

A) WORKSHOP ON NEW PARADIGMS #Background

1 Workshop on *New paradigms for water resources and risk management: Data and information requirements for sustainable water management*, organized by the University of Seville SWAN team, in January 2013.



2 Preliminary conclusions were discussed and enriched with contributions from workshop participants.

3 They lead to a paper published in the *Spanish Geographer Association Bulletin* (Pita *et al.*, 2014).

4 **Water Alternatives**
A flow of creative thinking
WaA call for papers: Water knowledge and governance
Special issue: Information and Knowledge for Water Governance in the Networked Society

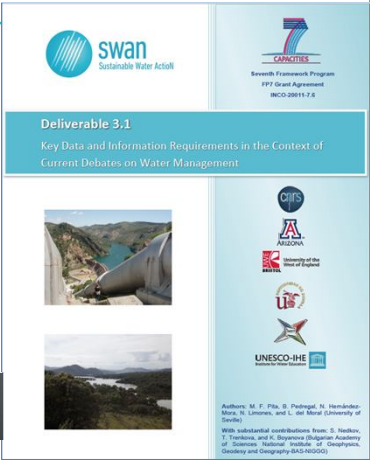
<http://www.boletinage.com/>

A) SWAN DELIVERABLE ON KEY DATA #Background

5 **The Deliverable 3.1. Key data and Information Requirements in the Context of Current Debates on Water Management** written by the USE in close collaboration with the UA and BAS-NIGG SWAN teams. It draws upon the outcomes of the January Workshop and identifies **five key themes**.

1. Current paradigms in the management of water resources
2. Economic considerations in evolving water management debates
3. Modeling hydro-social systems
4. Transparency and public participation
5. New information technologies

Available at:
<https://www.researchgate.net/>
<https://swanproject.arizona.edu/>



ResearchGate

A) KEYTHEMES: 1. Current paradigms

#Background

- IWRM is the current, well-established, conventional wisdom.
- Our core analytical and controversial idea about the historical and contextual meaning of this model is that:

The emergence and consolidation of IWRM can be understood as the expression of the historical shift from the post-war Keynesian regulation model to the current neo-liberal globalization system.

A) KEYTHEMES: 1. Current paradigms

#Background

This idea implies three main controversies about:

- a) Hegemonic economic thought in which IWRM prescriptions are articulated:
 - commodification process,
 - monetary reductionism
 - privatization trend.
- b) Potential contradictions /interconnection between water participatory governance, with wider global socio-economic processes that challenge current democratic institutions.
- c) Preeminence of the river basin as the natural and unquestionable scale.

A) KEY THEMES: 2. Economic considerations

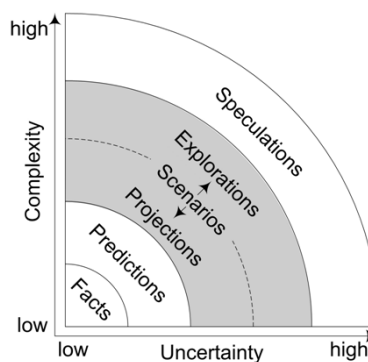
#Background

- Paradigm of IWRM →
cost recovery and **polluter-pays principle**.
- Valuing the degradation of **complex socio-natural systems** is not a simple task.
- Very difficult to 'technically':
 - a) translate it into **replacement costs**
 - b) define the **price to pay**.

A) KEY THEMES: 2. Economic considerations

#Background

- **Knowledge limitations insurmountable**, inherent to the complexity of socio-natural systems.
- Need to manage water resources in an **uncertain** and **partially understood context**.



A) KEY THEMES: 3. Modeling hydro-social systems #Background

- Hydro-social models → combination of natural and social parameters
- Models can only hope to represent specific geographic and hydro-social realities.

Guadalquivir river marshes Veta La Palma Colorado Delta

A) KEY THEMES: 3. Modeling hydro-social systems #Background

- Spatial aspects of knowledge ↔ different scales
- Local knowledge into global models in order to address global changes.

EL GUADALQUIVIR
SU EVOLUCIÓN A LO LARGO DE LA HISTORIA

1915

2015

← We are here

1915: El río en la Exposición Internacional de 1915. Cauce espontáneo hasta el siglo XIX. La Carta de Sevilla y el saneamiento de Los Cuarteles.

