



AGENCY FOR MARINE AND FISHERIES RESEARCH AND HUMAN RESOURCES

By:

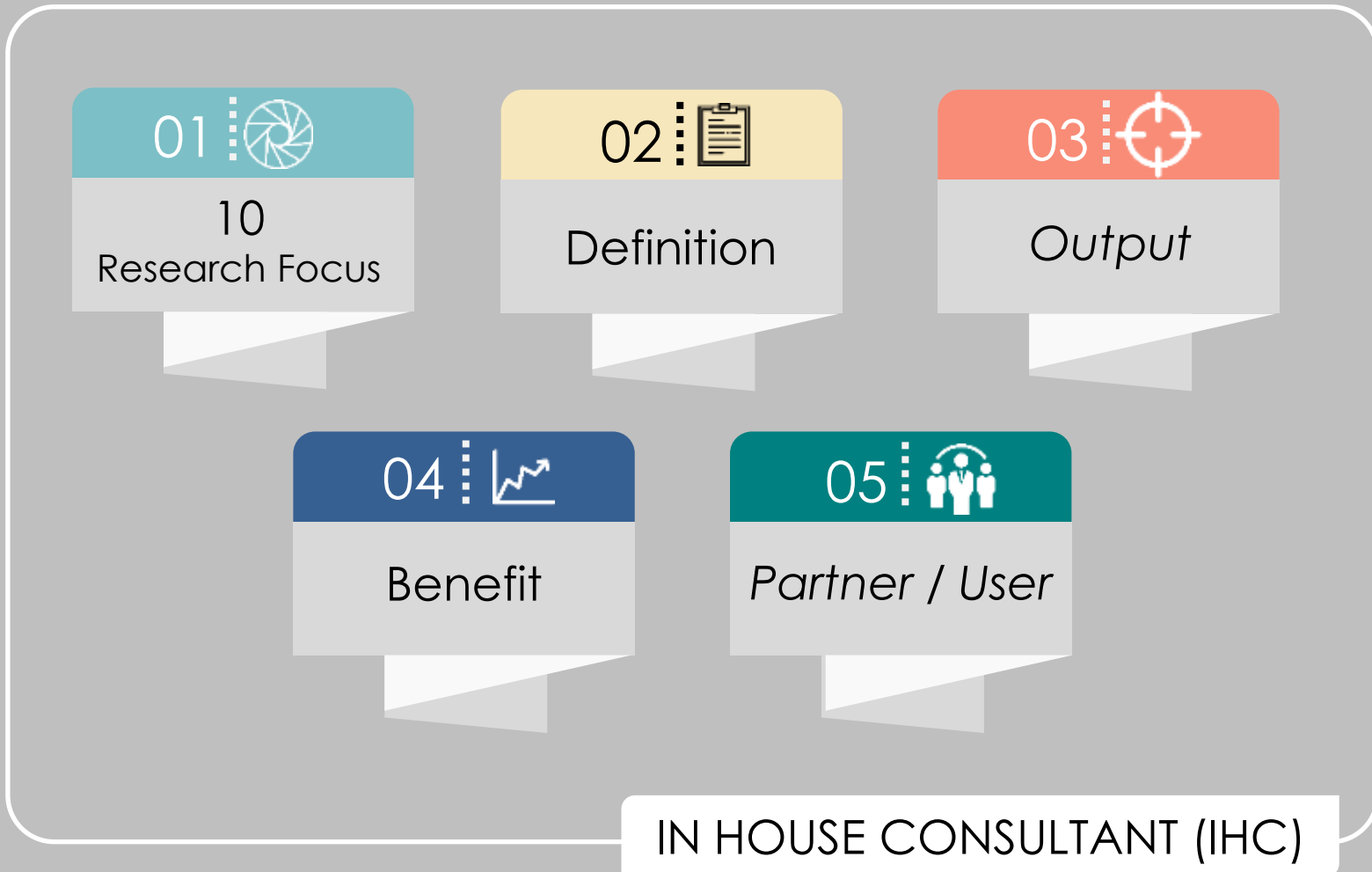
M. Zulficar Mochtar

DIRECTOR GENERAL

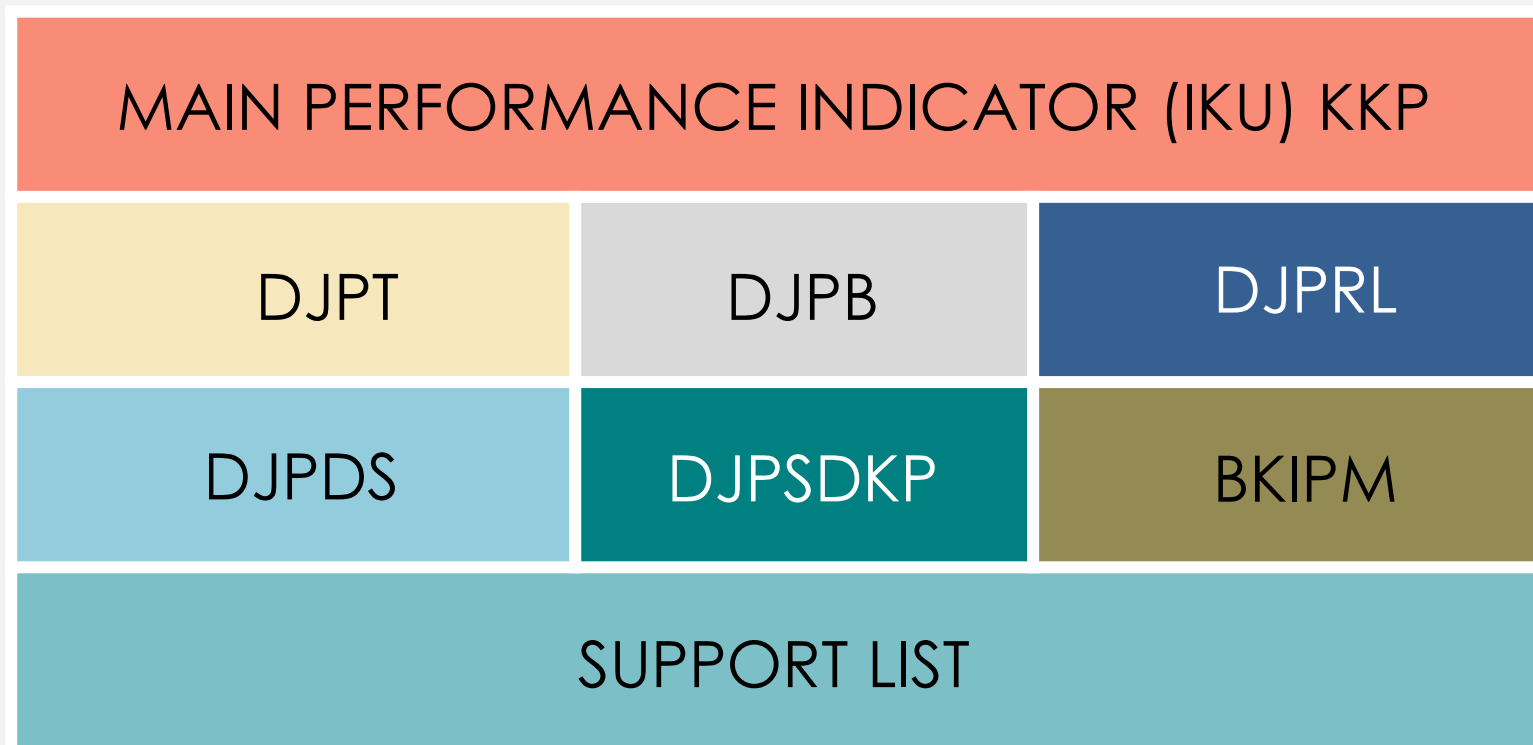
ABOUT MMAF and BRSDM



INHOUSE CONSULTANT



KKP PROGRAM ACCELERATION



BRSDM PRIORITY PROGRAMS

BY 2018

BRSDM

Badan Riset dan SDM
Kelautan dan Perikanan



2

Integrated Aquarium
& Marine Research
Institute

Lokasi : Pangandaran &
Morotai



6

Marine and
Fisheries Socio-
Economics Model



7.943

Students



6.500

Certified
(competences)
Marine and Fisheries
Communities



11

Stock
Assessment
in WPP NRI



80

Development of
Information and
Technology in
Fisherman
Communities



280

Education for
MMAF staff and
communities



5.820

Extension
Officer



6

Stock
Assessment in
KPP PUD



4 INOV Fisheries product
processing and biotechnology

4 INOV Fisheries
Technology Location Adaptive

1 INOV Salt Technology
Location Adaptive



12.000

Training for
communities



40.000

Fishermen group
targeted for
fisheries extension
program



380

Radar Satellite
