

NUCLEAR SCIENCE AND TECHNOLOGY APPLICATION IN INDONESIA

Ferhat Aziz

National Nuclear Energy Agency of Indonesia

BATAN



Basic Principals

Peaceful Uses of Nuclear Science and Technology

Safety and Security

“Demand driven” and “stakeholder satisfaction”



BATAN Research Areas



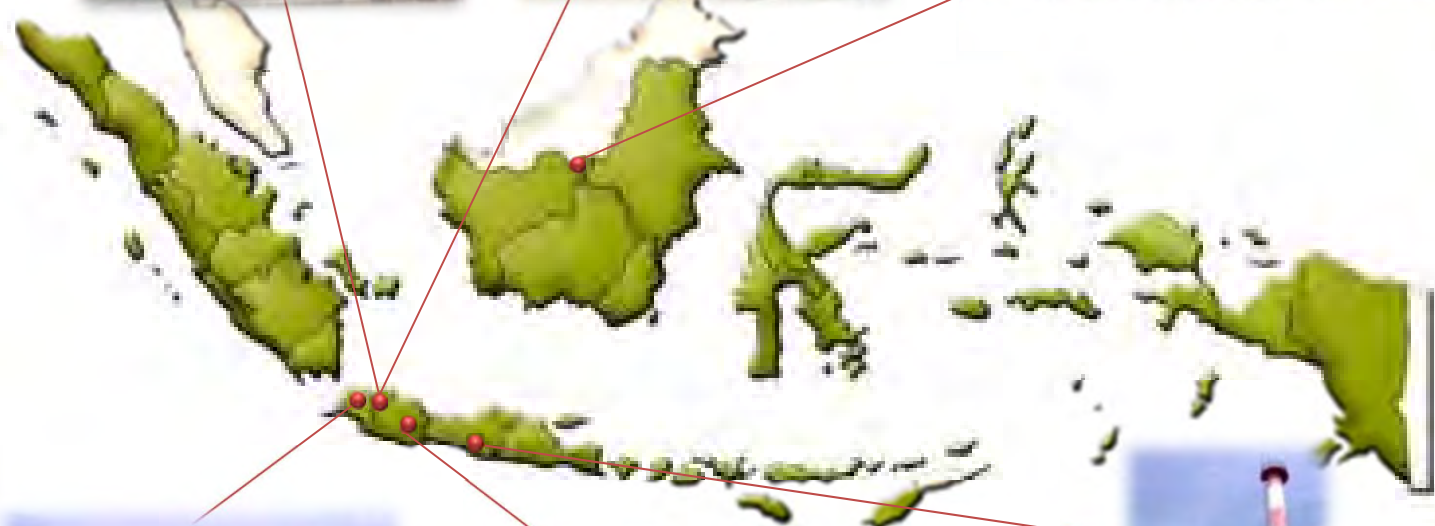
Head Office, Jakarta



Pasar Jumat Complex



Uranium Exploration Area
Kalan



Serpong Complex



Bandung Complex



Yogyakarta
Complex





Bandung Complex



Yogyakarta
Complex









Challenges in Modern World



Application in Agricultural and Animal Husbandry Fields

Development of food crops utilizing mutation breeding technique and types of animal food supplements and its sustainable supply, food irradiation technique and fertilizing technique.



