

CONCEPT NOTE
IWRM Portal Development for Data Collection and Information Sharing in
Monitoring the Implementation of IWRM in Malaysia

No	Item	Description
1	Country	Malaysia
2	Strategic Goal	3: We Learn – Generate and Communicate Knowledge
3	Outcome Challenge	Key information on IWRM performance status at country level available
4	Title of Activity	IWRM Portal Development for Data Collection and Information Sharing in Monitoring the Implementation of IWRM in Malaysia
6	Activity Proponent	
	• Submission by	GWP Malaysia
	• Contact person	Dato' Ir. Hj. Hanapi Mohamad Noor (hanapi2020@gmail.com) Zelina Z. Ibrahim (zelinazi@gmail.com)
	• Contact Address	MyWP Contact Address
8	Background and Needs Statement	<ul style="list-style-type: none"> • Background <p>Integrated Water Resource Management (IWRM) requires a full commitment from all levels of stakeholders, and active participation from all government agencies including NGOs, civil society as well as from local communities. Malaysia has significantly progressed in IWRM implementation over the past decades, of which various adaptations and refined focus on improving the existing water-related legislation, policies and integrated inter-agencies administration were established towards implementing both short term and long-term goals of IWRM. The 2012 Water Resource Policy (NWRP) serves as the influential reference in changing the landscape of water resources management in the country, which upholds three principles; water security, water resources sustainability, and collaborative governance. The 2012 NWRP has proven to be a goal setter in aligning the national water resources management and governance, which leads to water-related policies review in mainstreaming the IWRM implementation in the country through cross-ministerial portfolios.</p> <p>In line with the country's commitment towards the achievement of 2030 SDG goals, Malaysia had completed two series of assessment to date (in 2017 and 2020). The undertaken IWRM-related activities were reported under the SDG 6 (Indicator 6.5.1), where all progress towards IWRM implementation in the country were captured through a set of 33 survey questions across four key components of IWRM. Based on the first-round baseline dataset collection (from 2017-2018 assessment) and second-round data collection in 2020 (using improved survey</p>

questions), Malaysia had scored 43 in the 2017 assessment, and the score increased to 63 in the 2020 assessment. The latter score increase was contributed significantly from the enabling environment section, which pushed the rank into medium-high category in the overall degree of IWRM implementation progress tracking.

Based on this improvement, it is believed that more IWRM-related activities could be effectively reported to capture the nation-wide IWRM implementation progress, provided an improved enabling system is developed for the reporting purpose. This is especially crucial to ensure the reporting process of all IWRM-related activities could be participated beyond the government agencies. This may include those activities initiated by local groups, NGOs and collaborative efforts between different private sectors of common interest. While it is easy to monitor all the IWRM-related activities run by the government agencies, some of the local, one-offs and collaborative works from other source of funded activities might not be effectively captured due to the lack of centralized reporting platform.

Consequently, the overall IWRM implementation progress might overlook these contributions of water resource-related activities, thus affect the final aggregate score of the IWRM implementation progress in the country. The medium-low and medium-high scores from the previous assessment cycles could also be attributed to the lack of public accessibility in participating in the IWRM assessment exercises, such as during the verification and substantiation of the IWRM data-sharing. The data confidentiality and the extent of information that could be made available to the public also has been identified as one of the reporting issues and challenges.

This leads to the need to revisit the efficiency in information dissemination and data collection system pertaining to SDG 6.5.1. The 2017 and 2020 assessment of the IWRM implementation status depends solely on the documentation and evidence submission to address each question needs in the questionnaire, which rely fully on dataset from the participating reporting agencies. Nonetheless, the sufficiency, accuracy and transparency of the information sharing could be impeded, given the facts that different dataset/information are being kept at different entities at different administrative levels, which might not necessarily accessible to all.