Images for
Surveillance



**Policy
recommendation**

5 Product Processing

6 Socio-Economics

12 Fisheries

12 Marine



2.860

Training for
MMAF Staff



18

Standardized
marine and
fisheries high
school/polytechnic
universities

ABOUT BRSDM

VISION AND MISSION OF MINISTRY OF MARINE AFFAIRS AND FISHERIES (MMAF) IN 2015-2019(AT GLANCE)

SEA IS OUR FUTURE

We have to work as hard as we can to restore Indonesia as a maritime power. The oceans, the seas, the straits and the bays are the future of our civilization. For far too long, we have turned our backs on the seas, the oceans, the straits and the bays.

Now is the time to restore Jalesveva Jayamahe [At sea we are victorious], the motto of our forefathers. We should return back to sailing the seas.

Joko Widodo, October 20th 2014



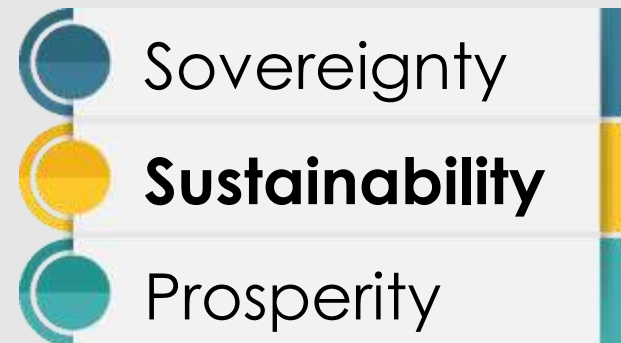
TRISAKTI & NAWA CITA



MMAF VISION

To achieve sovereign, independent and sustainable management of marine and fisheries resources for the people's prosperity

THREE (3) MMAF MISSION



MMAF TECHNICAL UNITS AND ITS ROLES (AT GLANCE)

