

# Maritime Cluster and Shipbuilding Development



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# I. SHIPBUILDING AT A GLANCE

## Global

- Most of ships today are built in South Korea, China or Japan, but it may still come as a surprise that these three countries alone account for more than three-quarters of ship on order. When the other Asian shipbuilding countries are added in to the equation the figure increases to 82%.
- Speculation has been rife in recent years about when China will overtake South Korea as the leading shipbuilding nation. By one measure at least – numbers of ship on order – it has already happened, but deadweight and price are the determining factors, South Korea shows no sign of relinquishing its commanding lead.
- The implementation of CSR (Common Structural Rules) for tankers and bulk carriers has increase the needed for new building and conversion of the ship.
- IMO meeting adopts accelerated single-hull tanker phase-out, new regulation on carriage of heavy fuel oil (into double-hull)



## I. SHIPBUILDING AT A GLANCE ...

### Domestic

- Indonesian shipbuilding industry has proven that it has global competitiveness. This is visible by the export report from US\$ 47,4 million in the year 2004, becoming US\$ 294,1 million in the year 2006 or increased 6,2 times more (620%) only within two years.
- Number of shipbuilder in Indonesia which is counted  $\pm$  250 companies with capacities attached around 400.000 DWT/year for new building and around 6.000.000 DWT/year for ship repair.
- The biggest shipbuilding production facility measure up to 150.000 DWT (Graving dock) is also utilized to docking repair.



## I. SHIPBUILDING AT A GLANCE ...

- By the implementation of Presidential Instruction No. 5 / 2005, the domestic demand for ships is increased as follows :

No	Type	Recent condition (No. of ships)	Total ship needed (Unit)
1.	General Cargo	1.388	800
2.	Container	107	80
3.	Bulk	46	30
4.	Barge	1.408	500
5.	Tug Boat	1.357	500
6.	Tanker	233	132
7.	Passenger	229	50
8.	Ro-Ro	60	50
	<b>TOTAL</b>	<b>4.828</b>	<b>2.142</b>

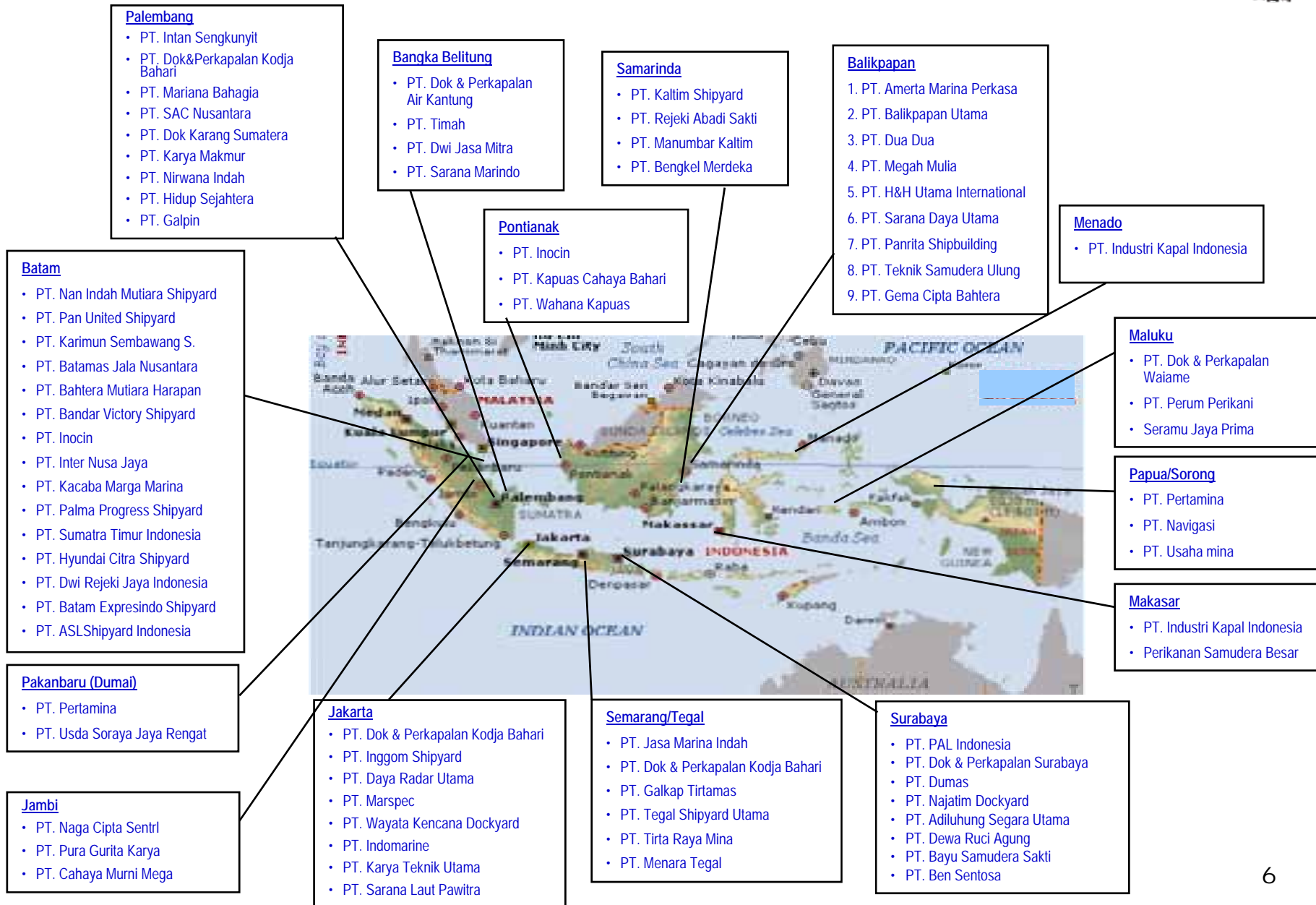
(Source: Ministry of Transportation)



