

.... All we want is for everybody to get clean water, all the time, at home.





Unthinking Water Resilience

An Ecological Approach to Inclusive Cities



Dr. Renu Khosla
Centre for Urban and Regional
Excellence



Centre for Urban and Regional Excellence

Un-think. Re-imagine. Innovate. De-engineer



Communities
(Inclusion)

Coequality
(Level Up)

Connecting
(the dots)

Comprehensive
(ecosystem)

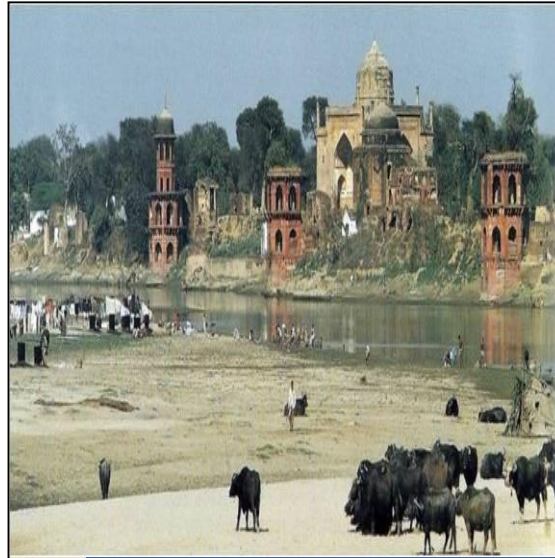
Un-Resilient Agra



Un-planning of Agra's Water Ecosystem



- Rich water Infrastructure Heritage
Wells, ponds, step wells, river



- River front industrialized with thirsty industries and encroachments, Dam upstream checks flow, Bad water supply Unowned water Lost wisdom



- Dirty River
Rising Demand
Dropping ground water tables
Damaged aquifers
Erratic Rainfall



The Ecological Approach

People Resource Water

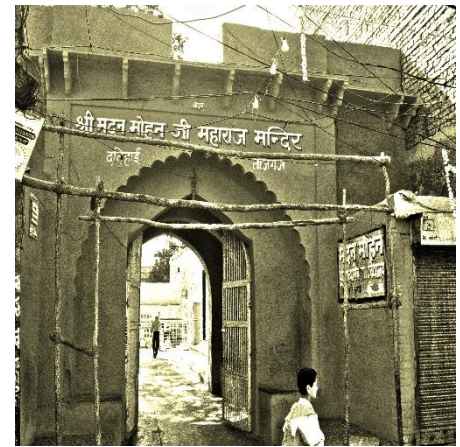
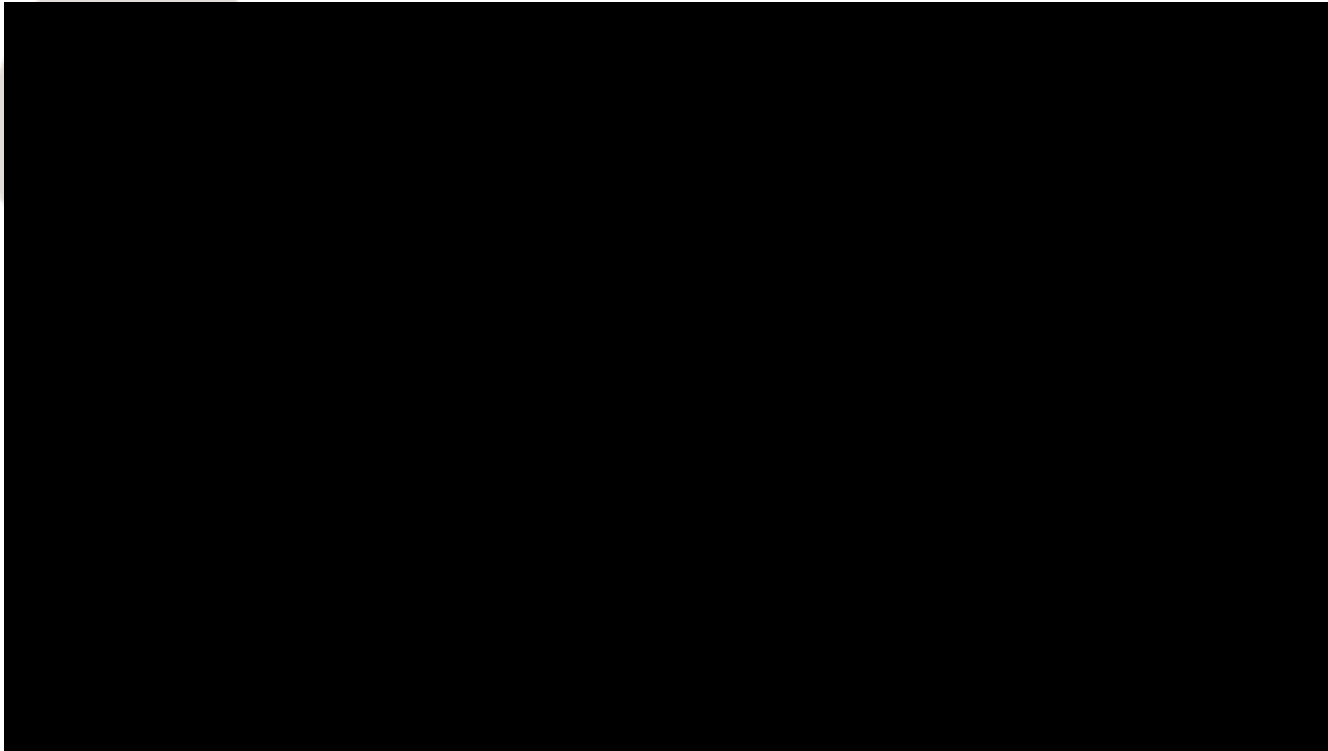




