

**AGENDA FOR THE 4<sup>TH</sup> MEETING OF THE  
WORKING GROUP ON SUSTAINABLE DEVELOPMENT OF TIDAL AREAS (WG-SDTA)**

28 November 2021, 08:45-10:30 hours (Session-I)

28 November 2021, 11:00-12:45 hours (Session-II)

Marrakesh, Morocco

**Strategy Theme: Basin**

**Presented by the Chairman**

**Year of Establishment: 2017**

**Extended the completion of the Mandate: 2023**

**Mandate :** (a) To understand the existing and potential challenges and opportunities of tidal areas for now and the future by figuring out underlying issues; (b) To raise awareness of the increasing risk on tidal areas due to global climate change and stimulate interdisciplinary discussions on impacts, mitigation, and adaptation; (c) To enhance survey, design techniques, and monitoring and management programs for the irrigation and drainage facilities, and apply to collect information about the tidal area environment around the world; (d) To identify sustainable development and management options in tidal areas, and find a balance between the conservation and development of tidal areas with acknowledgement of ecosystem services; and (e) To join the international dialogues and organize international conferences and short courses to promote interdisciplinary and participatory land and water planning and management in tidal areas; and (f) To collaborate with other related working groups actively, and to exchange relevant experiences amongst NCs and support for developing, and least developed countries.

**Website:** [http://icid-ciid.org/inner\\_page/109](http://icid-ciid.org/inner_page/109)

**WG-SDTA Agenda Item 1: Action Taken Report by Chair<sup>1</sup>**

1. The Chair will present the report on the actions taken on the decisions and proposals of the Working Group at its last meeting held on 26 October 2020 (virtually).
  2. The Egyptian National Committee of ICID (ENCID) has nominated Dr. Dina Saleh (Egypt) for the membership of WG. While Indian National Committee of ICID (INCID) has nominated Mr. Alok Paul Kalsi (India) for the membership of WG.
  3. Dr. Ikuo Yoshinaga (Japan), Secretary of the WG desired to step down from the Japanese National Committee (JNC-ICID) due to his transfer in another department. JNC-ICID will send new nomination/s for the membership of the WG.
- SUPP:** Vide e-mail of 04 November 2021 received from JNC-ICID and nominated Dr. Hiroki Minakawa (Japan) for the membership of WG in place of Dr. Ikuo Yoshinaga.
4. During the virtual meeting on 20 July 2021, Mr. Paavan Kumar Reddy (India), Young Professional, selected as new Secretary of the working group.
  5. Chair in consultation with Vice Chair, Secretary of the WG and the Central Office have updated the membership of the WG as given at **Annex 1** (*refer electronic version for latest list*). New nominations, if any, for the membership received will be dealt suitably after the meeting.

**WG-SDTA Agenda Item 1.1: A brief report of Online/WebEx Meeting of the Group, 20 July 2021**

6. The WG-SDTA organised its first virtual meeting on 20 July 2021. Dr. Rey-Chy Kao chaired the meeting which was attended by Dr. (Ms.) Hsiao-Wen Wang (Chinese Taipei Committee); Prof. Budi Santoso Wignyosukarto (Indonesia); Dr. Jeongryeol Jang (Korea); Dr. Vijay K. Labhsetwar (India); Mr. Paavan Kumar Reddy, Young Professional (India); Mr. Alok Paul Kalsi (India); Ms. Elena, Secretary to Chairman of the WG; and Dr. B.A. Chivate, Director (Technical), ICID Central Office, New Delhi. Dr. Ragab Ragab (UK), President of ICID has also attended the online meeting of the WG as Special Invitee.
7. During the virtual meeting, WG discussed the issues about the new membership; Action Plan 2030 (Road Map to ICID Vision 2030), International Workshop plan for 73<sup>rd</sup> IEC meeting & 22<sup>nd</sup> ICID Congress in October 2022 at Adelaide, Australia, Short Course on 'Tidal Predication and Land Subsidence Prevention and Reclamation' in 2021 & 2022; Side Event on 'Global challenges of land subsidence in tidal areas and the integrated solution' in 2021; Web-based seminars and e-Discussions in 2021-2022; updating MTD of the WG and prepare country paper (two-

<sup>1</sup> This will also include details of membership of WG as **Annex**

page) on '*Sustainable Development of Tidal Areas*'. In this regard, the online minutes of the WG-SDTA ([https://www.icid-ciid.org/icid\\_data\\_web/min\\_sdta\\_webmeeting.pdf](https://www.icid-ciid.org/icid_data_web/min_sdta_webmeeting.pdf)) have been circulated to the members of the group for their information. Chairman may like to apprise the members during the WG meeting.

