



## **6<sup>th</sup> UNECWAS Seminar**

# ***20 years of Science for Water Services by the CADWES team***

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- 1. UNESCO Chair**
- 2. Background**
- 3. Major research themes of CADWES and UNECWAS**
- 4. Some points on resilience**

# 1. UNESCO Chair in Sustainable Water Services (UNECWAS), Tampere University of Technology (TUT), Finland



United Nations  
Educational, Scientific and  
Cultural Organization



UNESCO Chair  
in Sustainable Water Services  
Tampere University of Technology

- Established in **2012**; extended for **2016-2020**; Co-chair Petri Juuti since 2017
- Major partners: 6 universities in the South, 2 UNESCO centres in the North and 3 other European partners.
- Mission of CADWES "to produce usable knowledge and education, based on multi- and interdisciplinary research, on the **evolution and development of sustainable use of water services** and water resources in a **wider institutional context**: organisations, governance, management, economics, legislation, policy, rules and practices".

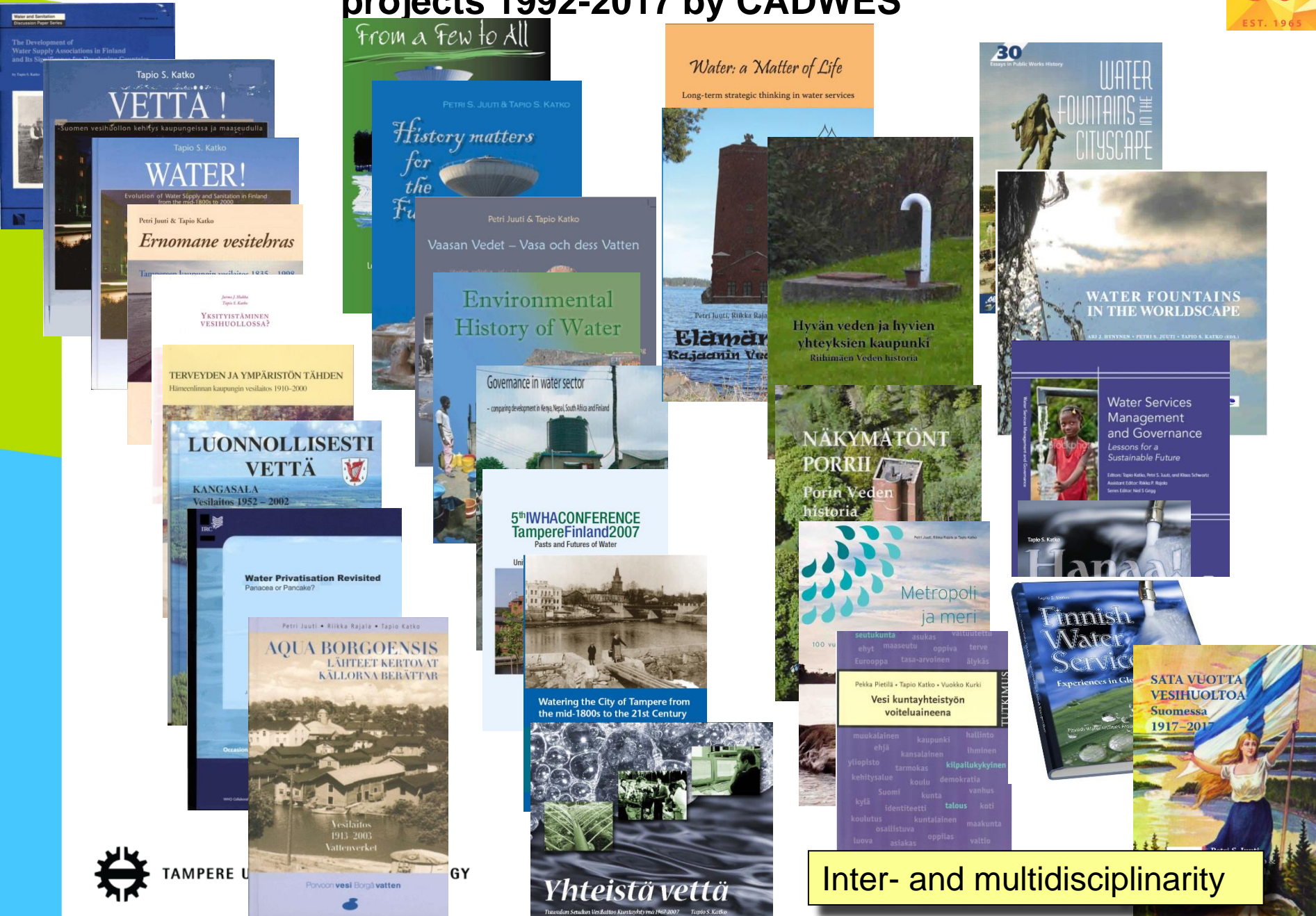
