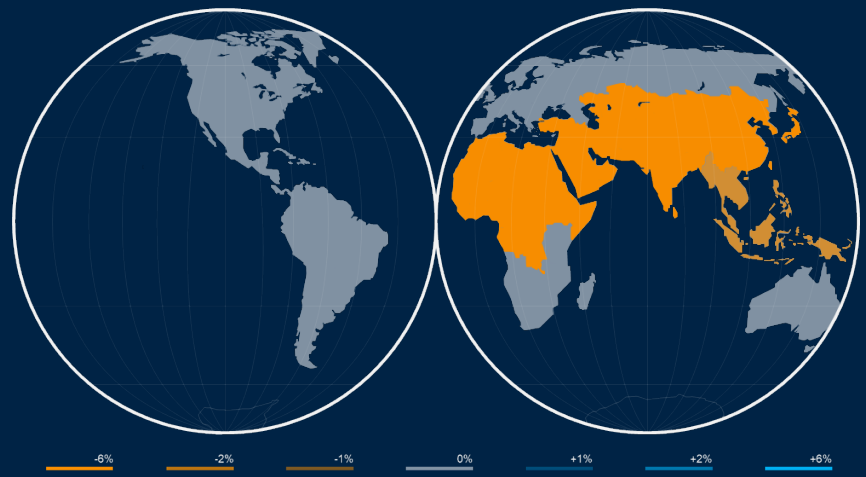




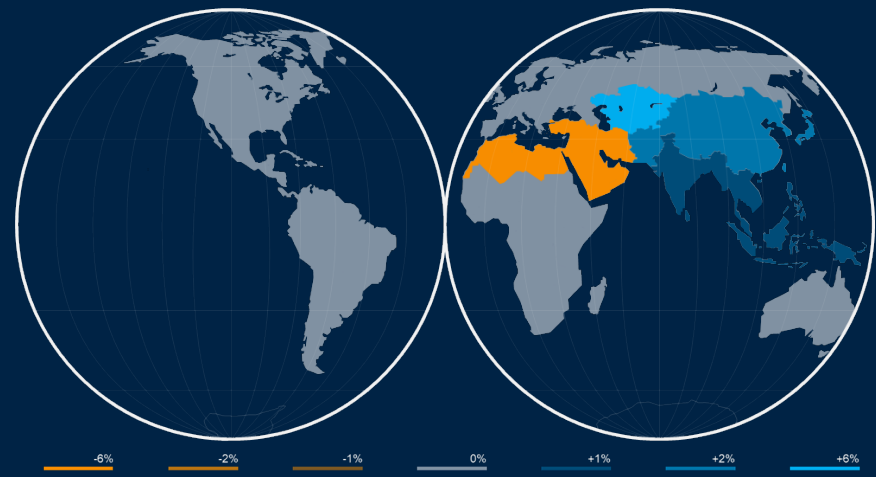
# IMPACT OF SCARCITY ON GROWTH

Today's Path



# IMPACT OF SCARCITY ON GROWTH

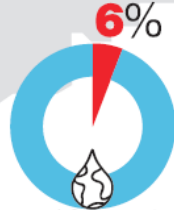
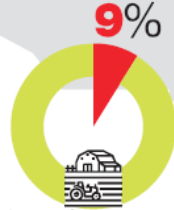
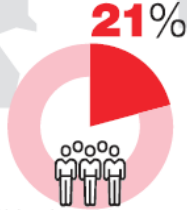
A Better Path



# A New Era of Water Governance



China is the **world's 2<sup>nd</sup> largest economy** with GDP of over **USD 12.2 trillion**



**700 billion m<sup>3</sup>**

**THE STRICTEST WATER RESOURCES MANAGEMENT SYSTEM, KNOWN AS THE THREE RED LINES, REQUIRES BY 2030 TO**

**40m<sup>3</sup>**

Cap the national annual water use at 700 billion cubic meters

**95%**

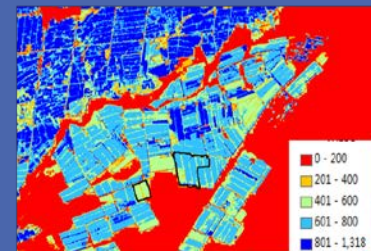
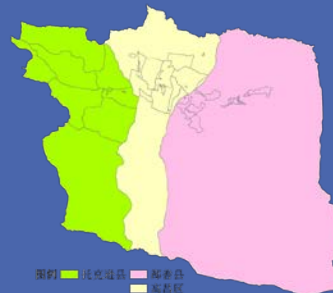
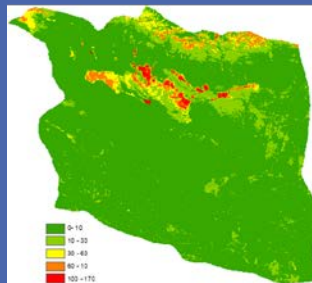
Reduce water use to 40m<sup>3</sup> per USD 1450 industrial added value and increase irrigation efficiency to 60 percent

95 percent of major water function zones must comply with water quality standards, and all sources of drinking water must meet national standards

Source: Authors

# Allocate Water Consumption Target

Basin → County → Farmers/WUAs



Moving Toward  
Water  
Consumption  
Management

## Reducing Actual ET to Achieve Target ET, while Increasing Farmer Incomes

### Agronomic Options

- *Crop Pattern Adjustment*
- *Mechanical Water Storage and Moisture Conservation*
- *Covering Technology...*



### Engineering Options

- *Sprinkler Irrigation*
- *Drip Irrigation*
- *Inadequate Irrigation ...*



### Political and Institutional Options

- *ET-Based Water Rights*
- *ET-Based Water Pricing*
- *Irrigated Land Reduction...*





# Thank you !

For more information:  
Marcus Wishart (Lead Water Resource Specialist)  
Email: [mwishart@worldbank.org](mailto:mwishart@worldbank.org)



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