

Coastal & River

MANAGEMENT UNIT (MU)	ISSUE/IMPORTANCE	OBJECTIVE	ACTION/STRATEGY	RESPONSIBLE AGENCIES
MU12	Eroding Cat 2	<ul style="list-style-type: none"> • Ensure new developments are positioned at a safe distance from the shoreline to allow for natural shoreline movement and protect properties. • Allow flexibility in setback policies to respond to changing shoreline conditions. • Enhance the effectiveness of setbacks by combining them with natural shoreline protection strategies. • Ensure that setbacks remain effective by regularly monitoring shoreline changes and adapting management practices. • Minimize the impact of new developments on the shoreline and support natural processes. • Raise awareness about the importance of setbacks and involve stakeholders in shoreline management efforts. • Ensure compliance with setback requirements and protect the shoreline effectively 	<ul style="list-style-type: none"> • Develop Comprehensive Setback Guidelines, i.e., Conduct scientific assessments & develop flexible setback guidelines. • Incorporate Adaptive Setback Practices, i.e., Design setback areas with buffers & Implement zoning regulations. <ul style="list-style-type: none"> › Muddy Shoreline <ul style="list-style-type: none"> › With existing bunds; <i>Coastal setback follows the alignment of the bund.</i> › In already developed areas; <i>Setback is defined by the seaward edge of the development.</i> › In undeveloped mangrove areas: <i>Setback is established at the landward boundary of the mangroves.</i> › Sandy Shoreline <ul style="list-style-type: none"> › Erosion occurs at a slower rate. › In unprotected areas: <i>Setback can be reduced to 30 meters.</i> › Where roads or critical infrastructure exist: <i>Setback may be positioned seaward of existing structures.</i> 	JPS Melaka JPS Daerah
	<ul style="list-style-type: none"> • Setback 			

			<ul style="list-style-type: none"> › In areas with revetments: <i>Setback should align with the revetment line.</i> › Setback lines in this study have been adjusted to allow for existing infrastructures and predicted movement of shorelines. • Integrate Natural Erosion Control Measures, i.e., Restore and protect natural habitats & Plant native vegetation • Enhance Shoreline Monitoring and Management, i.e., Conduct periodic shoreline surveys & Adjust setback requirements • Promote Sustainable Development Practices, i.e., Encourage low-impact development techniques & Limit construction activities • Educate and Engage Stakeholders, i.e., Conduct outreach and education programs & Involve stakeholders in planning and decision-making • Implement and Enforce Regulations, i.e., Enforce setback regulations & Review and update regulations regularly • Setback determination shall be guided by the recommendations provided in the Decision Support System (DSS). 	
	<ul style="list-style-type: none"> • Coastal Bund (mangrove) <ul style="list-style-type: none"> › Insufficient information on the bund levels, for reaches that have coastal bunds. › Seawater overtopping the bunds during HAT and storm surge. 	<ul style="list-style-type: none"> • Periodically assess the elevation and stability of the bunds to ensure they are functioning as intended • To maintain a safe level and making sure that the bunds are in good condition. • Ensure the ongoing effectiveness and integrity of coastal bunds by regularly assessing their condition. 	<ul style="list-style-type: none"> • Frequent observation • Monthly monitoring of the bunds. • Bi annually bund level measurements • Carry out immediate improvement/repair on damaged and insufficient bund levels. • Highlight the main function of a coastal bund and its limitation • Width of mangrove cover less than 150m 	

	<ul style="list-style-type: none"> › Bund damage due to storm surge & human activity › Mangrove cover fronting the bund is important in preventing bunds from overtopping and damage from wave action. › Mangrove cover of less than 50m means that the bunds is under threat of overtopping protection works on the bund must be carried out. › Settlement of bund due to heavy vehicles. 	<ul style="list-style-type: none"> • Quickly address any issues with bunds to maintain their protective function and prevent flooding. • Educate stakeholders and the public about the role of coastal bunds and their limitations to promote effective use and maintenance. • Ensure that bunds are adequately elevated when mangrove cover is insufficient to provide effective natural flood protection. • Implement additional protective measures on bunds when mangrove cover is critically low to ensure continued effectiveness • Prevent damage to bunds caused by heavy vehicle loads to ensure their long-term stability and effectiveness. 	<p>means the bunds will have to be raised to prevent overtopping.</p> <ul style="list-style-type: none"> • Width of mangrove cover less than 50m means protection works must be constructed on the bunds. • Construction of roads on bunds should not be allowed as bund foundations are not capable of accepting heavy vehicles. 	
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Marine Habitats and Biodiversity

The proposed development management strategies for marine habitats and biodiversity at MU12 are as follow.

