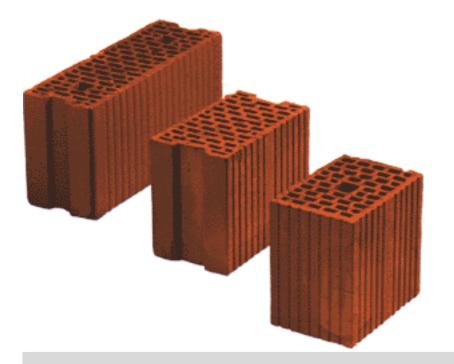


## **Integrated Resource Management in Asian Cities:**

THE URBAN







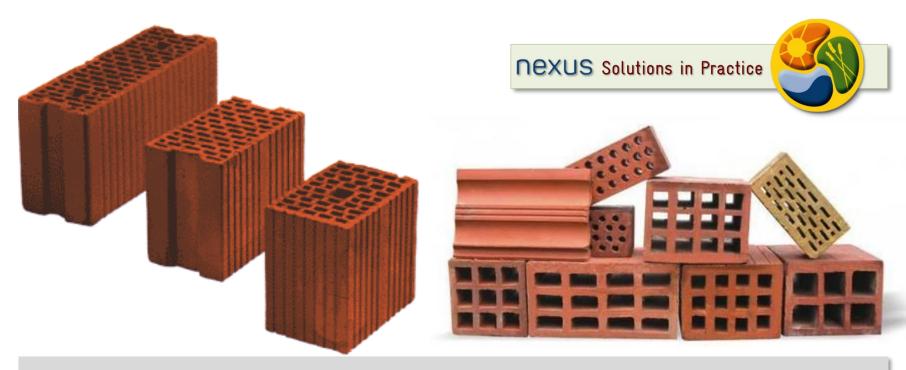
#### **NEXUS** Solutions in Practice





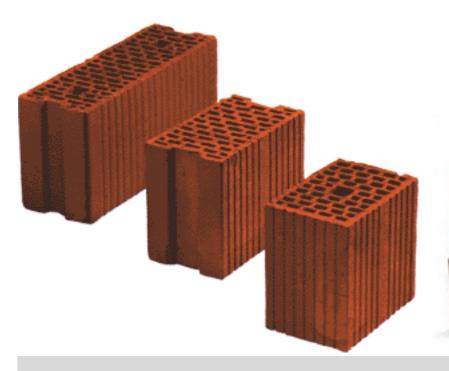
What are the differences in between the clay bricks?





These are **NEXUS** clay bricks!!!





**NEXUS** Solutions in Practice

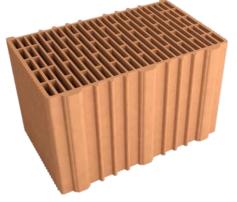




WHY are these Nexus bricks?









# **NEXUS** bricks need:

30 - 50%

- Less land for raw materials (clay)
- Less water consumption
- Less burning fuel

### nexus

bricks have:

30 - 50%

- Less transportation cost (fuel)
  - for raw material
  - for brick delivery
- Less operation cost (mixing, etc.)
- Less CO2 emissions
- Less labor cost











