



MADRID 1 DE JULIO FUNDACION BOTIN

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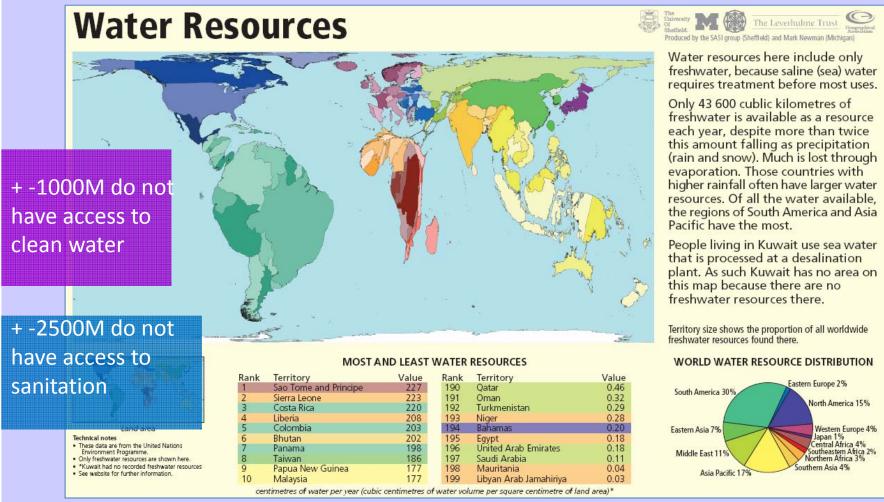




Distorted World Map: Surfaces proporcional to resource

A few months ago girl 7.000 million was born





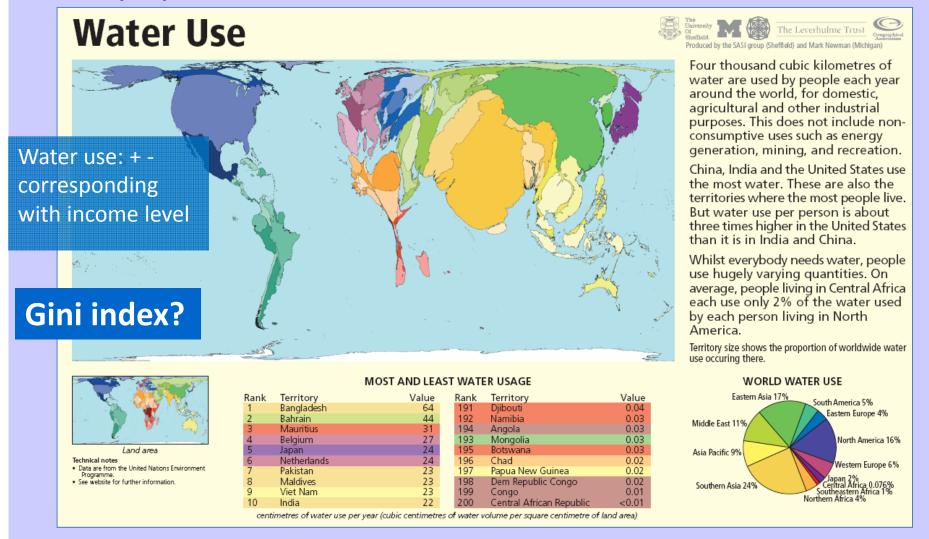
For some experts: "Before dying due to heat (CO2), we would die of thirst" In some emerging countries in a few years the price of water will be more expensive than the price of oil.

Problem of Resources or

Distorted World Map Problem of Management?

Requires good governance and cost recovery Good perspectives for the Water Business





A new concept: Virtual Water Trade through Food Trade Ex: every pepper suppose 70 l of water

Spanish model : good governance

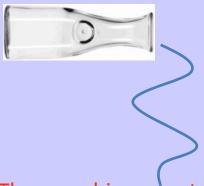
Spanish miracle?





Only country that has evolved from infrastructural underdevelopment to development in 25 years;
RAPPORT BIEHL:
Quantification of infrastructures
1985, Spain 50%
EU average.