Therefore, one of the critical issues identified from the previous assessments is lack of publicly accessible data and the lack of a central reporting system for IWRM implementation. A more transparent and systematic reporting system is needed to ensure

	<p>documentation/evidence sufficiency, transparency, availability and accessibility of information. It is deemed as paramount importance to have all the dataset/information from different reporting agencies be compiled, analyzed and summarized, prior to be used as either reporting evidence for the SDG 6.5.1, or for the information dissemination to all, under a controlled data management ecosystem.</p> <p>Against this backdrop, there is a strong need to prepare a comprehensive yet interactive portal to optimize the IWRM engagement programme and systematic data collection system under one integrated web-based platform. Besides the potential to encourage active participation in IWRM implementation reporting, this portal enables the stakeholder to capture the nation-wide information that could be useful in identification of active IWRM-related communities, and to connect and coordinate these collaborative communities towards achieving the long-term IWRM targets. On top of all, the portal which will be under the Department of Irrigation and Drainage Malaysia (DID), as the national focal agency, will serve as the platform to gather and integrate the related information from inter-agencies in a more holistic and transparent reporting manner. A systematic and guided mechanism in IWRM documentation and reporting system could be one of the succeeding factors in the overall IWRM implementation planning strategy in the country. By having a proper reporting platform for literally everyone (from government agencies to individuals), all IWRM-related activities conducted across the nation could be well-captured. A by-category portal users will be pre-identified (from participating government agencies and potential NGOs), while a continuous promotion to encourage people to participate in the sharing their IWRM-related activities through the same platform could be seen as one of proactive effort in publicize the IWRM goal. The latter portal user group (private sector, community groups or individuals), a portal registration will be prompted to promote responsible data sharing etiquette while avoiding irrelevant or malicious information. The log-in authentication process also enable the system admin to collect the demographic information, including the gender, age, organization nature and other useful data that could be used for the reporting under the participation statistic summary.</p> <p>The main purpose of this activity is to establish a web-based IWRM portal for effective information dissemination and data collection, based on the SDG 6.5.1 assessment strategies. The portal will serve as the connecting platform to reach out to the people (as one of the proactive IWRM awareness campaign), to enable a systematic IWRM data collection system for effective monitoring and reporting mechanisms, from all participating agencies, as well as to optimize the information</p>
--	--

collected for public accessibility. Nonetheless, all data related to IWRM implementation from all reporting entities (including those from non-governments, private sectors and public) will be vetted by a dedicated secretariat under the DID as the platform owner. This is due to some identified issues pertaining to inter-agency data sharing policies restrictions, as well as the NDA terms to certain types of information confidentiality. The administrator will be responsible to validate the data received, authenticity check as well as other vetting/data finalization processes, prior to be used as part of the report documentation as well as to be re-published for public accessibility to the shared information. The portal would not only serve as data collecting system, but also could be used as part of the public hub for the related updates on the overall IWRM implementation effort at the national level. This vetting process by the platform moderator (system administrator) is crucial to ensure that all the reported data shared by participating entities could be fully utilized to support the progress tracking effort, while at the same time, could be vetted through so that the information sharing to the public are accurate and reliable.

The activity will be executed in six stages; from the planning stage until maintenance and monitoring stage of the IWRM portal. All water management related stakeholders will be involved as part of the steering community in setting the direction, data collection strategies and formatting, until the final personalization of the dashboard visualization to ensure smooth navigation by the potential users and administrator. The portal will also serve as the hub for big data analytic management system for IWRM implementation.

The portal will be linked to the internal cloud storage system and database facility under the same department (DID Malaysia). Therefore the department has full control from the data collection, archive, data management and publication for public accessibility. Besides, the maintenance and monitoring stage of the e-portal will be done by the DID personnel (administrator), who will be trained to maintain the portal and manage the information. Therefore, any technical, cost, or other implications related to the portal sustainability will be under this government department as the platform owner.

- **Activities**

Stage 1	Preliminary review of the documentation and dataset characteristics (format, category, etc) according to previously submitted assessment documentation (issues identification stage)
---------	--

		Stage 2	Define the question-specific needs for documentation and evidence format setting in accordance with the questionnaire in SDG 6.5.1 (strategic planning for data collection stage)
		Stage 3	Dataset classification, document format setting and data collection template drafting (input and output data standardization stage)
		Stage 4	Determination of analysis results for information dissemination and database format (data import and transformation for reporting preparation purpose) (Analytical data processing and visualization stage)
		Stage 5	Preparation of the portal framework and architecture, users' type, accessibility category and interactive features (Platform featuring and portal sustainability planning stage)
		Stage 6	Portal construction, commissioning, and maintenance (portal establishment, training and maintenance stage)
	*Series of workshop/discussion will be planned to engage multi-stakeholders at different stages of project activities.		
9	Activity components	Target user (internal and external)	<ul style="list-style-type: none"> i. Form the steering committee for SDG 6.5.1 documentation management unit (documentation-related issues identification and questionnaire needs) ii. Identify key stakeholders, potential local groups, NGOs, relevant private entities, and collaborative communities with direct and indirect participation in water resources management programme (target user group and approach identification)
		Target dataset (input and output)	<ul style="list-style-type: none"> i. Determine the question-specific needs for documentation and evidence format setting in accordance with the questionnaire in SDG 6.5.1 (strategic planning for IWRM data collection) ii. Setting the data format and finalization of data collection template/module (input and output data standardization) <p><i>*this component will be based on series of discussion and workshop.</i></p>
		Portal platform	<ul style="list-style-type: none"> i. Establishment of interactive portal to serve as both; the information provider and

