

10 Proposed Pillar Strategies to Transform Water Sector in Malaysia

20 June 2019

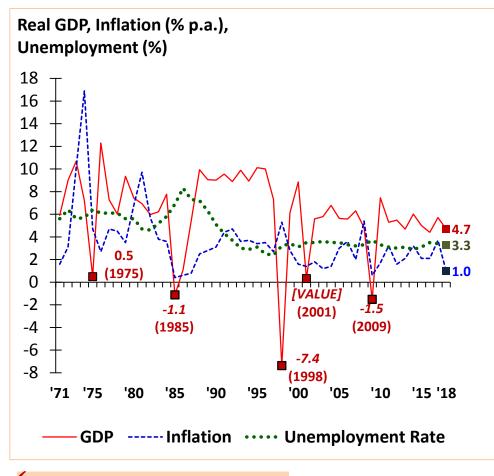
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Content

- 1. Economic vs socioeconomic overview of Malaysia
- 2. Happiness Level and Megatrends
- 3. Rancangan Malaysia Ke-12
- 4. 10 Pillar Strategies for Water Sector Transformation

At a glance : Malaysia recorded rapid economic growth since the 1970s



Malaysia, 1971-2018

- Malaysia recorded 6.1% in spite of facing 5 economic crises since 1970
- Malaysia has been able to rebound quickly after each crisis due to its economic resilience

GDP, 1971-2018 (% p.a.)

- World: 3.1
- Advance: 2.6
- Developing: 2.9
- Emerging market: 4.8

Source : IHS

9/ 10 0	2017				2018				'19
% p.a.	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
CDD	5.5	5.6	6.1	5.7	5.3	4.5	4.4	4.7	4.5
GDP	5.7			4.7					

At macro level, economic fundamentals remained intact ...

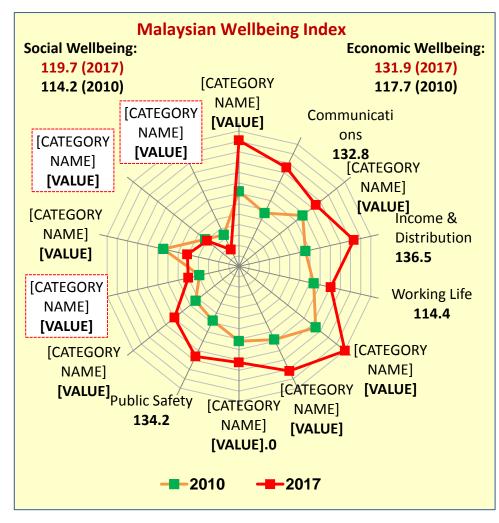
- ✓ GDP growth for 1971-2018 was among the highest in the world
- Low and stable inflation rate, full employment since 1992
- Absolute poverty almost eradicated at 0.4% of households in 2016
- Still one of the top destinations for FDI
- Considered as a competitive nation : 25th ranking out of 140 nations in the Global Competitiveness Report, 2018

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... but social wellbeing is lagging behind economic wellbeing

Deteriorating social wellbeing, particularly for family institution, health and environment



Family

 Aggravating factors include increased divorce rates, domestic violence and juvenile crimes, aggravated by increasing household debt level

• Health

- Improved life expectancy, declining maternal mortality rate and stagnating noncommunicable disease cases
- But affected by increased infant mortality rate and unhealthy modern lifestyle brought by stress, poor eating habits, smoking and physical inactivity

Environment

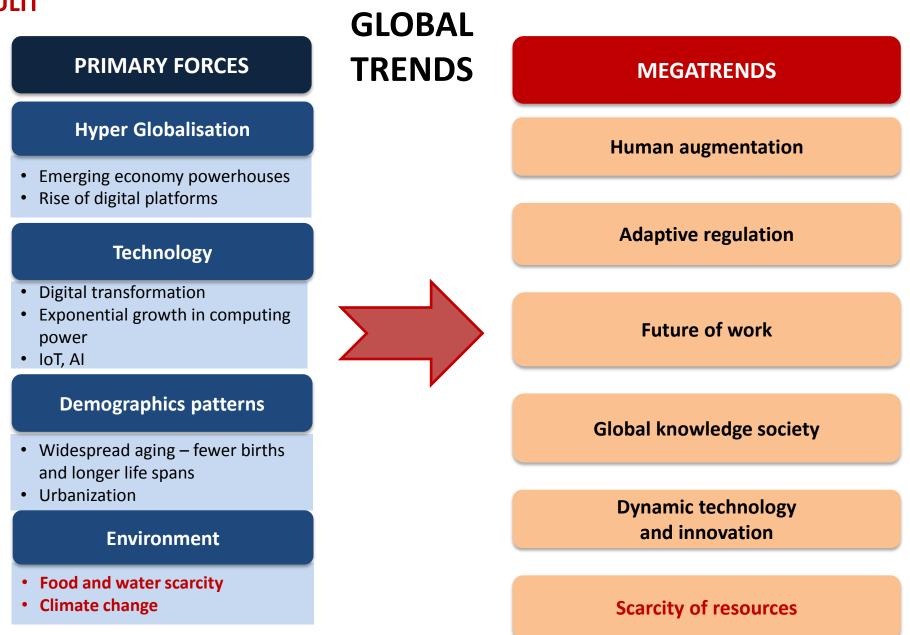
 Deteriorated mainly due to fall in air pollution index, water quality index, while quantity of scheduled waste generated increased