Actually: 100%



The achievement of supplying 300l. per person/day in very dry cities in southern Spain would be equivalent to supplying 3000 hours of sun a year to the inhabitants of cloudy northern Europe cities.

- Spain: yellowbrown country, not green.
- Long tradition in good consumerproducer relationship
- The oldest free Court in Water Conflicts (Tribunal de las aguas de Valencia)

Spanish model: Good Governance Spanish miracle? "Marca Agua España"





SPAIN without infrastructure would make use of 8% of rainwater.

With 1500 dams and other constructions it uses 40%. In Central Europe Countries would make use directly 40%



In a central European city water is caught from the phreatic zone and taken home at 3-4 euros per m3.

Costs more than 4€ per m3 (EU average).

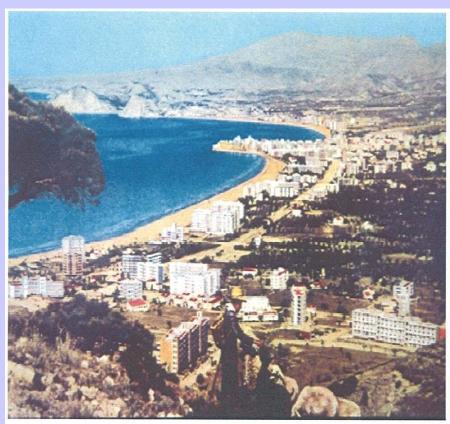
In Madrid, dams like El Atazar have to be build, water channeled for more than 70 Km and the cost is 1,5 euros per m3.

Spanish companies manage water in order to supply to over 100 million people outside Spain

Spanish model: good governance



- Multiplies by 10 its population in summer
- Mixed water sources: transferred, desalinization, groundwater and reutilization





BENIDORM 1960

BENIDORM, SIGLO XXI

Spanish model: good governance



Survey managers: Spanish optimism

Table 2: S	Shortfall perception from the second	om water utility		
Aggregate res	ponses from survey, conducted July 20	012		
Country	Utilities expecting a mismatch in supply and demand by 2020 (%)	Utilities expecting a mismatch in supply and demand by 2030 (%)	Respondents who think the risk of water demand outstripping supply in 2030 is highly likely (%)	
India	52	23	42	
US	41	7	44	
Canada	39	4	39	
UK	33	38	25	
Australia	28	33	44	
Brazil	21	4	42	
China	21	26	46	
France	18	27	32	
Russia	18	5	32	
Spain	0	14	36	
Average	28	18	39	
Source: EIU su	urvey.			





Factors of competitiveness (Word Economic Forus

GLOBAL COMPETITIVENESS INDEX

	RANK (OUT OF 139)	SCORE (1 TO 7)
GCI 2011-2012	36	4.6
Basic Requirements	36	5.11
1st pillar: Institutions	48	4.25
2nd pillar: INFRASTRUC	TURE10	5.92
3rd pillar: Macroeconomic	environment104	4.17
4th pillar: Health and prima	ary education36	6.09

The report highlights Spanish Infrastructures as one of its strengths

SPAIN RANKS 10th POSITION

Spain make a good use of EU founds, specially on water infrastructure. It was common knowledge in the European Union that 1€ injected in the Spanish public works management system were ninety-many cents invested in water supply or a water treatment plant.



Millennium Goals

Of the 8 Millennium Goals water is related to 6 of them

1. Eradicating

extreme poverty and hunger

5. Improving maternal health

6. Combating diseases

7. Ensuring environmental sustainability

4. Reducing child mortality rates

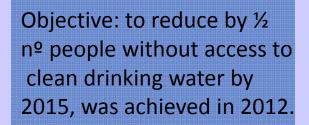
Promoting

gender equality and empowering

Probably the progress on water access has been the strongest contribution to the achievement of the millennium goals, but there is still a long way to go

Millennium Goals

- We need to harmonize the existing contradictions between Human right/
 Economic good and between cooperation to development/ Utility.
- Its not just another utility more. Strategic factor: Key element regarding quality of life but also economic development



Last decade + 2000 million/people: improved clean water





1100 million/people defecate in the open, among them 17% rural population of Latin America and the Caribbean