MANAGEMENT UNIT (MU) (LOCATION)	MANAGEMENT OBJECTIVES	MANAGEMENT STRATEGIES	ISSUE/IMPORTANCE/REASON	RESPECTIVE/ RESPONSIBLE AGENCIES
<ul style="list-style-type: none"> MU12 (Pernu, Pulau Besar, & Pulau Menatang) 	Mangroves <ul style="list-style-type: none"> To protect, conserve and rehabilitate the mangrove areas. 	<ul style="list-style-type: none"> Rehabilitation, restoration and replanting of suitable mangrove species. 	<ul style="list-style-type: none"> Degradation of mangrove areas due to coastal developments. 	<ul style="list-style-type: none"> Department of Forestry, Developers.
<ul style="list-style-type: none"> MU12 (Pernu) 	Mudflats <ul style="list-style-type: none"> To protect and conserve the mudflat areas. 	<ul style="list-style-type: none"> Protect mudflat areas due to its importance as mussel farming areas. 	<ul style="list-style-type: none"> Mudflat areas are important for mussel farming off Pernu. 	<ul style="list-style-type: none"> Department of Fisheries.
		<ul style="list-style-type: none"> Minimize coastal developments that affects mudflat areas. No land reclamation projects allowed from Telok Mas to Sg. Umbai. 	<ul style="list-style-type: none"> Coastal development such as reclamation can cause adverse impacts on mudflat areas. 	<ul style="list-style-type: none"> Department of Fisheries, Department of Environment, Department of Town and Planning, Developers.
<ul style="list-style-type: none"> MU12 (Pulau Menatang, Pulau Serimbun, and Pulau Besar) 	Coral Reef, Seagrass & Seaweed <ul style="list-style-type: none"> To protect, conserve and rehabilitate the coral reefs, seagrass and seaweed areas. 	<ul style="list-style-type: none"> Promote sustainable coastal development at coral reefs, seagrass and seaweed areas. No land reclamation projects allowed at or adjacent to coral reefs and seagrass/seaweed areas. 	<ul style="list-style-type: none"> Coastal development such as reclamation can cause adverse impacts on coral reefs, seagrass and seaweed areas. 	<ul style="list-style-type: none"> Melaka State Government, Department of Environment, Department of Town and Planning, Developers.
<ul style="list-style-type: none"> MU12 (Pulau Besar) 	Turtle Nesting Beach <ul style="list-style-type: none"> To conserve and preserve turtle landing sites. 	<ul style="list-style-type: none"> Expedite plans to gazette turtle Pulau Besar landing site as protected area. 	<ul style="list-style-type: none"> Turtle landing/nesting site in Pulau Besar 	<ul style="list-style-type: none"> Department of Fisheries, NGOs, Majlis Bandaraya Melaka
		<ul style="list-style-type: none"> Promote sustainable coastal development at turtle nesting beaches. 	<ul style="list-style-type: none"> Turtles are susceptible to various stressors from rapid coastal developments and tourism activities 	

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		<ul style="list-style-type: none"> • Provision of solid waste disposal infrastructure. • Increase the 'do not litter' signboards at turtle nesting beaches. • Promote turtle awareness and educational programmes in collaboration with relevant agencies. • No coastal reclamation projects allowed at or adjacent to turtle nesting beaches. 	i.e., noise disturbance, light spill, and potential solid waste disposal.	Bersejarah (MBMB), <ul style="list-style-type: none"> • MOTAC Melaka, • Department of Town and Planning, • Developers.

Fisheries and Aquaculture

The proposed development management strategies for fisheries and aquaculture at MU12 are as follow.