Wellbeing can now be measured through level of happiness of the citizens...

10 HAPPIEST COUNTRIES IN THE WORLD



Source: World Happiness Report 2019, United Nations Sustainable Development Solutions Network



Source: EY (2018), Roland Berger (2017) and Bernard Marr (2017)

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SULIT MEGA TRENDS IN THE HORIZON

Major forces shaping the future

Globalisation



World economic centre of gravity continues to shift towards Asia - Asia Pacific share of global exports expected to NEARLY DOUBLE to 46% in 2050

Global GDP growth projected at average 2.6% annually from 2019-2050



RISING Public Debt By 2050, population aging will drive up health & pension spending If current trends continue, global levels of net

public debt are set to reach staggering

Economic Power Shift, Rise of East and South

Technology



Half the world population will have access to the internet by 2030



Cloud Computing

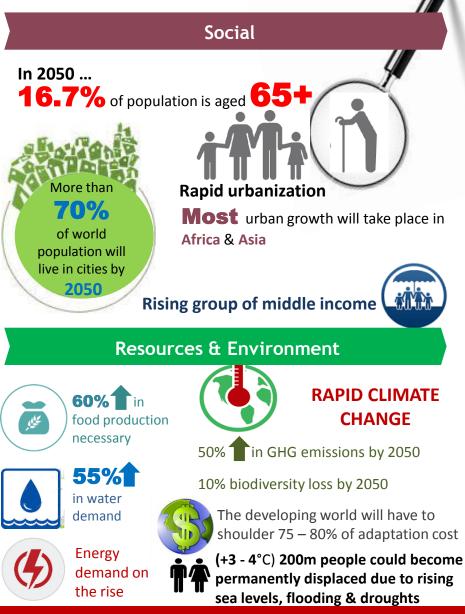


Advance Genomics





New future for manufacturing / Advance Robotics



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SULIT IN THE HORIZON Major forces taking shape in the future DOMESTIC trends

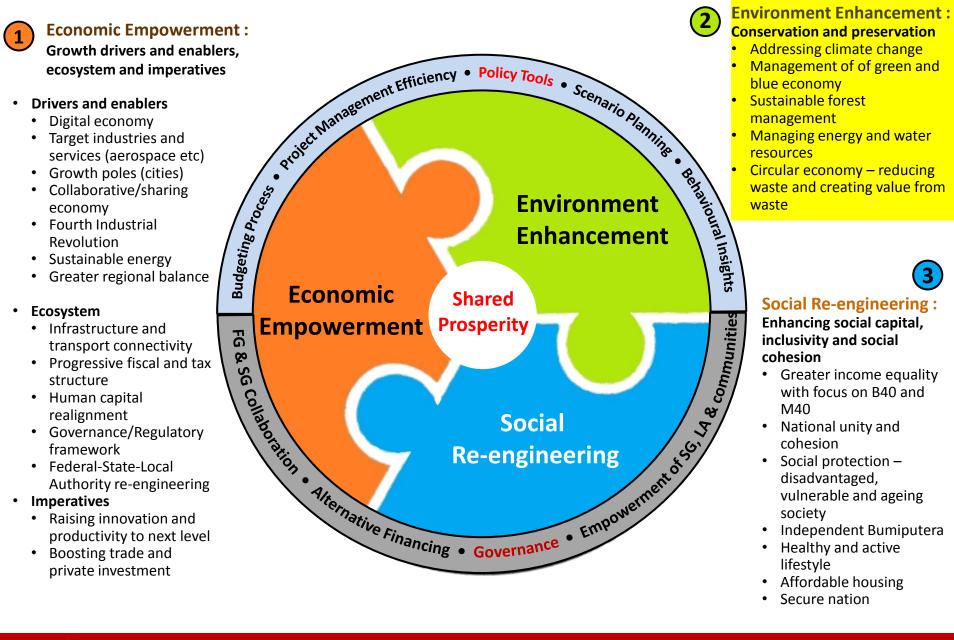
Globalisation Social 2050 **GDP** will grow from **Urbanisation will grow Population will** RM1.3 trillion to from 71% in 2010 to 8.5x increase to 45 RM11 trillion in 2050 85% in 2040 million in 2050 & 2018 **Household Income** Ratio of elderly over 65 will grow to Aging population RM47,000 by 2050 Labour 11.4% 9.3% by **2021** productivity 6.8% 5.8% increase to Potential revenue: RM192,000 2040 2020: RM9.5 bil 2015 2020 2030 by 2050 2040: RM80 bil The rise of refugees/migrants **Resources and Environment** Technology Automated economy: heavy on 2030: GHG emission technology, light on labor 85 mil tonne WARNING 2016: New types of jobs emerge **Challenge:** Decoupling the growth of 68 mil tonne economy from GHG emissions **Demand for specialised skills** As Economy grows: CHALLENGES Natural resources AHEAD **Food Security** New type of society consumed challenges Waste produced