Communities at the Core



Harvesting Rainwater: A Collective Effort



The Impact



Water Harvested
1 million litres/year

Days of Resilience
250 PA

City Saves Rs35Cr (\$6m)
PA
Pumping, tankers, boring

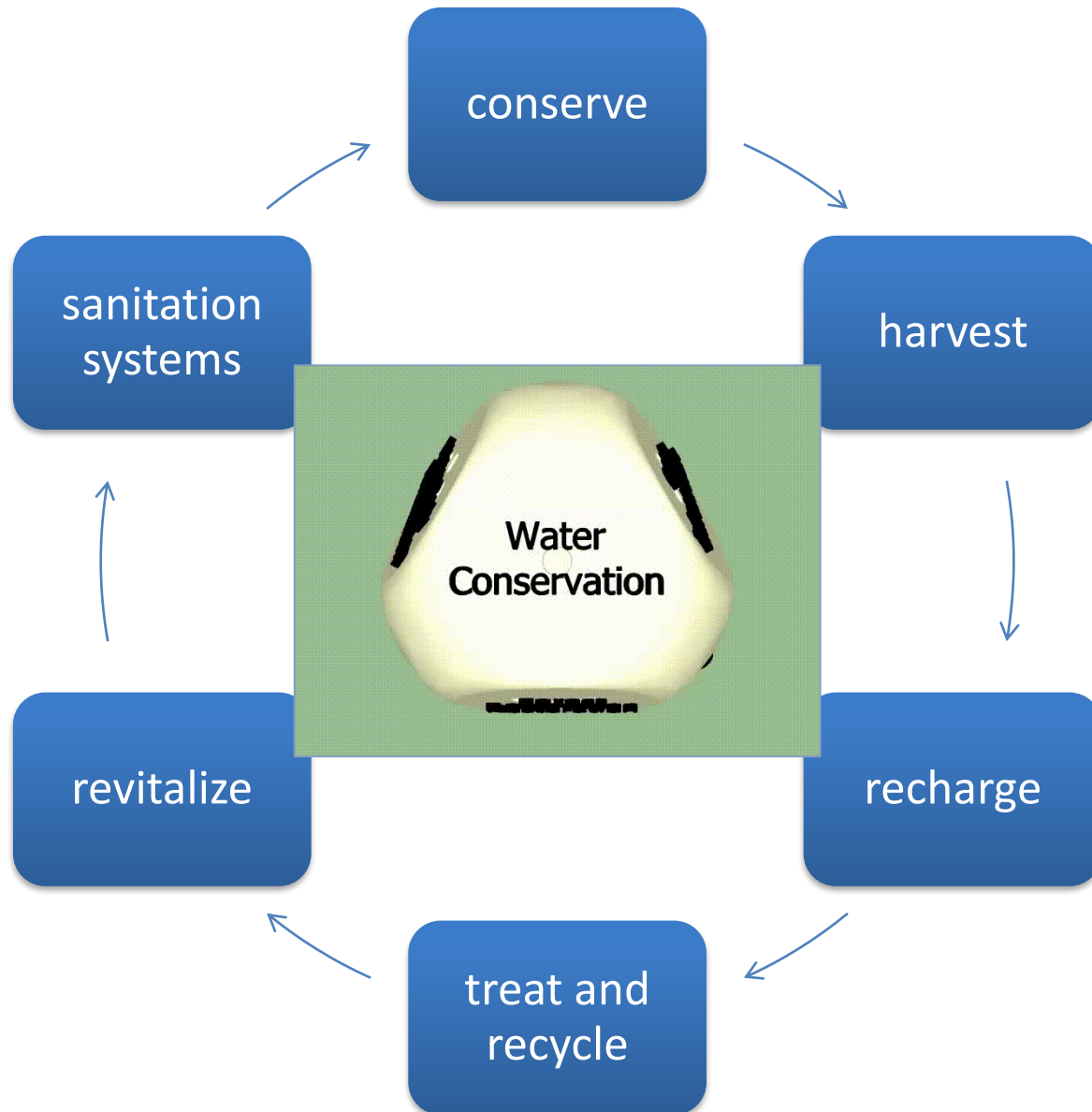
School enrolment/
attendance improves

HHs save Rs.700pm (10\$)
water purchase, cooking
fuel

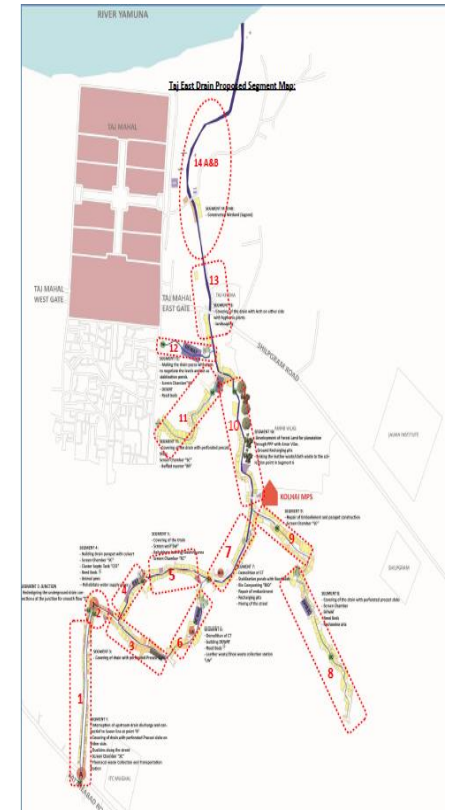
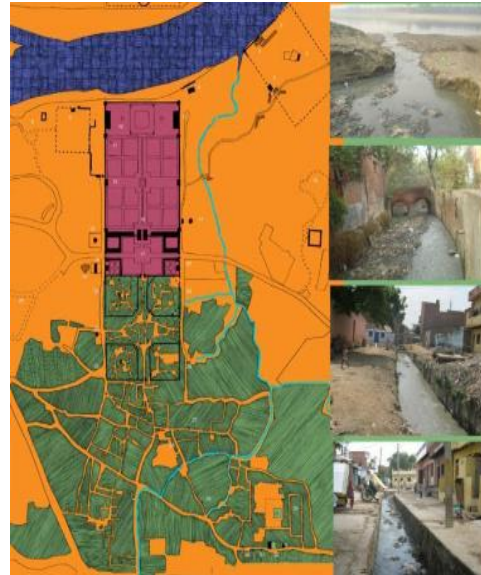
Social
empowerment

