

# Significance of the Envisaged Climate Changes in Light of the ICIDI Vision

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## Abstract

- In this paper, the challenges to the climate change issues of the ICID community are reviewed as the current subjects of the AWM in the light of the ICID Vision 2030 and the Action Plan for it.
- In its processes, the complexity of the climate change issue and uncertainty of impact assessment and future projection are confirmed.
- Even with these constrains, the immediate actions are needed, and with the increasing available information, the society should formulate the system for the co-design or co-production of the stakeholders in different levels against the changing climate.
- **KEY WORDS:** climate change; agricultural water management; SDG; ICID Vision 2030; activity plan.

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**A ROAD MAP TO ICID VISION 2030**



**A WATER SECURE WORLD  
FREE OF POVERTY AND HUNGER**

**VISION**  
Water secure World, free of poverty and hunger achieved through sustainable rural development".

**MISSION**  
To work together towards sustainable agriculture water management through inter-disciplinary approaches to economically viable, socially acceptable and environmentally sound irrigation, drainage and flood management.



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## Six Organizational Goals in ICID Vision 2030

- Goal A : Enable Higher Crop Productivity with Less Water and Energy
- Goal B : Be a Catalyst for a Change in Policies and Practices
- Goal C : Facilitate Exchange of Information, Knowledge and Technology
- Goal D : Enable Cross-Disciplinary and Inter-Sectoral Engagement
- Goal E : Encourage Research and Support Development of Tools to Extend Innovation into Field Practices
- Goal F : Facilitate Capacity Development

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## The activities of the WG-CLIMATE for 2017 to 2021

- The activities of the WG-CLIMATE for 2017 to 2021 are only for the Goals B and D, while its activities are to be involved in the whole process of the ICID activities due to the characteristics of climate change.
- The activities that WG-CLIMATE is responsible to implementation under the Action Plan cover the following items:

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## Road Map to ICID Vision

The expected activities/outcome/output of the WG under the Action Plan on the Road Map to ICID Vision 2030:

- **Goal B: Be a catalyst for change in policies and practices**
  - B2 Strategy: Promoting Risk Management Approaches
    - Promoting risk management approaches
  - B3 Strategy: Integrated irrigation and drainage management
    - Integrated irrigation and drainage management
    - Organize introduction of the cases to be applied to other regions
  - B6 Strategy: Helping development of climate change adaptation strategy
    - Helping development of climate change adaptation strategy
    - Develop guideline for water management practices under changing climate
    - Prepare position paper on smart water management for mitigating climate change
    - Develop position paper on adaptation to climate change
- **Goal D: Enable cross disciplinary and inter-sectoral engagement**
  - D2 Strategy: Develop technical documents in non-technical language
    - Developing technical documents in non-technical language Integrated assessment of climate change impacts brief guidelines with compilation of case studies.

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Figure  
SDGs,  
6 Organizational Goals of  
the ICID Vision 2030,  
and Activity Plan of WG-  
CLIMATE

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## CONCLUSION

- In this paper, the challenges to the climate change issues of the ICID community are reviewed in the context that these issues are the currently main topic of sustainable agricultural water management (AWM), in the light of the UN-SDGs and the ICID Vision 2030.
- In the processes in this paper, the urgency of the climate change issues is confirmed, and its comprehensiveness, complexity and uncertainty of impact assessment and future projection are also recognized as lying at the base of the issues. Even with these conditions and constraints, the actions are needed to be taken without delay.
- Therefore, all stakeholders at different levels are to be involved in sharing the latest information, even with higher uncertainty and less accuracy.
- While the necessary information is surely increasing and is to be followed by much available information, the society should formulate the system or area for the co-design or co-production of the stakeholders.
- One of the most important, and unavoidable positions it to consider the people or organization, who are vulnerable to the changing climate, such as small-scale farmers in rural areas of developing countries.

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## CONCLUSION

- The ultimate goals of the ICID at this stage is to establish the world free of poverty and hunger with sustainable agricultural water management.
- Being free of poverty and hunger is the base for well-being of the people, and the well-being is also established with superior inter-connectedness of the stakeholders participating sustainable water management.
- It must consist basically of the sense of participation in the network, the sense of mutual reliance in the network, and the sense of contribution to the network.
- The climate change could hopefully be the trigger to re-organize the community and the inter-connectedness in sustainable water management, resulting in the free of poverty and hunger, leading to the well-being of the people.
- While the target year of the Vision of ICID is 2030, and its Action Plan is defined for 2017 to 2021, the climate change issue will keep on going for the period of centuries.