Bestari



Azora



Produk Hasil Pengawetan

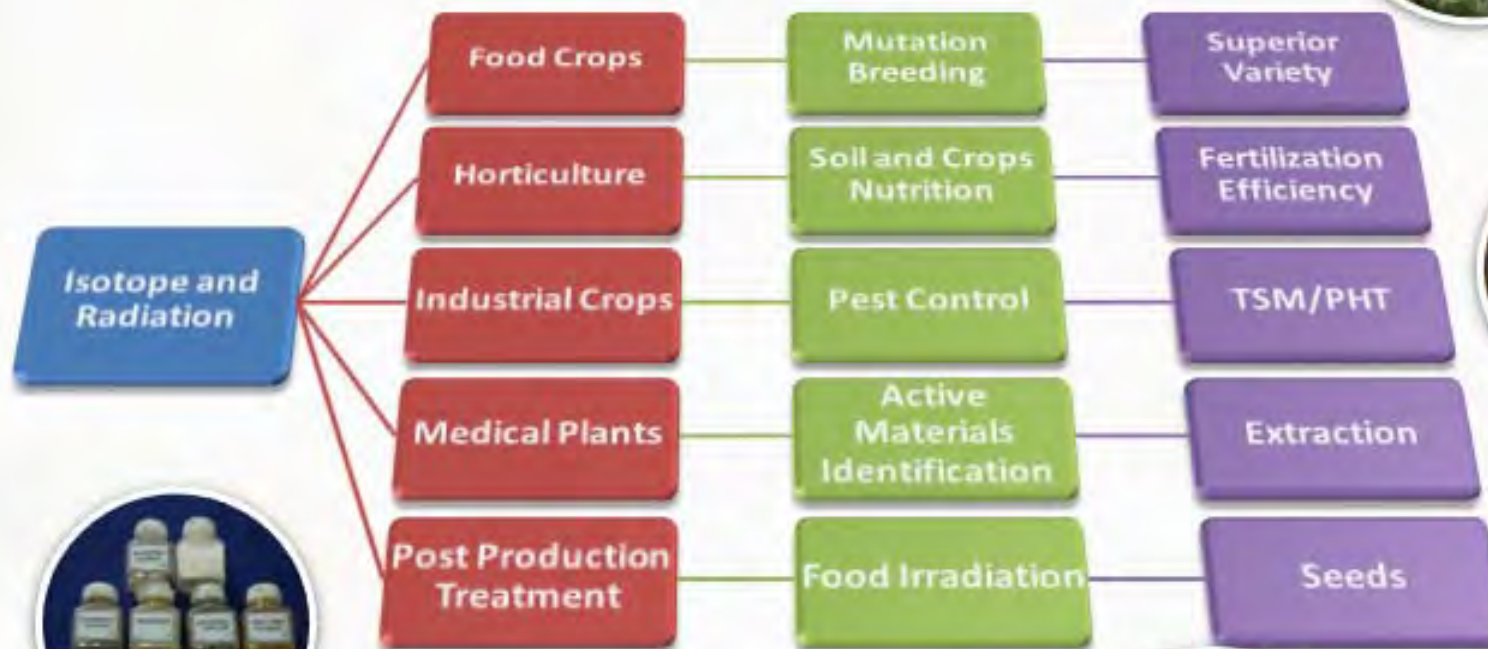


Suplemen Pakan

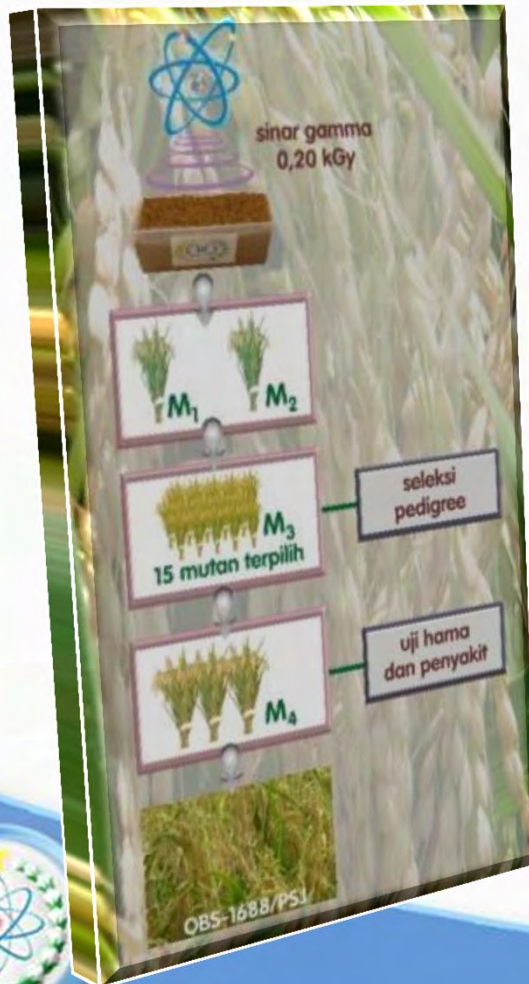


Shorgum

Agricultural Applications



Mutation Breeding Technique for Superior Variety Development



RICE CROPS

1. Atomita 1
2. Atomita 2
3. Atomita 3
4. Atomita 4
5. Situgintung
6. Cilosari
7. Merauke
8. Woyla
9. Kahayan
10. Winongo
11. Mayang
12. Yuwono
13. Diahsuci
14. Pandanputri
15. Mira-1
16. Bestari
17. Inpari Sidenuk