1950: El plan general de obras de Dragado Hidráulico. El Impulso de Chapina y el debate sobre el saneamiento del cauce.

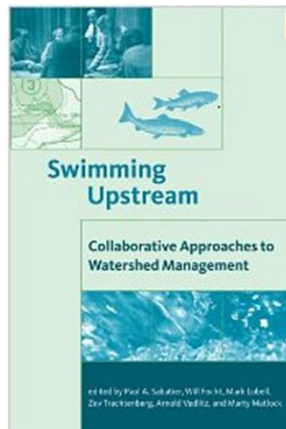
1982: La formación del sistema de defensa actual. La Carta de la Cartuja.

1992: La Exposición Internacional y la nueva relación entre el río y la ciudad. Desahorro de Chapina y restauración del cauce histórico.

A) KEY THEMES: 4. Transparency & participation

#Background

- Emphasis on public participation founding its conceptual grounding in theories as **deliberative democracy**.



Paul Sabatier et al. , 2005, MIT

A) KEY THEMES: 4. Transparency & participation

#Background

- However:
 - Limits of the participatory governance perspective and true impact on final decisions.
 - Lack of understanding about the informal mechanisms.
 - Could science/policy research generate more penetrating knowledge?
- Debates of **post-politics** and **post-democracy** in the context of the neoliberal globalization processes.



A) KEY THEMES: 5. New information technologies #Background

- Rapidly developing ICTs are indeed influencing discussions on water policy

Polycentric Generation	<ul style="list-style-type: none"> • Increasing possibilities provided for information generation
Earth Observation Technologies	<ul style="list-style-type: none"> • Development of earth observation technologies
Sharing & Disseminating	<ul style="list-style-type: none"> • Different avenues for data and information
Policies & Legislation	<ul style="list-style-type: none"> • That enhance the harmonization and reutilization
Transparency	<ul style="list-style-type: none"> • Growing social demands and increasingly critical social actors.

A) KEY THEMES: 5. New information technologies #Background

The **pending issue** is to **ensure the conditions** in which:
 Information disseminated and shared in an **open, free and easy** way.

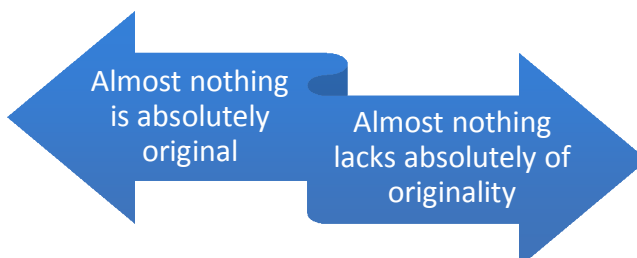
The diagram features a funnel shape with three overlapping blue boxes inside: 'Technology' on the left, 'Policy' on the right, and 'Collaborative methods' at the bottom. The funnel is supported by a small blue rectangular base, which sits on a larger yellow rectangular base containing the text: **Knowledge truly useful for participatory planning and management.**

B) COLLABORATIVE KNOWLEDGE AND THE INTERNET

#collaborativeknowledge

According to Innerarity (2014), **two most basic properties** of knowledge:

1



- Knowing is something **new** and a **recombination** of elements
- **Human creations** do not come out of nowhere.
- Creativity a **modest variation** of some thing.