Responsible Mission

Sovereignty
Mission

Prosperity
Mission

Sustainability
Mission

1

PSDKP :
Marine and fisheries
resources
surveillance

2

BKIPM :
Fish quarantine,
quality control, food
safety, and
biosecurity

3

DJPRL :
Marine spatial planning and
conservation of marine biodiversity

4

DJPT DAN DJPB :
Sustainability of capture fisheries
and aquaculture businesses

5

DJPDS :
Marine and fisheries products
competitiveness and logistics
systems

6

BRSDMKP :
1. HR and
empowerment

7

2. Marine and
fisheries science and
technology
innovation

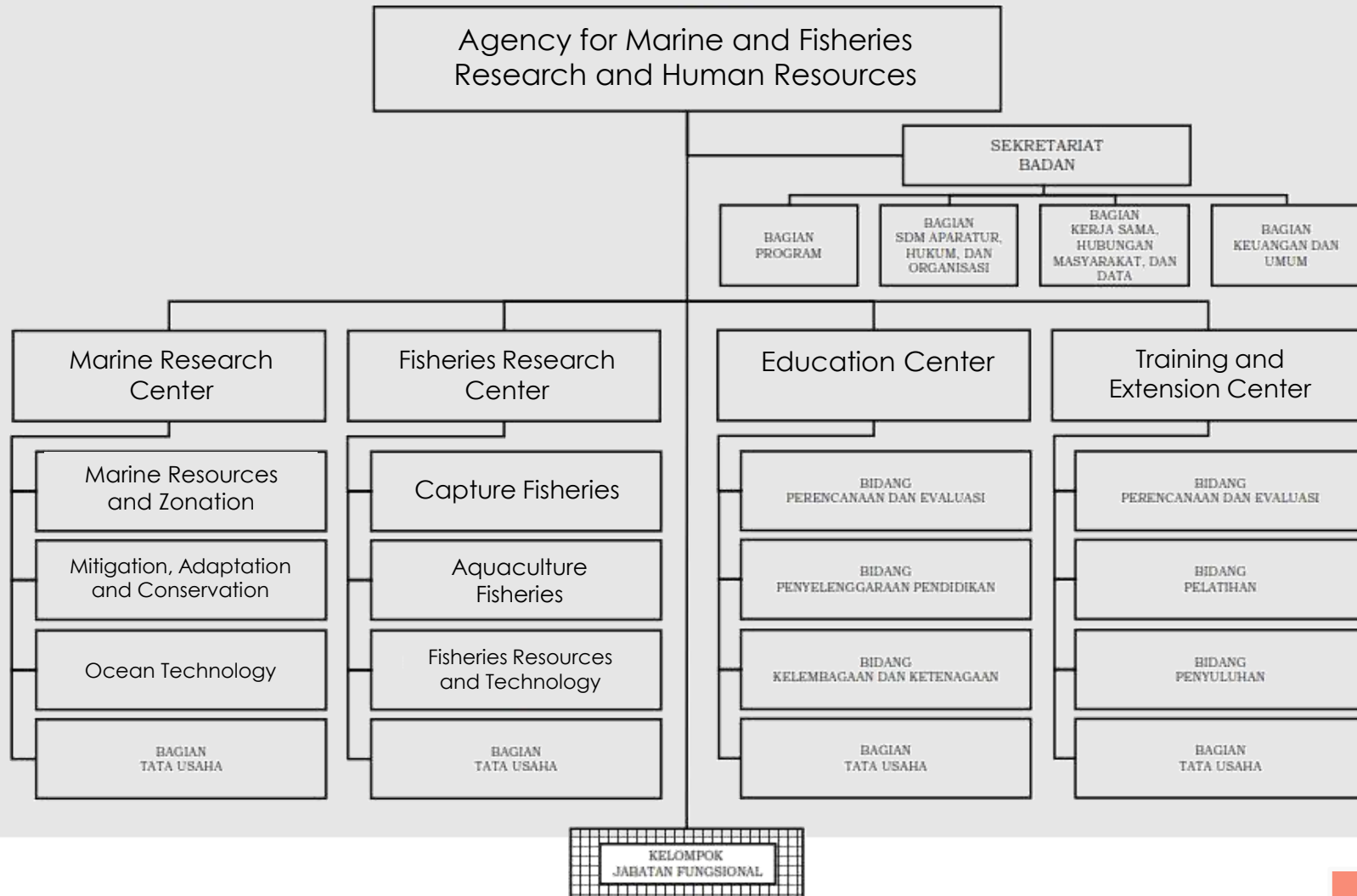


MARINE AND FISHERIES PROBLEMS

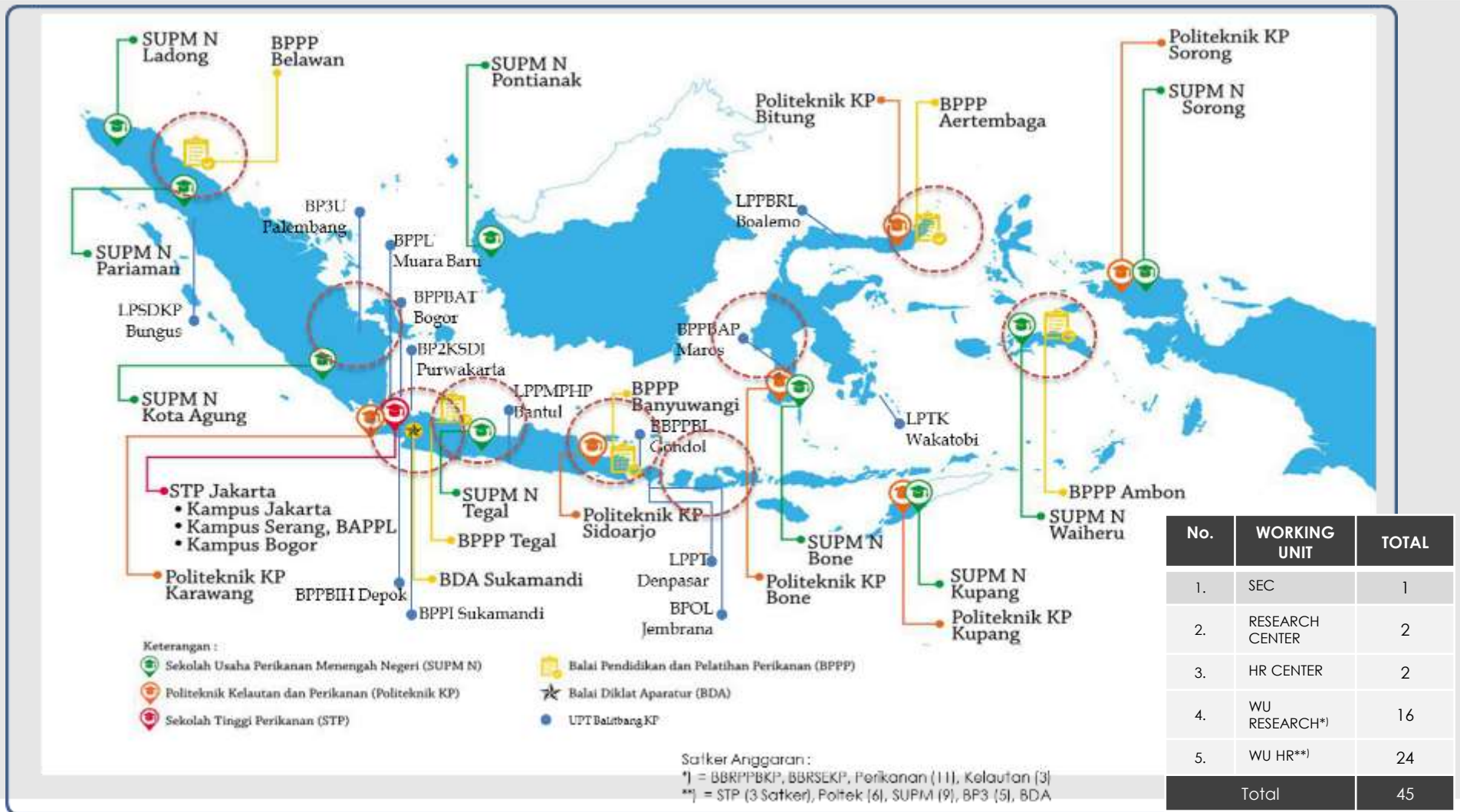
1. IUU FISHING
2. Marine and Coastal Degradation
3. Destructive Fishing
4. Impact of Climate Change
5. Poverty of Fishers
6. Overlapping of Marine and Coastal Utilization
7. Price Uncertainty for Marine and Fisheries Product



ORGANIZATION STRUCTURE (Permen KP No.6/2017)



WORKING UNITS




BRSDM PRIORITY PROGRAM

by 2017



2
Integrated
Aquarium &
Marine
Research
Institute


Location : Pangandaran & Morotai




5

Stock
Assessment
IN WPP NRI

Location : WPP 711, WPP 712,
WPP 715, WPP 716, WPP 717



7.568
Students



104
SCHOLARSHIP



1
INDESO
(Pantauan
Perairan
Laut)



3

Stock
Assessment
di KPP
PUD LOKASI: KPP
PUD (431, 438, 439)