SOYBEAN

1. Muria
2. Tengger
3. Meratus
4. Rajabasa
5. Mitani



MUNGBEAN

1. Camar



COTTON

1. Karisma



Sorgum

- 10 Galur mutan harapan

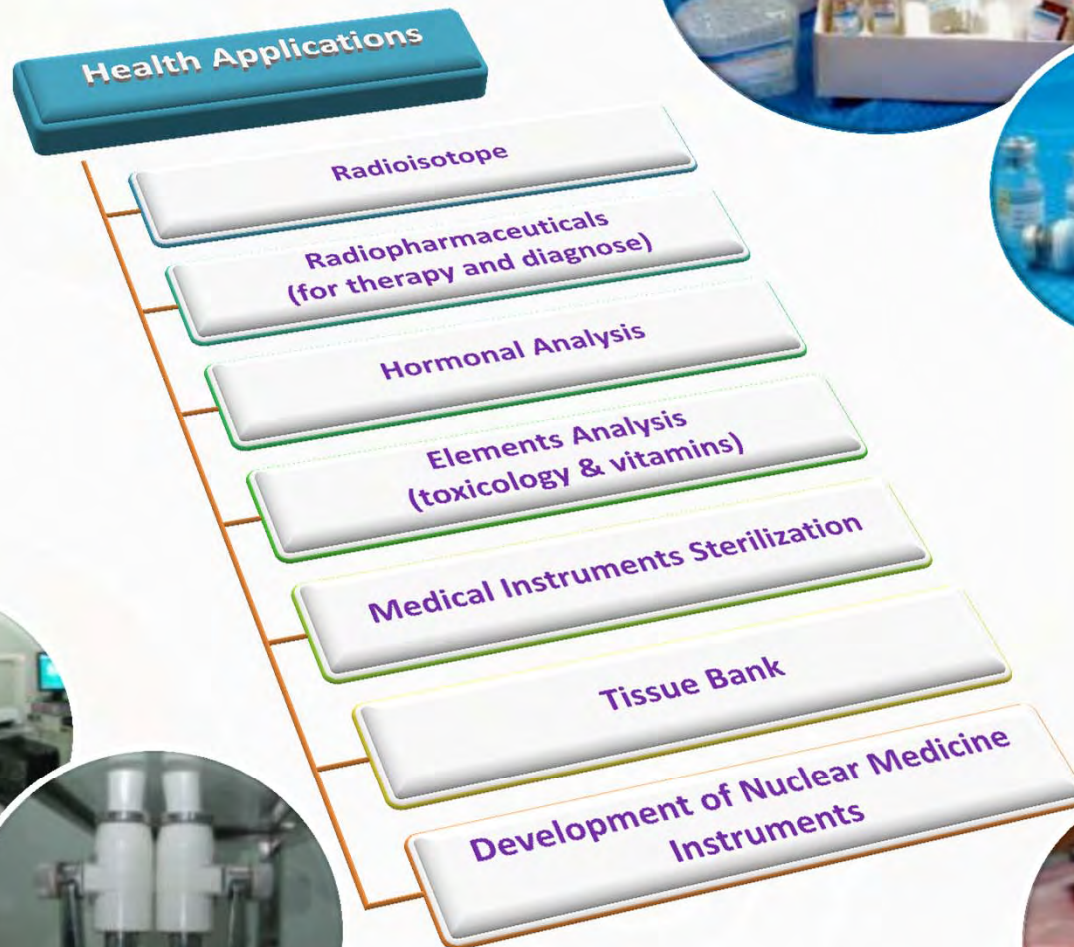
Animal Husbandry Applications



