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# **INCREASING MANAGEMENT EFFICIENCY OF WATER RESOURCES IN SELANGOR THROUGH CLOSE COORDINATION BETWEEN IRBM AND ICM**

**EAS CONGRESS 2015, Da Nang Vietnam**  
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# PRESENTATION OUTLINE

- ❖ Introduction on Selangor Water Management Authority (LUAS)
- ❖ Water resources management in Selangor
- ❖ The implementation of IRBM and ICM in Selangor
- ❖ The Way Forward



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# INTRODUCTION ON LUAS

- Established pursuant to LUAS Enactment 1999
- A regulator & manager for water resources – in a holistic, integrated & sustainable manner
- Water resources including river basins, water bodies, groundwater and coastal areas in the State of Selangor



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## THE OBJECTIVES OF LUAS

- ✓ To ensure the water resources & environmental surrounding is in a manageable & sustainable condition;
- ✓ To undertake the function of planning, research, facilitator, coordinator, operation, enforcement, supervision in the development of integrated management for water resources & environment;
- ✓ To provide an environment that is conducive for public & private sector participation in the development, utilization & management of water resources; and
- ✓ To create the public awareness & the participation of the public on the importance of water resources.



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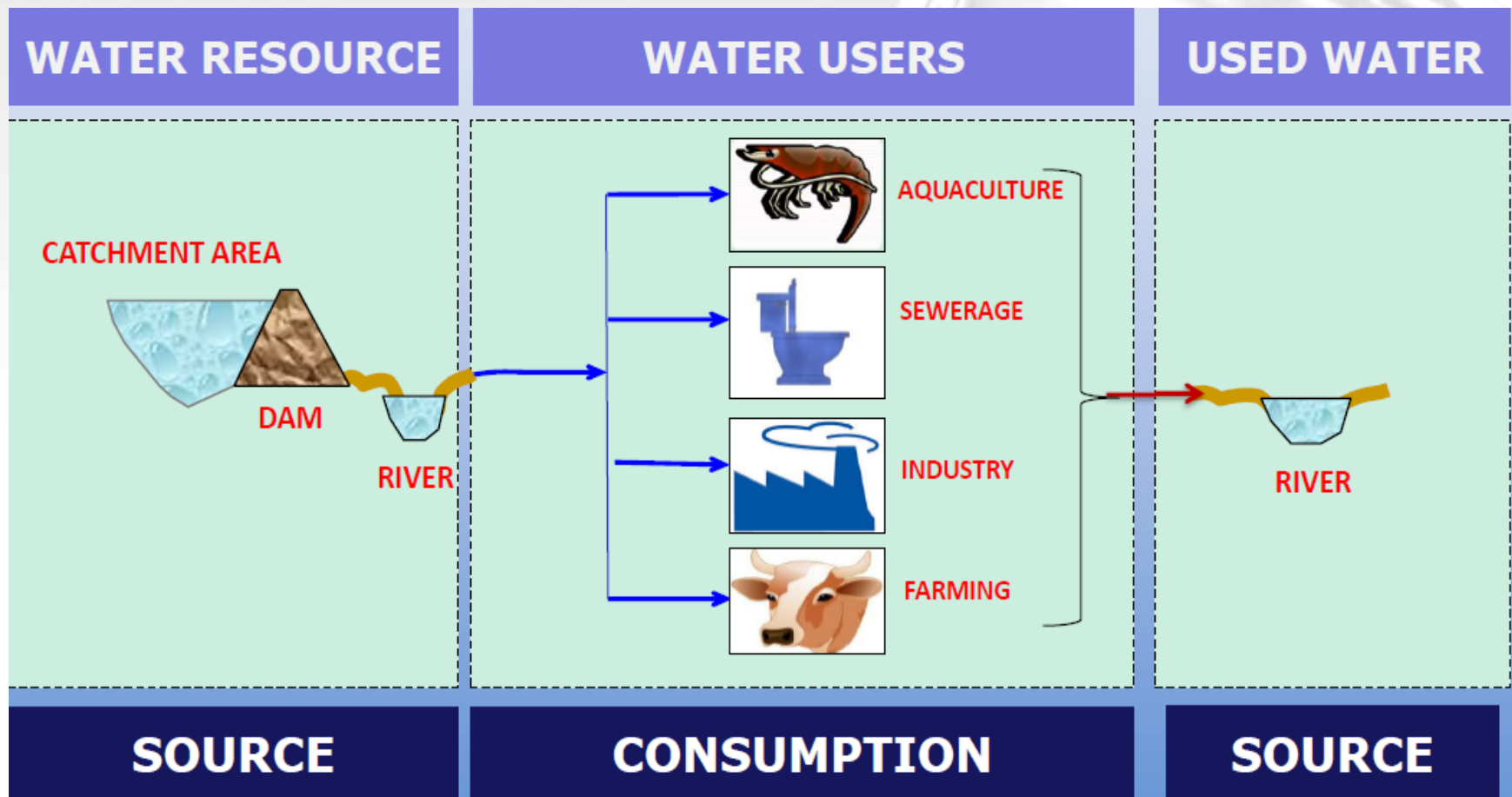
# **WATER RESOURCES MANAGEMENT IN SELANGOR**