SMART city fund
leverage \$12m

City Partners in Planning the Ecosystem



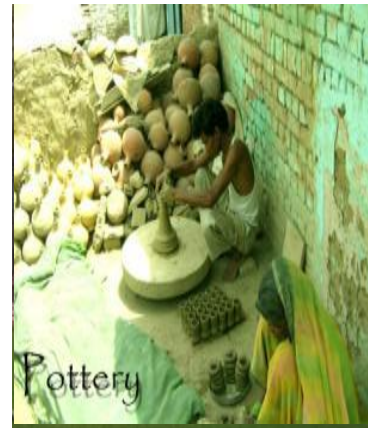
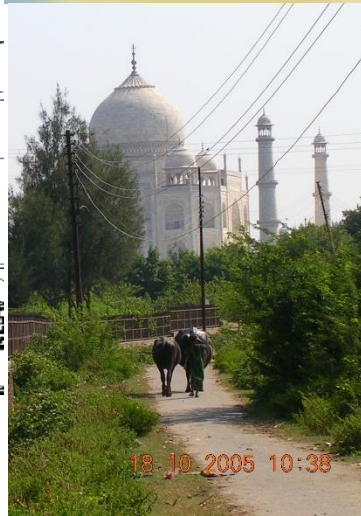
De-engineering: The Solution may lie elsewhere



