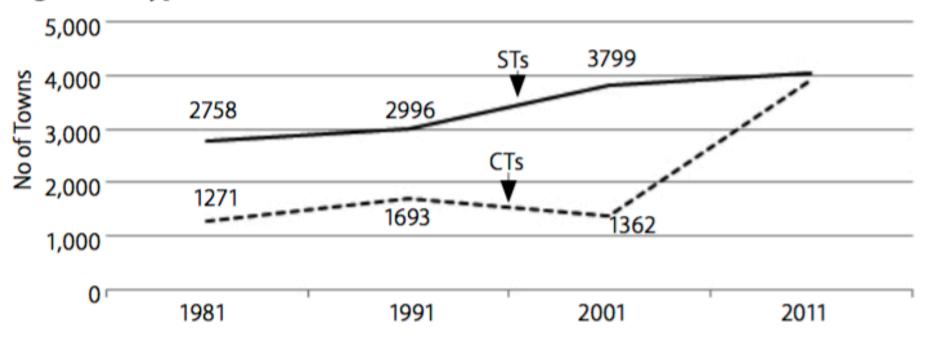


## Unacknowledged urbanisation

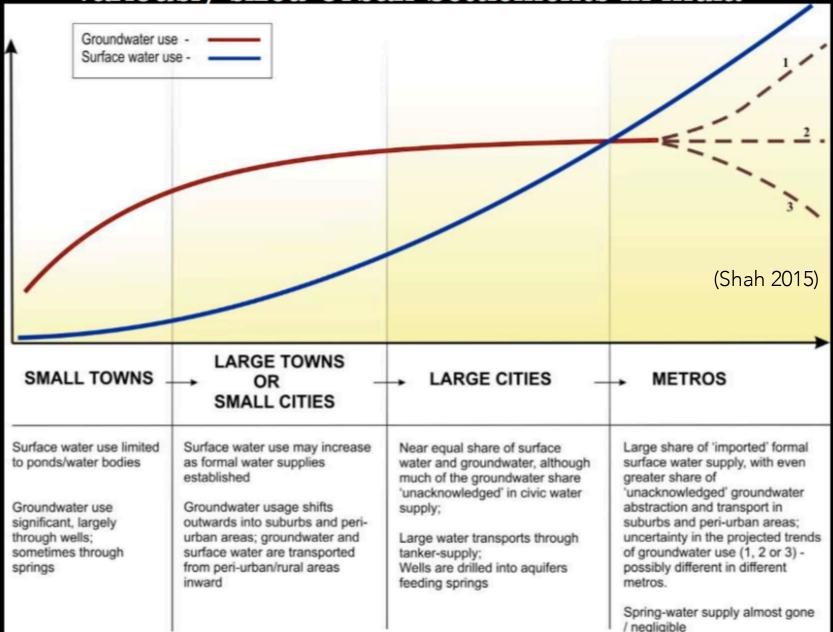
(Pradhan 2013)

### Figure 1b: Types of Urban Settlements (1981-2011)



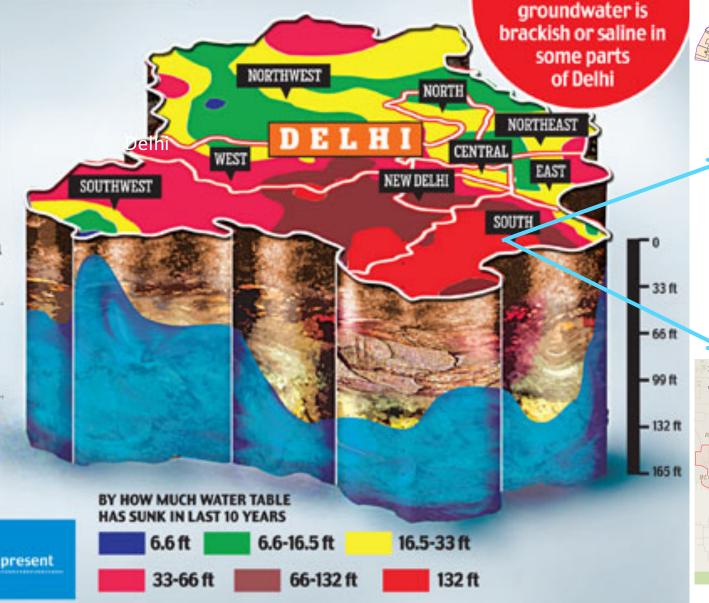
Source: Sivaramakrishnan, Kundu, Singh (2005) and Census of India 2011.