<http://www.daniel-innerarity.net/>



B) COLLABORATIVE KNOWLEDGE AND THE INTERNET

#collaborativeknowledge

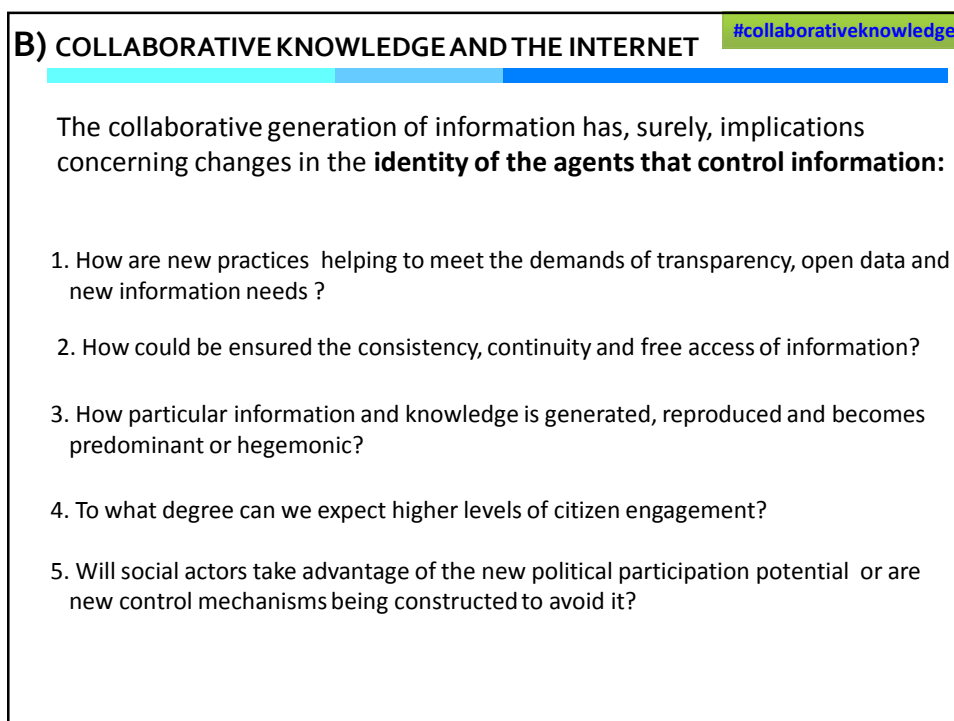
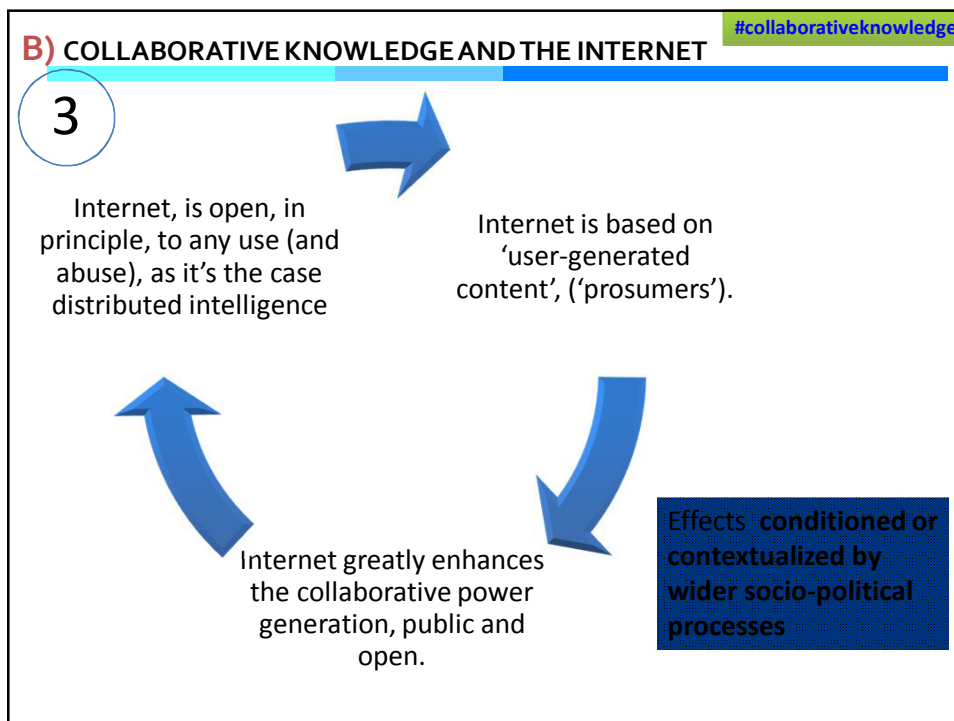