27
Pengadaan dan
Bangunan Lab



42

Policy
Brief
Location :
SKPT, I
Location
Priority




Location :
Pangandaran,
Dumai, Jemberana,
Lanjutan Karawang
dan AK Wakatobi

5 MARINE AND
FISHERIES
POLYTECHNICS
DEVELOPMENT



1.750
TRAINING FOR
MMAF STAFF




3.000
TRAINING FOR
Enumerator

9 INOV TECHNOLOGY
AND ADDED VALUE FOR
FISHERIES PRODUCT

3 INOV MARINE

2 INOV SOCIO-
ECONOMICS



1
Proposal of
HKI/Patent/Release

12
Scientific Data and
Information


6.000
Sertifikat
Kompetensi



9
Institutional
Certification
ISO 9001:2008

3
Science center

2
International research
center
AOFIC; IERDMD



2.500
ADDITIONAL
EXTENSION OFFICER

BRSDMKP
Badan Riset dan SDM
Kelautan dan Perikanan



GAPS

- DATA & INFORMATION VALIDITY AND CONTINUITY
- COMPLIANCE TO NATIONAL ONE-DATA POLICY
- CONNECTIVITY BETWEEN R/D TO POLICY-MAKING
- INFORMATION OPENESS, TRACEBILITY & STANDARDS
- LINKAGES WITH GLOBAL SYSTEM
- INFORMATION USER-FRIENDLY FEATURES TO POLICY-MAKERS & PUBLIC
- BETTER INFORMATION ACCURACY AS **NATIONAL ECONOMIC DECISION & INDUSTRY TRENDSETTER**

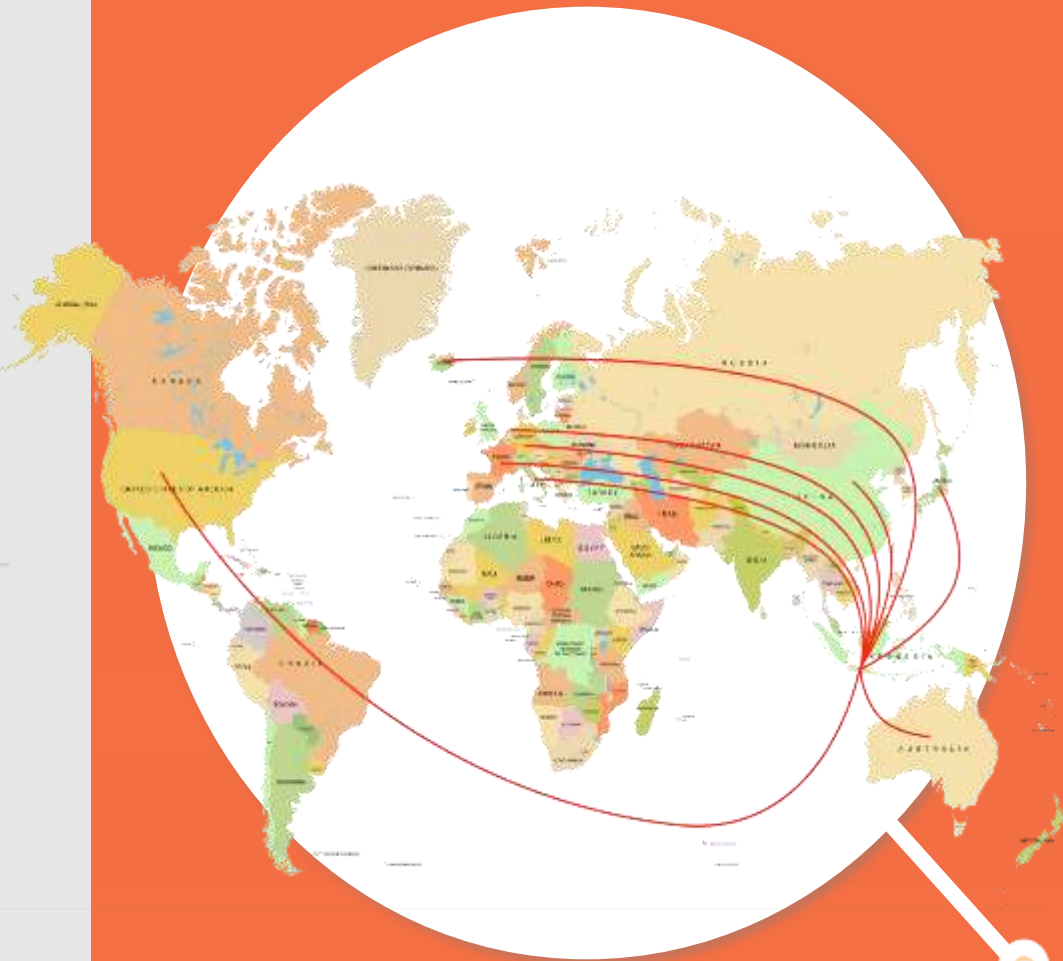


OPPORTUNITIES & CHALLENGES

- NATIONAL DATA POLICY
- KKP ONE-DATA POLICY
- INDESO KKP OPERATION OUTPUTS IN STRENGTHENING NATIONAL DATA & INFORMATION VALIDITY & STANDARDS
- PLANNING FOR EFFECTIVE OPERATION FOR MARINE OBSERVATION LINKING TO INDUSTRY
- CONNECTIVITY WITH OTHER REGIONAL SYSTEMS



RESEARCH COLLABORATION



[Internasional]

- UCSB – Amerika Serikat
- CSIRO – Australia
- Maritime Cooperation - Establishment of Indonesia China Ocean and Climate Center (ICCO) – China
- SATREPS JICA, Blue Carbon – Jepang
- SATREPS JICA, Mariculture – Jepang
- Scientific Cooperation within the Framework of the Program Science for Indonesian Marine Ecosystems and Fisheries (SIMEF) - Jerman
- WCPFC (Western and Central Pacific Fisheries Commission)
- IRD – Perancis
- INDESO - Perancis
- SEAFDEC – Thailand
- Virbac - Perancis
- CCSBT - FAO

CAPACITY BUILDING



[Cooperation Program for S2- S3 Degree]

- University of Andalusia (UNIA), Spanyol
- Coventry University, Inggris
- Essex University, Inggris
- Flinders University, Australia
- James Cook University, Australia
- Kochi University, Jepang
- University of Liverpool, Inggris
- Michigan State University - College of Veterinary Medicine, USAID, USA
- Monash University, Australia
- Murdoch University, Australia
- Royal Melbourne Institute of Technology (RMIT), Australia
- University of North Carolina at Wilmington, USAID, USA
- Queensland University, Australia
- Wageningen University, Belanda
- Wollongong University, Australia