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# WATER MANAGEMENT



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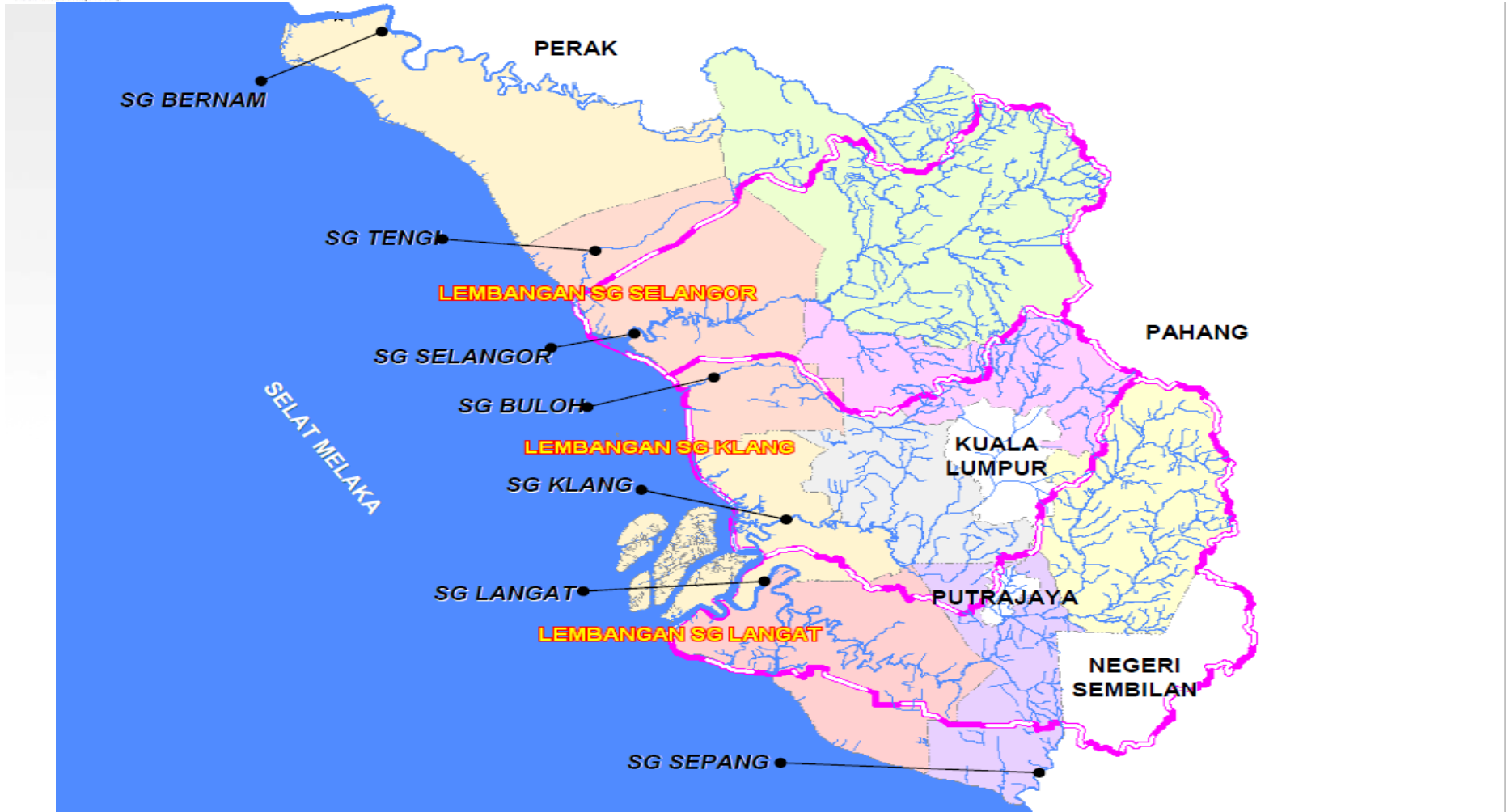




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River basins and coastal water in Selangor



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## ISSUES PERTAINING TO WATER RESOURCES MANAGEMENT IN SELANGOR







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# THE IMPLEMENTATION OF IRBM AND ICM IN SELANGOR



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## *Pelaksanaan Pelan Pengurusan Bersepadu*

46. (1) Walau apa pun apa jua peruntukan lain dalam mana-mana undang-undang, Lembaga-

- (a) bolehlah menggubal dan melaksanakan suatu pelan pengurusan bersepadu bagi pemuliharaan dan pembangunan mampan mana-mana sumber air;
- (b) hendaklah menasihati mana-mana pihak berkuasa awam, di dalam bidangkuasa mana sumber air atau bahagiannya terletak, mengenai pengurusan, pemuliharaan dan pembangunan sumber air itu;
- (c) hendaklah melaporkan setiap tahun kepada Pihak Berkuasa Negeri mengenai kedudukan pematuhan undang-undang dan peraturan dan pelan Persekutuan dan Negeri atas semua sumber air di dalam Negeri;
- (d) bolehlah menubuhkan jawatankuasa pengurusan kawasan tempatan dan kumpulan pemegang kepentingan untuk bekerjasama dengan Lembaga;
- (e) memberi nasihat kepada Lembaga dalam penandaan keluasan rizab sungai dan zon perlindungan yang lain; dan
- (f) boleh mengawalselia pembangunan mana-mana 4 empangan, takungan atau pengkapan pada mana-mana sumber air

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(2) Lembaga bolehlah, dengan kelulusan Pihak Berkuasa Negeri, membuat peraturan-peraturan di bawah seksyen 127 bagi semua yang disebutkan di atas termasuk pengawalan mana-mana aktiviti pengubahan sumber yang diusahakan oleh mana-mana orang atau pihak berkuasa awam.