MANAGEMENT UNIT (MU) (LOCATION)	MANAGEMENT OBJECTIVES	MANAGEMENT STRATEGIES	ISSUE/IMPORTANCE/REASON	RESPECTIVE/ RESPONSIBLE AGENCIES
<ul style="list-style-type: none"> MU12 (Pernu and Umbai) 	Marine Capture Fisheries <ul style="list-style-type: none"> To ensure high standards of fish quality, enhanced food safety and nutritional value through provision of better fisheries infrastructures and facilities. 	<ul style="list-style-type: none"> Upgrade the fisheries infrastructures at Pernu and Umbai fish landing points. 	<ul style="list-style-type: none"> Lack of fisheries infrastructures at Pernu and Umbai fish landing points. 	<ul style="list-style-type: none"> Department of Fisheries. LKIM. Melaka State Government.
	<ul style="list-style-type: none"> To improve the navigation of fishing vessels at Pernu and Umbai. 	<ul style="list-style-type: none"> Undertake maintenance dredging at Sg. Umbai river mouth. 	<ul style="list-style-type: none"> Siltation issues prevented safe passage for fishing vessel during low tides. 	<ul style="list-style-type: none"> Department of Drainage and Irrigation.
	<ul style="list-style-type: none"> To ensure food security and safety. 	<ul style="list-style-type: none"> Rehabilitation, restoration and replanting of suitable mangrove species. Deployment of artificial reefs and Fish Aggregating Devices (FADs). Promote sustainable coastal development through enhancement of fisheries habitat (eco-engineering structures). No new coastal reclamation projects allowed Telok Mas to Sg. Umbai. 	<ul style="list-style-type: none"> Coastal development such as reclamation can cause adverse impacts on fisheries resources and fishermen income. 	<ul style="list-style-type: none"> Department of Forestry, Department of Fisheries, Developers.
<ul style="list-style-type: none"> MU12 (Pernu) 	<ul style="list-style-type: none"> Aquaculture To minimize the potential of water quality degradation to aquaculture activities. To promote sustainable aquaculture practices. 	<ul style="list-style-type: none"> Provision of water treatment facilities, sewage treatment plants (STPs) or other appropriate structures at the aquaculture farms to reduce discharge of untreated water directly into the river. Regular maintenance of treatment ponds. 	<ul style="list-style-type: none"> Degradation of water quality due to the untreated wastewater discharge from aquaculture activity. 	<ul style="list-style-type: none"> Department of Fisheries, Department of Environment.

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		<ul style="list-style-type: none"> Encourage culturists to obtain MyGAP certification. 		
	<ul style="list-style-type: none"> To ensure food security and safety 	<ul style="list-style-type: none"> Promote sustainable coastal development. 	<ul style="list-style-type: none"> Harmful Algae Blooms (HAB) can affect mussel farming activities undertaken along Pantai Pernu. 	<ul style="list-style-type: none"> Department of Fisheries, Department of Environment, Melaka State Government.
<ul style="list-style-type: none"> MU12 (Umbai and <i>Kelong</i>) 	Recreational Fisheries <ul style="list-style-type: none"> To improve recreational fisheries infrastructures and facilities. 	<ul style="list-style-type: none"> Upgrade the recreational fisheries infrastructures. Upgrade/Provision of septic tanks/toilets. 	<ul style="list-style-type: none"> Limited recreational fisheries infrastructures and facilities. 	<ul style="list-style-type: none"> Melaka State Government MOTAC Melaka Majlis Bandaraya Melaka Bersejarah (MBMB).