INHOUSE CONSULTANT

10 FOCUS RESEARCH BRSDM



Research Publications

2011 - 2016

http://bpsdmkp.kkp.go.id/apps/data_riset/



Research Focus:

10 research focuses of ARHRMF (BRSDM)-MMAF strategic Plan 2015-2019



Research in Fisheries Area for 2015-2019:

- Fisheries exploration including stock Assessment in Marine and Inland Waters
- Development of “*environmentally friendly*” fishing technology and Inovations
- Sustainable marine and freshwater aquacultures, including development of fish disease management technology, vaccines, appropriate fish farming technology
- Culture Based Fisheries (CBF) Management with the appropriate species in Inland Waters
- Ecosystem Approach to fisheries management (EAFM) in Marine and Inland Waters
- Fish Resources Conservation and enhancement



Adaptive Location Technology Application (INTAN) for 2018



Inovasi Teknologi Adaptif Perikanan (INTAN)

Minapadi Udang Windu

PROBIOTIK RICA

Panen 1,0 kw/ha/siklus

Tokolan 2-4 minggu

Panen 70,0 kw GKP/ha/siklus

- ✓ Inpari 34 Salin Agritan
- ✓ IR-64
- ✓ Inpari 35 Salin Agritan
- ✓ Way Apo Buru

PUSRISKAN

Inovasi Teknologi Adaptif Perikanan (INTAN)

Pakan Mandiri Biokonversi

MAGOT

Sampah Organik

40 KK 3 kg/hr

EKSTRAK ALBUMIN US\$2.5/mg

BUDIDAYA GABLUS

Pakan Lokal

1 ton organik 100 kg magot

Tingkat dan Nilai Produksi 2001 - 2011 36837 ton 2,95%/tahun

PUSRISKAN

Inovasi Teknologi Adaptif Perikanan (INTAN)

Lighting Atraktor Ikan Pelagis

Fototaksis Positif

200K 400K 600K 800K 1000K 1200K

PUSRISKAN

Inovasi Teknologi Adaptif Perikanan (INTAN)

Integrasi RAS Perairan Waduk

PUSR



Function :

To produce policy development concepts and strategies on marine and fisheries based on scientific



OUTPUT

- *Technology Innovation and Recommendations*
- *Policy brief*
- *Academic Papers*
- *Model simulations*
- *Scientific infographics*
- *Technical Recommendations*
- *Data and Information*
- *Design System*



BENEFITS

- Quickly respond Advises
- Accountable
- Based on Scientific
- Public Acceptable
- Supported by National and International Experts
- Helping ministerial for decision making process and research publication



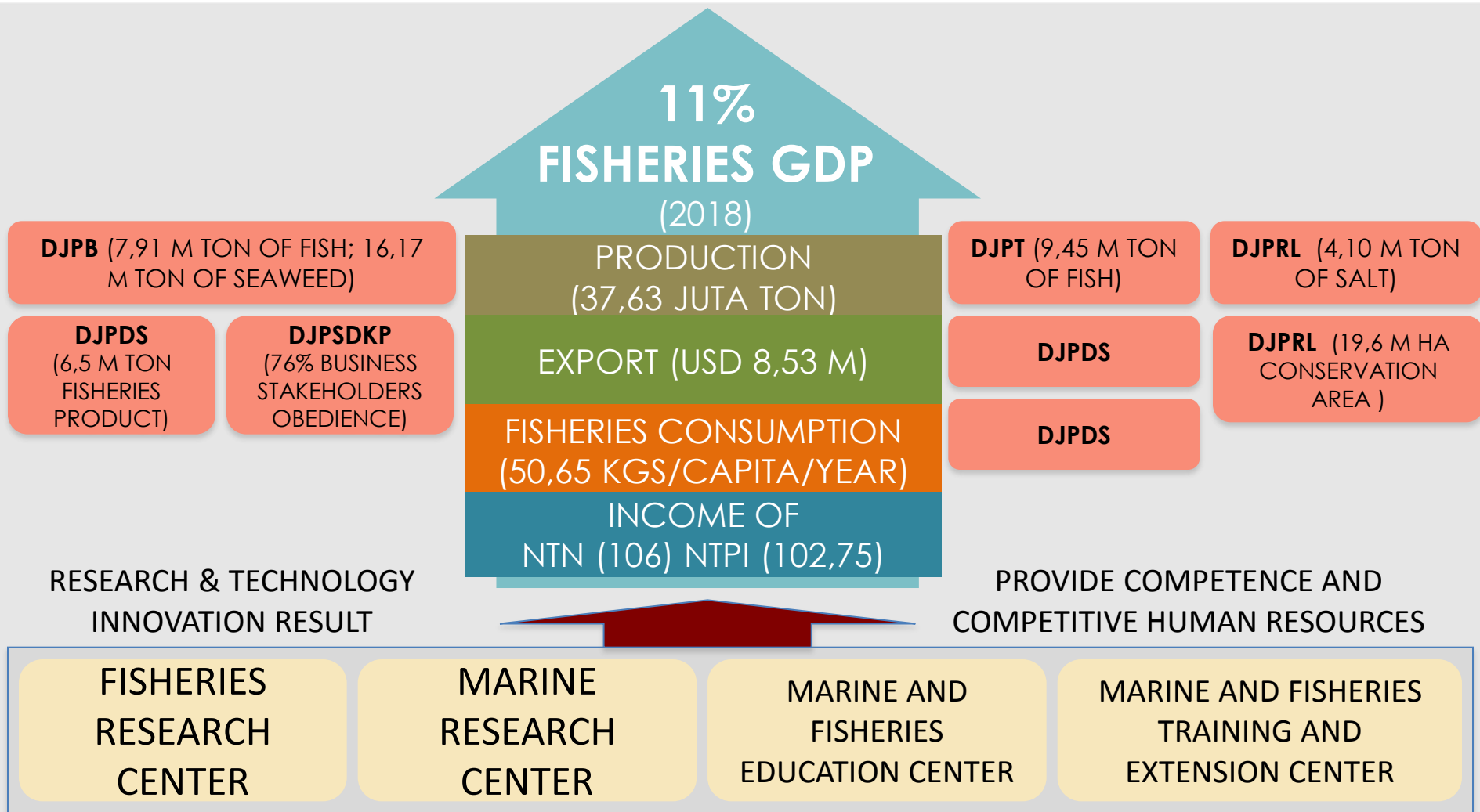
- *Echelon I under MMAF*
- *Ministerial related to maritime affairs
(Kemenkomar, Bakamla, BIG, Pushidros, dll)*
- *Local Government*
- *Universities*
- *National and International NGOs*