Trends in Surface and Groundwater Use across variously sized Urban Settlements in India



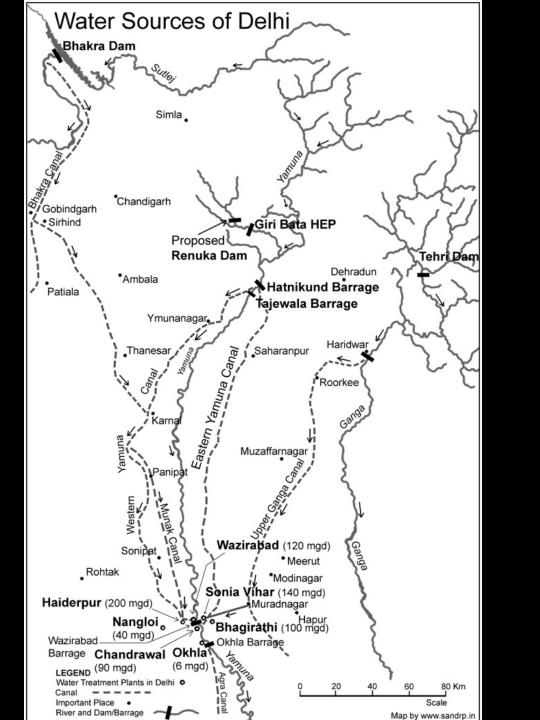
## Delhi's groundwater

(Das and Babu 2002)



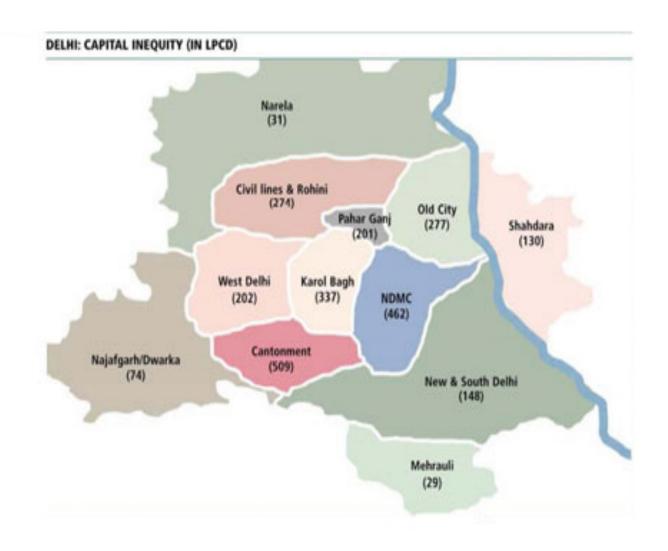
Research focus areas





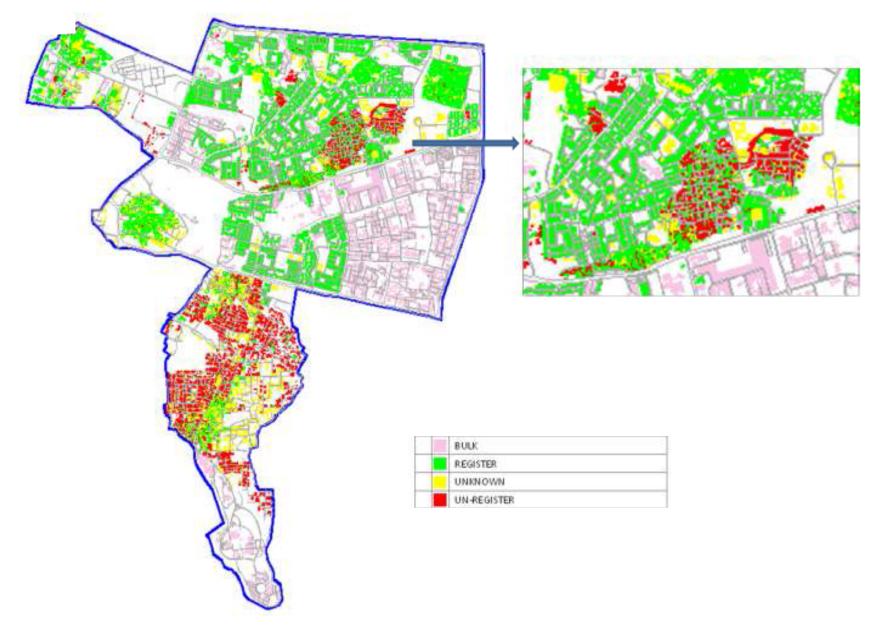
## Unequal distribution

(Narain et al 2007)