The implementation of IRBM & ICM is in line with Section 46(1) and 127 of LUAS's Enactment 1999



NEGERI SELANGOR

Warta Kerajaan

DITEKSIKAN DENGAN KUASA

GOVERNMENT OF SELANGOR GAZETTE

PUBLISHED BY AUTHORITY

Jil 52 20hb Mei 1999 TAMBAHAN No. 1  
No. 10 ENAKMEN

Enakmen-enakmen yang berikut yang telah diuluskan oleh Dewan Undangan Negeri, Selangor, pada 9 April 1999, adalah disiarkan untuk maklumat umum:

No. Enakmen	Tajuk Ringkas	Muka
1	Enakmen: Perbekalan Air (Pindaan) 1999	1
2	Enakmen: Lembaga Urus Air Selangor 1999	17

The following Enactments passed by the Legislative Assembly, Selangor, on the 9 April 1999, are published for general information:

Enactment No	Short title	Page
1	Water Supply (Amendment) Enactment 1999	9
2	Selangor Waters Management Authority Enactment 1999	125



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## WATER RESOURCES STRATEGIES IN SELANGOR

1

- Water Resources Management in Selangor

2

- Implementation Of IRBM and ICM Plan

3

- River Management Policy

4

- Alternative Water Resources Management

5

- SWMA's Gazettement

6

- Strengthen Monitoring and Enforcement Mechanism



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## IRBM PLAN

**POLICY 1 : ENSURE SUFFICIENT  
WATER**

**POLICY 2 : ENSURE CLEAN WATER**

**POLICY 3 : PROTECT AGAINST  
FLOOD**

**POLICY 4 : CONSERVE THE  
FIREFLIES**



**SUNGAI SELANGOR**  
Basin Management Plan  
2007 - 2012







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## CURRENT STATUS OF IRBM IMPLEMENTATION IN SELANGOR

- Selangor River IRBM Plan (2007-2012) has been reviewed to be implemented from 2015-2020;
- Langat River IRBM Plan has been developed and being implemented; and
- Klang River IRBM Plan will be developed by the year 2016

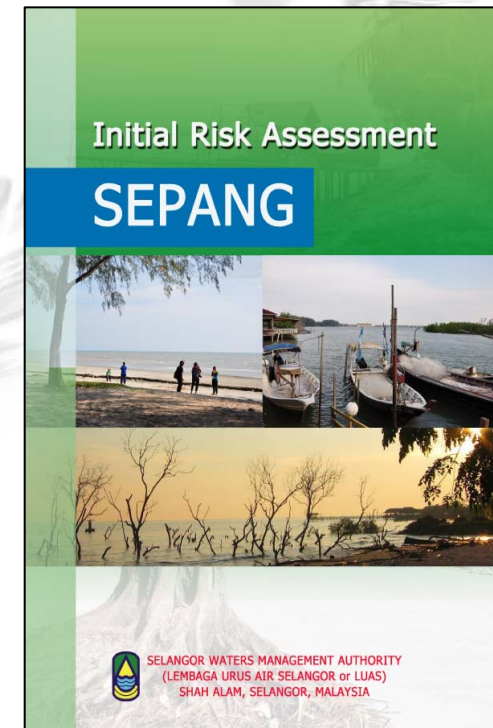
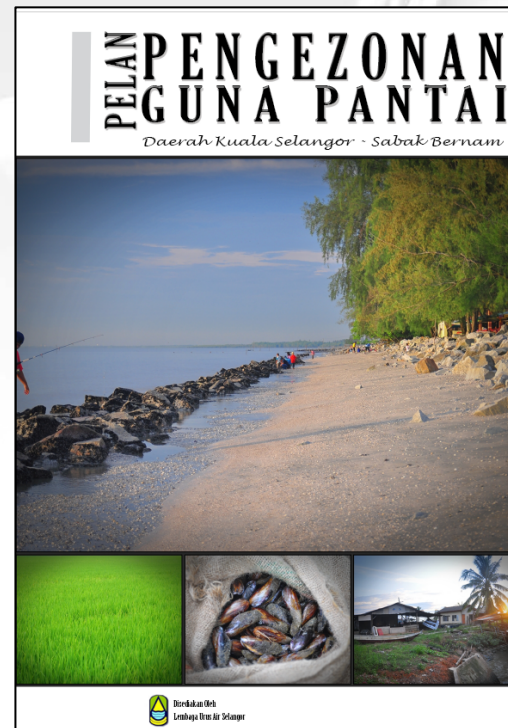
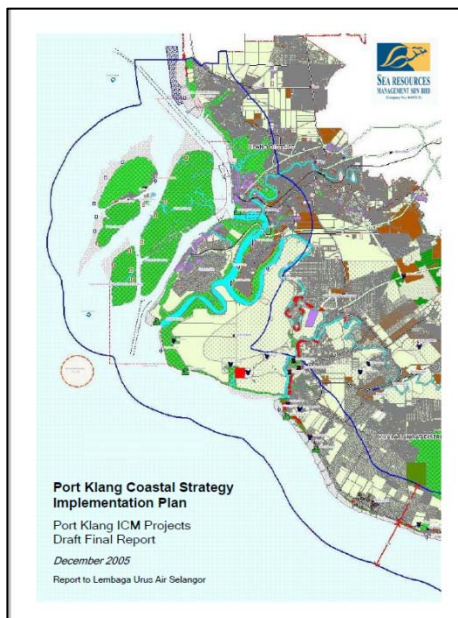
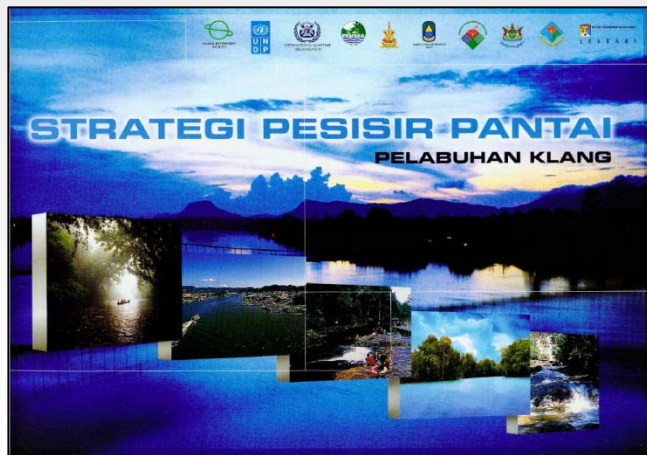