PROGRAM SUPPORT AND ACCELERATION

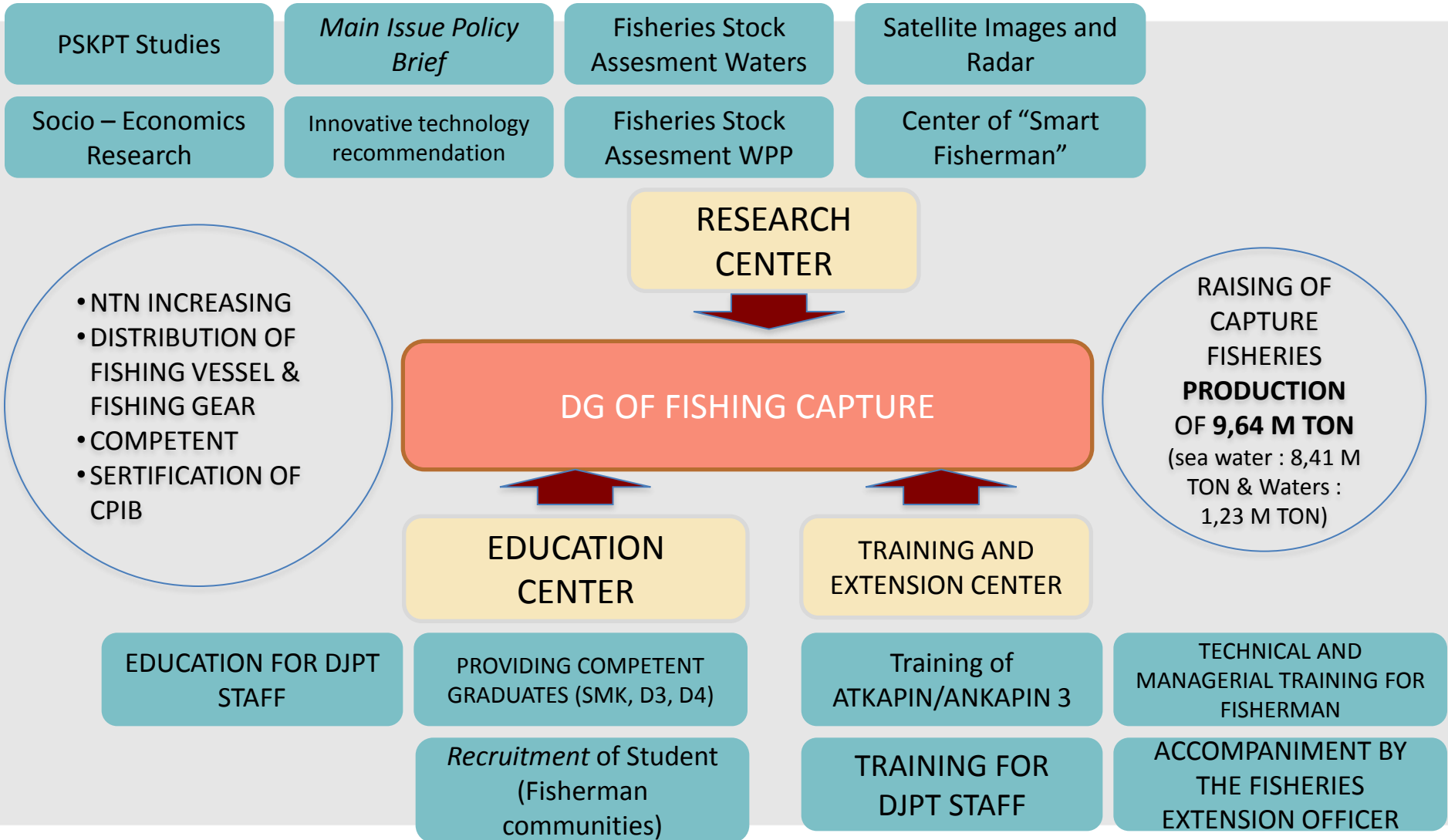


BRSDM ROLE SUPPORTING MMAF ACHIEVEMENT OF MAIN PERFORMANCE INDICATOR (IKU) BY 2018

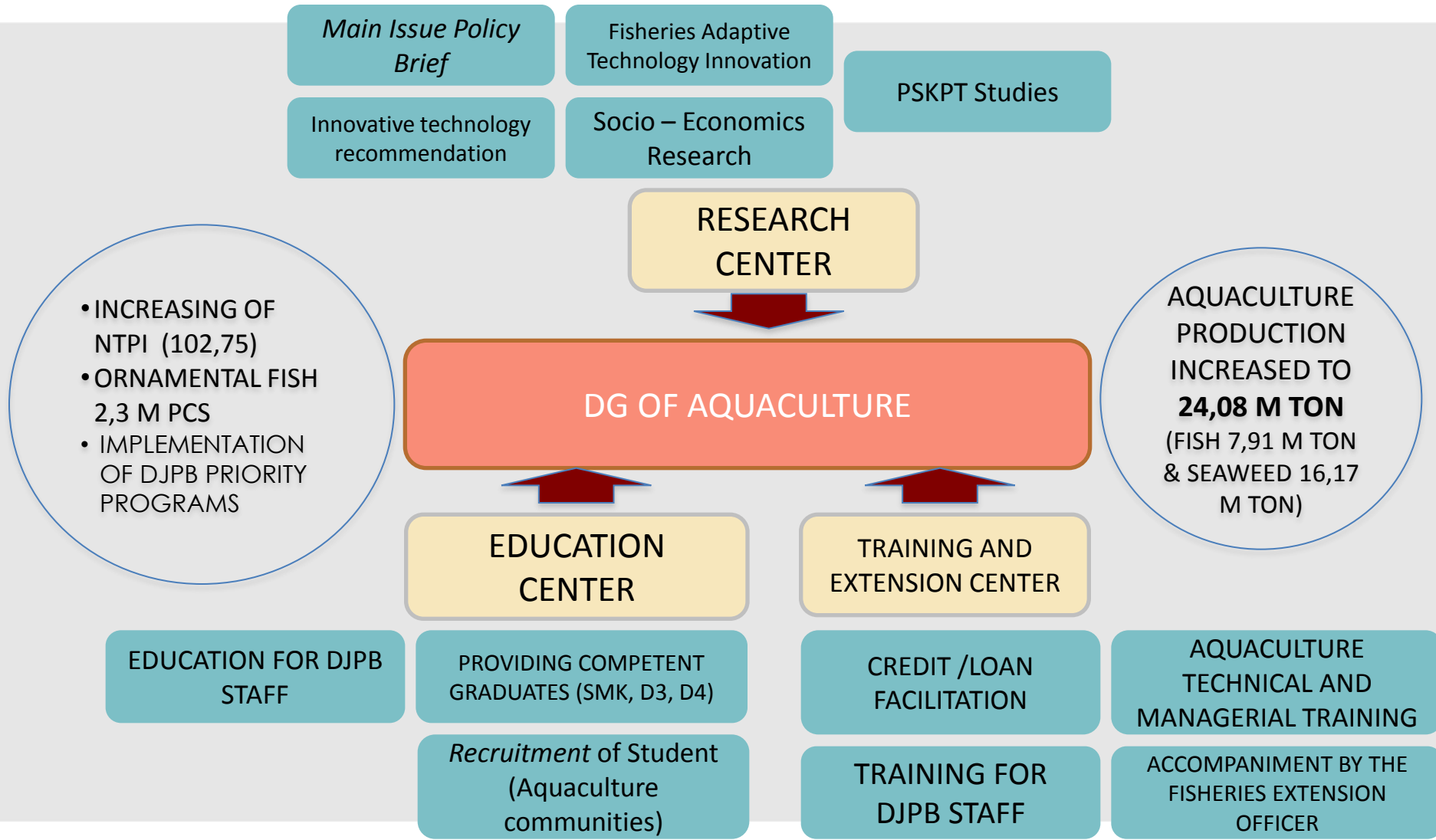