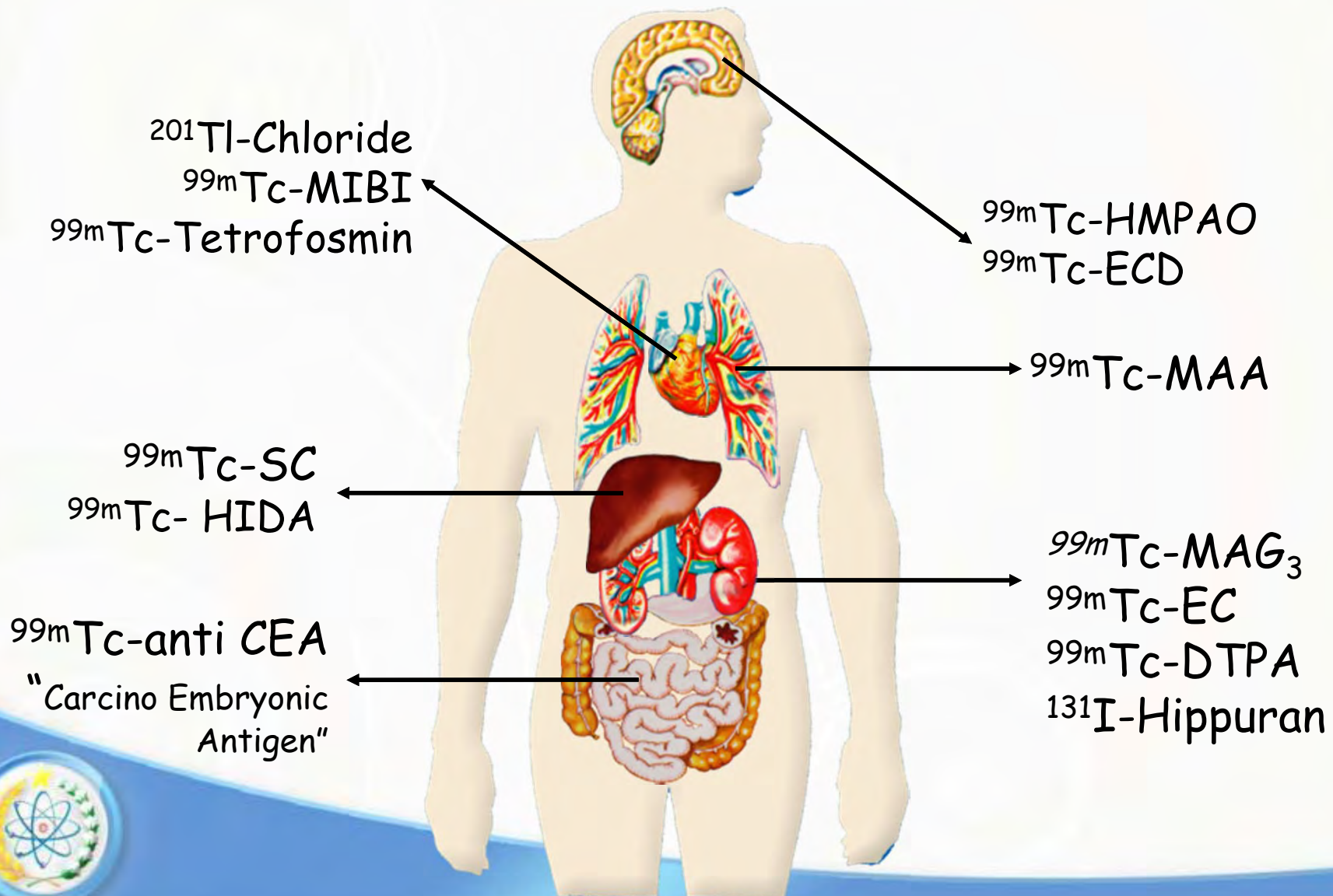
Food Irradiation



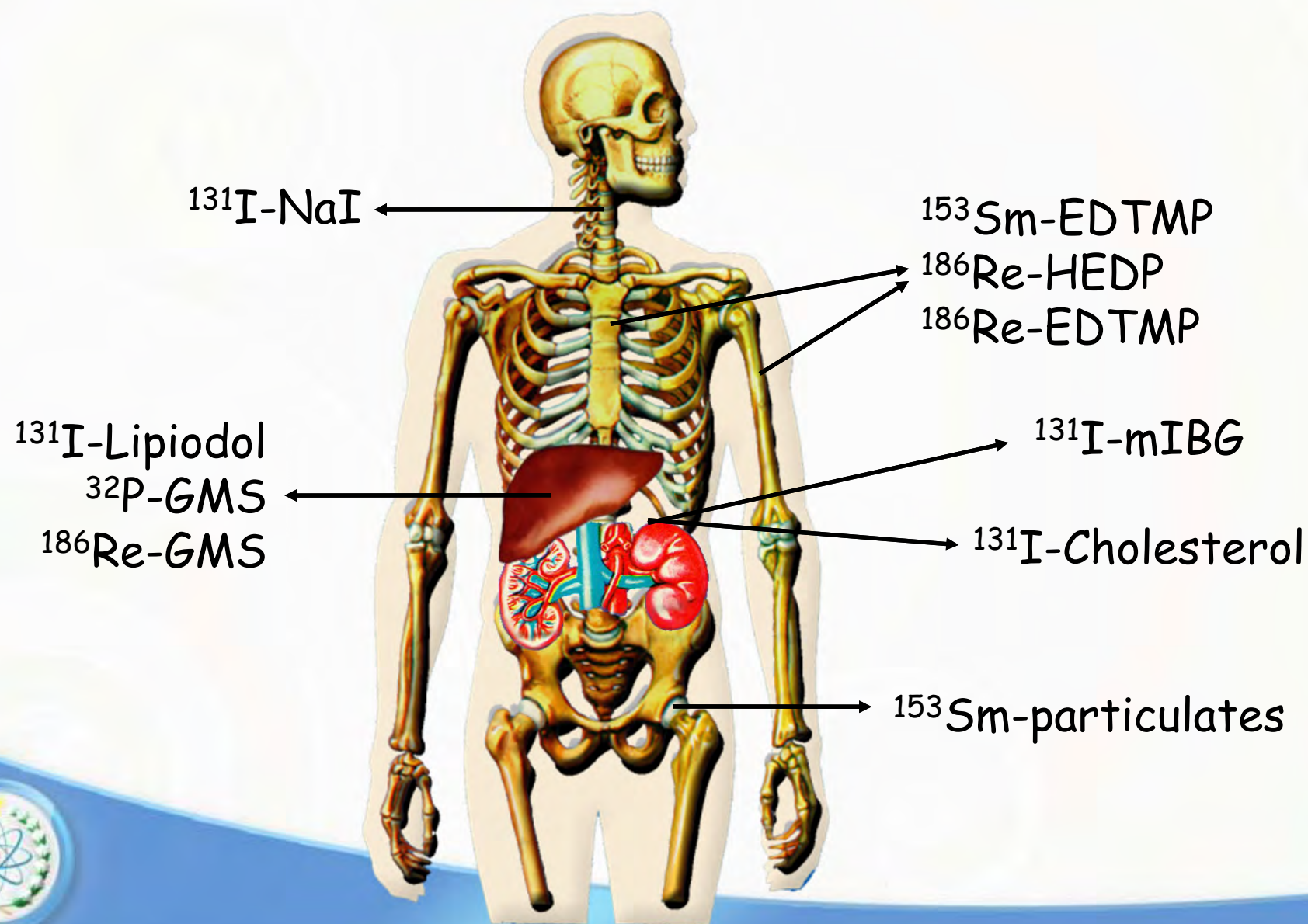
Health Applications



Diagnostic Radiopharmaceuticals



Therapeutic Radiopharmaceuticals