			<p>data collection system for IWRM implementation in Malaysia.</p> <p>ii. To link the portal with official webpage of national government agencies (eg. DID Malaysia, DOE Malaysia, NAHRIM) and other IWRM-related entities (eg: SMSA, NWRS, NAWABS, KASA etc)</p> <p>iii. The portal as a promotional hub for IWRM-community engagement and outreach</p> <p>iv. Portal management, maintenance and upgrade needed</p>
10	When will be implemented	Target execution of the activities is twelve (12) months	
		Month 1 -2 (May- June 2022)	Stage 1 and Stage 2
		Month 3- 4 (July- August 2022)	Stage 3 and 4
		Month 5-6 (September- October 2022)	Stage 5
		Month 7-9 (Nov-January 2023)	
		Month 10-12 (Feb – April 2023)	Stage 6
11	Project Phasing	<p>This IWRM portal development is one-off activity, whom will be assisted by third party. The portal also subjected to future upgrade and improvement whenever is deemed necessary depends on the accessibility to data, improved policies (eg: inter-agency data sharing policy) and other enabling environment progress.</p> <p>Nonetheless, the training, maintenances and periodical upgrades will be planned and executed as necessary after the full hand-over was made to the DID as the platform owner. As the government agency who has the full control over the platform construction, management and maintenance, this platform ownership would be the strategic approach to ensure the sustainability of the effort to reflect the country's commitment towards full implementation of IWRM according to the SDGs plan.</p> <p>The whole project of the portal development is expected to be completed in 12 months' time, which will be followed by Training of Trainers (ToT) and series of workshops for data manager and personnel (from DID Malaysia) who are involved in the IWRM data management and coordination. While the main portal users target would be majorly from the government departments and NGOs who</p>	

		<p>have been identified as the relevant reporting agencies, a continuous publicity and campaigns will be strategized to encourage private sectors, community groups and public to be part of the effort. The number of participants who directly involved in this IWRM reporting activity will be used as one of the indicator towards gauging the overall acceptance and implementation of IWRM across the country. The portal owner as the driving committee would also in charge in public-outreach programme to increase the participation from time to time.</p>
12	Boundary Actors	<ul style="list-style-type: none"> • Department of Irrigation and Drainage Malaysia, • Private sector, • NGOs, • Public
13	Implementation arrangement	<p>Appointed consultant shall work with national focal point and GWP Malaysia to organize the workshop series for following component needs:</p> <ol style="list-style-type: none"> i. Identifying of documentation/dataset format required for each question in the SDG 6.5.1 survey. ii. Establishing the module/template for data sharing by target end users iii. Identification of final dataset format and data management strategies (data quality control by back-end team) iv. Finalizing the portal users categories (eg: public, compulsory group - government agencies, and the encouraged group - private, NGOs, and individuals v. Identification of the key features for final visualization on the portal (eg: interactive charts, map, inter web linkages, social platform linkages, download links, gallery, SEO) vi. Confirmation on languages and interface version (desktop and mobile), google analytic, online form and compiled data repository address, and troubleshoot emailing system. vii. Portal construction and preview (temporary URL link), correction and amendments process Final portal will be positioned under existing DID's website, of which the full control over the portal will be upon the DID authority. The portal will be supported by existing data storage and database facility in relevant DID unit. viii. Portal maintenance, data management and portal upgrade must be considered by the steering agency (DID Malaysia as the portal owner) Any technical, cost, or other implications related to the portal sustainability will be under this government department agency after a hand-over of the portal is made.
14	Progress Markers	<ul style="list-style-type: none"> • Module and template establishment of data format (guiding layout for data sharing/reporting)