2015 + 600 million/people would not have access to improved clean water

2500 million/people lack access to sanitation





Funding for the achievement of the Millennium Goals



SOME EXAMPLES OF ACTIVITIES



JOINT PROGRAMME TITLE	COUNTRY	MDG-F PROGRAMME
Economic governance, regulatory reform, public participation, and pro-poor development in Albania	ALBANIA	Democratic Economic Governance
Governance of Water and Sanitation in Angola's Poor Neighbourhoods	ANGOLA	Democratic Economic Governance
Securing Access to Water through Institutional Development and Infrastructure	BOSNIA HERZEGOVI NA	Democratic Economic Governance
Governance in the water and sanitation sector in Ecuador within the framework of the Millennium Development Goals	ECUADOR	Democratic Economic Governance
Capacity-Building amongst the Mam People in Economic Water and Sanitation Governance	GUATEMALA	Democratic Economic Governance
Economic Governance of Water and Sanitation	HONDURAS	Democratic Economic Governance

WHY AREN'T THE COMPANIES INVOLVED?



Water as an Economic Good



Top 10 combined water and wastewater tariffs

1. Aarhus (Denmark)	\$9.12/m ³
2. Essen (Germany)	\$7.35/m ³
3. Copenhagen (Denmark)	\$7.09/m ³
4. Perth (Australia)	\$6.47/m ³
5. Brisbane (Australia)	\$6.44/m ³
6. Adelaide (Australia)	\$6.40/m ³
7. Sydney (Australia)	\$6.38/m ³
8. Honolulu (United States)	\$6.37/m ³
9. Glasgow (UK)	\$6.29/m ³
10. Bremen (Germany)	\$6.06/m ³



Source: Global Water Intelligence

- September 2012-

Barcelona \$ 1,42 m3 <u>Madrid</u> \$ 1,43 m3

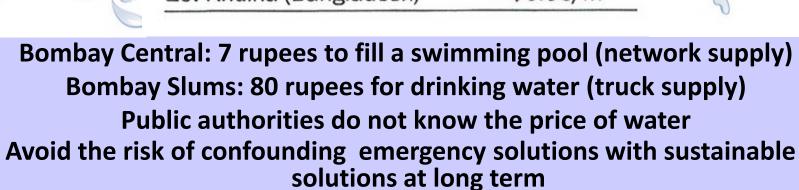


Water as an Economic Good

Bottom 10 combined water and wastewater tariffs



1= Ashgabat (Turkmenistan)	\$0.00/m	
1= Belfast (UK)	\$0.00/m ³	
1= Cork (Ireland)	\$0.00/m ³	
1= Dublin (Ireland)	\$0.00/m ³	
5= Jeddah (Saudi Arabia)	\$0.03/m ³	
5= Riyadh (Saudi Arabia)	\$0.03/m ³	
7. Damascus (Syria)	\$0.04/m ³	
8. Havana (Cuba)	\$0.04/m ³	
9. Chandigarh (India)	\$0.05/m ³	
10. Khulna (Bangladesh)	\$0.06/m ³	



Source: Global Water Intelligence - September 2012

Water as an Economic Good





MAXIMUM CAPACITY TO PAY FOR WATER AS A % OF FAMILY INCOME

- World Bank 5%: 3% supply, 2% sanitation
- Other authors (2010) <1%
- IDB 5% poor, 1% not poor
- Brazilian slums <2%
- Arequipa 1,7%, Costa Rica 9,8%
- Spain 0,70%: Actually: the problem is funding Complete Sanitation in small
 communities

Water as an Economic Good: Cost Recovery Two ways of economic approach: Probably the Good balance in a intermediate position



