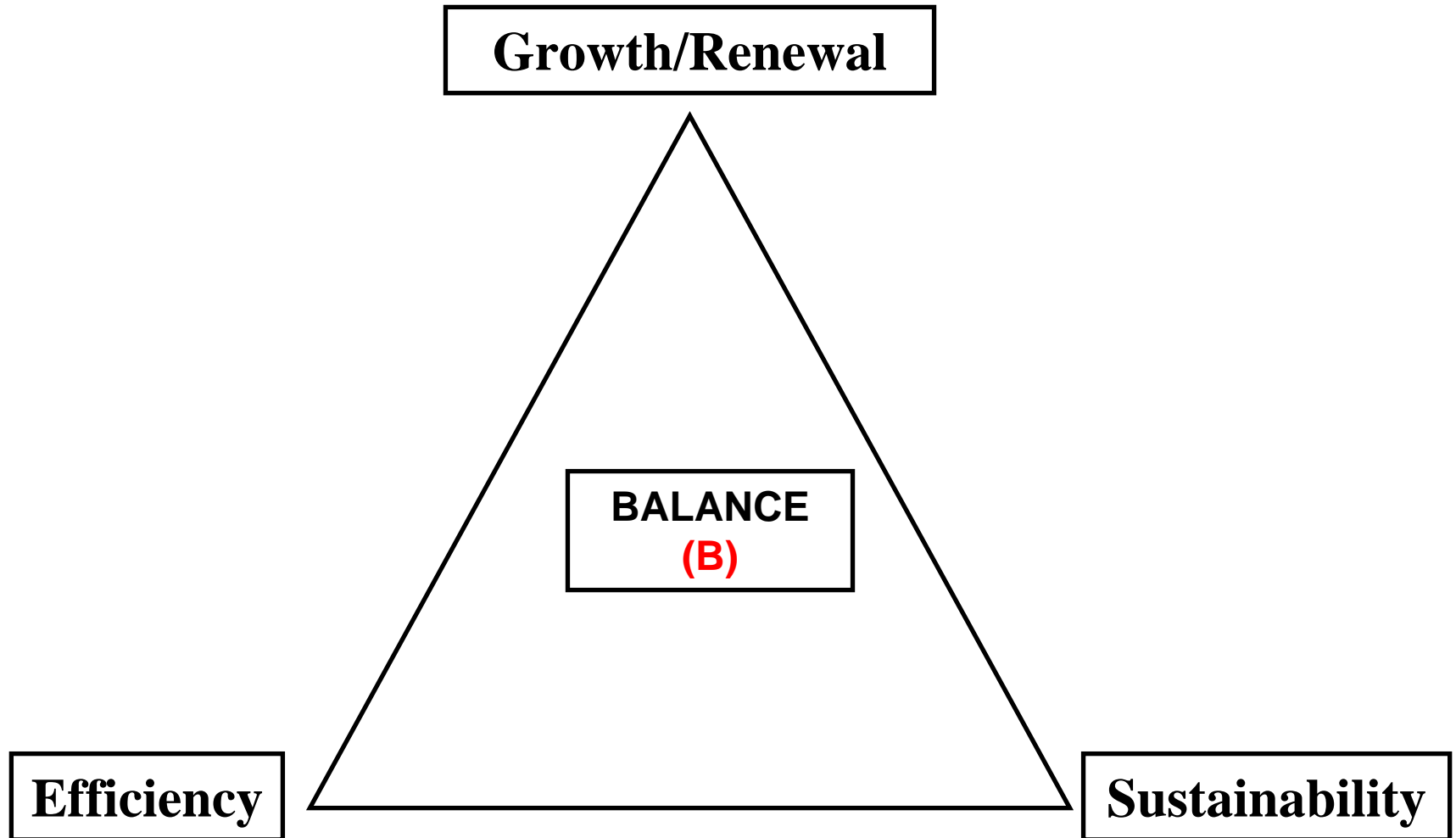
*Adapted from Hill

DEVELOPMENT ELEMENTS*



*Adapted from Halle

TRINITY OF BALANCE



*Adapted from Sveiby

MARITIME ENVIRONMENT*

**GROWING DEPENDENCE
ON THE OCEANS**

**MARITIME
ENVIRONMENT
(ME)**

**GROWTH OF SEA
DENIAL CAPABILITY**

**NEW LAW OF
THE SEA**

*Adapted from Cortell

SECURITY PARADIGM*

BEYOND INDIVIDUAL STATES

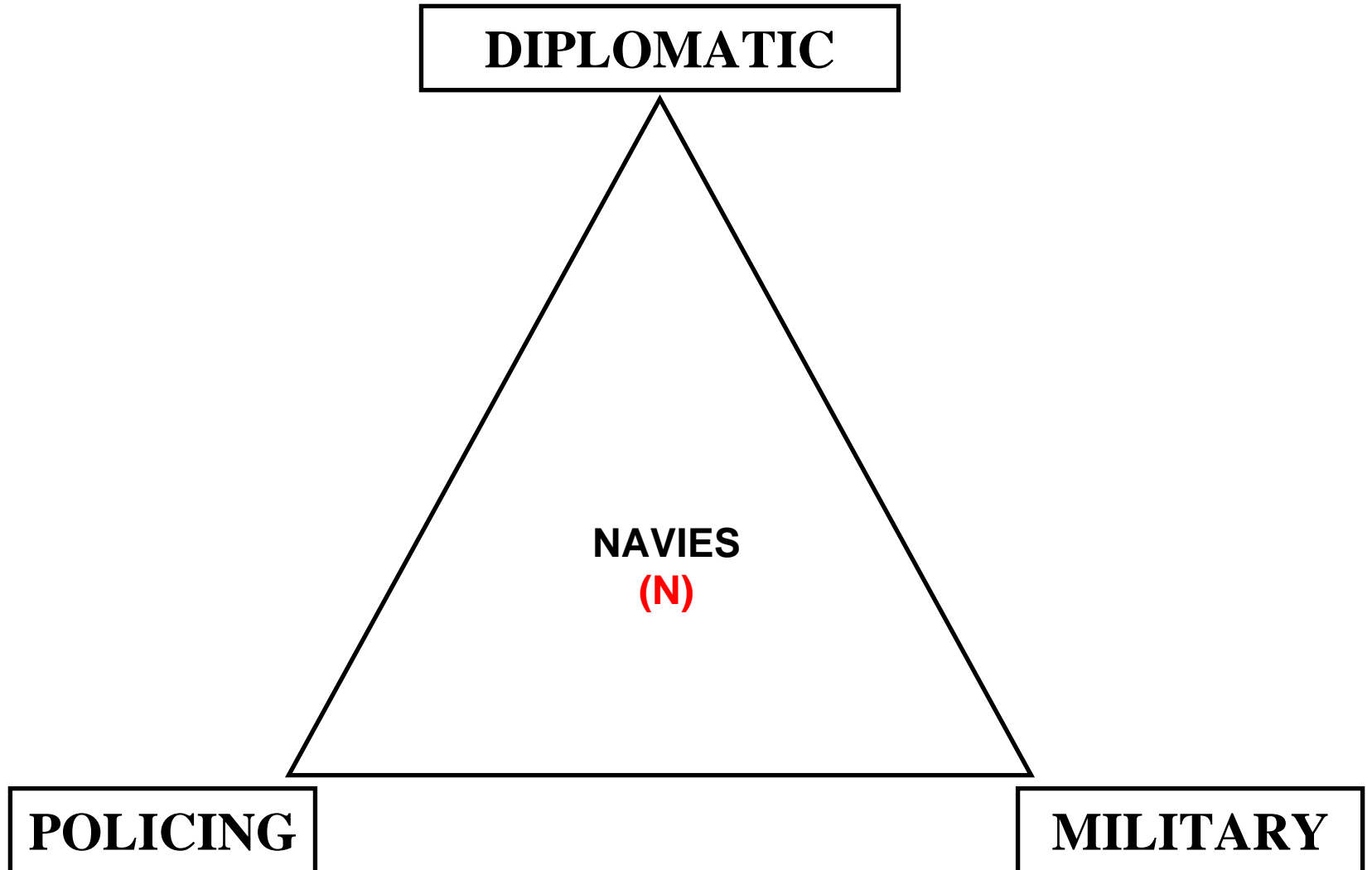
SECURITY
(SE)