- Target end user profiling database (portal accessibility and screening)
- Confirmation on target data management repository for the compilation team.
- Final visualization layout of the portal and support services function (eg: emailing system, interactive chatbot, etc)
- Portal preview and correction
- Portal live hosting (in existing DID's website)
- Portal management and maintenance training
- Portal full hand-over to DID Malaysia
- Portal sustainability plan (maintenance, upgrade, etc)

15 Budget estimation and plan (in EURO/MYR)

Estimated Fund (in MYR)								Other Source	Total Cost
No.	Category	Total fund	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5		
1	Travel Staff				€4,221.39 / MYR20,000		€4,221.39 / MYR20,000		€8,442.78 / MYR40,000
2	Travel Consultants		€105.53/ MYR500	€105.53/ MYR500	€105.53/ MYR500	€105.53/ MYR500	€105.53/ MYR500		€527.65/ MYR2,500
3	Meeting		€506.57/ MYR2,400	€1016.62/ MYR4,800	€1016.62/ MYR4,800	€1016.62/ MYR4,800	€1016.62/ MYR4,800		€4573.05/ MYR21,600
4	Consultant Fee						€4,221.39/ MYR20,000		€4,221.39/ MYR20,000
5	Communication		€63.32 MYR300	€31.66/ MYR150	€31.66/ MYR150	€31.66/ MYR150	€31.66/ MYR150		€189.90/ MYR900.00
6	Other costs (portal development)			€4,221.39/ MYR20,000					€4,221.39/ MYR20,000
TOTAL (EURO/MYR)									€20,103.11/ MYR105,000

Note:

Malaysian Government will fund the sustainability of IWRM platform through Department of Irrigation and Drainage (DID). DID has been appointed as the system's custodian and will be responsible to the IWRM platform in the future.

CONCEPT NOTE
**For Capacity-building of Targeted Officers for Maintenance of the IWRM
 Portal for the Collection of Data and Information in Monitoring the
 Implementation of IWRM in Malaysia**

No	Item	Description
1	Country	Malaysia
2	Strategic Goal	3: We Learn – Generate and Communicate Knowledge
3	Outcome Challenge	<i>Improved management instruments to support IWRM implementation at national and other levels of planning</i>
4	Title of Activity	Capacity-building of Targeted Officers for Maintenance of the IWRM Portal for the Collection of Data and Information in Monitoring the Implementation of IWRM in Malaysia
5	Activity Proponent	
	• Submission by	GWP Malaysia
	• Contact person	Dato' Ir. Hj. Hanapi Mohamad Noor (hanapi2020@gmail.com) Zelina Z. Ibrahim (zelinazi@gmail.com)
	• Contact Address	MyWP Contact Address
6	Background and Needs Statement	<ul style="list-style-type: none"> • Background <p>Indicator 6.5.1 tracks the degree of integrated water resources management (IWRM) implementation, by assessing the four key components of IWRM:</p> <ol style="list-style-type: none"> i. Enabling environment ii. Institutions and participation iii. Management instruments iv. Financing <p>It takes into account the various users and uses of water, with the aim of promoting positive social, economic and environmental impacts at all levels, including the transboundary level, where appropriate. Data on 6.5.1 is collected through a questionnaire and responses are consolidated through consultations between relevant stakeholders, such as national and subnational government agencies and institutions involved in water resources management and other stakeholders such as NGOs, academia and private sector.</p> <p>One of the critical issues identified from the previous assessments is heavily emphasized on the existing reporting system of the IWRM implementation. The importance of efficient reporting platform is found to be as important as other essential aspects such as financing.</p>