BATAN Research on Tissue Bank Sterilization



Medical Instruments



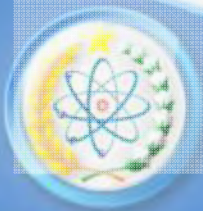
Renograph



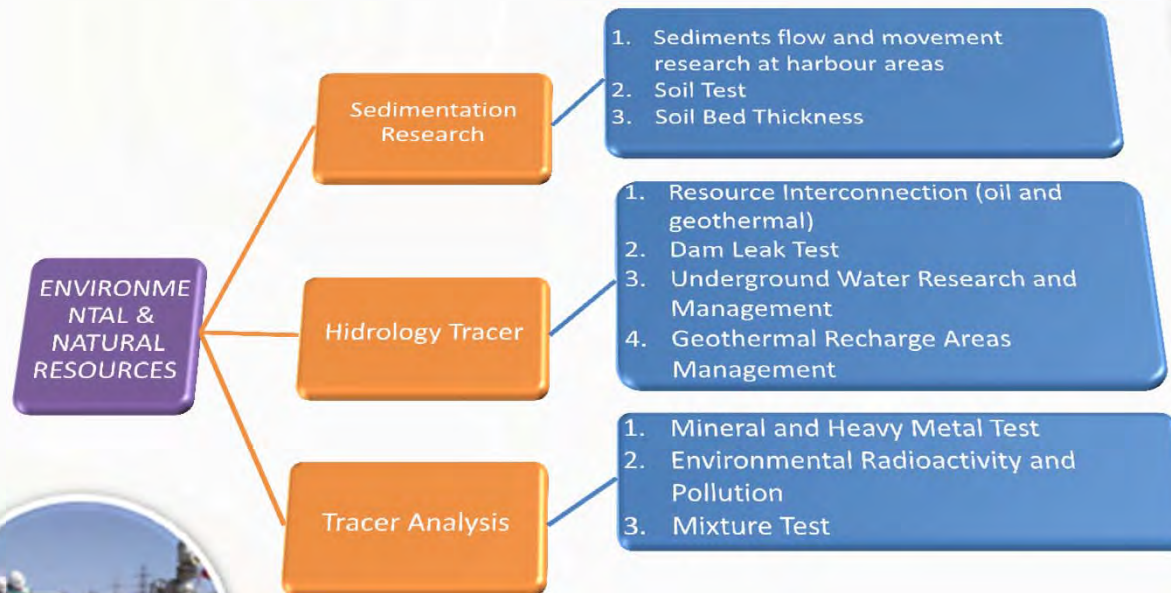
Thyroid Uptake

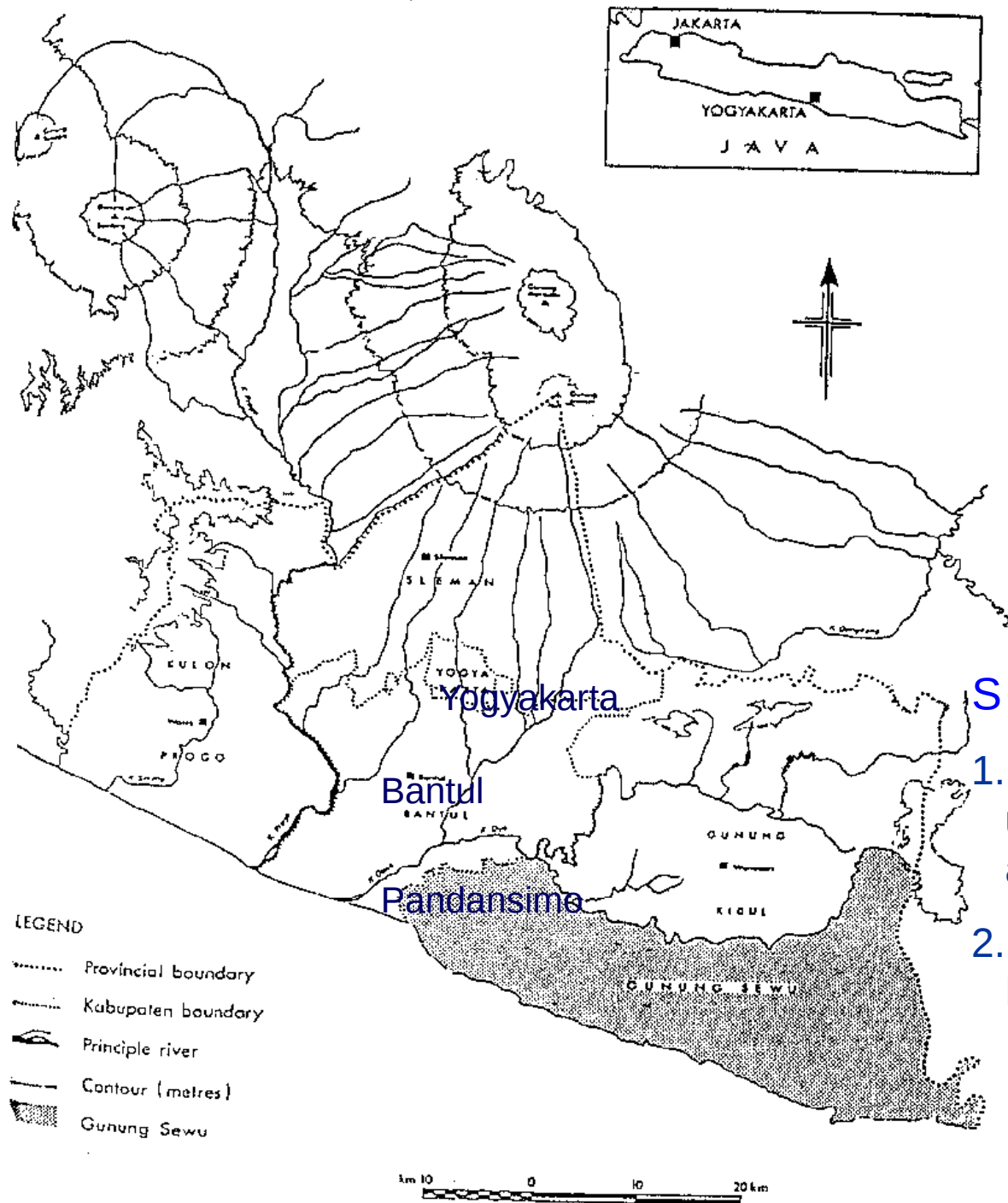