Transforming Communities: Simplified infrastructure Networked

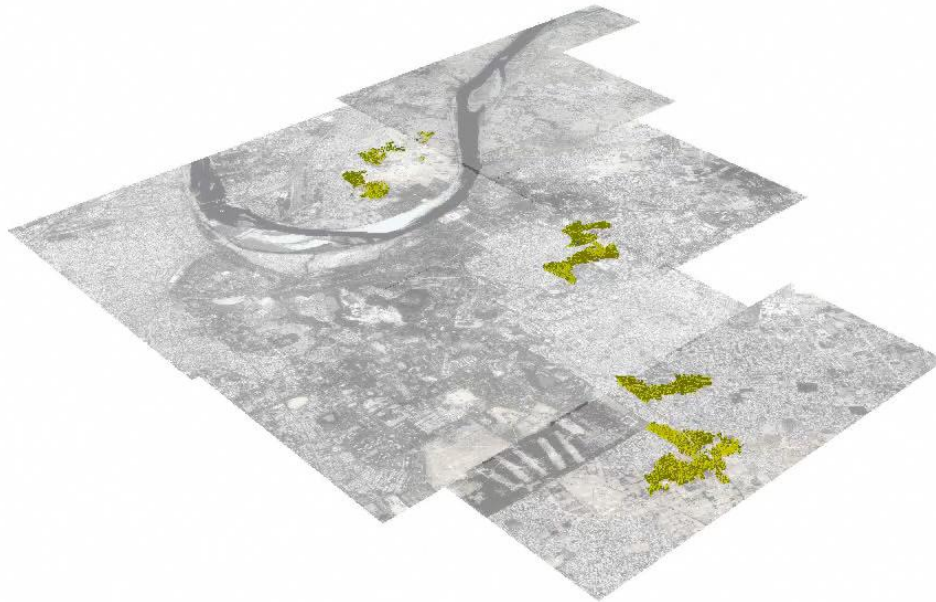


Building the Ecosystem



Data-driven Planning

The Power of Where with the Power of Communities



URBMAN: Democratizing Data and Planning


USAID URBMAN

Report Disease

Full name

Address

Type of disease in last 12 months: Malaria ▼



Where did you go to get the treatment? Government ▼

Specify the name of the hospital

How much did you spend for the treatment?