	<p>A more transparent and systematic reporting is needed to ensure documentation/evidence sufficiency, transparency, availability and accessibility of information. It is deemed as paramount importance to have dataset /information related to:</p> <p>PART 1: ENABLING ENVIRONMENT</p> <ul style="list-style-type: none"> i. Status of policies, laws and plans to support IWRM at the national ii. Status of policies, laws and plans to support IWRM at other levels <p>PART 2: INSTITUTIONS AND PARTICIPATION</p> <ul style="list-style-type: none"> i. Status of institutions for IWRM implementation at the national level ii. Status of institutions for IWRM implementation at other levels <p>PART 3: MANAGEMENT INSTRUMENTS</p> <ul style="list-style-type: none"> i. Status of management instruments to support IWRM implementation at the national level: ii. Status of management instruments to support IWRM implementation at other levels: <p>PART 4: FINANCING</p> <ul style="list-style-type: none"> i. Status of financing for water resources development and management at the national level: ii. Status of financing for water resources development and management at other levels: <p>from different reporting agencies be compiled, analyzed and summarized, prior to be used as either reporting evidences for the SDG 6.5.1, or for the information dissemination to all, under a controlled data ecosystem. Against this backdrop, there is a strong need to prepare a comprehensive yet interactive portal to optimize the IWRM engagement programme and systematic data collection system under one integrated web-based platform.</p> <p>In short, a web portal is a web-based platform that provides stakeholders with a single access point to information. A web portal can be used to provide the user with personalised information and also can be used to enhance the collaboration of information and improve the way the stakeholders interact within the implementation of IWRM. Keeping the IWRM portal well maintained and attractive is important in order to engage and retain users. Portal maintenance is the act of regularly checking your portal for issues and mistakes and keeping it updated and relevant. This should be done on a consistent basis to keep the portal healthy, up-to-date and encourage continued traffic growth. In order to do this, capacity-building of targeted users</p>
--	---

		<p>which include water related government agencies such as Department of Irrigation & Drainage (DID) and National Water Research Institute of Malaysia (NAHRIM) and local authorities in maintaining and feeding the IWRM Portal is essential. Capacity building is fundamentally about improving effectiveness, often at the organizational level. It is a process by which individuals and organizations (targeted users) obtain, improve, and retain the skills, knowledge, tools, equipment, and other resources needed to do their jobs competently. It allows the targeted users to perform at a greater capacity (larger scale, larger audience, larger impact, etc).</p> <p>The purpose of this activity is to develop a capacity-building of targeted users in maintaining and feeding IWRM portal for the collection of data and information in monitoring the implementation of IWRM in Malaysia. The activity will be executed in two phases which are the capacity building phase and the system implementation phase. All water management related stakeholders will be involved as part of the steering community in initial condition assessment, critical need identification and strategic planning to ensure all angle of resources, knowledge, and skills are covered.</p> <ul style="list-style-type: none"> • Activities <table border="1" data-bbox="646 1167 1518 1938"> <tr> <td data-bbox="646 1167 803 1938">Phase 1</td> <td data-bbox="803 1167 1518 1938"> <p>Capacity Building</p> <p>Phase 1 will be concentrating on capacity building for the feeders. Change management is crucial in the process of implementing new system/platform among the targeted users which are all water related government agencies such as Department of Irrigation & Drainage (DID) and National Water Research Institute of Malaysia (NAHRIM) and local authorities.</p> <p>During Phase 1, a clear picture of how their organization will benefit from the new IWRM portal will be emphasized. Explaining the “why” of the program clearly from the start will help to gain buy-in from the feeders and to build enthusiasm for the implementation. Fully understanding on the program’s objectives and goals, will decreases resistance to change and increase the chance of success.</p> </td> </tr> </table>	Phase 1	<p>Capacity Building</p> <p>Phase 1 will be concentrating on capacity building for the feeders. Change management is crucial in the process of implementing new system/platform among the targeted users which are all water related government agencies such as Department of Irrigation & Drainage (DID) and National Water Research Institute of Malaysia (NAHRIM) and local authorities.</p> <p>During Phase 1, a clear picture of how their organization will benefit from the new IWRM portal will be emphasized. Explaining the “why” of the program clearly from the start will help to gain buy-in from the feeders and to build enthusiasm for the implementation. Fully understanding on the program’s objectives and goals, will decreases resistance to change and increase the chance of success.</p>
Phase 1	<p>Capacity Building</p> <p>Phase 1 will be concentrating on capacity building for the feeders. Change management is crucial in the process of implementing new system/platform among the targeted users which are all water related government agencies such as Department of Irrigation & Drainage (DID) and National Water Research Institute of Malaysia (NAHRIM) and local authorities.</p> <p>During Phase 1, a clear picture of how their organization will benefit from the new IWRM portal will be emphasized. Explaining the “why” of the program clearly from the start will help to gain buy-in from the feeders and to build enthusiasm for the implementation. Fully understanding on the program’s objectives and goals, will decreases resistance to change and increase the chance of success.</p>			