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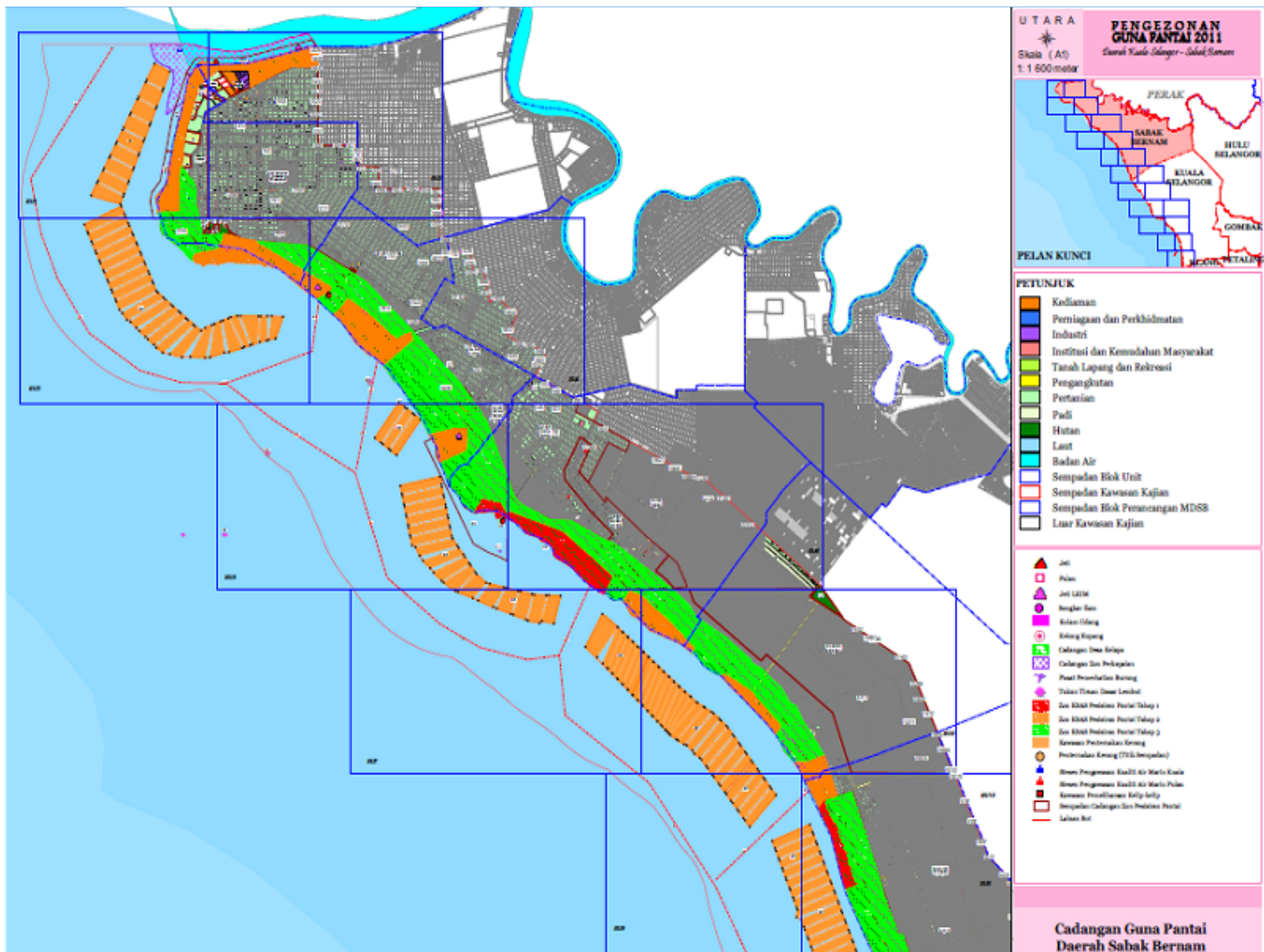
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## ICM PLAN

