

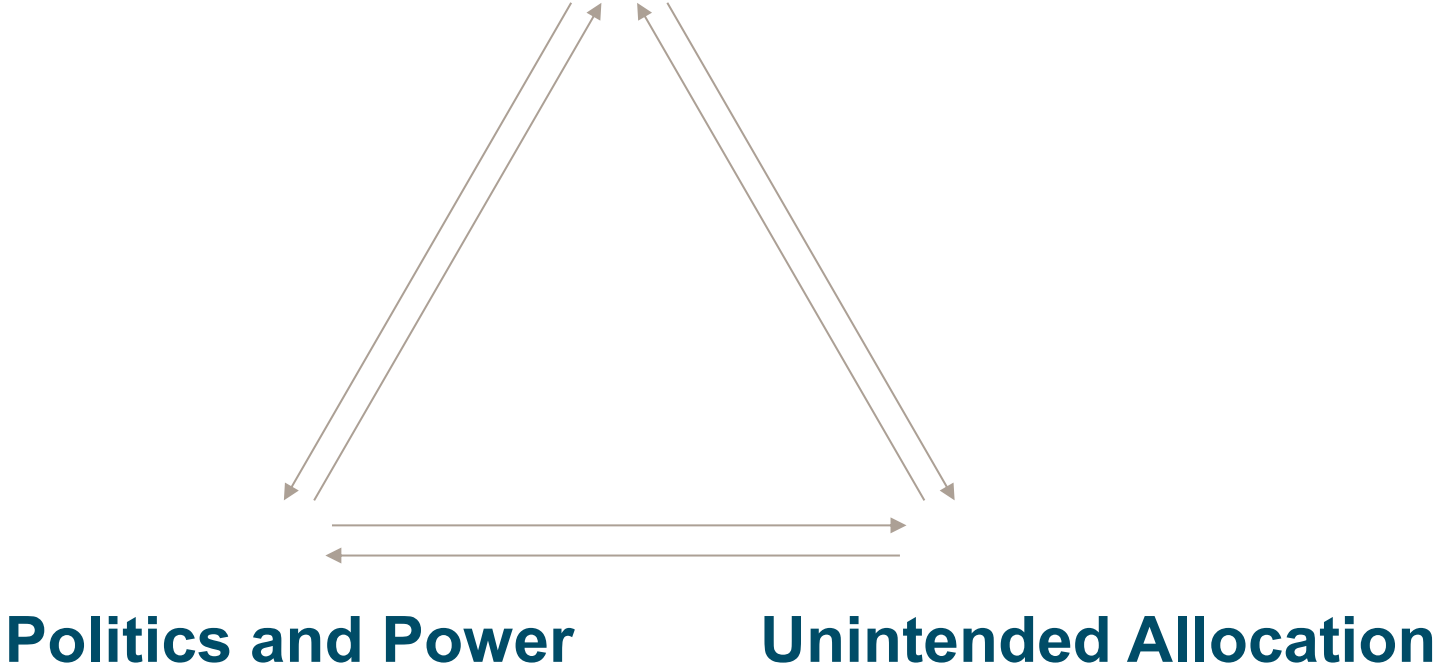
Unintended Water Allocation

Gaining share from the ungoverned spaces of land
and water transformations

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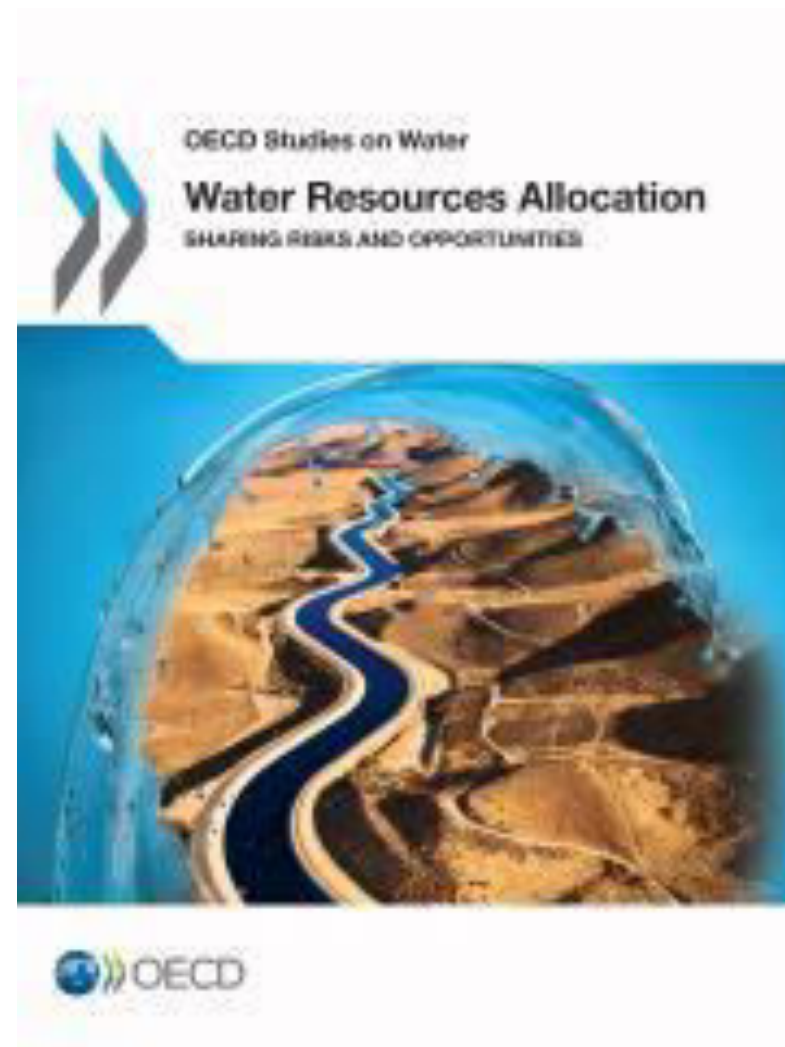