			<p>The feeders will feel more confident about using the new platform when they've been involved in training before the new system goes live. Knowing what skill gaps need to be filled to create a smooth transition for the feeders to the new platform is crucial. The relevance trainings will be tailored based on the technical level of the people that will use the system every day.</p> <p>The feeders will learn all the functionalities included in the IWRM portal and then most importantly on how to feed the portal with the relevance data/information including what is the standard format, the frequencies expected to feed the system, how to do data verification etc.</p>
		Phase 2	<p>Capacity Building for System Administrator</p> <p>Phase 2 will be focusing on users that have been selected as system administrator. System administrator play a big role and have a lot of responsibilities on the new platform. They are responsible for the upkeep and maintenance of the platform. Therefore, system administrator required right qualifications and educational background.</p> <p>Phase 2 training program give the selected system administrator to become expert system administrators for the IWRM platform at their organizations. The system administrators are expected to ensure the uptime, performance, resources, and security of the platform that they manage meet the needs of the users. Skill relevance to this expectation will be provided and tailored based on the technical levels of the system administrator group.</p>
9	Activity components	Target user (internal and external)	<p>i. Targeted users who include water related government agencies such as Department of Irrigation & Drainage (DID) and National Water Research Institute of Malaysia (NAHRIM) and local authorities who responsible in maintaining and feeding the IWRM portal for collection of data and information in monitoring the implementation of IWRM in Malaysia.</p>

			<p>There are 4 types of users involve which are:</p> <ul style="list-style-type: none"> a. System admin b. Reporting admin c. Feeders (mandatory) d. Feeders (optional) 							
		Target dataset (input and output)	<ul style="list-style-type: none"> iii. Capacity building (input) iv. System implementation (output) <p><i>*this component will be based on series of discussion and workshop.</i></p>							
		Capacity building	<ul style="list-style-type: none"> v. Capacity building implementation - Training of Trainers (ToT) and classroom trainings 							
10	When will be implemented	<p>Target execution of the activities is five (5) months</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 25%;">Month 1</td> <td rowspan="3" style="text-align: center; vertical-align: middle;">Phase 1</td> </tr> <tr> <td>Month 2</td> </tr> <tr> <td>Month 3</td> </tr> <tr> <td>Month 4</td> <td rowspan="2" style="text-align: center; vertical-align: middle;">Phase 2</td> </tr> <tr> <td>Month 5</td> </tr> </table>		Month 1	Phase 1	Month 2	Month 3	Month 4	Phase 2	Month 5
Month 1	Phase 1									
Month 2										
Month 3										
Month 4	Phase 2									
Month 5										
11	Project Phasing	<p>The whole project of the portal development is expected to be completed in five months' time, which will be followed by system implementation for targeted users who responsible in maintaining and feeding the IWRM portal for collection of data and information in monitoring the implementation of IWRM in Malaysia.</p>								
12	Boundary Actors	<ul style="list-style-type: none"> • Department of Irrigation and Drainage Malaysia, • NGO 								
13	Implementation arrangement	<ul style="list-style-type: none"> i. Appointed consultant shall work with national focal point and GWP Malaysia to organise the Capacity Building implementation. An organizing committee shall be formed. The key player is expected to be the Drainage and Irrigation 								