8. Based on the virtual meetings of the Working Groups (WGs)/Task Forces (TFs), Dr. Ragab Ragab (UK), President of ICID discussed various activities of the WGs/TFs during the second monthly meeting with ICID Central Office on 07 June 2021. President Dr. Ragab has suggested ICID Central Office to contact the Chair, Vice-Chair and Secretary of the WGs/TFs and request them to organize at least two virtual meetings in a year apart from the physical meetings organized during the annual IEC meetings of ICID. Accordingly, ICID Central Office has communicated with the Chair, Vice Chair and Secretary to organize virtual meeting. A dedicated webpage "**ICID Workbodies Virtual Meeting**" has been created where minutes of the virtual meetings of the WGs can be referred to.

**WG-SDTA Agenda Item 2: ICID Action Plan 2030: Activities on Sustainable Development of Tidal Areas**

9. At the virtual meeting (2020), WG reviewed the Action Plan 2030 (Road Map to ICID Vision 2030) based on the new mandate by updating the activities on sustainable development of tidal area issues and provided updated action plan for 2018-2023 as indicated in the **Annex 2**. During the first virtual meeting, it was noted that Chairman will revise Action Plan 2030 of the WG in consultation with members of the group. WG Chair will provide further update the program of Road Map to ICID Vision of the group, if any.

10. It was also noted that the international workshop (2019) papers, was to be reviewed in 2020 to select advanced papers for publishing a Special Issue in 2021. Further, Chair has revised the papers for reviewing in 2021 and will be published in 2022. In this regard, the WG has invited Professor Hsiao-Wen Wang (Chinese Taipei Committee) to join the organizing academic committee for reviewing papers based on her experiences of the previous publication of the Special Issue paper. WG Chair / Prof. Hsiao-Wen Wang will provide further updates during the WG meeting.

**WG-SDTA Agenda Item 3: Upcoming WG Events**

**WG-SDTA Agenda Item 3.1: International Workshop on 'Integrated Solution for Irrigation and Drainage Tails and Land Subsidence in Tidal Areas' in 2022 at Adelaide, South Australia**

11. It was decided that WG will organise an International Workshop on '**Integrated Solution for Irrigation and Drainage Tails and Land Subsidence in Tidal Areas**' during the 73<sup>rd</sup> IEC meeting & 24<sup>th</sup> ICID Congress in October 2022 at Adelaide, Australia in place of 2021. In February 2021, ICID CO has requested Chair to share a brief announcement, like call for papers (*scope, theme, sub-themes, identify speakers, deadlines for inviting abstracts/papers from authors etc.*) for the international workshop of the WG. In this regard, Chair will discuss and collect the suggestions for preparation of the announcement/call for papers of international workshop with the members of the group as discussed during the first virtual meeting of the WG held in July 2021. WG Chair will provide further updates in this regard.

**WG-SDTA Agenda Item 3.2: Short Course titled 'Tidal Prediction and Land Subsidence Prevention and Reclamation' in 2021**

12. It was decided to organize a Short Course titled '*Tidal Prediction and Land Subsidence Prevention and Reclamation*' in 2021 & 2022 at National Cheng Kung University, Taiwan. During the first virtual meeting of the WG, it was decided that the Short Course will be organised through online basis and share the certificate to the participants. Further, President Dr. Ragab Ragab emphasized that the training courses which are very important to young professionals and suggested the training courses might be free to the members, especially young professionals to motivate more members to join the course. In this regard, Chair will prepare 'background note' along with draft program (date/time) of the short course of training program. Chair will provide further updates during the WG meeting.

**WG-SDTA Agenda Item 3.3: Side Event of the Working Group on SDTA in 2021**

13. At last meeting (2020), the WG decided to defer the Side Event on 'Global challenges of land subsidence in tidal areas and the integrated solutions' (tentative). During the first virtual meeting of the WG held in July 2021, it was noted that Chair will prepare the announcement of the Side Event in consultation with members of the group. In this regard, Chair, Vice-Chair and Secretary of the WG-SDTA will take this responsibility for preparing the plan for the Side Event of the WG. Chair of the WG will provide further updates of the Side Event during the meeting.