Water Quality

MANAGEMENT UNIT (MU) (LOCATION)	MANAGEMENT OBJECTIVES	MANAGEMENT STRATEGIES	ISSUE/IMPORTANCE/REASON	RESPECTIVE \RESPONSIBLE AGENCIES
MU12	<p>Waste Control</p> <ul style="list-style-type: none"> • Solid waste and Scheduled Waste Control <p>Erosion and Sediment Control</p> <ul style="list-style-type: none"> • Control the sedimentation <p>Sewage Discharge</p> <ul style="list-style-type: none"> • Control of sewage discharge 	<ul style="list-style-type: none"> • New activities that fall under the Environmental Quality (Prescribed Activities) (Environmental Impact Assessment) Order 2015 must submit the EIA report to the Department of Environment for approval. • New activities that do not fall under the Environmental Quality (Prescribed Activities) (Environmental Impact Assessment) Order 2015 shall submit their development proposal to the Local Authority and conditions on discharge should be imposed on the operators. • Provision of Erosion and Sediment Control (ESCP) for land clearing activities • Submission of the ESCP plan to the Department of Irrigation and Drainage (DID) for approval prior to start of land clearing and earthwork activities • Provision of septic tanks in remote areas • Upgrading of existing sanitary facilities • Compliance to Malaysian Marine Water Quality Standard • Compliance to Standard Kebangsaan Kualiti Air Rekreasi Semulajadi dan Garispanduan bagi Pemantauan Air Rekreasi Semulajadi • Compliance with Environmental Quality (Sewage) Regulations 2009 • Environmental Quality (Scheduled Waste) Regulations 2005 	<ul style="list-style-type: none"> • Pulau Besar is a key tourism site in MU12, identified by the state government. • The island is historically significant and attracts many tourists each year. • Nearby is the Melaka Marine Park, which includes three islands: Pulau Undan, Pulau Nangka, and Pulau Dodol. • All these islands have an Excellent water quality index 	<ul style="list-style-type: none"> • Department of Environment • Local Council and Authorities • Indah Water Konsortium (IWK) • National Water Services Commission (Suruhanjaya Perkhidmatan Air Negara, SPAN)

Land Use

MANAGEMENT UNIT (MU) (LOCATION)	MANAGEMENT OBJECTIVES	MANAGEMENT STRATEGIES	ISSUE/IMPORTANCE/REASON	RESPECTIVE/ RESPONSIBLE AGENCIES
Human Settlement				
MU12	<ul style="list-style-type: none"> To manage and control any land use changes along the coast 	<ul style="list-style-type: none"> Define coastal zoning categories (including residential, commercial, conservation, and mixed-use areas). Establish zoning regulations Control the allowable density type for any development along the coast. Limit land conversion and approval for TOL permit 	<ul style="list-style-type: none"> Increase of population along the coastline may impact the existing infrastructure (including road, utilities, and traffic) 	<ul style="list-style-type: none"> MBMB PTD Melaka Tengah PTG Melaka JKR JPS IWK SAMB TNB
	<ul style="list-style-type: none"> To prevent and control erosion. To ensure compliance with environmental regulations regarding hydraulic impact assessments and erosion control. 	<ul style="list-style-type: none"> Construct proper erosion control structures such as retaining walls and sediment control barriers. Conduct regular hydrological studies to identify high-risk erosion zones. Enforce guidelines for land development near water bodies to minimize erosion risks. 	<ul style="list-style-type: none"> Impact from the hydraulic can cause erosion to the settlement 	<ul style="list-style-type: none"> JPS
	<ul style="list-style-type: none"> To reduce environmental impact caused by the construction activities on the site 	<ul style="list-style-type: none"> Prepare an Environmental Impact Assessment (EIA) for any major projects along the coast (based on the DOE requirements). Manage thorough evaluations of EIA before approving construction projects. Adhere to the Environmental Managing Plan (EMP) recommendations as part of the mitigation major. Conduct periodical inspection during and after construction. 	<ul style="list-style-type: none"> Any changes to land use due to construction may affect the environment. 	<ul style="list-style-type: none"> MBMB DOE

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	<ul style="list-style-type: none"> To manage the land use due to UNESCO's heritage status and the high number of heritage sites 	<ul style="list-style-type: none"> Adhere to UNESCO and all JWN conservation standards. as stipulated by UNESCO in order to ensure the integrity and authenticity of this historical city 	<ul style="list-style-type: none"> Conflict of interest between the need of adhering to the conservation principles against the need of having land reclamation along the coast especially within the designated UNESCO World Heritage Site Core and Buffer Zone. 	<ul style="list-style-type: none"> UNESCO JWN PERZIM MBMB PTD Melaka Tengah PTG Melaka SM-WEZ (Straits Melaka Waterfront Economic Zone) DOE
	<ul style="list-style-type: none"> To monitor coastal development 	<ul style="list-style-type: none"> Conduct periodical inspection. Regulate the law related to any developments along the coast. Implement sustainable zoning regulations to prevent excessive land reclamation. 	<ul style="list-style-type: none"> Coastal development within Melaka coastline possesses adverse impacts towards adjacent mudflat areas. 	<ul style="list-style-type: none"> MBMB PTD Melaka Tengah PTG Melaka
Forest and Mangroves				
MU12	<ul style="list-style-type: none"> To regulate human activities in order to minimize environmental impact 	<ul style="list-style-type: none"> Establish guidelines for tourism, aquaculture, and infrastructure development. Enforce regulations to control pollution, illegal logging, and encroachment. 	<ul style="list-style-type: none"> Existence of the human activities within the mangrove forest, and requires proper management 	<ul style="list-style-type: none"> FDPM MBMB