		<p>Department Malaysia (DID) and Ministry of Environment and Water (KASA).</p> <p>ii. GWP Malaysia Secretariat together with organizing committee members shall provide project management and logistical support for the Capacity Building implementation.</p> <p>iii. Participants of the Capacity Building implementation shall be targeted officers in DID Malaysia and KASA. The participants shall be the users of IWRM portal, which include the System admin, Reporting admin, Feeders (mandatory), Feeders (optional) and Public.</p> <p>iv. Facilitators shall be appointed to support the activity.</p>																																																																																								
14	Progress Markers	<p>i. Completion of capacity building phase (Phase 1a & 1b)</p> <p>ii. System implementation</p>																																																																																								
15	Budget estimation and plan (in MYR and EURO)																																																																																									
<table border="1"> <thead> <tr> <th colspan="8">Estimated Fund (in MYR)</th> <th rowspan="2">Other Source</th> <th rowspan="2">Total Cost</th> </tr> <tr> <th>No.</th> <th>Category</th> <th>Total fund</th> <th>Jan-22</th> <th>Feb-22</th> <th>Mar-22</th> <th>Apr-22</th> <th>May-22</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Travel Staff</td> <td></td> <td></td> <td></td> <td>20,000</td> <td></td> <td>20,000</td> <td></td> <td>40,000</td> </tr> <tr> <td>2</td> <td>Travel Consultants</td> <td></td> <td>500</td> <td>500</td> <td>500</td> <td>500</td> <td>500</td> <td></td> <td>2,500</td> </tr> <tr> <td>3</td> <td>Meeting</td> <td></td> <td>2,400</td> <td>4,800</td> <td>4,800</td> <td>4,800</td> <td>7,200</td> <td></td> <td>24,000</td> </tr> <tr> <td>4</td> <td>Consultant Fee</td> <td></td> <td>6,000</td> <td>6,000</td> <td>6,000</td> <td>12,000</td> <td>12,000</td> <td></td> <td>42,000</td> </tr> <tr> <td>5</td> <td>Communication</td> <td></td> <td>300</td> <td>150</td> <td>150</td> <td>150</td> <td>150</td> <td></td> <td>900</td> </tr> <tr> <td>6</td> <td>Other costs (Workshop venue)</td> <td></td> <td></td> <td></td> <td>9,000</td> <td></td> <td>27,000</td> <td></td> <td>36,000</td> </tr> <tr> <td colspan="9" style="text-align: right;">TOTAL (MYR)</td> <td>145,400</td> </tr> </tbody> </table>			Estimated Fund (in MYR)								Other Source	Total Cost	No.	Category	Total fund	Jan-22	Feb-22	Mar-22	Apr-22	May-22	1	Travel Staff				20,000		20,000		40,000	2	Travel Consultants		500	500	500	500	500		2,500	3	Meeting		2,400	4,800	4,800	4,800	7,200		24,000	4	Consultant Fee		6,000	6,000	6,000	12,000	12,000		42,000	5	Communication		300	150	150	150	150		900	6	Other costs (Workshop venue)				9,000		27,000		36,000	TOTAL (MYR)									145,400
Estimated Fund (in MYR)								Other Source	Total Cost																																																																																	
No.	Category	Total fund	Jan-22	Feb-22	Mar-22	Apr-22	May-22																																																																																			
1	Travel Staff				20,000		20,000		40,000																																																																																	
2	Travel Consultants		500	500	500	500	500		2,500																																																																																	
3	Meeting		2,400	4,800	4,800	4,800	7,200		24,000																																																																																	
4	Consultant Fee		6,000	6,000	6,000	12,000	12,000		42,000																																																																																	
5	Communication		300	150	150	150	150		900																																																																																	
6	Other costs (Workshop venue)				9,000		27,000		36,000																																																																																	
TOTAL (MYR)									145,400																																																																																	
<table border="1"> <thead> <tr> <th colspan="8">Estimated Fund (in EURO)</th> <th rowspan="2">Other Source</th> <th rowspan="2">Total Cost</th> </tr> <tr> <th>No.</th> <th>Category</th> <th>Total fund</th> <th>Jan-22</th> <th>Feb-22</th> <th>Mar-22</th> <th>Apr-22</th> <th>May-22</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Travel Staff</td> <td></td> <td></td> <td></td> <td>4,219.41</td> <td></td> <td>4,219.41</td> <td></td> <td>8,438.82</td> </tr> <tr> <td>2</td> <td>Travel Consultants</td> <td></td> <td>105.49</td> <td>105.49</td> <td>105.49</td> <td>105.49</td> <td>105.49</td> <td></td> <td>527.43</td> </tr> <tr> <td>3</td> <td>Meeting</td> <td></td> <td>506.49</td> <td>1,012.66</td> <td>1,012.66</td> <td>1,012.66</td> <td>1,518.99</td> <td></td> <td>5,063.29</td> </tr> <tr> <td>4</td> <td>Consultant Fee</td> <td></td> <td>1,265.83</td> <td>1,265.83</td> <td>1,265.83</td> <td>2,531.65</td> <td>2,531.65</td> <td></td> <td>8,860.78</td> </tr> <tr> <td>5</td> <td>Communication</td> <td></td> <td>63.29</td> <td>31.65</td> <td>31.65</td> <td>31.65</td> <td>31.65</td> <td></td> <td>189.87</td> </tr> </tbody> </table>			Estimated Fund (in EURO)								Other Source	Total Cost	No.	Category	Total fund	Jan-22	Feb-22	Mar-22	Apr-22	May-22	1	Travel Staff				4,219.41		4,219.41		8,438.82	2	Travel Consultants		105.49	105.49	105.49	105.49	105.49		527.43	3	Meeting		506.49	1,012.66	1,012.66	1,012.66	1,518.99		5,063.29	4	Consultant Fee		1,265.83	1,265.83	1,265.83	2,531.65	2,531.65		8,860.78	5	Communication		63.29	31.65	31.65	31.65	31.65		189.87																				
Estimated Fund (in EURO)								Other Source	Total Cost																																																																																	
No.	Category	Total fund	Jan-22	Feb-22	Mar-22	Apr-22	May-22																																																																																			
1	Travel Staff				4,219.41		4,219.41		8,438.82																																																																																	
2	Travel Consultants		105.49	105.49	105.49	105.49	105.49		527.43																																																																																	
3	Meeting		506.49	1,012.66	1,012.66	1,012.66	1,518.99		5,063.29																																																																																	
4	Consultant Fee		1,265.83	1,265.83	1,265.83	2,531.65	2,531.65		8,860.78																																																																																	
5	Communication		63.29	31.65	31.65	31.65	31.65		189.87																																																																																	