**WG-SDTA Agenda Item 3.4: Web-based seminars and e-Discussions**

14. During the last meeting, The WG decided to organize a web-based seminar on 'Drainage Capacity and Flood Disaster in Tidal Areas under a Variable and Changing Climate' and e-Discussion on 'Integration of Drainage Tail, Land Subsidence, Groundwater and management in Tidal Areas' based on the mandate of the WG. During the first virtual meeting of the WG held in July 2021, Dr. Ragab Ragab, President of ICID suggested, deciding a certain month that the members of the WG would prepare the program for the web-based seminar (webinar) and e-discussions, in advance. Further, President Dr. Ragab also suggested that the WG may organize a Webinar which

is a suitable time before starting the next IEC meeting to be held in November 2021 at Marrakesh, Morocco. Chair of the WG will prioritize planning activities with reference to topics of common interest among members 'countries.

This year, the technical working groups of ICID have organised several webinars based on the mandate of the group which are available at <[https://icid-ciid.org/inner\\_page/66](https://icid-ciid.org/inner_page/66)> The group may discuss and suggest suitable topics along with names of expert for organizing webinars. Chair may provide further updates at the WG meeting.

**WG-SDTA Agenda Item 4: Ground Water and the Land Subsidence on the Coastal Areas**

15. During the last meeting, the WG discussed the issue related with 'Ground water and the land subsidence on the coastal areas' and agreed to pursue groundwater and land subsidence issues. Further, Dr. Ching-Feng Ding (Chinese Taipei Committee) presented on experience on ground water and land subsidence in Chinese Taipei Committee and Dr. Ikuo Yoshinaga (Japan) was also presented on experience of land subsidence in Japan during the last meeting of the WG. Further, ICID Central Office requested WG Chair to identify a lead person to take further course of actions under this item. The Chair may apprise the members on further updates during the meeting.

**WG-SDTA Agenda Item 5: Dissemination of activities of WG**

16. At last meeting (2020), the WG updated the website [http://icid-ciid.org/inner\\_page/109](http://icid-ciid.org/inner_page/109) with new membership list, agenda, minutes, paper presentations, publications etc. It was noted that the members of the WG agreed to provide at least one-page of materials / articles / papers / presentations / reports. Accordingly, WG Chair requested the members of the WG to share information, knowledge & experiences and provide papers, presentations, articles, reports etc. related to scope of the WG to ICID CO for uploading on the WG website for wider dissemination and knowledge enrichment. Accordingly, the ICID CO has followed-up with the members and requested to provide the materials (papers, articles and documents) related to the mandate of the group. WG members may deliberate on evolving mechanism for sharing of information on regular basis.

**WG-SDTA Agenda Item 6: Updating Multilingual Technical Dictionary (MTD)**

17. During the first virtual meeting, it was noted that Dr. Ikuo Yoshinaga (Japan) has stepped down from membership of WG-SDTA. The Chair will select a new member for the MTD as Nodal person in the next meeting of the WG in November 2021 at Marrakesh, Morocco. Chair will apprise the members at the WG meeting.

**WG-SDTA Agenda Item 7: A format for the 2-page 'Country Note' – Sustainable Development of Tidal Areas**

18. In order to provide the 2-page country papers for the WG-SDTA, Ir. Henk Rizema (The Netherlands) contributed his country note on 'Coping with Climate Change in a Densely Populated Delta: A Paradigm Shifts in Flood and Water Management in The Netherlands' in 2020 and Dr. Ikuo Yoshinaga (Japan) also contributed his country note on 'Sustainable Development in Tidal Areas in Japan' in 2021. ICID CO has again requested the members to share their two-page country papers for the WG. In this regard, a questionnaire in a format for the two-pages 'Country Note' (**Annex 3**) for preparing the document. Chair will provide further updates at the meeting.

**WG-SDTA Agenda Item 8: Any other business**

19. **ICID Members' Profile Section:** As a new initiative, ICID has launched a new website (<https://icid-ciid.org>) as part of ICID's 70th Anniversary Celebration to meet the new web technologies. One of the newly added web features provides WG members access to their profile section using their dedicated account. ICID Central Office vide e-mail dated 09 July 2021 <<https://icid.bmeurl.co/C7D4D2E>> informed all members on how to access their account and change their password to maintain accuracy. Members are requested to review and update their information using their credentials and help us to maintain accurate information.

20. **Register on World Irrigation Projects (WIP):** ICID has taken an initiative to document the development of irrigation projects in the world by establishing an online Register on "World Irrigation Projects (WIP)". WIP will fulfil the need for a much-awaited global repository of information in systematic irrigation and agricultural water management. Irrigation projects having 5000 Hectares and above of Gross Command Area can submit their information for inclusion in the register. The irrigation projects approved by National Committee/ ICID Central Office for inclusion are entitled to Certification. Members are also requested to encourage all irrigation project owners, managers, and researchers across the world and especially in our member countries for contributing to the register. This facility is also extended to non-member countries if the information is received from an authorized agency. The review process and other details are outlined on the portal <<https://wip.icidevents.org/>> in detail.