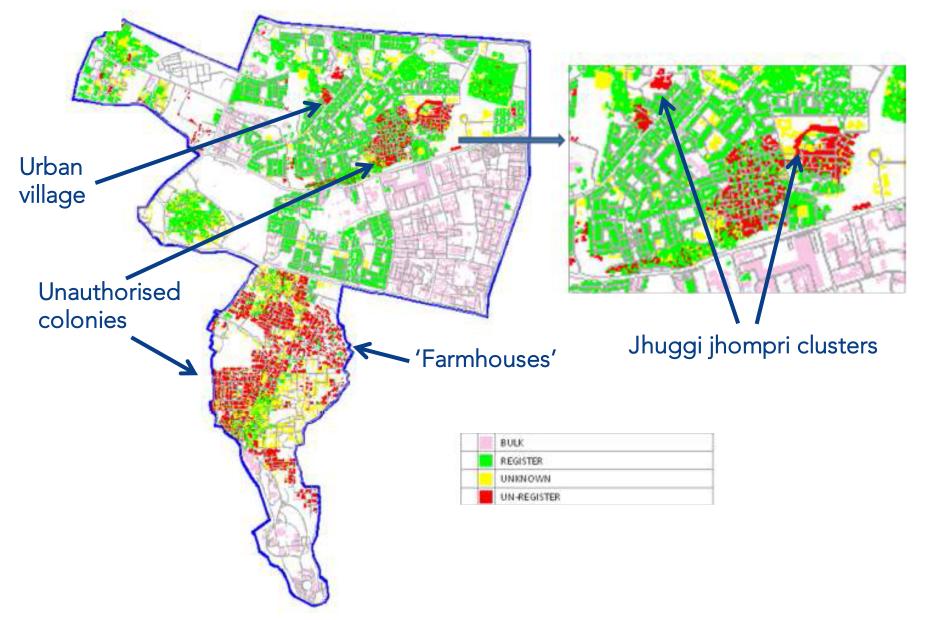




## Planning status



# Planning status







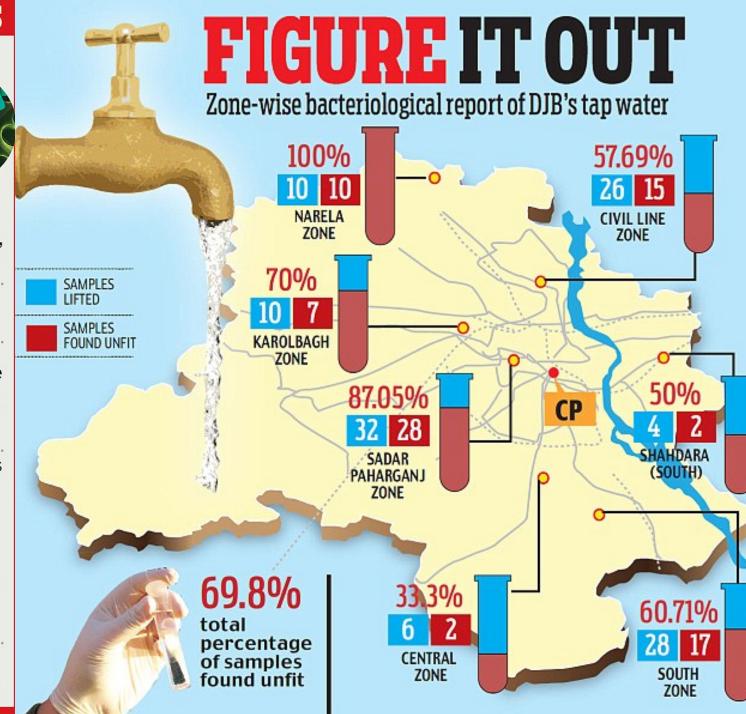


#### **HEALTH WOES**

- The contamination shows presence of coliform bacteria or E.coli in Delhi's water. This bacteria is
- responsible for gastrointestinal infections that can result in typhoid, cholera, gastroenteritis or jaundice
- Posh areas of south
  Delhi and Karol Bagh are
  the worst affected
- About 60 per cent of Delhi residents consume water supplied by the Delhi Jal Board. The rest get water from pumps or tankers
- Drinking water sources in Delhi are
- contaminated by sewage overflow, septic tanks, leaking sewer lines, sludge and