6	Other costs (Workshop venue)				1898.73		5,696.20		7,594.94
TOTAL (EURO)									25,611.84
<p>Note: Malaysian Government will fund the sustainability of IWRM platform through Department of Irrigation and Drainage (DID). DID has been appointed as the system's custodian and will be responsible to the IWRM platform in the future.</p>									

Table 1: Overview of types of activities and tasks

Activities	Proposed activities/tasks	Sub-Outputs / Deliverables	Proposed Methods for delivery
1. Institutional analysis	a. Identification and prioritization of critical needs based on specific topic. <ul style="list-style-type: none"> • Enabling environment • Institutions and participation • Management instruments • Financing 	<ul style="list-style-type: none"> • Questionnaire • Analysis of questionnaire result 	Meetings and workshop to identify the critical needs based on specific topic
2. Boundary Partner engagement	a. Identify key users for System admin, Reporting admin, Feeders (mandatory), Feeders (optional) and Public from all participated states and relevance governance officers.	<ul style="list-style-type: none"> • Lists of System admin • Lists of Reporting admin • Lists of Feeders (mandatory and optional) • List of relevant participants from public 	Meetings and workshop to identify the key users.
3. Strategic planning	a. Form organizing committee to conduct the training. There are 2 types of training. Training in Phase 1 will be focusing on building the knowledge and management skill related to the specific topic. Training in Phase 2 will be focusing on the system implementation. For system implementation training, there are two separate trainings for admins and end users. b. Participants of the Capacity Building implementation will be invited from public, private, academic and NGO bodies based on the list identified from the boundary partner engagement activities. c. Appointed facilitators to support the activity.	<ul style="list-style-type: none"> • Training plan and schedule • Training invitation 	Classroom training s for admins and end users.

Table 2: Budget Required Based on Tasks

Activities Proposed activities/tasks	Sub-Outputs / Deliverables	Proposed Methods for delivery	Category of Cost	Cost (RM / EURO)
Travel cost 20 participants for two (2) times workshop series to Kuala Lumpur.	<ul style="list-style-type: none"> Finalized the capacity building methods Capacity building workshop 	Physical workshop (focal group discussion and brainstorming session)	Travel Staff	40,000 / 8,438.82
Ten (10) times travel cost for consultants from UPM to JPS and workshop venues	<ul style="list-style-type: none"> Questionnaires Methods for capacity building Workshop Meeting 	Physical meeting with relevant representatives at Kuala Lumpur	Travel Consultant	2,500 / 527.43
72 hours meeting and workshop	<ul style="list-style-type: none"> Questionnaires Methods for capacity building Workshop Meeting 	Physical meeting with relevant representatives at Kuala Lumpur	Meeting	24,000 / 5,063.29
140 hours consultation works to study and prepare related documents and activities for capacity building	<ul style="list-style-type: none"> Honorarium for technical research assistant Reporting and coordination with Documentation Team and Training Unit 	Capacity building setting and overall portal to SDG 6.5.1 workshop and training.	Consultant Fee	842000 / 8,860.78
Cost for communication	<ul style="list-style-type: none"> Contact relevant participant to complete the module 	Call, email and whatsapp	Communication	900 / 189.87
4 days full meeting package	<ul style="list-style-type: none"> Workshop Capacity building 	Physical workshop and capacity building (focal group discussion and training session)	Other cost	36,000 / 7,594.94