EMPOWERMENT OF
TRANSNATIONAL
ACTORS

INCREASING
INTERDEPENDENCE
OF SECURITY

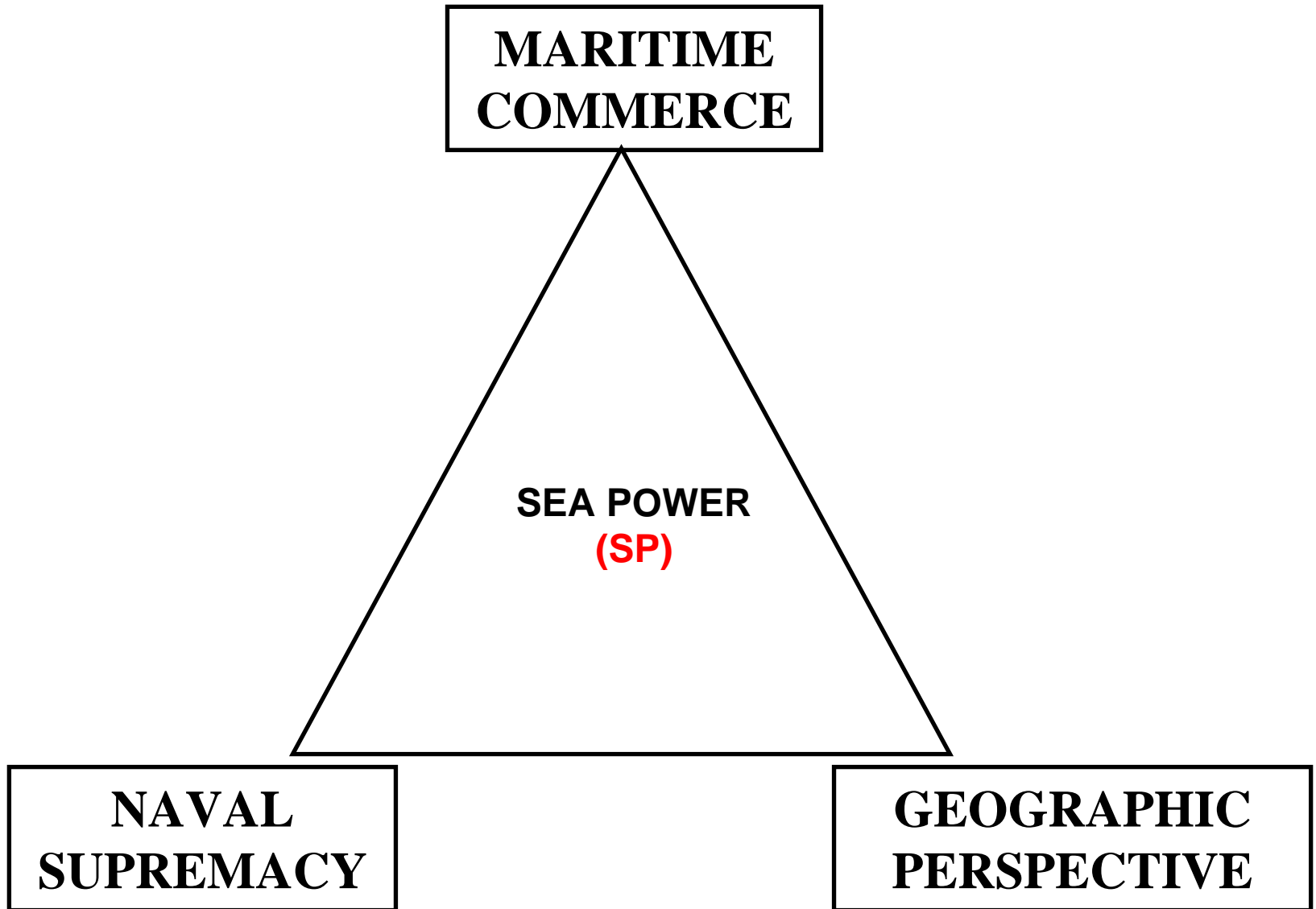
*Adapted from Paul

FUNCTIONS OF NAVIES*



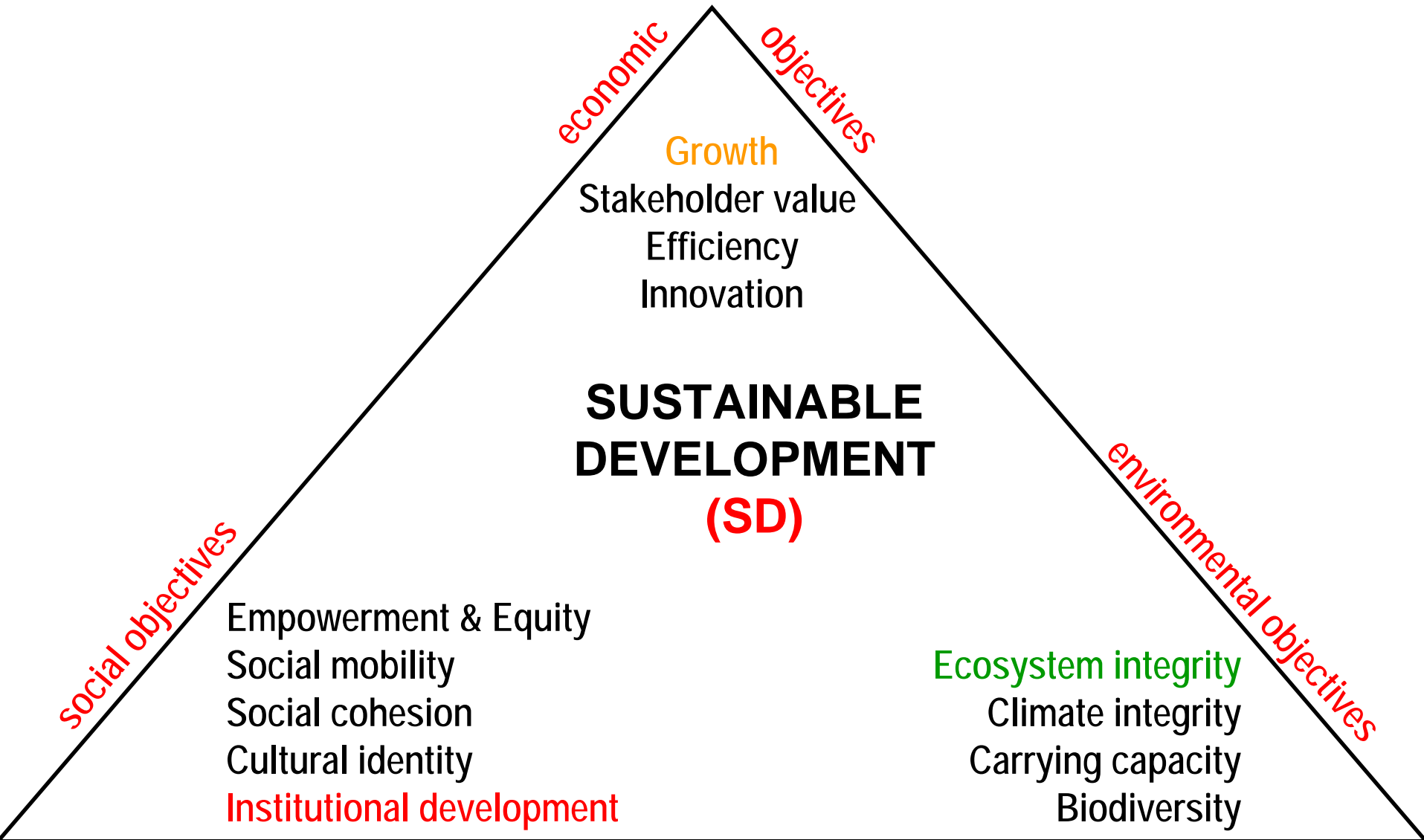