ex: 500rs



Health Planning

Lighting & Safety

Access to Green Spaces

Infrastructure Inventory

Water Supply

Community
Toilets
Public Toilets

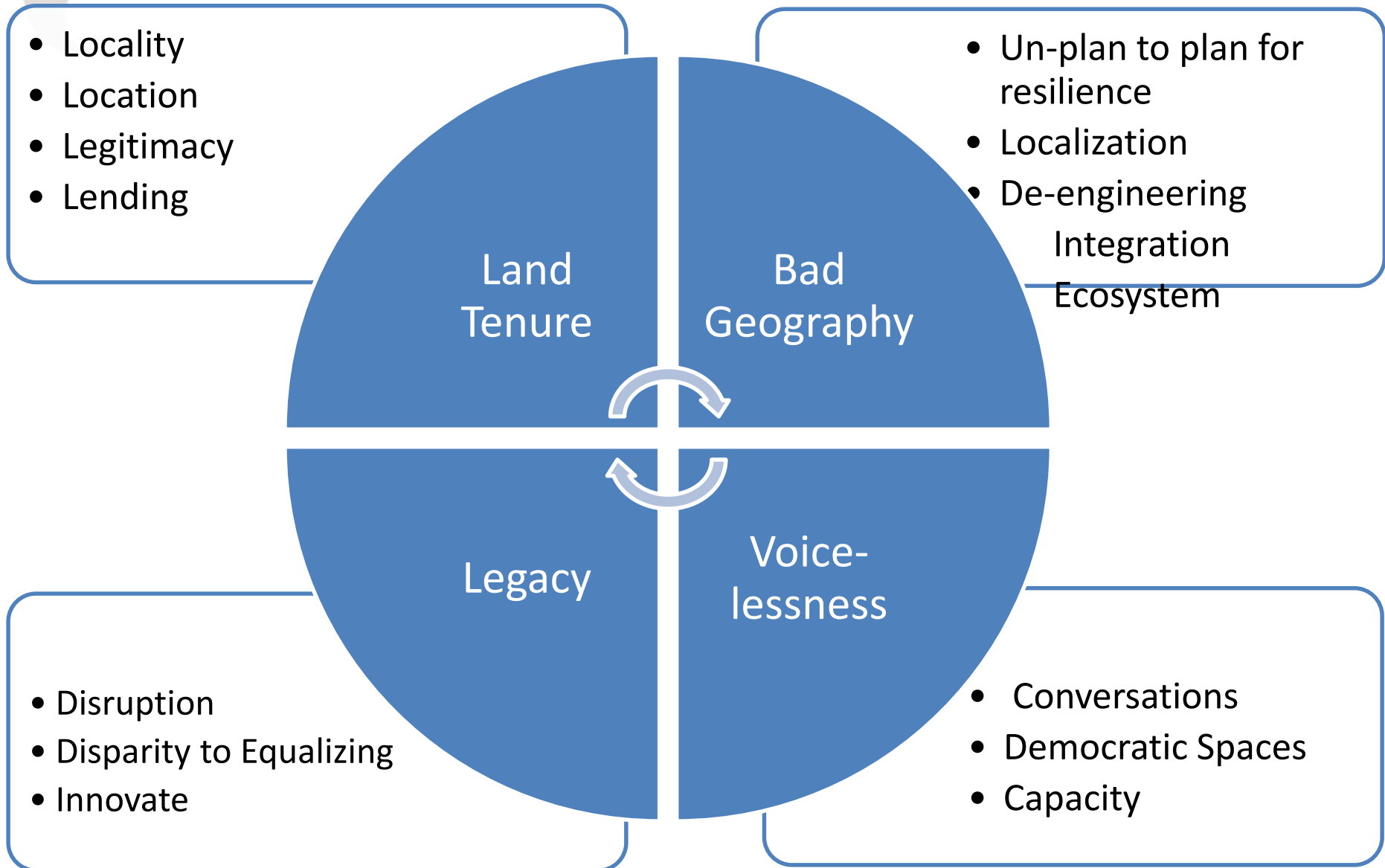
Vulnerability Assessment

Flood Risk

Education Planning

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Inclusive Urbanism: Dare to Build a New Architecture



INCLUSION
is not just a Goal,

It has to be the Way
of Development -
of Doing Things

Cities must Dare to
Do