## II. NATIONAL PRODUCTION CAPACITY

No	Class of facility (DWT)	Ship repair			New building		
		Number (unit)	Annual capacity / year		Number (unit)	Annual capacity / year	
			(GT)	(DWT)		(GT)	(DWT)
1	< 500	121	480.000	720.000	99	21.000	31.500
2	501 – 1.000	45	495.000	742.500	27	17.000	25.500
3	1.001 – 3.000	25	455.000	682.500	8	10.000	15.000
4	3.001 – 5.000	6	400.000	600.000	10	37.000	55.500
5	5.001 – 10.000	7	900.000	1.350.000	11	50.000	75.000
6	> 10.000	6	1.270.000	1.905.000	5	130.000	197.500
	<b>JUMLAH</b>	<b>210</b>	<b>4.000.000</b>	<b>6.000.000</b>	<b>160</b>	<b>265.000</b>	<b>400.000</b>

# III. MAJOR SHIPYARD INDUSTRY IN INDONESIA





## IV. TARGET

### **Mid Term (2007 – 2009)**

- Increasing of new building capacity and capability up to 50.000 DWT.
- Increasing of ship repair to reduce delivery time as well as docking days.

### **Long Term (2010 – 2025)**

- Establish new shipyard facility having capacity for new building (building berth/graving dock) and ship repair up to 300.000 DWT to fulfill domestic demand as well as overseas.
- Increasing national shipbuilding industry capability to build the various types and size i.e Korvet, Frigate, Cruise Ship, LPG CARRIER and other special ship.
- Increasing capacity and capability of domestic component industry in order to support domestic shipyard demand.
- Strengthening National Ship Design and Engineering Center (NaSDEC) in order to support design and engineering as well as research and development.