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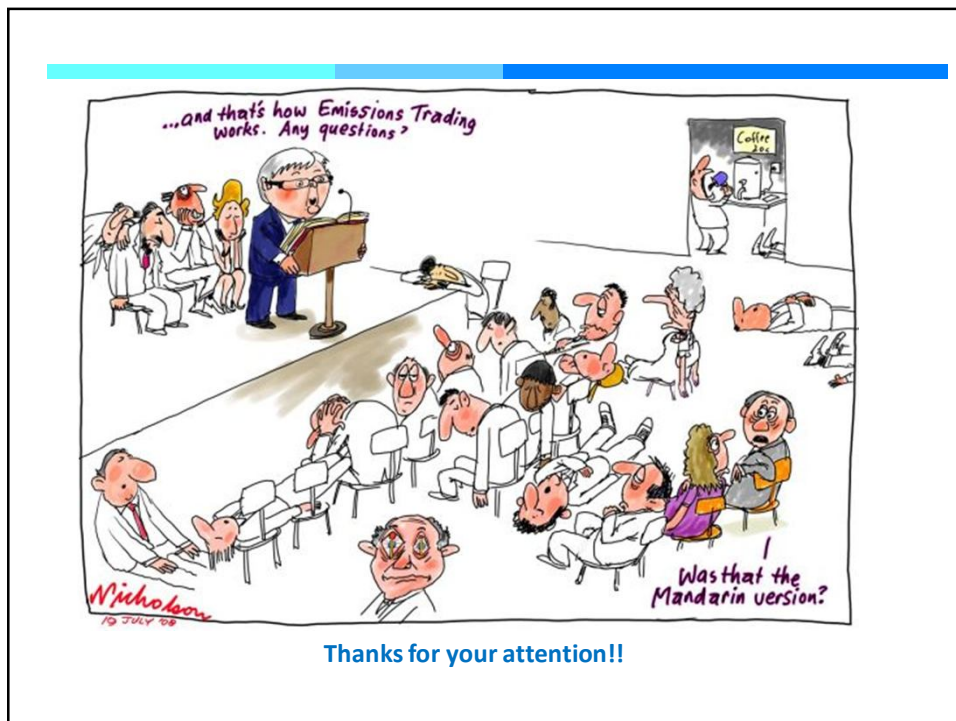
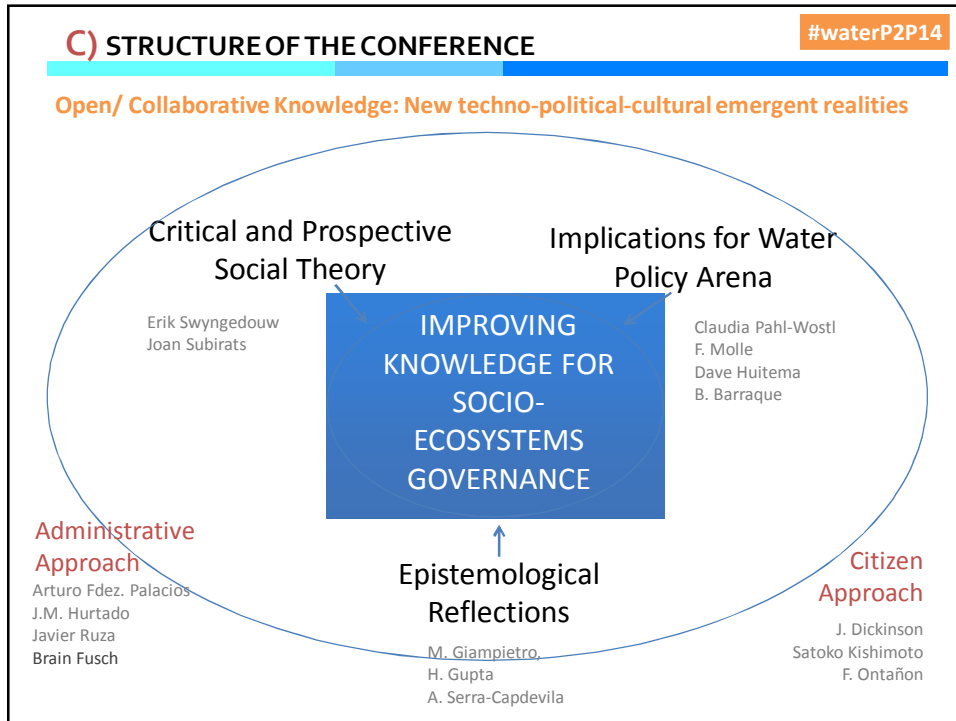
▪ In the end, **knowledge is public and shared.**