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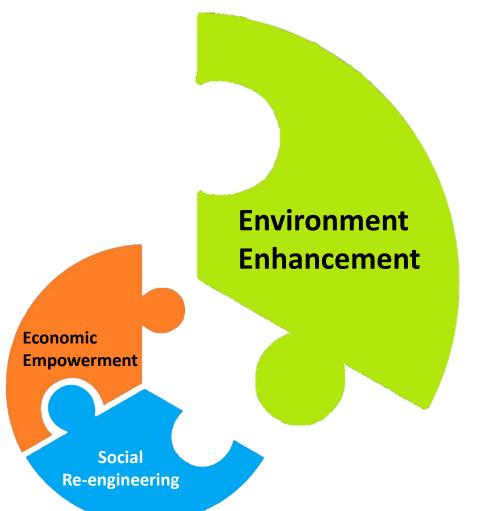
SULIT Twelfth Malaysia Plan, 2021-2025 : Development Dimensions



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Operationalising Post-2020 Plan : Twelfth Malaysia Plan, 2021-2025



Environment Enhancement

- 1. Climate change mitigation and adaptation
- 2. Carbon Tax
- 3. Sustainable Consumption & Production
- 4. Disaster risk management
- 5. Disaster risk insurance scheme
- 6. Green technology
- 7. Green economy indicators
- 8. Biodiversity conservation
- 9. Renewable energy
- 10. Energy efficiency
- 11. Integrated water resource management

- 12. Marine litter
- 13. Valuing ecosystem services
- 14. Waste as commodity

12MP

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Feedback from stakeholders are solicited through **Inter-Agency Planning Groups**

To prepare for the Twelfth Malaysia Plan (2021-2025), MEA will establish

- **13 Inter-Agency Planning Groups (IAPGs)**
- 46 Technical Working Groups (TWGs)
- Minimum 180 Focus Groups (FGs)

IAPGs

- Public sector reforms (BKE) 1.
- Inclusivity youth, etc (BEQT, BPS) 2.
- Wellbeing & societal values (BPS) 3.
- Regional balance (BPW, BPSKA) 4.
- Human capital (BPMI) 5.
- Environment & natural resources 6. (BEASSA, BINFRA)
- Sustainable energy (BTE) 7.
- 8. Agriculture (BTANI)
- Manufacturing, science and 9. technology, innovation and SMEs (BIPST)
- 10. Services sector (BIP)
- 11. Digital economy (BKE)
- 12. Transport and logistics (BINFRA, BIP)
- 13. Macroeconomics (BEM)

Tasks

- Review progress of past policies and programmes
- Identify current issues and future challenges
- Draft new policies, strategies and programmes to achieve identified targets and outcome
- Draft strategy