Recreational & Tourism

MANAGEMENT UNIT (MU) (LOCATION)	MANAGEMENT OBJECTIVES	MANAGEMENT STRATEGIES	ISSUE/IMPORTANCE/REASON	RESPECTIVE/ RESPONSIBLE AGENCIES
Activities				
MU12	<ul style="list-style-type: none"> To manage and control all the business activities to be legal in operations and follow the Standard Operating Procedures 	<ul style="list-style-type: none"> Local authorities need to carry out enforcement operations on illegal business operations. 	<ul style="list-style-type: none"> Licensing issues related to tourism involving buildings, sites and land use. 	<ul style="list-style-type: none"> MBMB
	<ul style="list-style-type: none"> To implement zoning to separate different activities and prevent accidents. 	<ul style="list-style-type: none"> Provide a gazette area for the water-sport activities such as windsurfing, kayaking, banana-boat rides, and scuba diving lessons. Establish clear safety guidelines and enforce regulations for all water sports. 	<ul style="list-style-type: none"> There is no specific area that have been dedicated for water-sport activities. 	<ul style="list-style-type: none"> MBMB
Attractions				
MU12	<ul style="list-style-type: none"> To preserve the scenic beauty and environmental quality of tourist areas. 	<ul style="list-style-type: none"> Implement sustainable practices and stricter environmental regulations to reduce pollution and maintain cleanliness in key tourist zones Encourage the development of hotels and F&B establishments beyond the Core Zone to promote balanced tourism distribution and alleviate congestion Implement sustainable practices and stricter environmental regulations to reduce pollution and maintain cleanliness in key tourist zones Develop and expand accessible beachfront public spaces and parks to enhance recreational opportunities and attract visitors 	<ul style="list-style-type: none"> Inappropriate condition of stalls at several beaches may have result to poor cleanliness and disrupt the scenic view. In some cases, there are huge waste collector provided at the beach which destroy the relaxing view of beach. Public toilets beaches that are unsupervised have a poor hygiene and not well ventilated. 	<ul style="list-style-type: none"> MOTAC Tourism Malaysia MBMB

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Accessibilities				
MU12	<ul style="list-style-type: none"> To ensure sustainable tourism management by regulating visitor access by conducting the Limit of Acceptable Change (LAC) 	<ul style="list-style-type: none"> Local authorities need to be concerned about controlling and monitoring the entry and activities carried out by the visitors. 	<ul style="list-style-type: none"> Uncontrol entry of tourists to Pulau Besar 	<ul style="list-style-type: none"> MOTAC Tourism Malaysia MBMB
	<ul style="list-style-type: none"> To formalize and designate trails for vehicular transport. 	<ul style="list-style-type: none"> Create a transit- friendly beaches of public transportation. Formalize and designate trails for vehicular transport. Improve transportation links, signage, and infrastructure to enhance accessibility to popular <i>ikan bakar</i> spots, promoting local cuisine and culture 	<ul style="list-style-type: none"> Most of the beaches in Melaka have narrow road or do not have proper road for vehicle access to the beach at all. Limited access to <i>ikan bakar</i> dining spots 	<ul style="list-style-type: none"> MOTAC Tourism Malaysia MBMB
Amenities				
MU12	<ul style="list-style-type: none"> To provide an adequate number of facilities and amenities to tourist usage 	<ul style="list-style-type: none"> Upgrade utilities and regular maintenance amenities at tourist beaches to improve convenience and comfort for visitors Provide an effective signage that is clearly marked, simple and easy to find. Cater proper walkway accessibility along the shoreline and proper paved parking space for visitors. 	<ul style="list-style-type: none"> Only few well-planned and upgraded beach provided facilities for the disabled. Only some parts of the beach areas are equipped with information resources for the swimmers and beachgoers. Providing it is crucial to avoid any emergencies cases and contact references. The provision of basic amenities has no uniformity in terms of design structure that can clearly outstands Melaka beaches. There are some beaches do not have a proper paved area for parking 	<ul style="list-style-type: none"> MOTAC Tourism Malaysia MBMB