*Adapted from Ken Booth

SEA POWER*



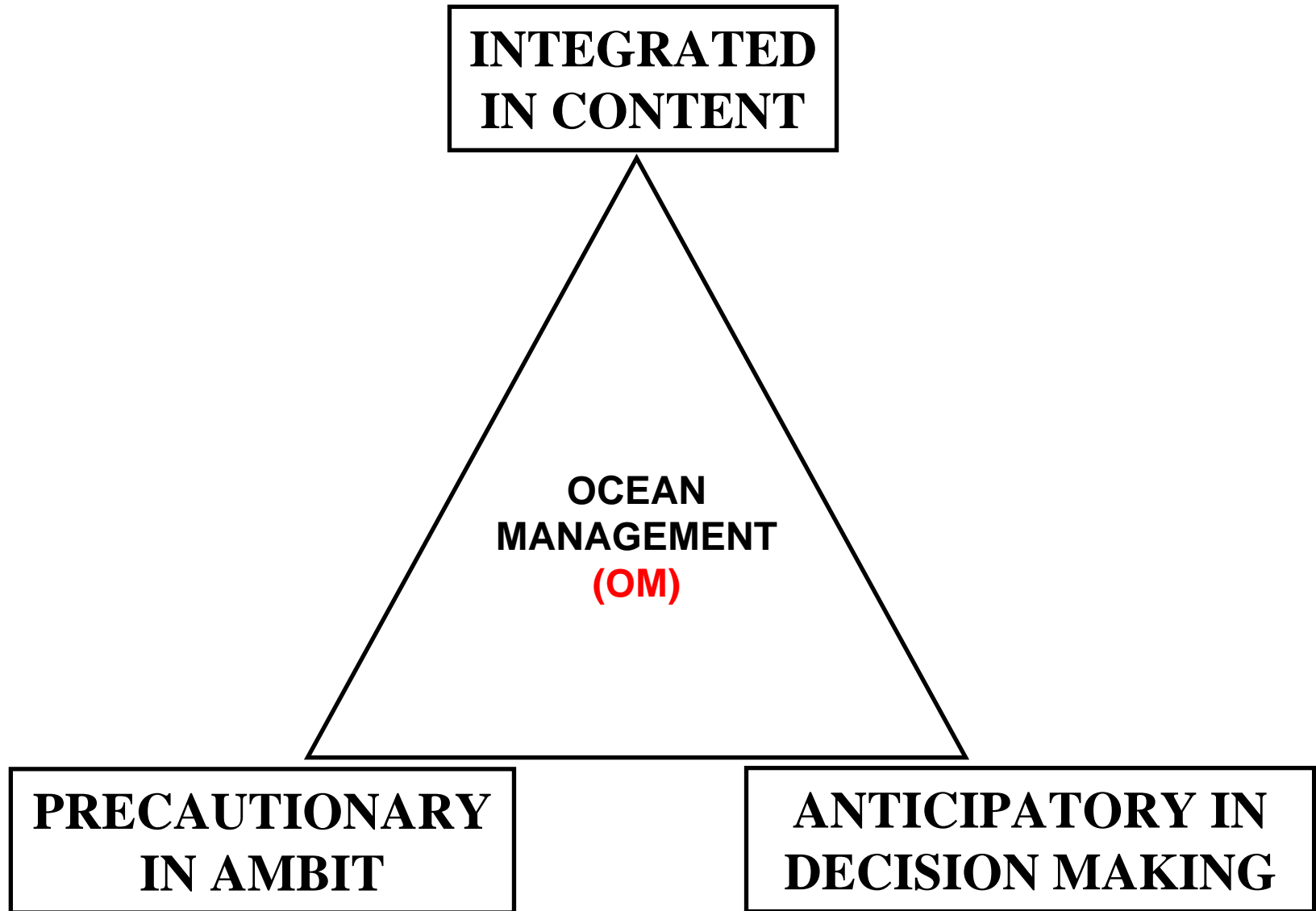
*Adapted from Mahan

SUSTAINABLE DEVELOPMENT*



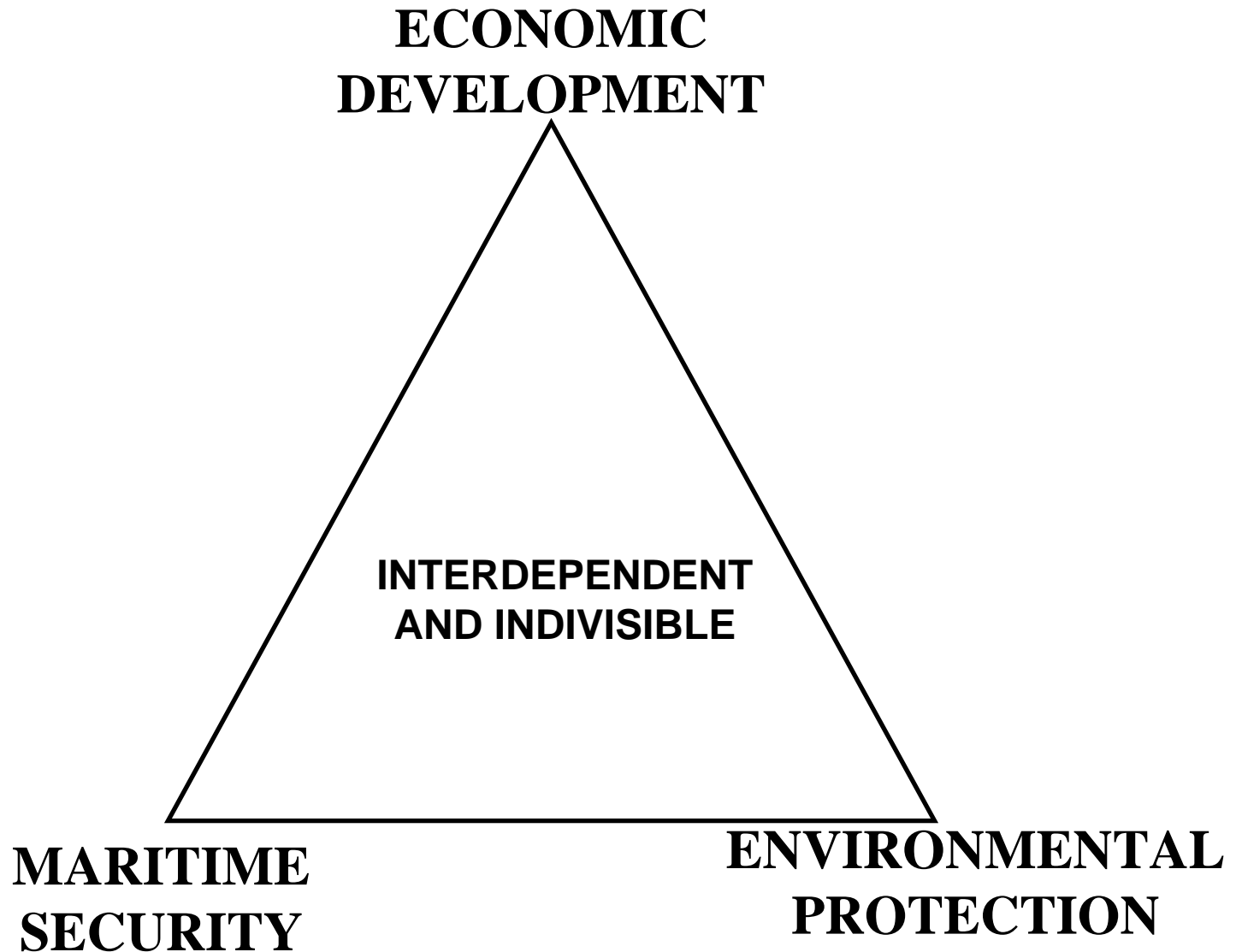
*Adapted from Agenda 21

OCEAN MANAGEMENT CONCEPT*



*Adapted from Agenda 21

OCEAN MANAGEMENT TRINITY*



*Also implied in UNCLOS (1982), Brundtland Report (1987) & Principle 25 of Agenda 21(1992)