Supply of drinking water and average tariff

		Supp	bly		Average price (dollars per m3)b
Suppliers	Year	Litres per inhabitant and day	Cubic meters per client and month	Average bill (dollars per month)a	
BUENOS AIRES	2011	356	29	4,82	0,17
SANTA FE	2011	c	c	5,87	c
SAO PAULO	2010	227	18	48,43	2,63
BELO HORIZONTE	2010	148	12	36,09	2,94
SANTIAGO DE CHILE	2011	203	22	38,98	1,77
ANTOFAGASTA	2011	169	19	67,69	3,54
BOGOTA	2011	100	12	31,82	2,64
CARTAGENA	2011	129	16	32,51	1,98
LIMA	2011	153	28	27,74	1,01
CAJAMARCA	2011	94	14	12,93	0,94
COSTA RICA	2010	175	21	22,72	1,07
QUITO	2011	189	27	19,76	0,72
PANAMA	2011	359	52	15,45	0,30
PARAGUAY	2011	237	35	c	c
URUGUAY	2009	138	15	26,27	1,80

Source: Sector data

a Operating income divided by clients

Only numbers

Ex: AVINA
Foundation:
3 models of
democratic
governance for
water:

- Community water boards
- The one million cistern program
- -Social control

On these models water price is not shown.

Only Words

b Operating income divided by cubic metre consumed

c Not available

Companies should be key players Water Tariff Criteria



• Convenience, including the attributes of simplicity, comprehensibility, feasibility of the application and public acceptance. **On Line**¿

Free of controversies in its interpretation

- Effectiveness in achieving the revenue target to obtain a fair and reasonable turnover. European Directive oblige strict recover of cost
- Tariff stability aiming at avoiding adverse unexpected change for service users
- Equity between the different user groups, in relation with their respective shares in the final service costs
- Avoiding excessive discrimination between users
- Encouragement of efficient consumption patterns, deterring squandering and allowing for all kinds and amounts of justified use (like peak and non peak consumption)
 SOURCE: CEPAL.









- Companies are the ones that have the "know-how" to install and provide the taps
- Infrastructure (water) built by companies is significantly cheaper than infrastructure (water) built by Non Companies



- Management in cooperation (water) is done mainly through governments bodies
- In Spain: NGO Non-Governmental Organization are publicly. Financed in a 62%

 In Spanish Cooperation, involvement of companies accounts for less than 10%

The debate is not public or private,
The debate is good or non good management



Companies should be key players

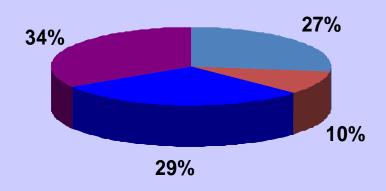
Good relationships with consumers SPAIN

Number of annual claims / number of clients: 1,3%

• Claims resolved favorable to the client : 58%

• Main kind of claim; errors in the receipt: 56,3%

Claim processing:

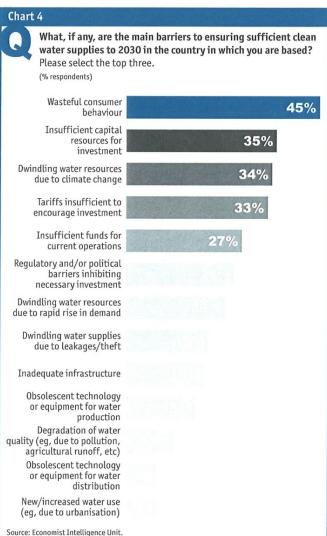


■ Arbitration Board
■ Mediation Body
■ Customer ombudsman
■ None









The main barrier to ensure sufficient clean water supplies to 2020 is the Wasteful consumer behavior.

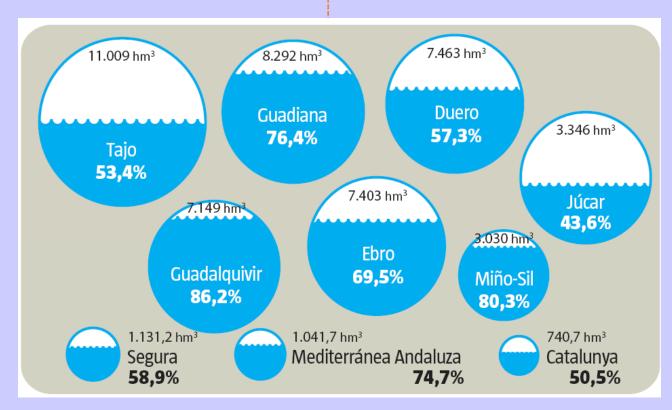
Spanish model : good governance



Public awareness

Pioneers in River Basin Management

Water stored in the Spanish River Basins, published in the daily newspaper



Source: Ministry of the Environment (6/03/2013)