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			spaces; thus, it is vital in order to preserve the white sandy beach and nearby living creatures.	
	<ul style="list-style-type: none"> To enhance safety measures to ensure a secure and enjoyable visitor experience 	<ul style="list-style-type: none"> Utilize surveillance cameras, panic buttons, and mobile alerts to enhance security. 	<ul style="list-style-type: none"> The existence of wild crocodile in certain beaches fears the public 	<ul style="list-style-type: none"> MOTAC Tourism Malaysia MBMB
Accommodations				
MU12	<ul style="list-style-type: none"> To provide sufficient and accommodation with add-on value for the best visitor experiences. 	<ul style="list-style-type: none"> Introduction of high-end accommodation such as hotels and resorts along the Melaka coastline as to upgrade the facilities and ambience for the tourists' experience with Add-on Value 	<ul style="list-style-type: none"> There have been complaints about the inadequate accommodation by the beach which is not as good to be the main attraction for visit purpose there. 	<ul style="list-style-type: none"> MOTAC Tourism Malaysia MBMB

Archaeological & Historical

MANAGEMENT UNIT (MU) (LOCATION)	MANAGEMENT OBJECTIVES	MANAGEMENT STRATEGIES	ISSUE/IMPORTANCE/REASON	RESPECTIVE/ RESPONSIBLE AGENCIES
MU12	<ul style="list-style-type: none"> To manage the land use due to UNESCO's heritage status and the high number of heritage sites 	<ul style="list-style-type: none"> Adhere to UNESCO and all JWN conservation standards. as stipulated by UNESCO in order to ensure the integrity and authenticity of this historical city 	<ul style="list-style-type: none"> Conflict of interest between the need of adhering to the conservation principles against the need of having land reclamation along the coast especially within the designated UNESCO World Heritage Site Core and Buffer Zone. 	<ul style="list-style-type: none"> UNESCO JWN PERZIM MBMB MPAG PTD Melaka Tengah PTD Alor Gajah PTG Melaka SM-WEZ (Straits Melaka Waterfront Economic Zone) DOE
	<ul style="list-style-type: none"> To protect, conserve the historical sites To manage the uses of the site to the public to promote the potential of the site as an economic catalyst 	<ul style="list-style-type: none"> Gazettement of the potential site as one the archaeological site under JWN list. 	<ul style="list-style-type: none"> Gazettement of the archaeological site 	<ul style="list-style-type: none"> UNESCO JWN PERZIM MBMB PTD Melaka Tengah PTG Melaka SM-WEZ (Straits Melaka Waterfront Economic Zone) DOE
		<ul style="list-style-type: none"> Prohibit land use conversion within this archaeological area to protect the site. 	<ul style="list-style-type: none"> Potential intervention of human activities within the 	<ul style="list-style-type: none"> UNESCO JWN

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			archaeological site	<ul style="list-style-type: none"> • PERZIM • MBMB • PTD Melaka Tengah • PTG Melaka • SM-WEZ (Straits Melaka Waterfront Economic Zone) • DOE
		<ul style="list-style-type: none"> • Registered these areas of historical importance as • historic areas under JWN. • Implement Standard Operating Procedures (SOPs) regarding underwater archaeology within the ZYD and outside ZYD • Implement Standard Operating Procedures (SOPs) regarding development involve underground activities • Encourage public and local people to learn the history and its importance to raise awareness of the importance of the area. • Promote the historical sites as one of the places for the purpose of learning about history. 	<ul style="list-style-type: none"> • Gazettement of the historical site by JWN • Protection of Sg Melaka river mouth vista (the "cone") • Protection of cultural heritage on land and underwater • High interest amongst the public on historical sites 	<ul style="list-style-type: none"> • UNESCO • JWN • PERZIM • MBMB • PTD Melaka Tengah • PTG Melaka • SM-WEZ (Straits Melaka Waterfront Economic Zone) • DOE