POTENTIAL FOR CONFLICT

SLOCs

Vs

Fishing Grounds



Shipping Routes
in confined
Waters

Vs

Establishing of
Offshore
Platforms

Right to Fish

Vs

Conservation
of Fish Stocks



Seabed Mineral/
Oil & Gas Extraction

Vs

Protection of
Environment

OCEAN MANAGEMENT (OM) STAR

**KNOWLEDGE AND
UNDERSTANDING
OF OCEANS**

K

**SUSTAINABLE
DEVELOPMENT
OF OCEANS**

S

**ROLE OF
INSTITUTIONS**

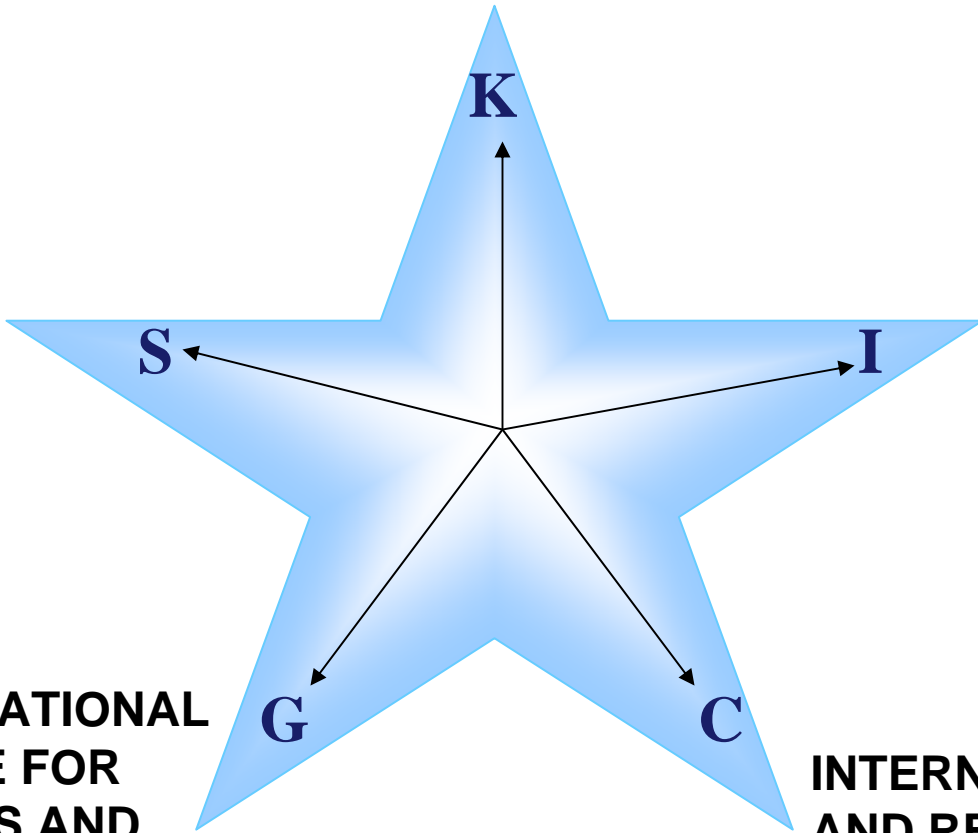
I

**INTERNATIONAL
REGIME FOR
OCEANS AND
STANDARDS OF
GOVERNANCE**

G

**INTERNATIONAL
AND REGIONAL
COOPERATION**

C





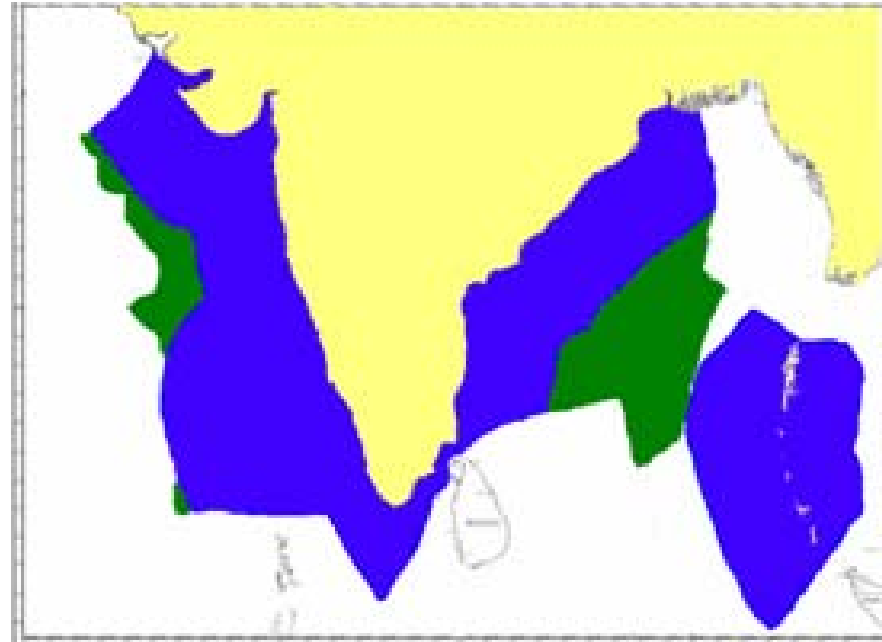
