# Implications for Nations of the Commodification of Water

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## Water as an Economic Good

The Global Debate Right to Water vs. Market Management

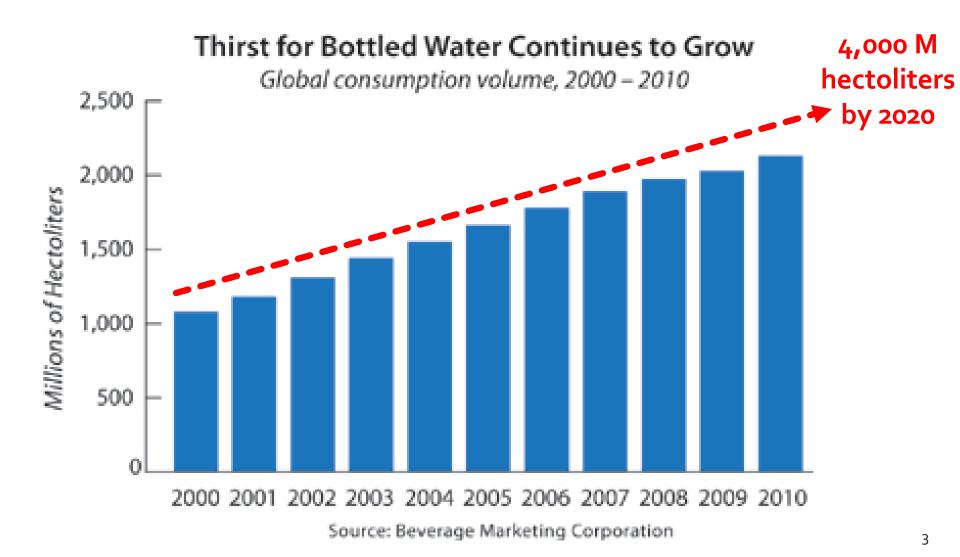


The Reality

- Bottled Water
- Bulk Water
- Virtual Water



## Water as an Economic Good: Bottled Water

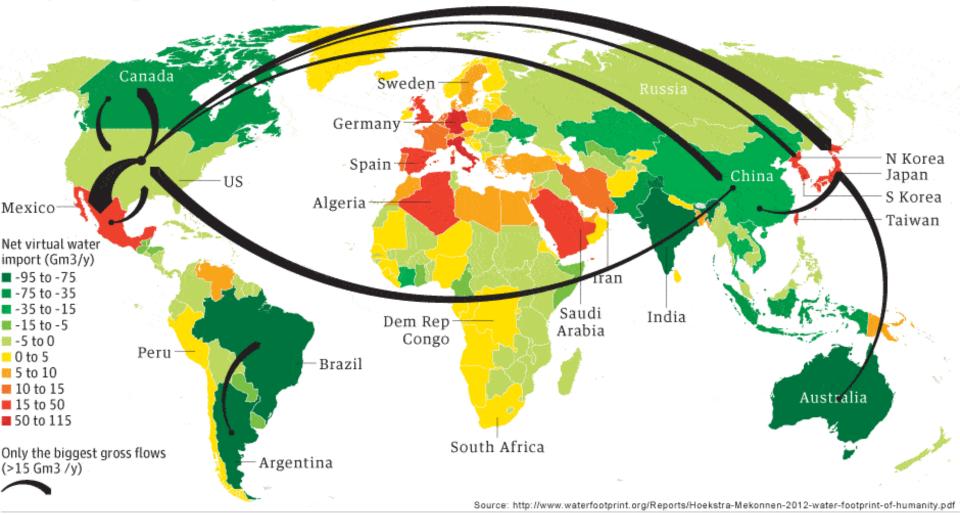


## Water as an Economic Good: **International Bulk Water Transfers**

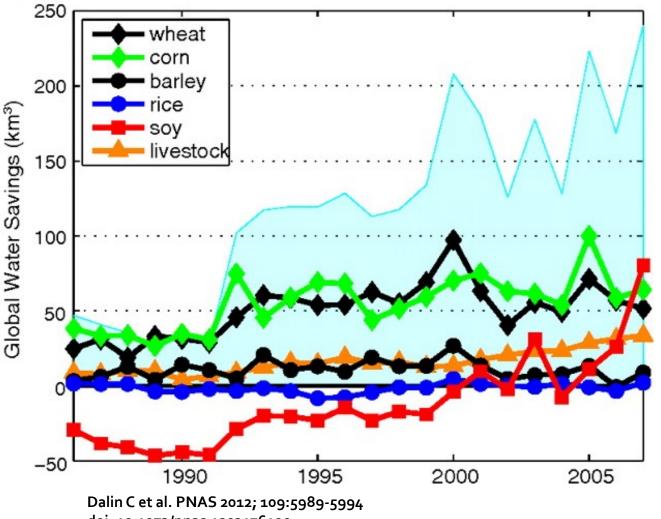


## Water as an Economic Good: Virtual Water

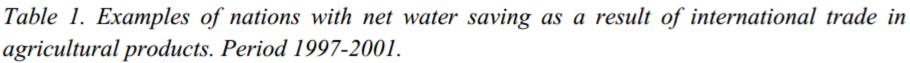
The exports and imports of water through food and commodities, 1996-2005