papers

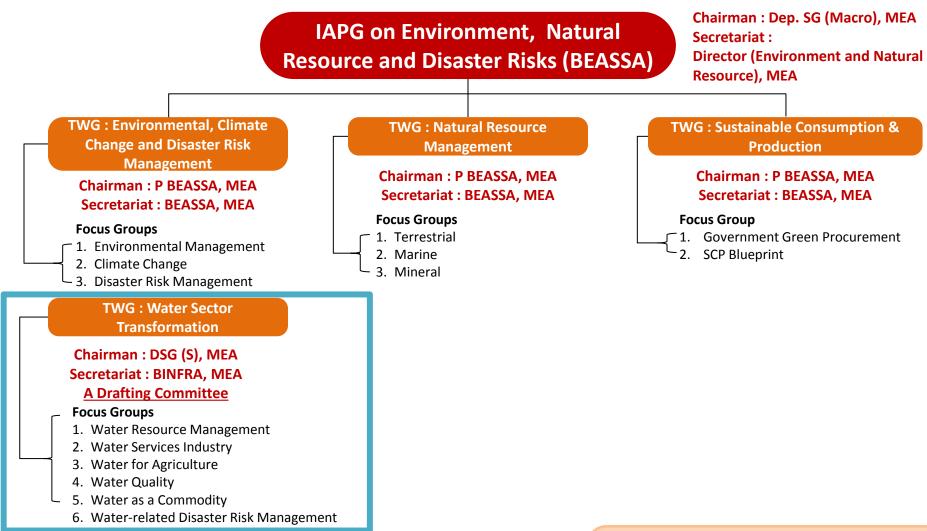
Output

		Strategy Papers
	1.	Embedding Behavioral Insight in Designing Policy (BKE)
	2.	Reforming State-owned Enterprise Management (BPKP)
	3.	Reforming Public Private Partnership Towards Reducing Government
		Roles in Businesses (BPSKA)
	4.	Ensuring Sustainability of B40 Household Income (BEQT)
	5.	Upholding Bumiputera Community Towards a Resilient, Progressive
		and Bold Society (BEQT)
	6.	Invigorating Healthcare Towards Progressive Nation (BPS)
	7.	Towards 2030 : Creating Solutions for the Ageing Population in
		Malaysia (BPS)
	8.	Strengthening National Unity (BPS)
	9.	Ensuring a Safe, Secure and Peaceful Nation (BKKA)
	10.	Progressing Towards Sustainable Cities (BPW)
	11.	Transforming Rural Areas to Uplift Wellbeing of Rural Communities
ç	4.2	(BPW)
	12.	Strengthening Coordination and Cooperation to Support Regional
	12	Development (BPW)
	13.	Strengthening Technical and Vocational Education and Training
	14.	(TVET) to Meet Industry Demand (BPMI) Inclusive Labour Market for Prosperous Nation (BPMI)
	14.	Revitalising Education System (BPMI)
	16.	Reinvigorating Higher Education System (BPMI)
	17.	Investing in Sustainable and Resilient Growth (BEASSA)
	18.	Valuing Natural Resources for Socioeconomic Development (BEASSA)
	19.	Water Sector Transformation (BINFRA)
	20.	Sustainable Usage of Energy to Support Growth (BTE)
	21.	Driving Modernisation in Agro-food (BTANI)
	22.	Delivering Economic and Social Prosperity Through Agri-Commodity
		(BTANI)
	23.	Energising Manufacturing Sector (BIPST)
	24.	Translating Innovation to Wealth (BIPST)
	25.	Aerospace (BIPST)
	26.	Fostering a Robust Services Sector (BIP)
	27.	Digitalising Malaysian Economy (BKE)
	28.	Making Connections: Seamless Transport System and Logistics
1		(BINFRA)

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Proposed Strategy Papers

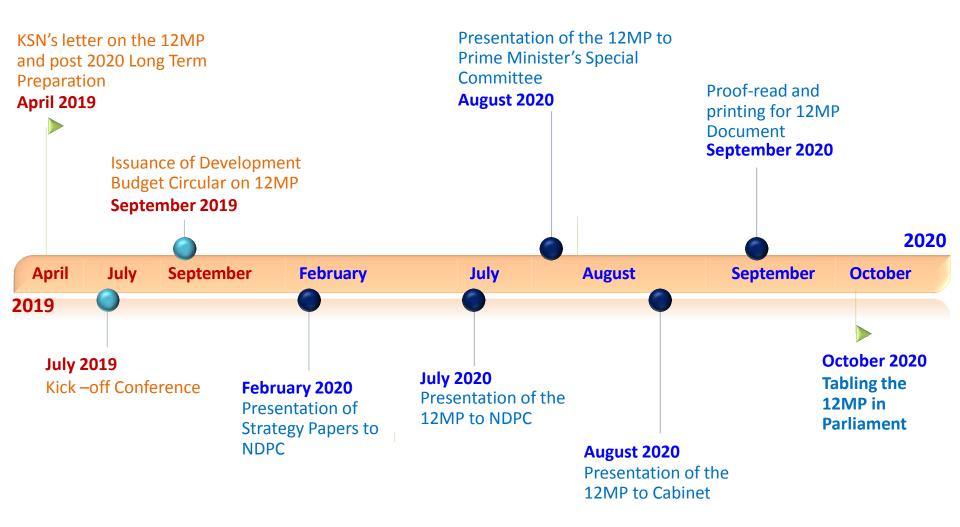
- 1. Investing in Sustainable and Resilient Growth
- 2. Valuing Natural Resources for Socioeconomic Development
- 3. Water Sector Transformation