**NOTES FOR CHAIRPERSON:**

1. Draft minutes of this meeting to be submitted to ICID Secretariat at Marrakesh, Morocco after the meeting.
2. Chair to participate and present the WG report to PCTA meeting on 29 November 2021.



**A. Members and their attendance at 2019 and 2020 Meetings**

Sl. No.	Members	Member from (Year)	2019		2020		Remarks
			Self	Contributed by mail	Self	Contributed by mail	
1.	Dr. Ruey-Chy Kao (Chinese Taipei Committee), <b>Chairman</b>	2017	•		•		
2.	Ir. Hj. Nor Hisham bin Mohd Ghazali (Malaysia), <b>Vice-Chairman</b>	2017	•		•		
3.	Dr. Ikuo Yoshinaga (Japan), <b>Secretary</b>	2018	•		•		
4.	Dr. (Ms) Hsiao-Weng Wang (Chinese Taipei Committee)	2017	#		#		Young Professional
5.	Prof. Budi SantosoWignyosukarto (Indonesia)	2017	•		•		
6.	Prof. Zhang Zhanyu (China)	2017	•		•		
7.	Dr. Jeongryeol Jang (Korea)	2017	•		#		
8.	Mr. Paavan Kumar Reddy (India)	2017	•		•		Young professional
9.	Dr. Vijay K. Labhsetwar (India)	2018	•		•		
10.	Dr. Surat Thanusin (Thailand)	2018	•		#		
11.	Secretary General, ICID						
<b>Observers/Permanent Observers</b>							
12.	Ir. Henk Rizema (Netherlands)	2020					
13.	Dr. Jo Jin Hoon (Korea)						
14.	Mr. Robiyanto Hendro Susanto (Indonesia)						
15.	Mr. Harry Denecke (FAO)						

**A. New nominations received from the National Committees**

	Name	Country	Remarks
1.	Dr. Dina Salesh	Egypt	Recommended as member, subject to his/her presence else provisional member
2.	Mr. Alok Paul Kalsi	India	Recommended as member, subject to his/her presence else provisional member
3	<b>Dr. Hiroki Minakawa in place of Dr. Ikuo Yoshinaga.</b>	<b>Japan</b>	<b>Recommended as member, subject to his/her presence else provisional member</b>

<sup>1</sup> Through representation



**Annex 2** [Appendix XII, Item 2]

**ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WG-SDTA (revised in July, 2020)**

	Activity	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021	Milestone for Year 2022	Milestone for Year 2023
<b>Goal B: Be a catalyst for change in policies and practices</b>									
<b>Strategy B1 :</b> Supporting Development of Appropriate Policies	1.1 Promoting Sophisticated water-saving irrigation development with IOT and water-saving irrigation model techniques exchanges	Technical report, workshop proceedings and water industry web site	Preparing: Promoting demonstrative plan	Site tests demonstration: Hardware construction and software tests	Site tests demonstration: Hardware, software and system control integrating process	Site tests plan: Workshop observation	Examination Plan results & improvement	Examination Plan results & improvement	Examination Plan results & improvement; expand to other areas
	1.2 Promoting up-to-date water-saving experience exchange	As above	As above	As above	As above	As above	As above	As above	As above
	1.10 Sustainable drainage management experience exchange	Internet of Things Water industry workshop					Web-based seminars on SDTA	Web-based seminars on SDTA	Internet of Things Water industry workshop
<b>Goal C: Facilitate exchange of information, knowledge and technology</b>									
<b>Strategy C4 :</b> Compile, Collate and Share Knowledge and Experiences	4.26 Special Issue of ICID Journal on SDTA	Special issue of IRD	Announcement of special issue, inviting authors etc.	Setup Review Committee for selected papers based on the workshops	Submission of final drafts	Review Papers: 2019 International workshop papers	1. Publishing Special Issue of IRD 2. 2021 International workshop "Integrated Solution for Irrigation and Drainage of Drainage Tails and Land Subsidence in Tidal Areas"	Review Papers: 2021 International workshop papers	Publishing Special Issue of IRD
<b>Strategy C5 :</b> Dissemination of Data, Information, Tools, Knowledge & Know How	5.8 Develop and maintain the ICID web site as a knowledge hub	On-line					Develop and maintain the ICID web site as a SDTA knowledge hub	Update and maintain the ICID web site as a SDTA knowledge hub	Update and maintain the ICID web site as a SDTA knowledge hub
<b>Goal E: Encourage research and support development of tools to extend innovation into field practices</b>									
<b>Strategy E3 :</b> Develop and	3.2 The application for output of development tools from			Prepare tidal prediction and typhoon wave model		Prepare Short Course (2021)	Prepare "Tidal Prediction and Land Subsidence Prevention	Prepare "Numerical Simulation of estuary and drain-	Prepare "Numerical Simulation of estuary flood and