Science based decision

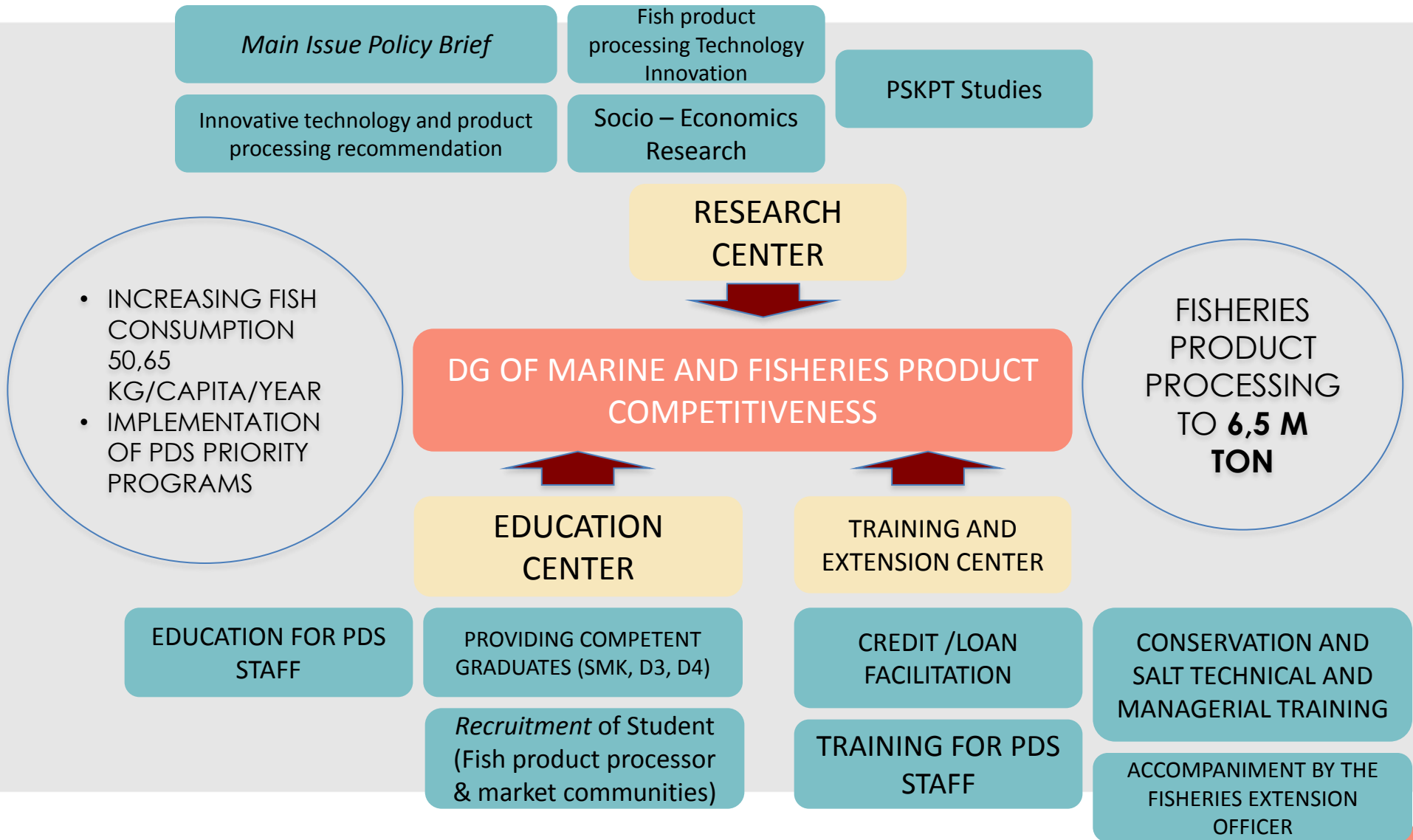
BRSDM ROLE SUPPORTING DJPT



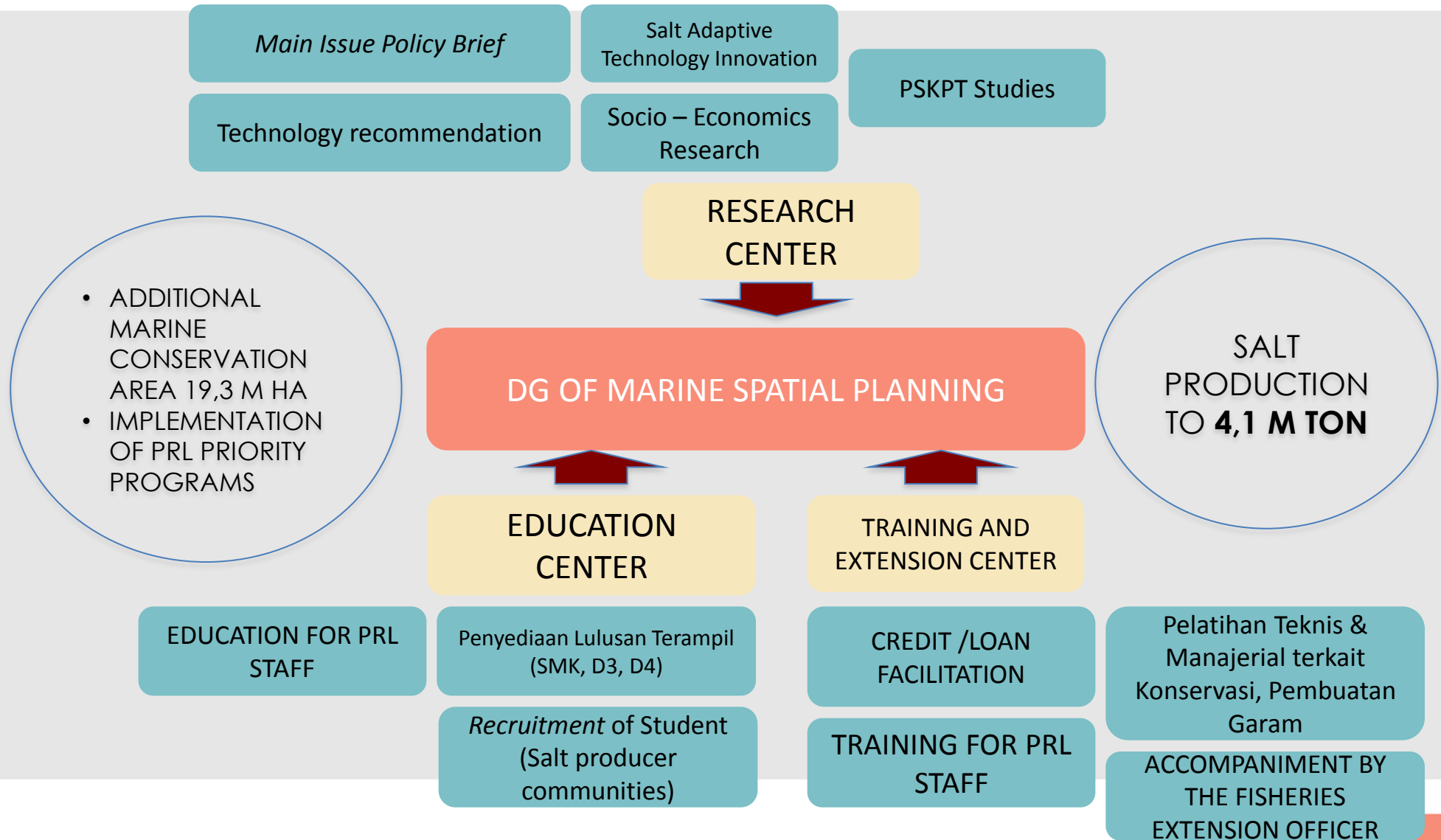
BRSDM ROLE SUPPORTING DJPB