IAPG on Environment, Natural Resource and Disaster Risks

- 4 Technical Working Groups
- 14 Focus Groups



Timeline for the Twelfth Malaysia Plan





Phase 1: 12 th MP	Phase 2: 13 th MP	Phase 3: 14 th MP	Phase 4: 15 th MP	
2021-2025	2026-2030	2031-2035	2036-2040	
		INABLE OPMENT ALS	WATER : TRANSF	

THEME Water - a resource, an asset, a precious commodity, a lifeline for the nation

VISION A major national dynamic economic sector, within a
2040 pristine environment which providing sustenance,
security, support and joy to the nation

- Clean, safe, affordable, reliable water services
- Pristine environment
- Efficient recycling/ resource recovery
- Behavioural change etc.

- % share to GDP
- FDI
- # jobs created
- # skilled worker
- Water knowledge hub
- International standards local technology etc.

ISSUES AND CHALLENGES

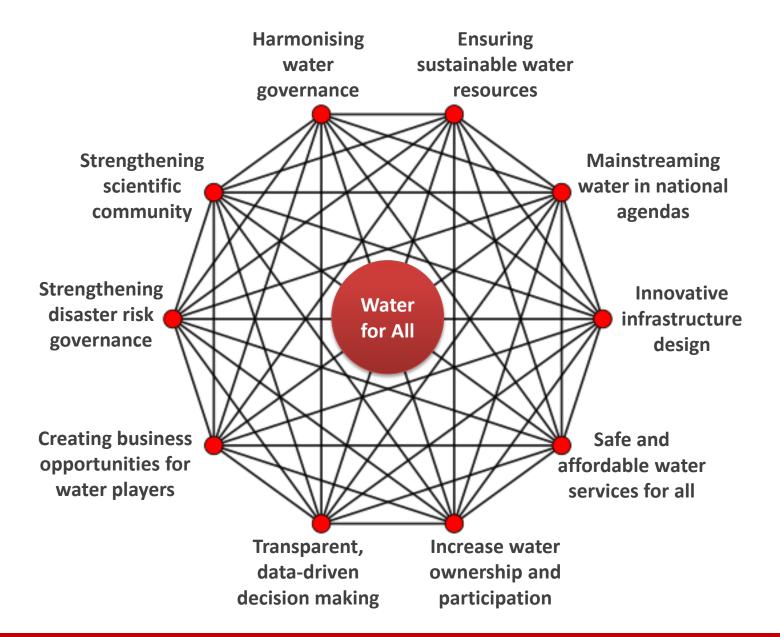
Water Resources Management

- Ineffective implementation of water-related policies/ legislation
- Lack of consideration for water in development planning
- Low awareness and participation of non-state actors
- Lack of water related database
- Water Services (Water Supply and Sewerage Services)
 - Financial sustainability issues
 - Unreliable water sources
 - Expensive infrastructure
- Water for agriculture
 - Competition on water resources usage with other sectors
 - Aging and poor maintenance of irrigation infrastructure
- Water Quality
 - Legislative gap
 - Insufficient enforcement capacity
- Water as An Asset for Wealth Creation
 - Lack of awareness, knowledge, infrastructure and access to technology on resource recovery
- Water-Related Disaster Risk Management
 - Lack of focus on integrated and non-structural measures
 - Current infrastructure design does not take into account adaptation measures for disaster
 - Lack of R&D

Outcome: Effective Implementation of IWRM

- **1.** Harmonizing water governance (vertical and horizontal)
- 2. Ensuring safe, quality and reliable water resources
- **3. Mainstreaming** water in national agendas (eg.: Holistic development planning and implementation)
- 4. Review and update **infrastructure** design and technology used (*resilient, green* vs grey, non-structural vs structural measures)
- 5. Ensuring safe and affordable water services for all
- 6. Increase water **ownership** through inclusive and participatory approach involving all stakeholders
- 7. Integrated, data driven and transparent water decision making
- 8. Expanding **business** opportunities for water players
- 9. Strengthening **disaster risk** governance and investing in disaster risk reduction for resilience
- 10. Strengthening scientific community, local experts and skilled workforce to support water sector transformation

10 PILLAR STRATEGIES





Thank you

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