Gamma Camera



Environmental and Natural Resources Applications





1. Wind-powered Water Pump at Pandansimo (LAPAN)

2. Underground Water Management at Karst Area Bribin, Gunungkidul (UI, UNS, UGM)

S & T for Regional Development

1. Research on surface water utilizing natural isotopes at Bantul area

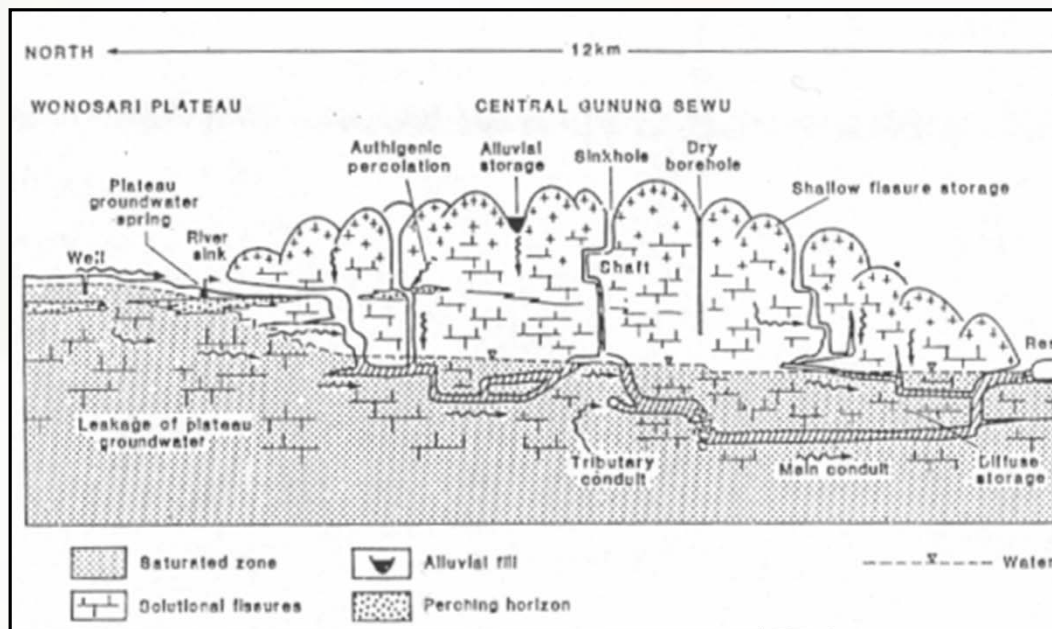
2. Sea water intrusion Research at Pandansimo area