## 2. Background



### **3. Major research themes of CADWES and UNECWAS**

- **Long-term management (Ps+Ps+Fs) of water services**
  - Asset management and Aging infrastructure!
  - Intermunicipal cooperation
  - Tacit knowledge
  - Roles of municipalities
- **Privatisation and public-private cooperation**
- **Rural water supply & sanitation, management and poverty alleviation**

# Analysing long-term development of water services and utilities projects 1992-2017 by CADWES



Inter- and multidisciplinary



TAMPERE UNIVERSITY

Porvoon vesi Bargi vatten

GY

Yhteistä vettä

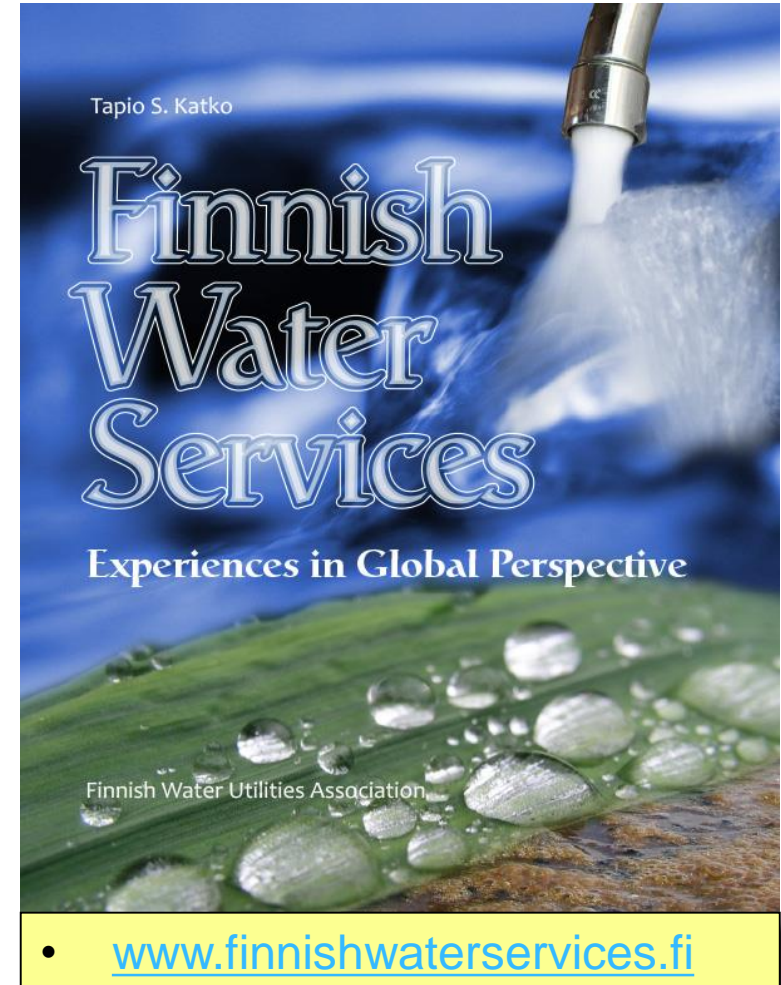
Tampere University of Applied Sciences Tampere 1968-2007 Tapio S. Katko

# Role of institutions



## D.C. North's soccer-analogy:

- Institutions = formal and informal rules of the game
- Players = organisations



## 4. Some points on resilience

- **Diversity** of conditions and solutions
- *E.g. OECD 2018 : ” Manage water at the appropriate scale(s) within integrated basin governance systems to respect local conditions, and foster co-ordination between the different scales”.*
- **Long-term** thinking
- **Public** responsibility

”Reading, writing and keeping fit always pay off!”

- Thank you!