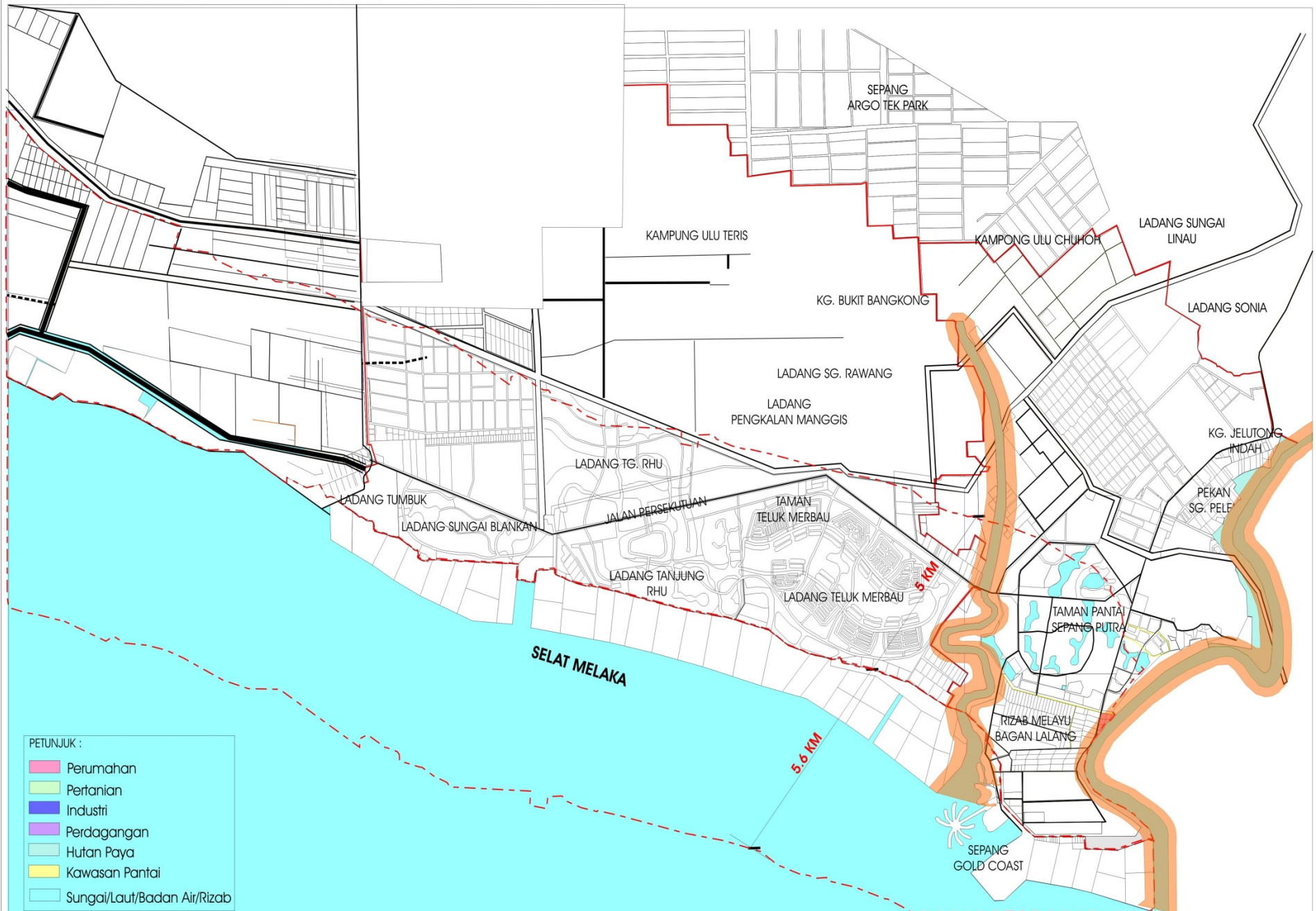


- ❖ State of Selangor is implementing an ICM program covering the entire coastline which consists of 5 districts with the length of 291km





