





PRESENTATION OUTLINE



- INTRODUCTION
- SCOPE OF WATER RESOURCES DEVELOPMENT
- MANAGEMENT OF IRRIGATION SCHEMES
- PRESENT CONDITION, PROBLEMS AND CONSTRAINTS
 - LESSONS LEARNT
 - FUTURE OUTLOOK
- CONCLUSION AND RECOMMENDATION

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INTRODUCTION



- HISTORICAL OVERVIEW OF IRRIGATION DEVELOPMENT AND MANAGEMENT
- EARLY INTRODUCTION OF TECHNICAL IRRIGATION

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SCOPE OF WRD



- Irrigation Works were practically suffered from problems due to the lack of O&M;
- The remaining function was only between 40% and 60% of the overall capacity;
- Earlier programs were concentrated on “Mass Rehabilitation” and O&M of the schemes.

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MANAGEMENT OF IRRIGATION SCHEMES



- At the Central Government Level;
 - At the Provincial Level;
 - At the District Level;
 - P.I.M. through Water User Association (WUA) and WUA Federation (WUAF).

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PRESENT CONDITION, PROBLEMS & CONSTRAINTS



■ Identified Problem Areas

(Lack of: HRD; Institutional Development; O&M Technology; Financial Resources; and Regulatory and Legal Instruments / Enforcement).

■ I&O Development:

(The challenges are I&O for strengthening at all levels -- Central, Provinces, Districts).

■ IDM Technology:

(Demanding proper balance: Hard Component & Soft Component → Sustainable O&M)

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LESSONS LEARNT



■ Zero Growth Policy:

(10 years “Zero Growth” Policy [1994-2004], has entailed gap between young & old generation).

■ Capacity Development:

(Capacity Building and capacity development as well as institutional and organizational settings becoming most urgent priority).

■ Sustainable O&M:

(Extensive & consistent payment of “Irrigation Service Fee”, should be based on Need Based Budget -- NBB)

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FUTURE OUTLOOK



■ Integrated instead of sectoral approach:

(Development & management cannot be implemented in isolation with other determinant factors of success or failure of irrigation implementation).

■ Environmentally O&M Technology:

(The future of O&M irrigation in Indonesia should be geared toward water saving technology, and appropriate IOA strengthening).

■ Five interrelated aspects:

(Appropriate HRD; Effective IOA; Appropriate O&M Technology; Adequate O&M Funds; and Effective regulatory and legal instruments with sensible enforcement.)

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CONCLUSION & RECOMMENDATION



- Indonesia is currently trying hard to formulate the most effective and significant IOA for sustainable I O&M.
- Among the many lessons learnt, it is apparent that the following **seven aspects** are highly recommended:
- {Implementation of appropriate: **(1)** Data collection and processing technology; **(2)** Planning approach for sustainable O&M; **(3)** Effective Public Awareness Campaign for project implementation; **(4)** Capacity Building and development of Human resources development; **(5)** Balance between “Hard and Soft Components; **(6)** O&M Simultaneously without Isolating O and M; **(7)** Participatory approach for the development and O&M process}

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**THAT'S ALL!
THANK YOU**

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