Integrated Management of Maritime Affairs



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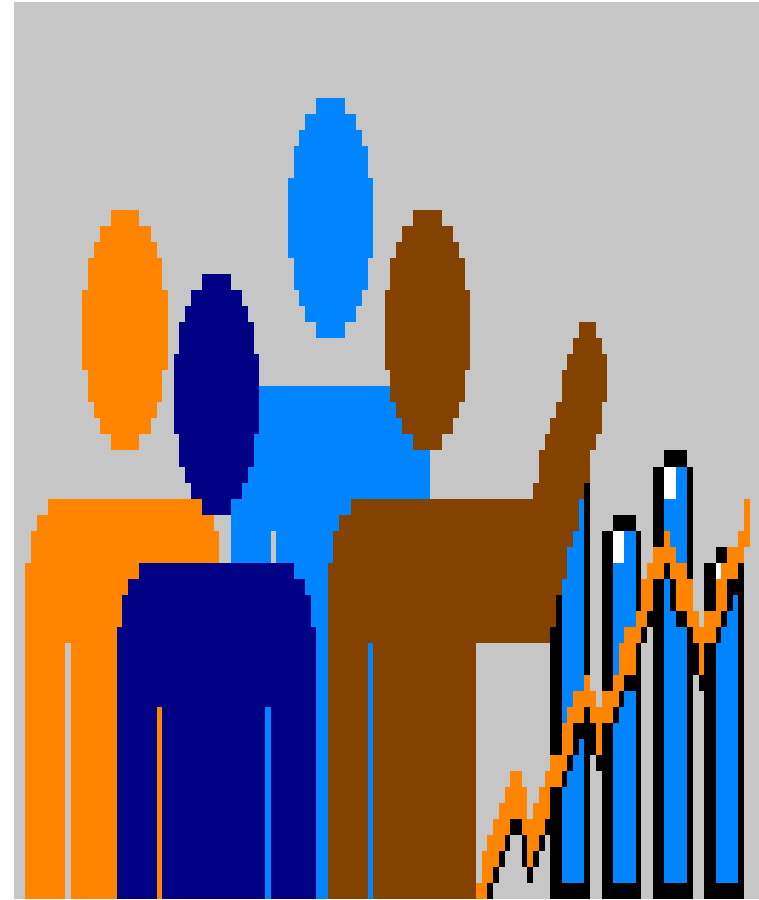
MARITIME GEOGRAPHY

- **70.92% OF THE EARTH'S WATER SURFACE TOUCH THE SHORES OF 150 OF THE 192 UN MEMBER STATES**
- **INDIA HAS A 7516.6 KM COASTLINE WITH AN EEZ OF 2.02 MILLION SQ KM EQUAL TO 2/3RD ITS LAND MASS**



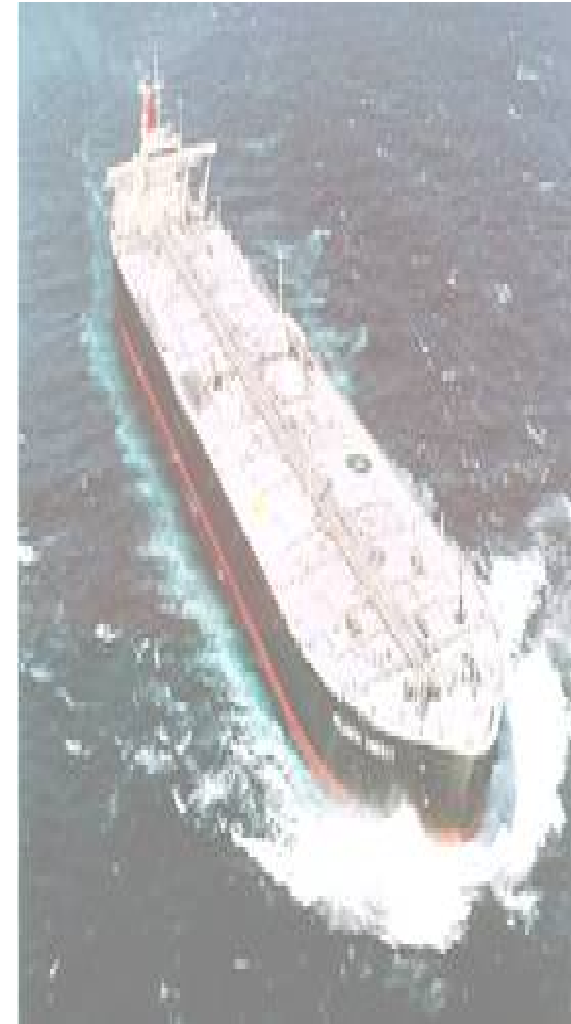
COASTAL POPULATION

- **2/3RD OF THE WORLD POPULATION LIVES WITHIN 100 MILES OF THE COAST AT A DENSITY TWICE THE GLOBAL AVERAGE**
- **1/6TH OF THE WORLD POPULATION LIVES IN INDIA AND NEARLY 1/3RD OF IT LIVES IN THE COASTAL REGIONS**