- Overall global water savings based on trade in virtual water
  - 4% in 2000
  - 9% in 2007



doi: 10.1073/pnas.1203176109



Country	Total use of	Water saving as	Water loss as a result of export of agricultural products <sup>2</sup> (10 <sup>9</sup> m <sup>3</sup> /yr)	Net water	Ratio of net
	domestic water	a result of		saving due to	water
	resources in	import of		trade in	saving to
	the agricultural	agricultural		agricultural	use of
	sector <sup>1</sup>	products <sup>2</sup>		products <sup>2</sup>	domestic
	$(10^9 \text{ m}^3/\text{yr})$	$(10^9 \text{ m}^3/\text{yr})$		$(10^9 \text{ m}^3/\text{yr})$	water
China	733	79	23	56	8%
Mexico	94	83	18	65	69%
Morocco	37	29	1.6	27	73%
Italy	60	87	28	59	98%
Algeria	23	46	0.5	45	196%
Japan	21	96	1.9	94	448%

Hoekstra A. (2010). The relation between international trade and freshwater scarcity, World Trade Organization, Staff Working Paper ERSD-2010-05 http://www.wto.org/english/res\_e/reser\_e/ersd201005\_e.pdf

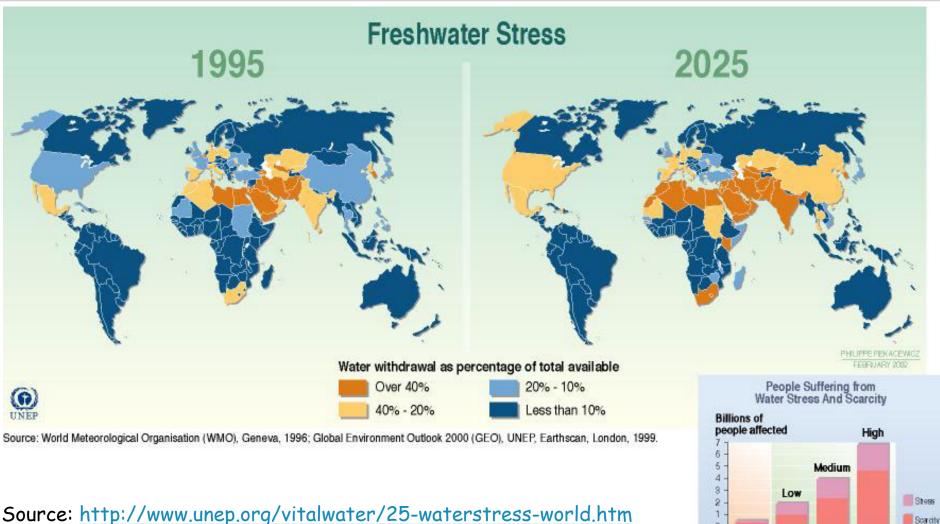
#### Importing Country

- Dependency
  - National security risk
  - Failure to develop backup in the event of market failure or drought in exporting country
- Effect on domestic agriculture
- Greater urbanization due to reduced agricultural activities
- Inability to afford imports

#### Exporting Country

- Increased water demand
- Decrease in water available for environmental and domestic purposes

### Local/regional water stress



n

1995

2050 Population Projections

9

#### Source: http://www.unep.org/vitalwater/25-waterstress-world.htm

#### Exporting Country (cont.)

- GATT = International system for regulating trade in goods and products and maintaining fairness in trade
- Is water a good or product under GATT rules? If yes:
  - Art. XI (parag. 1)
    - Prohibits measures (s.a. export restrictions) other than "duties, taxes and other charges"
    - Prohibits discrimination among domestic and foreign products, investors, and trading partners
- Exception to the Rules
  - Art. XX(b) Exception = "necessary for the protection of human, animal or plant life or health"
  - Art. XX(g) Exception = "relating to the conservation of exhaustible natural resources if such measures are made effective in conjunction with restrictions on domestic production or consumption"

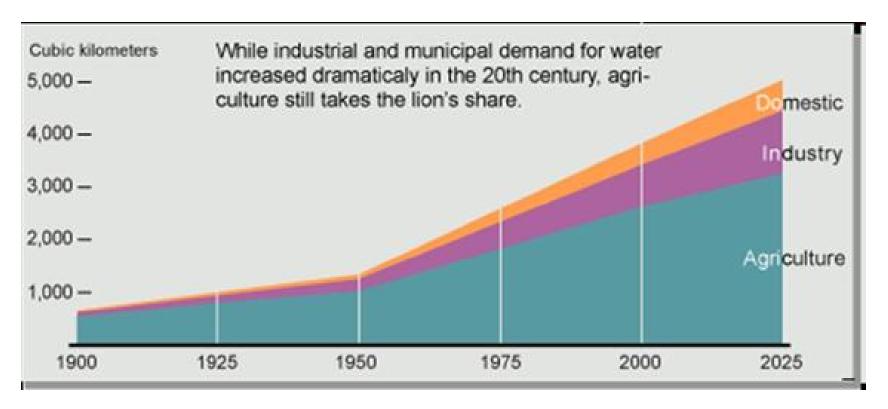
#### Exporting Country (cont.)

- GATT (and other trade agreements) = If water is treated as a commodity (cont.)
  - Art. XX Chapeau = exceptions must not be "applied in a manner which would constitute a means of *arbitrary or unjustifiable discrimination* between countries where the same conditions prevail, or a *disguised restriction on international trade*"

## Water as an Economic Good: Way Forward

- Balanced approach that recognizes
  - Water does has an economic value
  - BUT, water is *unique* from other natural resources and has non economic values (social, cultural, religious) that must be taken into account
- Commodified when packaged as beverage or captured within other commodities (virtual water)
- Exclude bulk water from GATT (and other trade agreements) to allow domestic restrictions based on domestic criteria and values

## Thank you!



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