Institutional Mechanisms



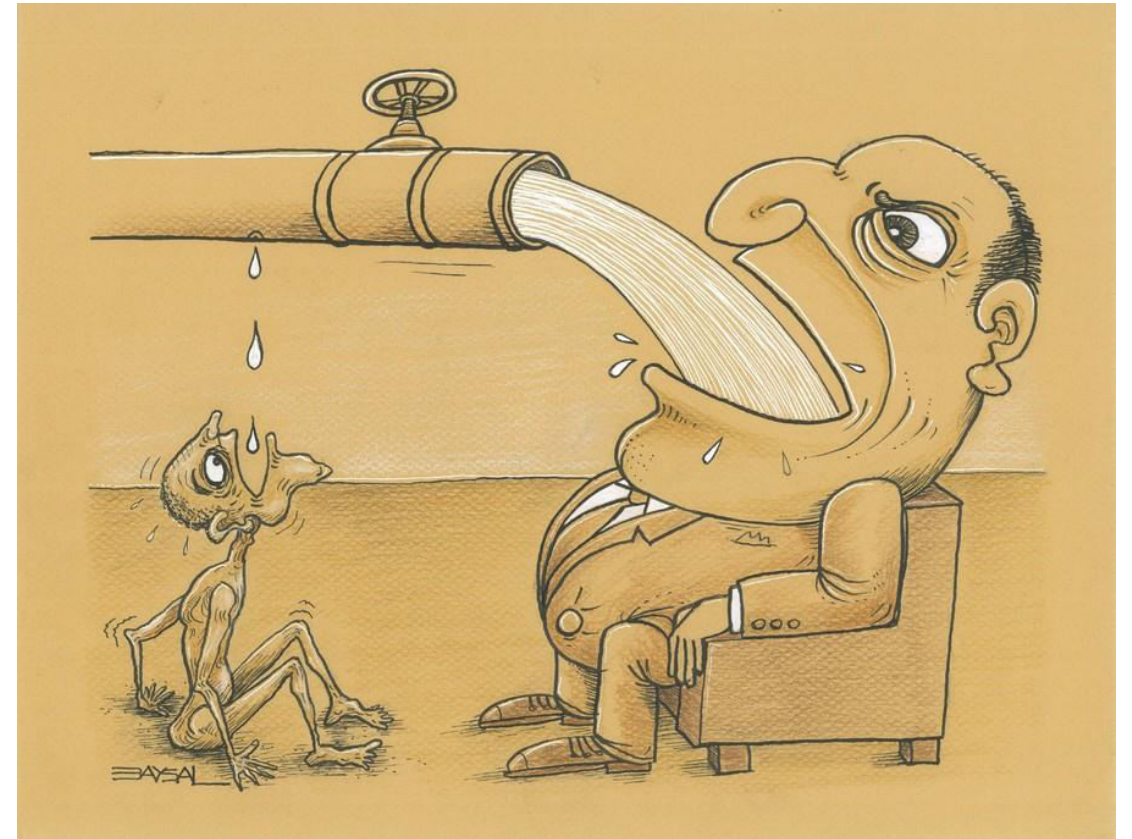
Institutional Mechanisms

- ✦ Decision-making process
- ✦ Institutional Mechanisms
 - ✦ Markets
 - ✦ Administrative
 - ✦ Demand Management
 - ✦ See OECD, 2015; Dinar et al., 1997; Speed et al., 2013;