Gunung Kidul Karst Area

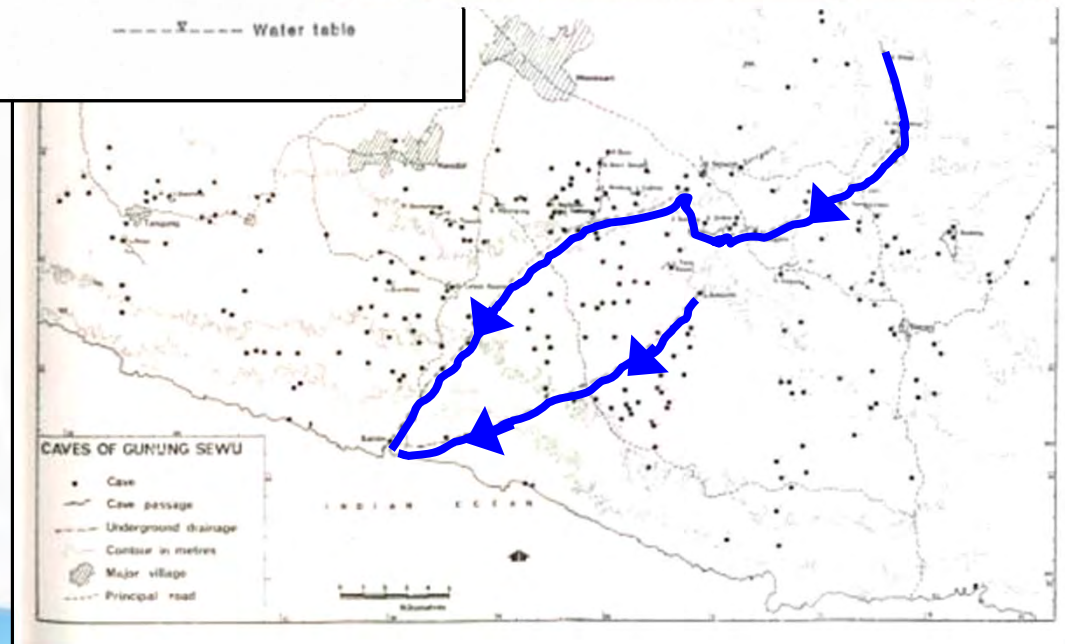




Bribin Cave



Underground river KALI BRIBIN



Utilization of Nuclear Applications



Nuclear Research Products Utilization Program

“product approach (barang/jasa)”



Active Stakeholders



PROGRAMS



COVERAGE AREA

DISEMINASI IPTEK NUKLIR HASIL LITBANGYASA IPTEK NUKLIR



MITRA KERJA

PERKOTA UNY, LAMPUNG MERDEKART
PERKOTA UNY, MUKA KUSUB
PERKOTA UNY, STANISULA
PERKOTA UNY, WABERUS
LEHIT UNY, ANDALUS
LEHIT UNY, BENDIGULU
LEHIT UNY, KARANGKUN

LEHIT UNY, BAW
LEHIT UNY, SAN BAHUANG
LEHIT UNY, SIKULUKA
LEHIT UNY, LOKUNG
LEHIT UNY, RABANAN
LEHIT UNY, POLANDARANA
LEHIT UNY, TONGKORUKA

LEHIT UNY, JOMBANG
LPPH UNY, JAMP
LPPH UNY, SULAN AGUNG TIRISABAN
GHEC UNY, SIKULUKA MADA
UNY, HAUDEK
BPSB 1041 PEPH, JAWA BARAT
DITEN KAB. KIDUL

DITEN KAB. KIDUL
DITEN PEPH, GONDOWAL
DITEN KAB. JEMARA
DITEN KAB. KIDUL
DITEN KAB. POK
DITEN KAB. RENGAS
DITEN KAB. SUNDARA TIRISABAN

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MITRA UNY, KIDUL
KIDUL, PERKOTA UNY, JAWA BARAT
UNIVERSITAS DIPONEGORO
UNIVERSITAS DIPONEGORO
ANTARA
MAJUTEX
Pusat Riset dan Pengembangan

Pusat Diseminasi IPTEK Nuklir
BATAN
BATAN



Animal Husbandry at South Kalimantan



Environmental and Mineral Resources Application

Water Management

- Jepara
- Klaten
- Magelang
- Bangkalan
- Malang

Underground Water Research

- Sumenep
- Kudus
- Demak
- Sampang
- Kendari
- NTB

Water Management

- Jakarta
- Klaten
- Bontang, Kaltim
- Banten

Geothermal Resource Management

- Sibayak, Sumut
- Kamojang, Jabar
- Lahendong, Sulut



THANK YOU

