BEYOND THE BUILDING: TOWARDS THE REGENERATIVE CITY

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VISIONS OF REGENERATIVE BUILDINGS
CIRS DRAMATICALLY DEMONSTRATES WHAT IS POSSIBLE
BUT CAN WE SHIFT UP TO CITY SCALE?
THE WORLD’S GREATEST MIGRATION

Percentage of World Population

ECOLOGICAL DISRUPTION?
OVERCONSUMPTION?
POLLUTION?
NATURAL HAZARD EXPOSURE?
TECHNOLOGICAL HAZARD EXPOSURE?
EPIDEMICS?
CRIME AND VIOLENCE?
CENTRES OF CREATIVITY
LOCK-IN & PATH DEPENDENCE
QWERTYUIOP
PATH DEPENDENCE
IDEAL URBAN MORPHOLOGIES...THEN
AND NOW!
MALADAPTATION

URBAN HEAT ISLAND

Little vegetation or evaporation causes cities to remain warmer than the surrounding countryside.
THE GREAT STINKS
CLOSING THE LOOP
THE WATERLESS ALTERNATIVE
A HARD LIFE?
THE CULPRIT
FROM SLEEPY SOUTHERN TOWN
TO “NEW YORK OF THE SOUTH”
UNSUSTAINABLY
TIME FOR A NEW LOOK AT OLD TECHNOLOGY
RETHINKING THE PRIVATE CAR
FROM REPEAL OF THE LOCOMOTIVE ACT - 1895
TO GLOBAL INFRASTRUCTURE DOMINANCE – 100 YEARS
AVERAGE URBAN SPEEDS UNCHANGED!
BEYOND THE BORIS BIKE
TRANSITIONAL TECHNOLOGIES
23 OF 30 LARGEST CITIES ON COAST
SHIPS SHAPED THE WORLD
VULNERABILITY DUE TO ASSET LOCATION
FLOOD PROTECTION INFRASTRUCTURE
CREATES NEW PROBLEMS
RESOURCE CONSTRAINTS
GEOGRAPHIC CHALLENGES
LESSONS FROM MARGINAL POPULATIONS
SUSTAINABLE ALTERNATIVES?
IMPACT = POPULATION x AFFLUENCE x TECHNOLOGY
TECHNOLOGIES ARE SOCIAL SYSTEMS MEDIATED BY MATERIALS AND DEVICES
“CONFIGURATIONS OF THINGS AND PEOPLE THAT WORK”
LANDSCAPES, REGIMES & NICHES
UNIVERSITIES AS CHANGE AGENTS
CONTEXT MATTERS
TECHNOLOGY REGIME CHANGE?
BEYOND THE UNIVERSITY

BREEAM COMMUNITIES – IMPROVE, MEASURE AND INDEPENDENTLY CERTIFY THE SUSTAINABILITY OF PLANNING PROPOSALS

www.breeam.org/communities
ENERGY MODERNIZATION
PRICING IS NO SUBSTITUTE FOR EARLY INVESTMENT
NEED FOR PUBLICLY FUNDED ENERGY RDD&D

- New technology faces “the valley of death” 3-12 years
- Public funding required to reduce business risk
- Small carbon tax ($5/tonne) could raise $80-150 billion/year worldwide
- Opportunities for India and China
SYNERGIES?
SUSTAINABILITY IS NOT SIMPLY A DESIGN PROBLEM

IT IS A CHALLENGE TO THE MAGINATION
OXFORD PROGRAMME FOR THE FUTURE OF CITIES

www.futureofcities.ox.ac.uk

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