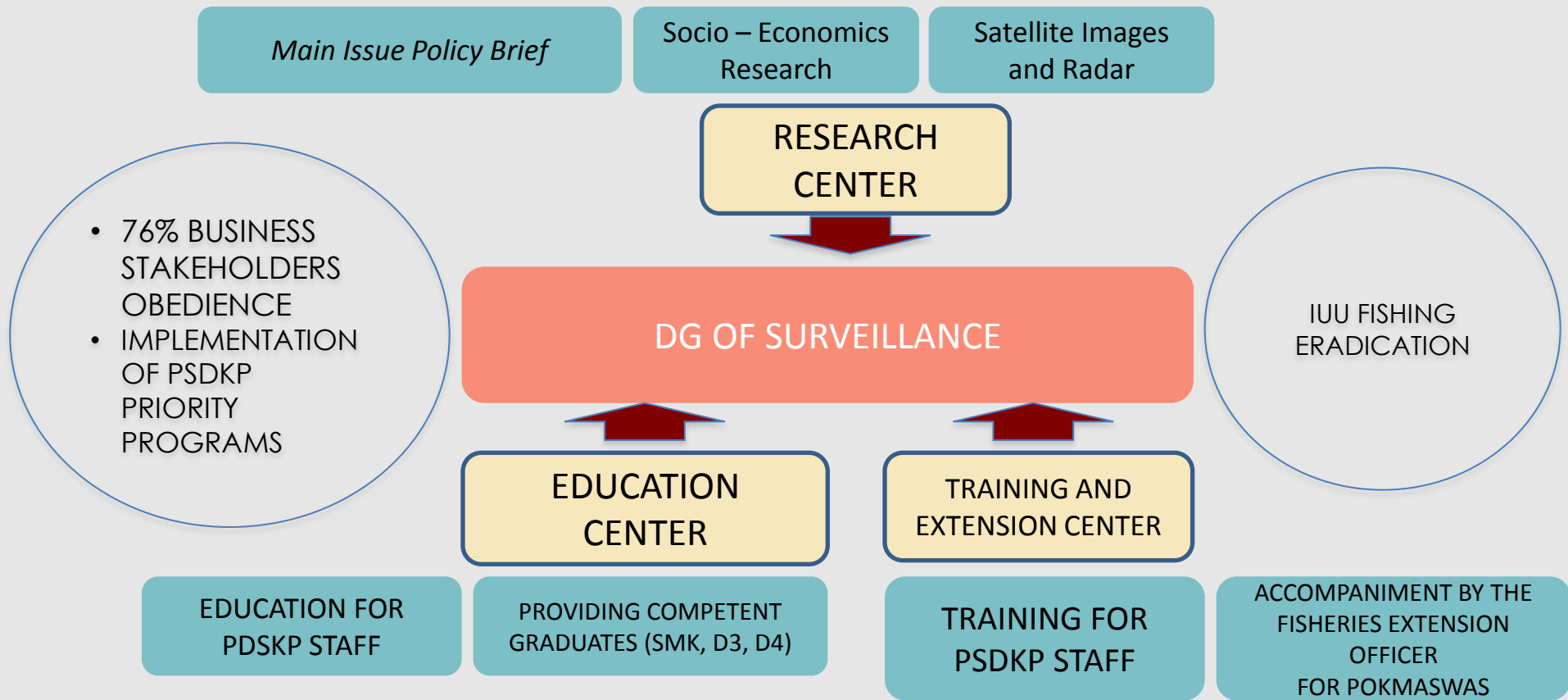
BRSDM ROLE SUPPORTING DITJEN PDS



BRSDM ROLE SUPPORTING DITJEN PRL



BRSDM ROLE SUPPORTING DG OF SURVEILLANCE



BRSDM ROLE SUPPORTING FISHERIES QUARANTINE AGENCY