lines, sludge and untreated waste water

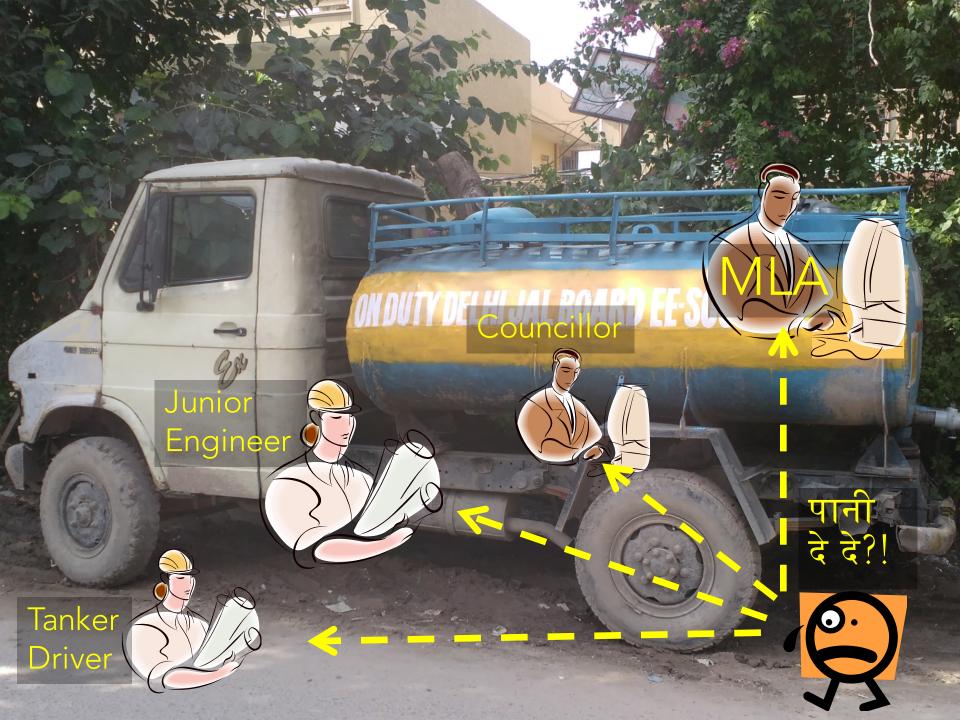
■ Pipes supplying water to many areas of Delhi are old and have cracks























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#### AAP's free water promise scuppered: South Delhi hit by 'artificial' dry spell as DJB - tanker mafia create deliberate shortage

By SUMIT KUMAR SINGH

PUBLISHED: 22:53, 2 January 2014 | UPDATED: 22:53, 2 January 2014









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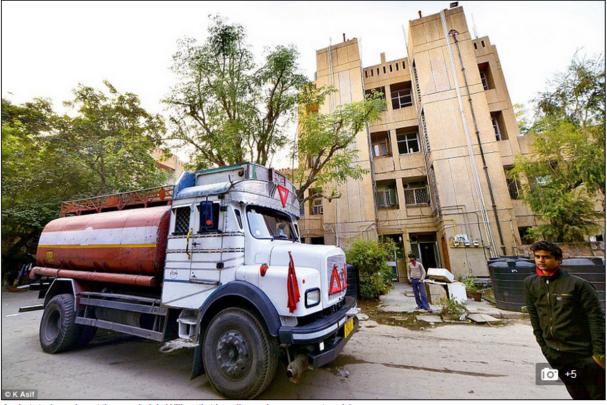


It's been five days since Chief Minister Arvind Kejriwal came good on the Aam Aadmi Party (AAP) promise of free water to Delhi residents.

It's been six days, however, since residents of the upmarket colony of Asiad Village have got a drop of Delhi Jal Board water.

Call this the unkindest cut, but AAP's free water world seems to have turned South Delhi's tony neighbourhoods into drier places.

It's not AAP's fault, as a Mail Today investigation has revealed that an unholy nexus between private tanker operators and corrupt Delhi Jal Board (DJB) officials is the real reason for the big South Delhi dry-up.