Companies should be key players To ensure adequate supplies by 2030



What, if at all, do you believe needs to change in water tariffs to ensure adequate supplies by 2030? Please choose the top three (% respondents)

Pricing structures need to be changed to encourage conservation and/or recycling Pricing needs to be held down to ensure fair access for all consumers 38 Pricing should reflect actual costs Pricing should be set to provide a basic minimum for all users at low to no cost, with a rising tariff thereafter to cover costs Pricing should reflect market forces Price per unit should increase at higher consumption levels 26 Pricing needs to rise to prompt increased production / reduced demand Pricing should vary according to time of day Pricing should vary according to water scarcity (ie, higher prices during droughts, lower prices during rainy seasons) Pricing should incentivise local catchment and local storage Pricing should favour consumers compared to industrial users more than it does today Other pricing change, please specify Pricing structures are fine the way they are

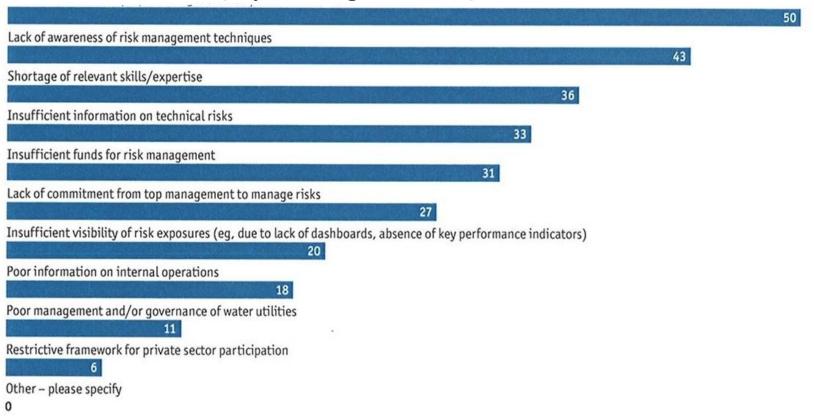
Companies should be key players: Barriers to more effective management



What are the most significant barriers to more effective management of operational risks associated with your water production and/or distribution facilities? Please select up to three.

(% respondents)

Limited collaboration/input from government/water authorities



Companies should be key players

In many countries: Public Spending for water is finishing





The water needs funds

Water projects are pioneer in PPP and present strong growth prospects

RATING ON PPP. Good or bad environment

Clasificatio	on	2010	2012	Change in rating	
1	Chile	79,4	76,4	(-3,0)	
2	Brasil	71,9	71,3	(-0,6)	
3	Perú	68,1	69,6	(+1,5)	
4	México	58,1	63,8	(+5,7)	
5	Colombia	55,3	59,5	(+4,2)	
6	Uruguay	34,8	49,5	(+14,7)	
7	Guatemala	40,9	43,2	(+2,3)	
8	Costa Rica	32,6	38,8	(+6,2)	
9	El Salvador	30,7	38,2	(+7,5)	Source: The
10	Trinidad y Tobago	32,2	34,3	(+2,1)	Source: The
11	Panamá	36,4	34,0	(-2,4))	Economist
12	Honduras	24,2	33,7	(+9,5)	
13	Jamaica	26,6	30,2	(+3,6)	
14	Paraguay	24,7	28,9	(+4,2)	
15	República Dominicana	24,0	25,7	(+1,7)	
16	Nicaragua	17,1	20,4	(+3,3)	
17	Ecuador	12,4	19,9	(+7,5)	
18	Argentina	30,3	17,5	(-12,8)	23
19	Venezuela	5,3	5,1	(-0,2)	23







Advantages

Sector knowledge

Public and private accountability

Cheaper and cost control

Ignore the Companies

Is a Social Waste

Professional ability

Innovation: demand rationalization

- Long tradition in good relationships with consumers
- Local partnership
- Contributing to the development of the private sector