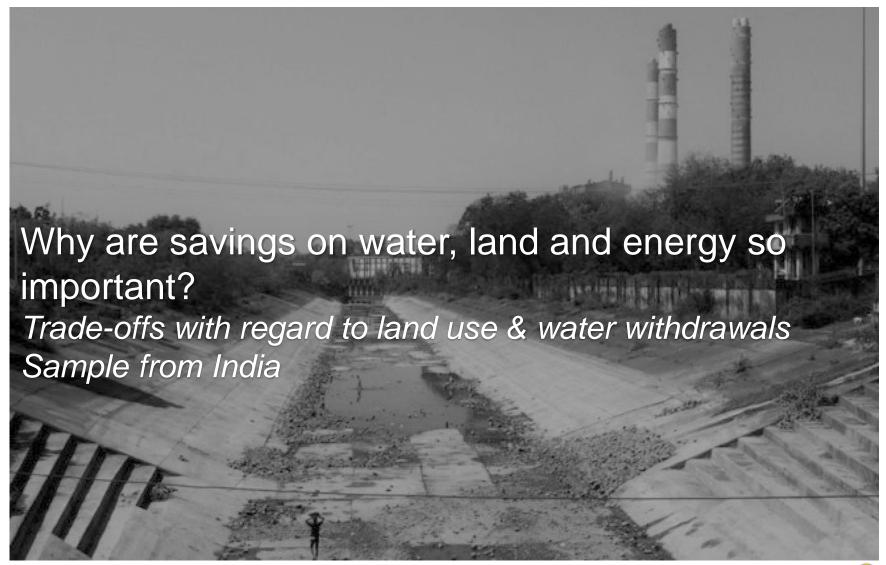


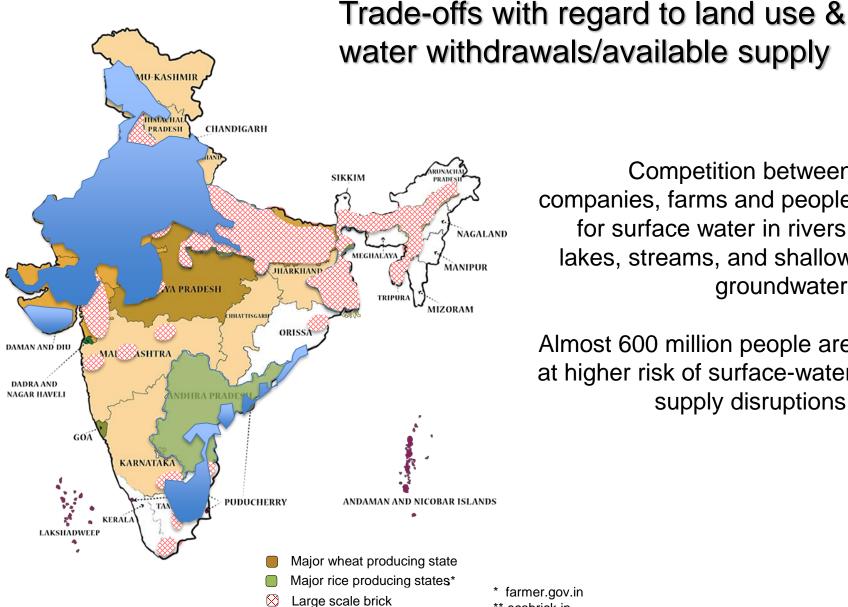












Competition between companies, farms and people for surface water in rivers, lakes, streams, and shallow groundwater.

Almost 600 million people are at higher risk of surface-water supply disruptions.

- \* farmer.gov.in
- \*\* ecobrick.in

Water stress extremely high,

withdrawals/available supply\*\*\*

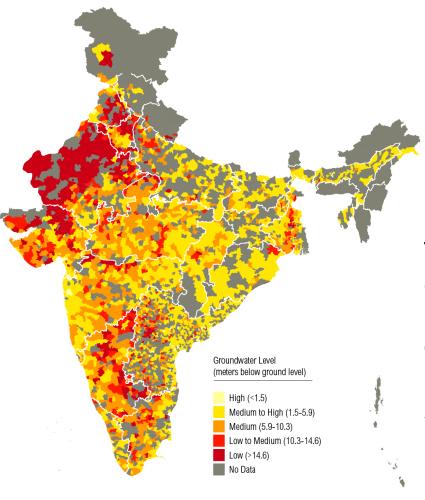
>80%

\*\*\*world resouces institute



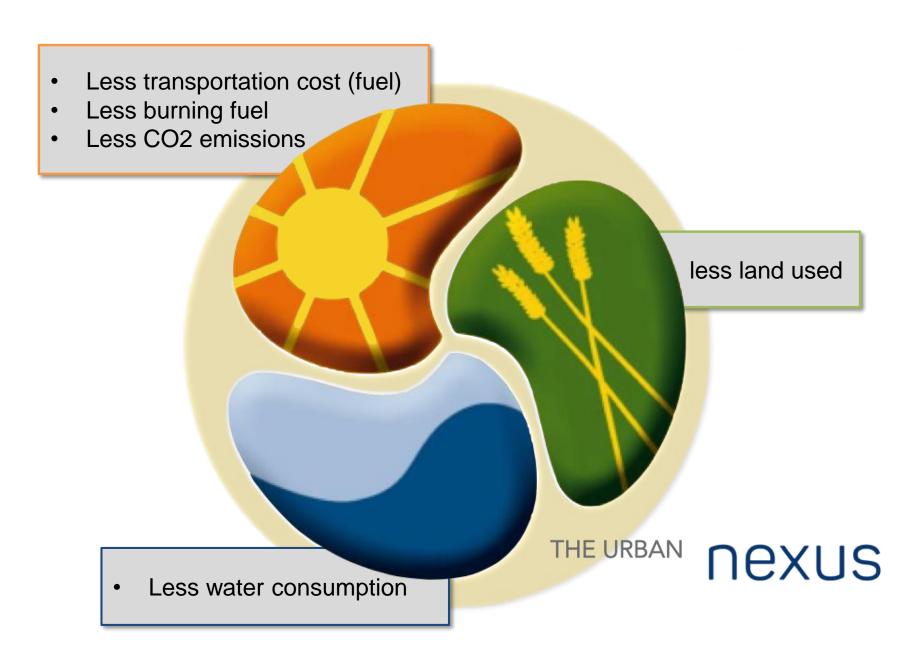


54% of India's Groundwater Wells Are Decreasing



The map shows groundwater changes in India during 2002-08, with losses in red, based on GRACE satellite observations











### Solution:

Change of building material products and there production method

















# nexus

bricks apt for new construction technologies:

#### e.g. Slab construction

- Reduced mechanization on the construction site
- Simple, quick and economical construction method
- Reduced proportion of concrete and reinforcement
- Optimized fire und sound protection
- Simplified installation of electrical installation