## Flood Prone Area







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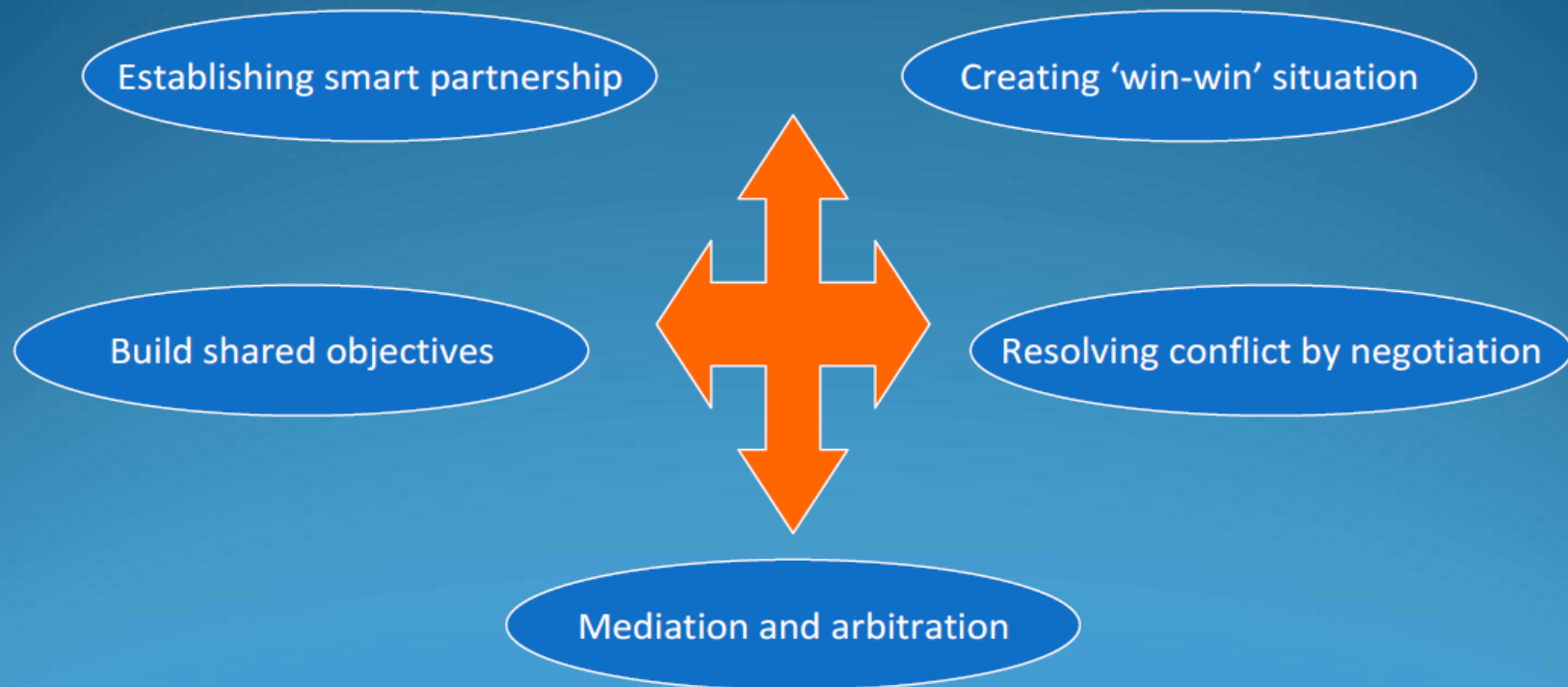
## LINKAGING AND HARMONIZING BETWEEN RIVER AND COASTAL MANAGEMENT

- Malaysian river basins and coastal zones are the most productive ecosystem in the country :
  - 1) houses majority of the population (human & natural activities)
  - 2) represents a unique environment – requires special attention in its planning, development and management
- IRBM and ICM had been treated as a separate entity previously.
- Unplanned and uncoordinated development of river basin and coastal zone can lead to the degradation of river and marine ecosystems health and this can be attributed to the management of the land and coastal zone as a whole.
- The IRBM and the ICM are essentially deal with the integrated management of river basin and coastal zone as a single interactive entity.
- Deals with the coordinated use and management of land and water resources and other natural resources and activities within the river basin and coastal zone, to optimize the use of these resources in a sustainable and productive manner.



## THE INTEGRATION AND HARMONIZATION:

- The principle of integration and harmonization involves :





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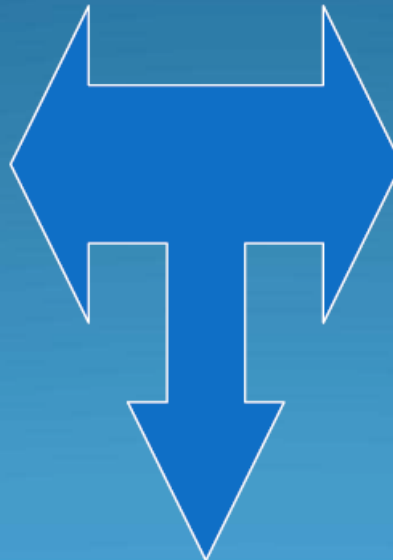
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## Example of linkaging and harmonizing between river and coastal in Selangor State:



**INLAND NAVIGATION  
FROM ESTUARIES UP  
TO 40 KM TO THE  
UPSTREAMS**



**JETTIES OPERATIONS  
IN LANGAT RIVER**

**THESE ACTIVITIES NEED AN INTEGRATION MANAGEMENT BETWEEN DIFFERENT  
GOVERNMENT AGENCIES INCLUDING SELANGOR WATERS MANAGEMENT AUTHORITY  
(SWMA)**