MARITIME TRADE

- **90% OF WORLD TRADE AND WORTH \$ 155 BILLION IS TRANSPORTED BY SHIP**
- **90% OF INDIA TRADE BY VOLUME AND 77% BY VALUE MOVES BY SHIP**
- **THE WORLD FLEET EXCEEDS 85,000 SHIPS**
- **INDIA SHIPPING RANKED 21ST IN THE WORLD HAS 618 REGISTERED VESSELS**
- **WORLD CONTAINER PORT TRAFFIC IS 192.3 MILLION TEUs**
- **INDIA'S MAJOR PORTS ACCOUNT FOR 75% OF SEABORNE TRADE HANDLE 418.27 MILLION TONS OF CARGO AND OVER TWO MILLION CONTAINERS PER YEAR**



NON-LIVING RESOURCES

- **GLOBALLY MARINE MINERALS INCLUDING OFFSHORE OIL AND GAS ARE ESTIMATED TO GENERATE NEARLY \$1 TRILLION EVERY YEAR**
- **INDIA'S OFFSHORE OIL ALONE CONTRIBUTES 42,000 CRORES TO THE NATIONAL ECONOMY WITH ONLY 17% SEDIMENTARY AREA EXPLORED**



LIVING RESOURCES

- **90% OF WORLD FISHERIES FALLS WITHIN THE JURISDICTION OF COASTAL STATES AND ALMOST 90 MILLION TONS OF FISH ARE CAPTURED ANNUALLY**
- **INDIA FISH PRODUCTION AT 2.8 MILLION TONNES IS RANKED 3RD IN THE WORLD WITH HARVESTABLE RESOURCES OF 3.9 MILLION TONNES PER ANNUM**



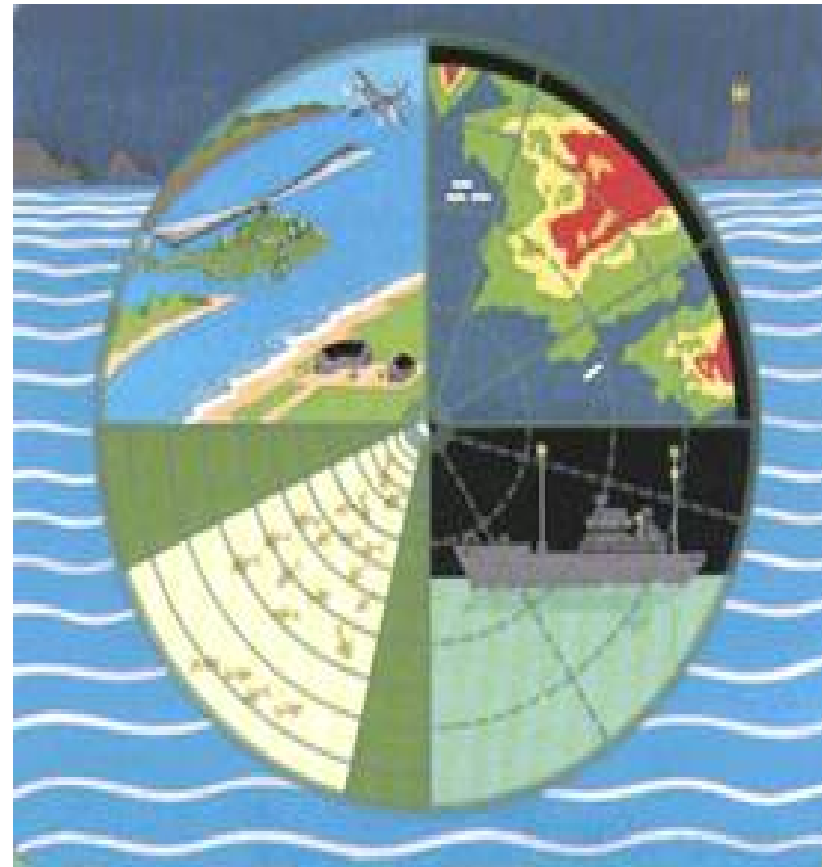
RESOURCE ENJOYMENT

- **INDIA ACCOUNTS FOR 0.67% OF WORLD TOURIST MARKET**
- **53% VISIT TOURIST SPOTS IN COASTAL STATES**
- **9 OF THE 18 WORLD CULTURAL HERITAGE SITES ALONG INDIA'S COASTLINE**



MARITIME SECURITY

- **ILLEGAL POACHING**
- **SEARCH AND RESCUE / ACCIDENTS AT SEA**
- **SMUGGLING**
- **NARCOTICS**
- **OIL SPILLS**
- **PIRACY AND TERRORISM**



LEGAL RESPONSE

- ❑ **1976 – MARITIME ZONES ACT**
- ❑ **1981 – FISHERIES ACT**
- ❑ **1986 – ENVIRONMENT PROTECTION ACT**
- ❑ **1991 – COASTAL ZONE REGULATION ACT**
- ❑ **2002 – SUPPRESSION OF UNLAWFUL ACTS**
- ❑ **2002 – OFFSHORE MINERAL DEVELOPMENT ACT**
- ❑ **2002 – NATIONAL SAR BOARD**
- ❑ **2004 – IMPLEMENTATION OF ISPS CODE**