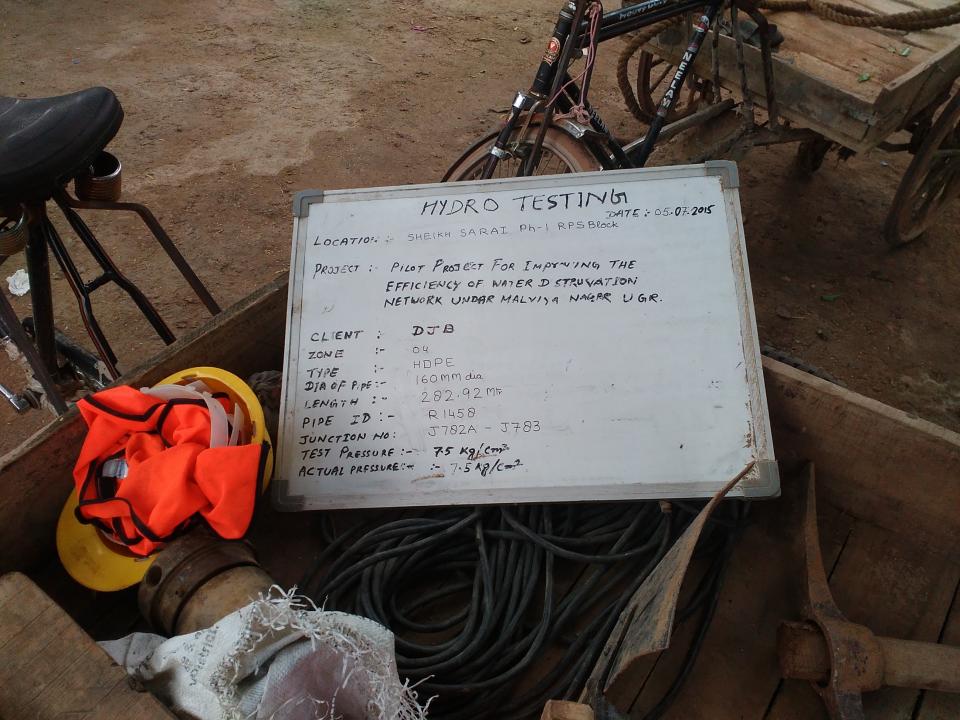


A private tanker arrives at the upscale Asiad Village that is reeling under a severe water crisis









#### Detailed Project Report (JnNURM ToolKit)

Sr.	Key Performance Indicators (KPI)	Benchmark as per	Existing Status
No.		MoUD	
1	Coverage of Water Supply	100%	84%
2	Per Capital Supply of Water	150 LPCD	286 LPCD
3	Continuity of Supply	24 hrs	3 – 8 hrs
4	Extent of Metering of Water Connections	100%	41%
5	Extent of Non-revenue water	15%	65 – 70 %
6	Efficiency in Redressed of Complaints	82%	No data available with DJB
7	Quality of Water	100%	Samples are not meeting the specified standards
8	Operating Cost recovery in water supply services	100%	2009-10⇒ 28.83% 2010-11⇒ 61.40%
9	Efficiency in collection of water related charges	90%	81%
10	Total Cost of water ( Rs / Cum) on production volume		Rs 8.54 for 2009-10
11	Average tariff (Rs /Cum) on Revenue water		Rs 7.56/Cum 2009-10
			Rs 15.14/Cum 2010-11