	Activity	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021	Milestone for Year 2022	Milestone for Year 2023
Promoting  Tools for AWM	academic institutions						and Recla- mation"	nage flood in Tidal areas"	coastal flow field"
<b>Goal F: Facilitate capacity development</b>									
<b>Strategy F3:</b> Technical Training of Young Profes- sionals from Member Countries	3.7 workshop/Train- ing Workshop on Sustainable Development of Tidal Areas	Technical transfer and internet information short course /training workshop	Scope, theme and announcem- ent		Short Course/Trai- ning Workshop on SDTA		Short Course / Training Workshop on SDTA	Web- based seminars on SDTA	Short Course / Training Workshop on SDTA
	3.8 To launch e-Discussion on Sustainable Development	E-discussion	E- discussion on Sustainable Developme- nt of Tidal Areas		e-Discussion on SDTA		e-Discussion on SDTA	e-Dis- cussion on SDTA	e-Dis- cussion on SDTA

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)



**DRAFT FORMAT FOR 'COUNTRY NOTE'**

**Title:**

- Country Note – Sustainable Development of Tidal Areas in .....???
- Name of the country)

**Author(s)**

- Name, \_\_\_\_\_
- Designation, \_\_\_\_\_
- Organization, \_\_\_\_\_
- E-mail ID \_\_\_\_\_

**CONTENTS:**

- (1) Introduction
- (2) Topography/soils and natural characteristics'
- (3) Climate and rainfall
- (4) Sea conditions in front of the coast and river regimes
- (5) Sustainable development and management options in tidal areas (design criteria for drainage and flood protection provisions)
- (6) Risk on tidal areas due to changes in land use, land subsidence and impacts of global climate change (rainfall, river regimes, drought)
- (7) Potential challenges and opportunities for development and management of tidal areas
- (8) ...

**Page limitation:** Roughly 2 pages (1500 words) + 1 page for the table

**Note:** (1) Please correct above items (add/delete) and improve as much as possible. (2) A informative table may be generated to show important SDTA related statistics to get a glimpse of the SDTA in the country. The draft table is shown on the next page. (3) The Format for the Country Note is developed by Dr. Vijay K Labhsetwar in consultation with Prof Dr Bart Schultz.

Please see next page.





**Table: Important characteristics on SDTA in ??? (Name of the country)**

*Note: Please fill-in the information as much as possible and leave out the rest*

Sl. No.	Particulars	Situation in 2020	Expected in 2050	Comments, if any
1	Topography: <ul style="list-style-type: none"> <li>• area in ha</li> <li>• surface level in m+ MSL</li> </ul>			
2	Population			
3	Value of public and private property			
4	Rainfall in mm: <ul style="list-style-type: none"> <li>• annual</li> <li>• 1 day 1* per 10 year</li> </ul>			
5	Sea level: <ul style="list-style-type: none"> <li>• low tide</li> <li>• high tide</li> <li>• storm surge</li> </ul>			
6	River water level <ul style="list-style-type: none"> <li>• low flow</li> <li>• average flow</li> <li>• peak flow</li> </ul>			
7	Land use in %			
<i>Urban area</i>				
8	Landfill or polder			
	Drainage system: <ul style="list-style-type: none"> <li>• percentage of open water</li> <li>• discharge sluice and or pumping station</li> <li>• capacity</li> <li>• preferred conditions</li> <li>• design conditions</li> </ul>			
9	Flood protection: <ul style="list-style-type: none"> <li>• risk of failure</li> </ul>			
<i>Rural area</i>				
10	Landfill or polder			
11	Drainage system: <ul style="list-style-type: none"> <li>• percentage of open water</li> <li>• discharge sluice and or pumping station</li> <li>• capacity</li> <li>• preferred conditions</li> <li>• design conditions</li> </ul>			
12	Flood protection: <ul style="list-style-type: none"> <li>• risk of failure</li> </ul>			