INSTITUTIONAL RESPONSE

- ❑ 1966 – NATIONAL INSTITUTE OF OCEANOGRAPHY (NIO)**
- ❑ 1971 – CENTRAL BEACH EROSION BOARD (CBEB)**
- ❑ 1981- DEPARTMENT OF OCEAN DEVELOPMENT (DOD)**
- ❑ 1997-98 – PROJECT DIRECTORATE FOR ICMAM UNDER DOD**

STATE

- **LEGISLATION AND POLICY HAVE BEEN SECTORALLY BASED AND UNCOORDINATED**
- **INAPPROPRIATE AND ISOLATED SECTORAL PLANNING DECISIONS HAVE OFTEN WORKED AGAINST LONG TERM INTERESTS**
- **RIGID BUREAUCRATIC SYSTEMS HAVE LIMITED CREATIVITY AND ADAPTABILITY**
- **LOCAL INITIATIVES HAVE LACKED ADEQUATE RESOURCES AND SUPPORT FROM HIGHER ADMINISTRATIVE LEVELS**
- **MANAGEMENT HAS LACKED VISION AND HAS BEEN BASED ON A VERY LIMITED UNDERSTANDING OF THE OCEANS**
- **SCIENTIFIC RESEARCH AND DATA HAVE BEEN ISOLATED FROM END-USERS**

IMPACT

- **PORTS NON PRODUCTIVE**
- **SHIPPING IS STAGNANT**
- **CRUDE IMPORT DEPENDENCY IS HIGH**
- **FISHERIES THREATENED BY ILLEGAL POACHING**
- **MINERAL EXTRACTION INFRASTRUCTURE IS NON-EXISTENT**
- **COASTAL TOURISM LACKS SUSTAINABILITY**
- **INTERNATIONAL CRUISE DESTINATIONS POSSIBLE BUT ABSENT**
- **DEMOGRAPHIC THREAT TO POLLUTION**
- **LACK OF SURVEILLANCE , MONITORING AND CONTROL SYSTEM**



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NATIONAL OCEAN STRATEGY

NATIONAL MARITIME INTERESTS

- **PROTECTING THE MARINE ENVIRONMENT**
- **ECONOMIC RESOURCE DEVELOPMENT AND GROWTH**
- **INTERSOCIETY AND INTERGENERATIONAL EQUITY**
- **MARITIME SOVEREIGNTY AND GOOD ORDER AT SEA**



NATIONAL **O**CEAN **S**TRATEGY

NATIONAL **M**ARITIME **V**ISION

**TO BECOME THE FASTEST GROWING
DEVELOPED NATION AND TRANSFORMING THE
DEVELOPED MARITIME SECTOR INTO ONE OF
THE MOST SUSTAINABLE IN THE WORLD BY 2025**

MARITIME POWER

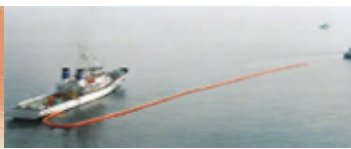
Maritime resource of a nation's power

- ❑ Political outlook
- ❑ Level of international and regional cooperation
- ❑ Naval power
- ❑ Coastal communities
- ❑ Mercantile marine, port infrastructure
- ❑ Living and non-living resources
- ❑ Ship design, building, repair and maintenance
- ❑ Coastal shipping and inland waterways
- ❑ Oceanographic science and technology
- ❑ Marine biodiversity
- ❑ Legal regime for oceans

SEA POWER

Power to govern the sea

- ❑ Ruling with authority and constitutionally conducting the maritime policy, actions and affairs of the nation.
- ❑ Being in military command of the sea and regulating proceedings at sea as required by national interests.
- ❑ Constituting a law, rule, standard or principle for the nation at sea.
- ❑ Acting or functioning at sea in a manner of governing or control.



NATIONAL OCEAN STRATEGY

OCEAN STRATEGY: What does it imply?

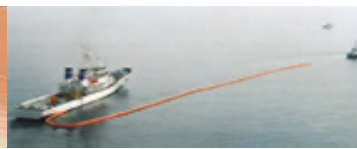
SPATIAL INTEGRATION – THE OCEAN IS CONSIDERED AS A WHOLE

TEMPORAL INTEGRATION - LINKING LONG TERM VISION TO MEDIUM TERM TARGETS TO SHORT TERM ACTION

STAKEHOLDER INTEGRATION – GENUINE PARTNERSHIPS BETWEEN GOVERNMENT, INDUSTRY, COMMUNITY, SCIENTIFIC INSTITUTIONS AND OTHER STAKEHOLDERS

SECTORAL INTEGRATION – HORIZONTAL LINKAGES ACROSS SECTORS

INSTITUTIONAL INTEGRATION - VERTICAL LINKAGES BETWEEN INSTITUTIONAL LEVELS



NATIONAL OCEAN STRATEGY

ELEMENTS OF OCEAN STRATEGY

CABINET COMMITTEE ON MARITIME AFFAIRS – ADOPTS

NATIONAL MARITIME VISION - POLICY LEADERSHIP

NATIONAL MARITIME COORDINATION COMMITTEE – SETS

**NATIONAL MARITIME POLICY - POLICY FORMULATION AND
EVALUATION**

**MARITIME STEERING COMMITTEE – COORDINATES STATE
RESPONSE POLICY IMPELEMENTATION**

**PANCHAYATI RAJ INSTITUTIONS – OPERATING CORE POLICY
MONITORING AND CONTROL**

**MARITIME AFFAIRS ADVISORY COUNCL – NETWORK OF
SPECIALISED PEOPLE AT THREE LEVELS POLICY ADVISORY
NODE**

