

#### FAO's approach to Innovation In Water Management

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#### Trends in world food insecurity



#### What defines food security?

#### availability

- global, national, local, household
- Iand, water, inputs, technology, yields
- access
  - national, local, household, individual
  - prices, income, wealth
- utilization
  - individual
  - clean water, sanitation, health
- stability
  - variability in any of the above



#### Trends in Central Asia hunger

1.4

CALL NO.

APRIL 1

WORLD Region/subregion/ country [undernourishment	Total population	Number of people undernourished				Progress in number towards WFS	WFS trend
category]	2005–07	1990–92	1995–97	2000–02	2005–07	target = 0.5*	1990–92 to
	(millions)	(millions)				2005–07	
Central Asia	58.7	4.2	4.9	10.1	6.0	1.4	
Kazakhstan [1]	15.3	ns	ns	1.2	ns	na	na
Kyrgyzstan [3]	5.3	0.8	0.6	0.9	0.6	0.7	▼
Tajikistan [4]	6.6	1.8	2.4	2.9	2.0	1.1	
Turkmenistan [2]	4.9	0.3	0.4	0.4	0.3	0.9	<b>∢</b> ►
Uzbekistan [3]	26.6	1.1	1.2	4.7	3.0	2.7	

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# WHY agriculture is so important in the water debate?

Simply because globally agriculture water is:

• 70% of all fresh water withdrawals and

#### 90% of the consumption

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The unavoidable facts

Liters per day per personDrinking2-4Domestic use40-400Food needs1000-5000 (and more)

The good news is that 1% of water productivity gain in agriculture means 10% increase of availability for other uses

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# How to unlock the potential of irrigated agriculture ?

- Sectoral approaches have shown their limits
- Only integrated management can cope with the challenges of food security, energy, domestic water and sanitation, environment, etc.., that is IWRM
- MUS (Multiple Uses of Water services) is a local practice of integration, FAO promotes the concept of MUS

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### How to unlock the potential of irrigated agriculture ?

Investment in agriculture remains unacceptably low: national budgets and ODA

Investment in agriculture at least twice as effective to combat poverty

Modernising existing irrigation schemes

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# WATER WATER

#### Conclusions

- The world needs to solve food insecurity not only for its own value BUT also for all the generated effects on MDGs, and to unlock water for other uses.
- Increase focused investment in irrigated agriculture to support livelihoods
- Agricultural trade agreements: regional

### WATER

Theme 2.2 Contribute to food security by optimal use of water



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