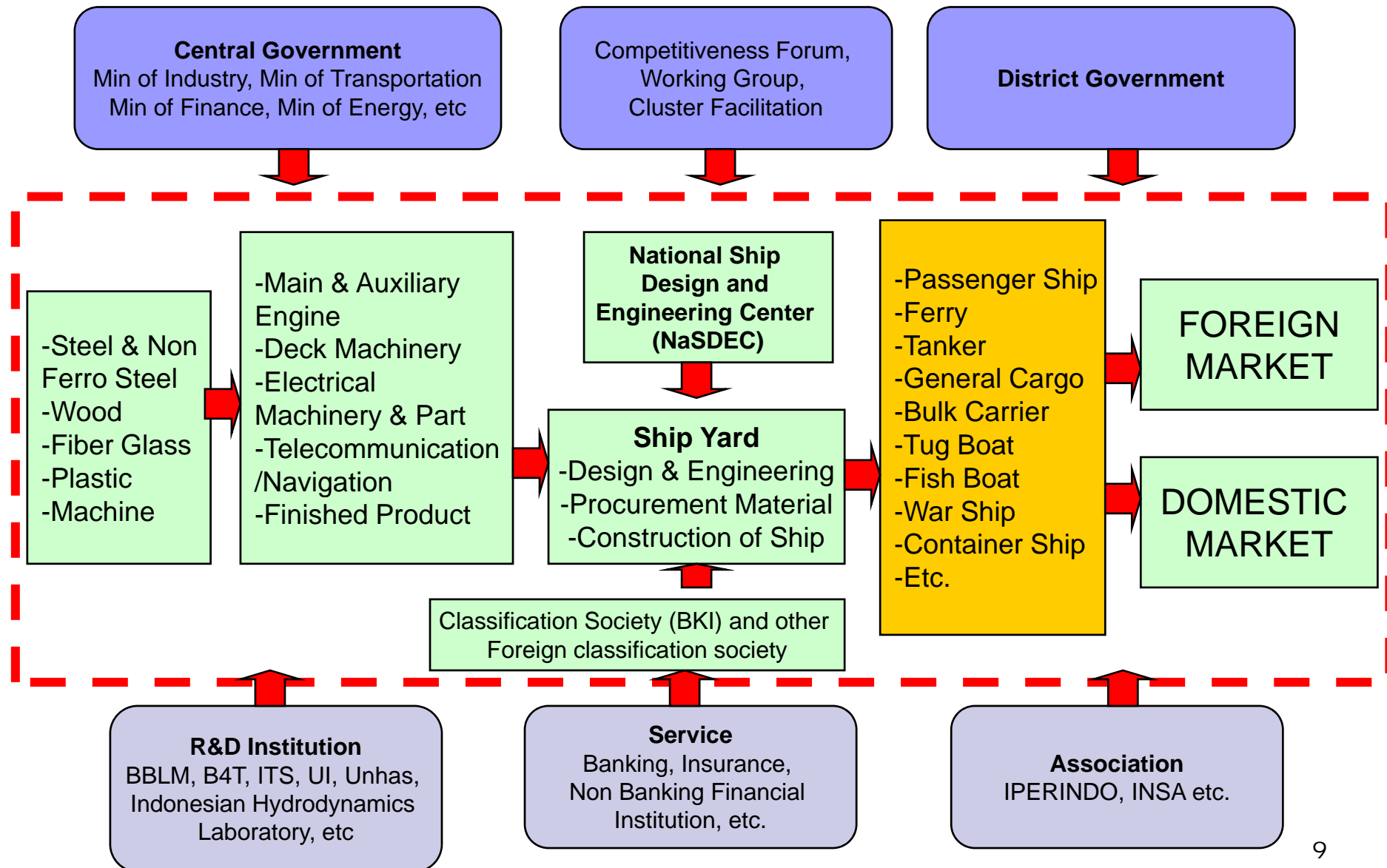


## V. MARITIME INDUSTRIAL CLUSTER OBSTACLES

- Relationship between core, supporting and related industry still limited to business relationship.
- Limited networking between core industry (Shipyard) with supporting industry (material & component suppliers) and related industry (user/marine, insurance, finance etc.).
- High dependency on imported component.



# Main, supporting and related industry of Maritime Industrial Cluster





## VI. STRATEGY AND POLICY

- Makes domestic market as base load for developing shipyard industry through shipbuilding industry revitalization and utilization empowerment program.
- Strengthening and developing maritime industrial cluster (Surabaya-KIKAS and Jakarta-KIKAJA).
- Strengthening Indonesia shipbuilding competitiveness through production facilities modernization and production management system to reduce delivery time.
- Strengthening ship design center (National Ship Design and Engineering Center/NaSDEC).
- Developing human resource in shipbuilding industry through establish technical training center (Welding center).
- Developing shipbuilding industrial special zone (Lamongan, Batam-Karimun, Kendal, Pontianak).
- Developing domestic supporting industry (material and component) by promoting potential domestic product to increase the use of local content.
- Boosting investment promotion program and friendly business climate to attract foreign investment.
- Developing shipyard financing program through local Bank and other Non Banking Financial Institution
- Developing ship standardization and component



**THANK YOU**