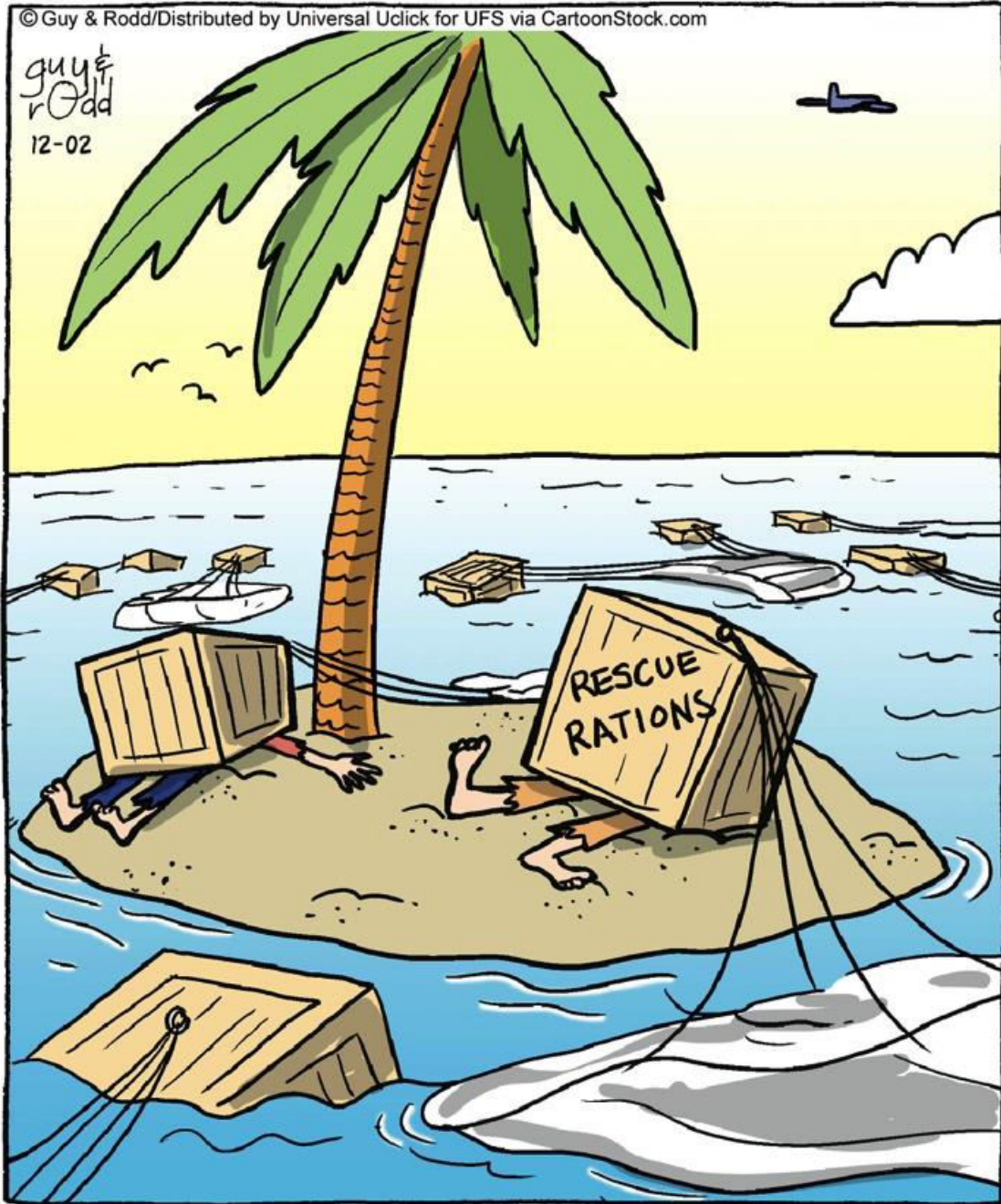


Power and Politics

- ✦ Intent
- ✦ Hydro-social cycle (Swyngedouw, 2004)
- ✦ Stealth (Molle and Berkoff, 2006, 2009)
- ✦ Appropriation (Celio et al., 2010)



Source: Ercan Baysal, 2010



Unintended Allocation

- ✦ Water shares affected by changes in non-water sectors
- ✦ Implicit (Rosegrant and Ringler, 2008)
- ✦ Unintended consequences

Examples

✦ **Example 1: Irrigation Efficiency**

✦ **Montana versus Wyoming**

- ✦ Downstream Montana complained against Wyoming for introducing more efficient irrigation that reduced drainage on which it relied

✦ **Example 2: Consequences of Urbanisation**

- ✦ Urbanisation affects water shares in agriculture through
 - ✦ Bulk surface water transfers (allocation)
 - ✦ Land-use change (Kendy et al. 2007)
 - ✦ Informal, decentralised transfers where universal water services are absent (Srinivasan et al. 2013)

Drivers of Unintended Allocation

- ✦ Ungoverned Spaces (e.g. peri-urban land and water)
- ✦ Poor Water Literacy (e.g. water implications of agricultural productivity interventions)
- ✦ Data Availability/Interpretation

Implications

- ✦ Basin Planning
 - ✦ Control
 - ✦ Decentralised processes
- ✦ Awareness of wider context and change in non-water sectors – e.g.
 - ✦ agricultural modernisation
 - ✦ economic development
 - ✦ urbanisation

Questions

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