- In this context, we have to learn to cope with a certain **epistemological anarchy.**

▪ **Innovation** requires lightly or **non-regulated spaces.**

▪ A creative culture has to be as **little controlled as possible**







Thank you for your attendance and participation

Organizing Committee :

Violeta CABELLO , Juan Mariano CAMARILLO, Leandro DEL MORAL, Nuria HERNÁNDEZ- MORA,
Natalia LIMONES, Belén PEDREGAL, María Fernanda PITA, David SAMPEDRO,
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CONFERENCE & SOCIAL MEDIA

] Key words & Hashtags

Hashtag **#waterP2P14**



Help us to disseminate conference debates by twitting these **key words and hashtags**, and by mentioning our twitter account **@waterP2P** and / or personal accounts of speakers:

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] **Social & Policy**

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COLLABORATIVE KNOWLEDGE IN PRACTICE: SHARE-REMARKS

<https://titanpad.com/WaterP2P-share-remarks>

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B I U S [List Icon] [Table Icon] [Image Icon] [Undo] [Redo]

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Invites other users and they will show up here.

Share this pad

June 7, 2014

chat

1 #WaterP2P14 International Conference on Data, Information and Knowledge for Water Governance in the Networked Society @unisevilla 9-10Jun14

2

3 This pad is to collect comments, notes and remarks from the Conference. It is open to all conference participants

4

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7 **Session 1: Power, communication and the policy process #waterP2P14**

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14 **Session 2: Key debates on #WaterManagement models #waterP2P14**

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22 **Session 3: #Polycentric information for #WaterGovernance: generation, quality control and sustainability #waterP2P14**

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THERE IS ONE WIRELESS NETWORK

➔ **WEBSITE: Reinius-
eventos**

➔ **Just a password needed:
*Eecpqldl01***

STRUCTURE OF THE CONFERENCE

#waterP2P14

INTERNATIONAL CONFERENCE ON DATA, INFORMATION AND KNOWLEDGE FOR WATER GOVERNANCE IN THE NETWORKED SOCIETY
University of Seville, June 9-11, 2014

MONDAY, JUNE 9		TUESDAY, JUNE 10		WEDNESDAY, JUNE 11	
9:00	Arrival & accreditation	9:00	Session 3: <i>Janice Dickinson</i> , Cornell University, Ithaca, New York	Water landscapes in Andalusia. Nature, economy and society. The experience of Veta La Palma (Doñana Natural Park) 8:30-16:00	
	Welcome & Introduction <i>Mª Fernanda Pita</i> , University of Seville <i>Franck Poupeau</i> , SWAN Project Leader, CNRS <i>Leandro del Moral</i> , Head of the SWAN University of Seville team	9:30	Session 3: <i>Satoko Kishimoto</i> , Transnational Institute, Amsterdam		
10:15	Session 1: <i>Joan Subirats</i> Universitat Autònoma de Barcelona	10:00	Questions and debate		
11:00	Coffee Break	10:45	Coffee Break		
11:30	Session 1: <i>Eric Swynghedouw</i> Manchester University	11:15	Session 3: <i>Arturo Fernández Palacios & Jose Maria Hurtado</i> , IECA, Regional Government of Andalusia		
12:15	Questions and debate	11:45	Session 3: <i>Javier Ruzo</i> , Water Directorate, Ministry of Agriculture, Food and the Environment of Spain		
13:00	LUNCH BREAK		12:15		Questions and debate
14:30	Session 2: <i>Claudia Pahl-Wostl</i> University of Osnabrück	14:30	Session 4: <i>Mario Giampietro</i> , Universitat Autònoma de Barcelona		
15:00	Session 2: <i>François Malle</i> IRD (France) and IWMI (Cairo)	15:00	Session 4: <i>Félix Ontañón</i> , Open Kratio, Sevilla		
15:30	Questions And Debate				
16:15	Coffee Break				
16:45	Session 2: <i>Dave Huitema</i> VU University-Amsterdam	16:45	Session 4: <i>Brian Allan Fuchs</i> Drought Mitigation Center, Lincoln, Nebraska		
17:15	Session 2: <i>Bernard Barraqué</i> CIRED-CNRS, France	17:15	Session 4: <i>Hoshin Gupta & Aleix Serrat- Capdevilla</i> , University of Arizona		
17:45	Questions and debate	17:45	Questions and debate		
18:30	ADJOURNEMENT	18:30	Closing remarks		
		18:45	ADJOURNEMENT		