Table 10:Key performance Indicators



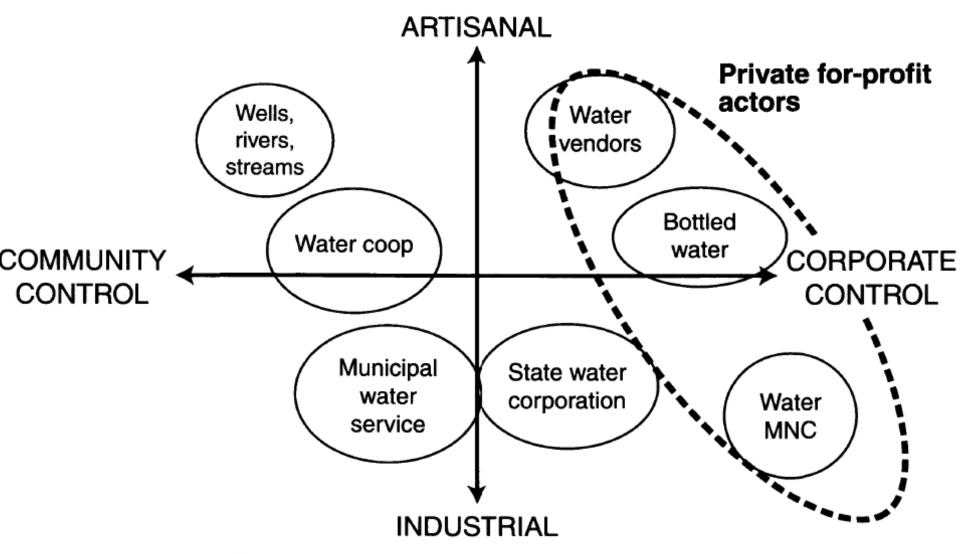


Figure 1 Modes of urban water supply provision

Karen Bakker, 'Archipelagos and Networks: Urbanization and Water Privatization in the South', *The Geographical Journal*, 169(4), Dec. 2003, p.337

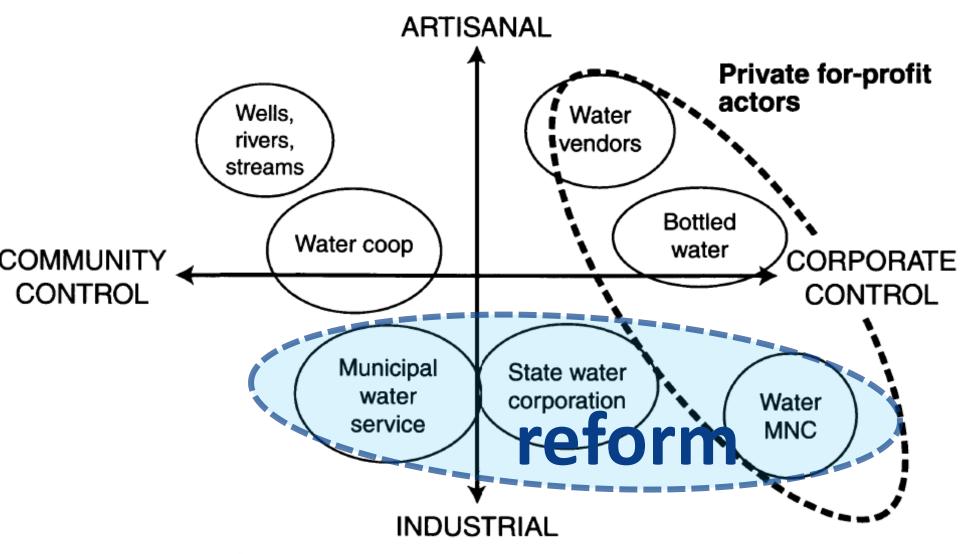


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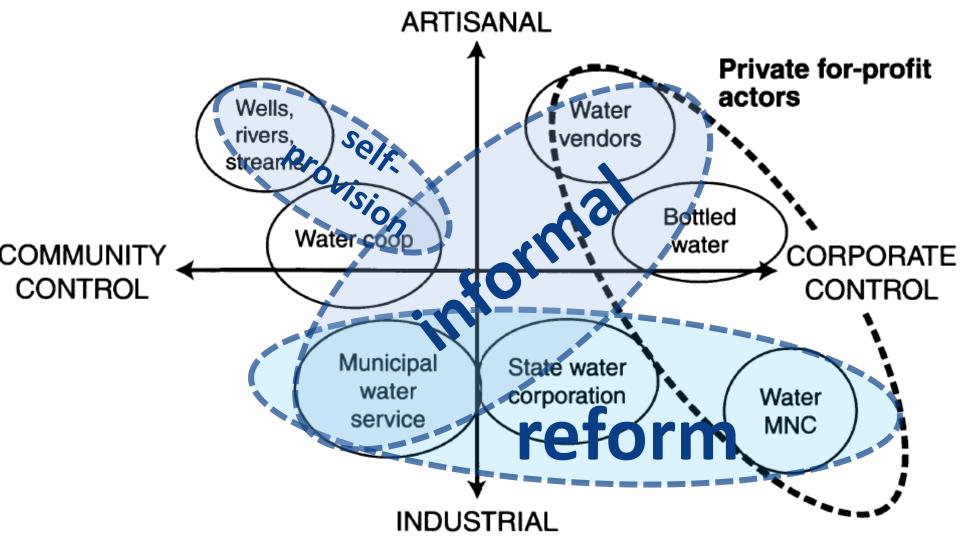


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