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## THE MECHANISM OF INTEGRATION BETWEEN IRBM & ICM IN SELANGOR





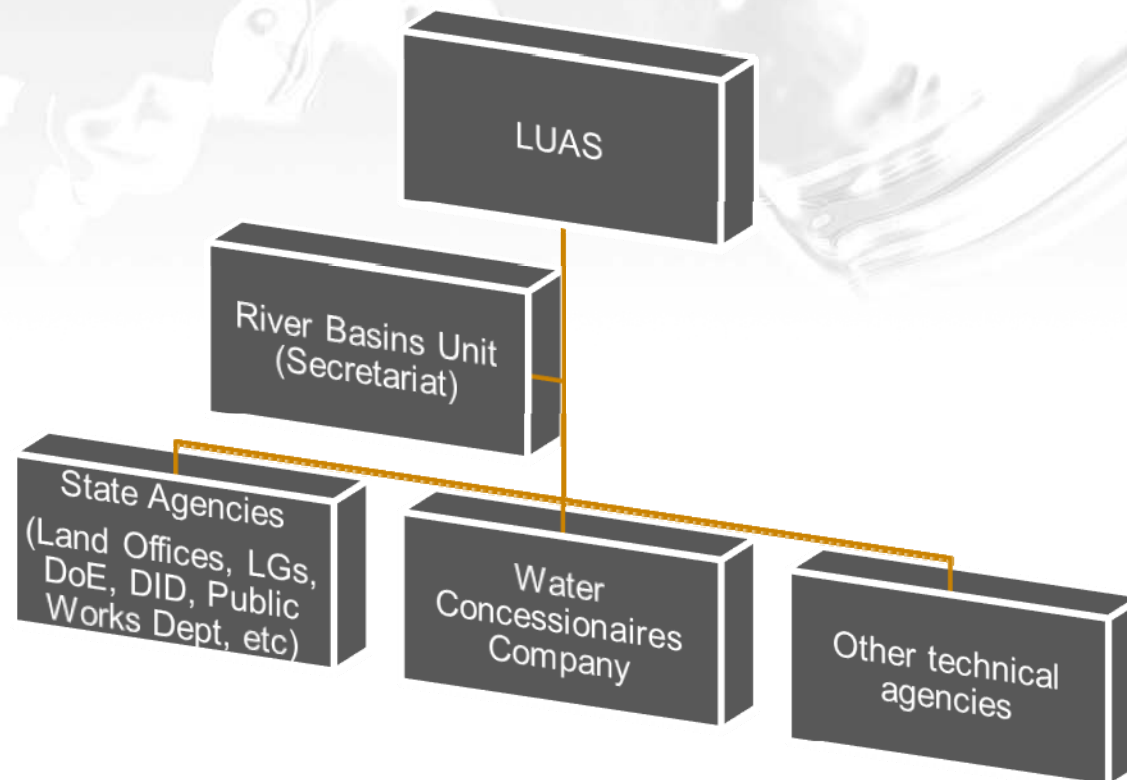


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## RIVER BASIN TASK FORCE



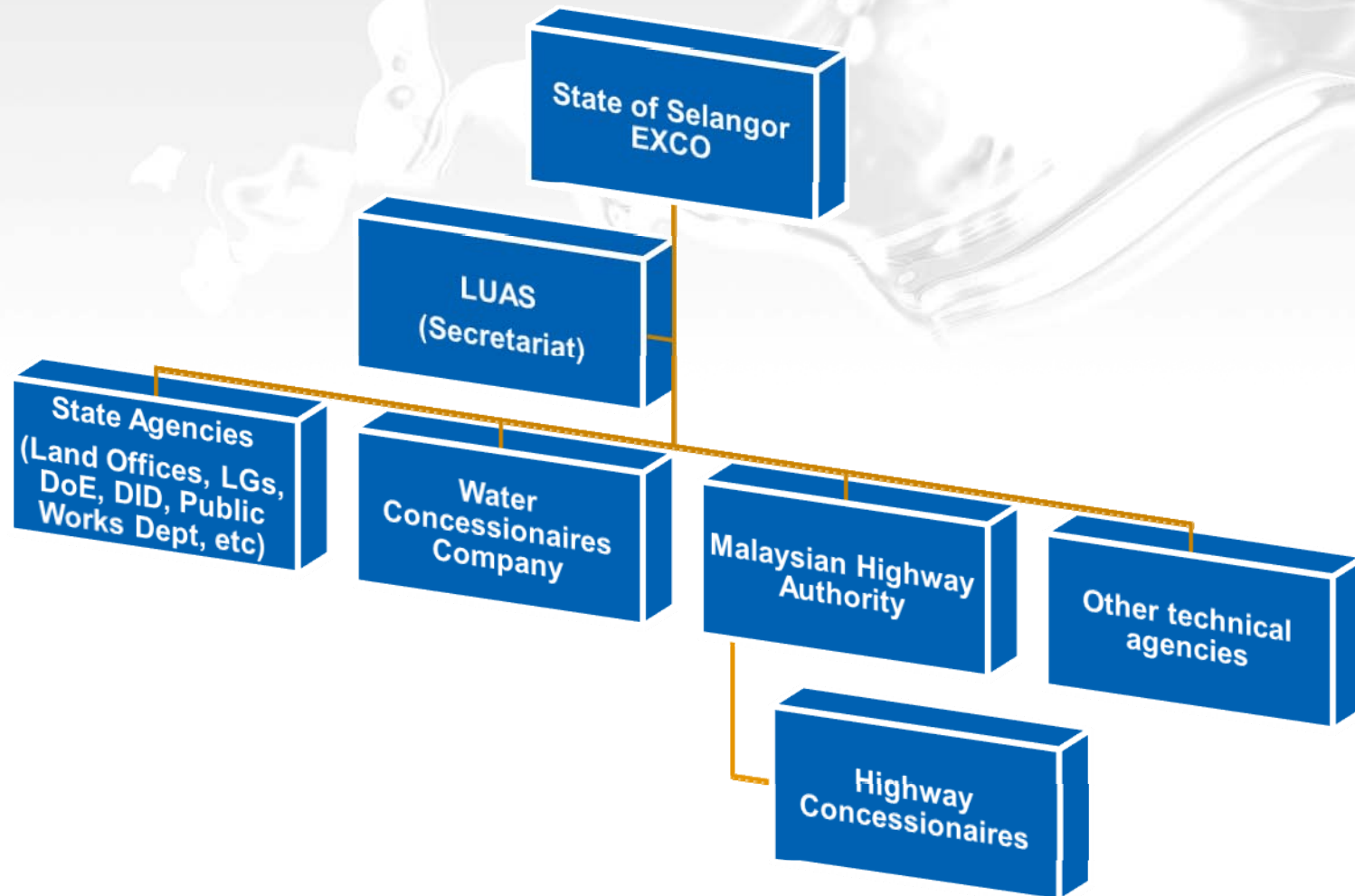


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## STATE OF SELANGOR POLLUTION CONTROL COMMITTEE



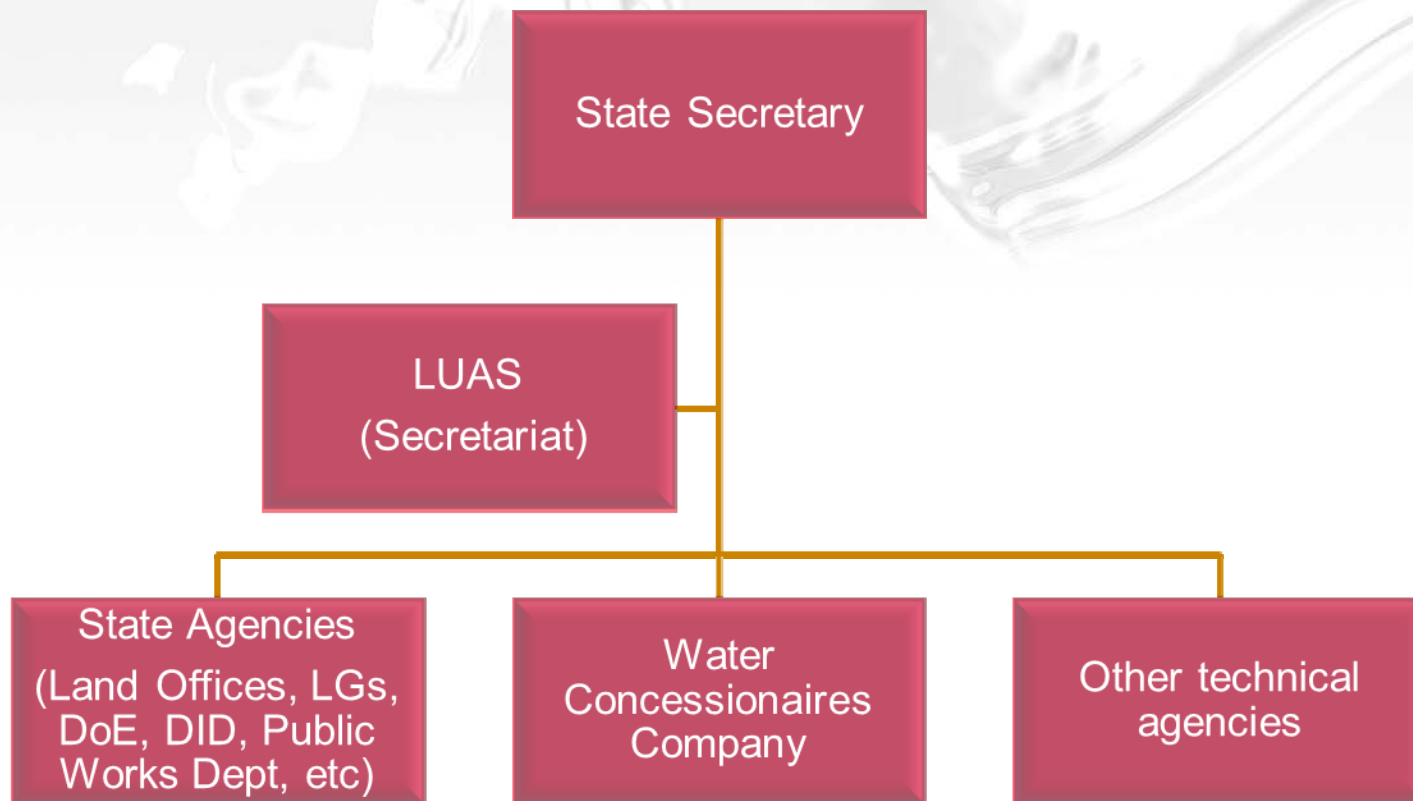


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## STATE OF SELANGOR RIVER BASINS & COASTAL AREA MANAGEMENT COMMITTEE





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## **THE BENEFITS OF INTEGRATION BETWEEN IRBM & ICM IN SELANGOR FOR THE STATE**

- ❖ Improve strong institutional leadership in terms of water resources management;
- ❖ Improve strategic partnership and stakeholders involvement;
- ❖ Integration with district planning;
- ❖ Binding agreements (LUAS's Enactment 1999); and
- ❖ Effective communication and sharing relevant information.



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# THE WAY FORWARD



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- ❖ State of Selangor will actively promoting the concept of IRBM and ICM to the other states in Malaysia;
- ❖ State of Kedah is currently implementing the IRBM for its water resources management and will develop ICM Plan for the entire coastline of the state; and
- ❖ LUAS will continuously promote and encourage the other LGs to be a member of PNLG which in line with the PNLG Strategic Action Plan and Dongying Declaration.





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THANK YOU

LADIES & GENTLEMEN