

# THE ROLL OF WATER IN ECONOMIC DEVELOPMENT

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# OUTLINE

- Water Necessary or Sufficient
- Water & Future Development
- Measuring Growth
- Increasing Productivity in Agriculture

# PRINCIPLE

**\*\* Water is a *Necessary* but  
*NOT* a *Sufficient* condition  
for economic development**

**WATER AND  
ECONOMIC  
DEVELOPMENT IN  
THE FUTURE**

# ...FUTURE DEVELOPMENT

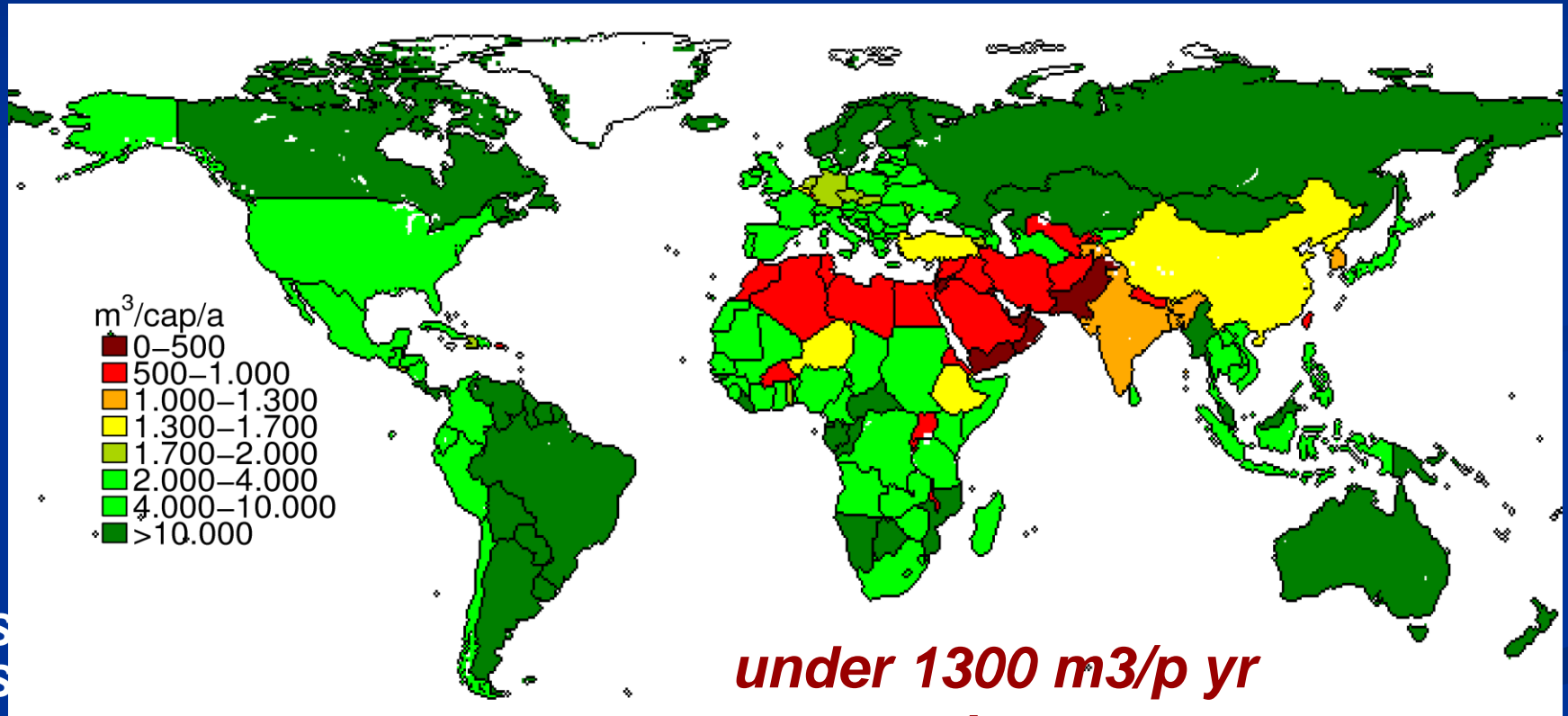
**\*\* GLOBAL WATER SCARCITY  
WILL INTENSIFY**

# WATER-SHORT COUNTRIES

Status Year	STRESS	SCARCe	TOTAL
1995	11	18	29
2025	19	29	48

# 2050: Total water availability

*Blue + green water*



# ...FUTURE DEVELOPMENT

**\*\* GLOBAL WATER SCARCITY  
WILL INTENSIFY**

**\*\* AGRICULTURE SECTOR  
WILL BE VULNERABLE**



**WHAT IS ECONOMIC  
GROWTH AND HOW IS IT  
MEASURED??**

# DEFINING GROWTH

**\*\* GROSS DOMESTIC  
PRODUCT (GDP)**

**\*\* INCREASED  
PRODUCTIVITY**

# INCREASING THE PRODUCTIVITY OF WATER IN AGRICULTURE

# INCREASED PRODUCTIVITY

## 1. Better Management of Networks

# INCREASED PRODUCTIVITY

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2. Better Planning

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3. Account for Non-Uniformity

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2. Better Planning
3. Account for Non-Uniformity
4. Better Scheduling

# INCREASED PRODUCTIVITY

1. Better Management of Networks
2. Better Planning
3. Account for Non-Uniformity
4. Better Scheduling
5. Monitor Performance



# INCREASED PRODUCTIVITY

6. Understand social & cultural contexts.

# SUMMARY

THANK YOU

