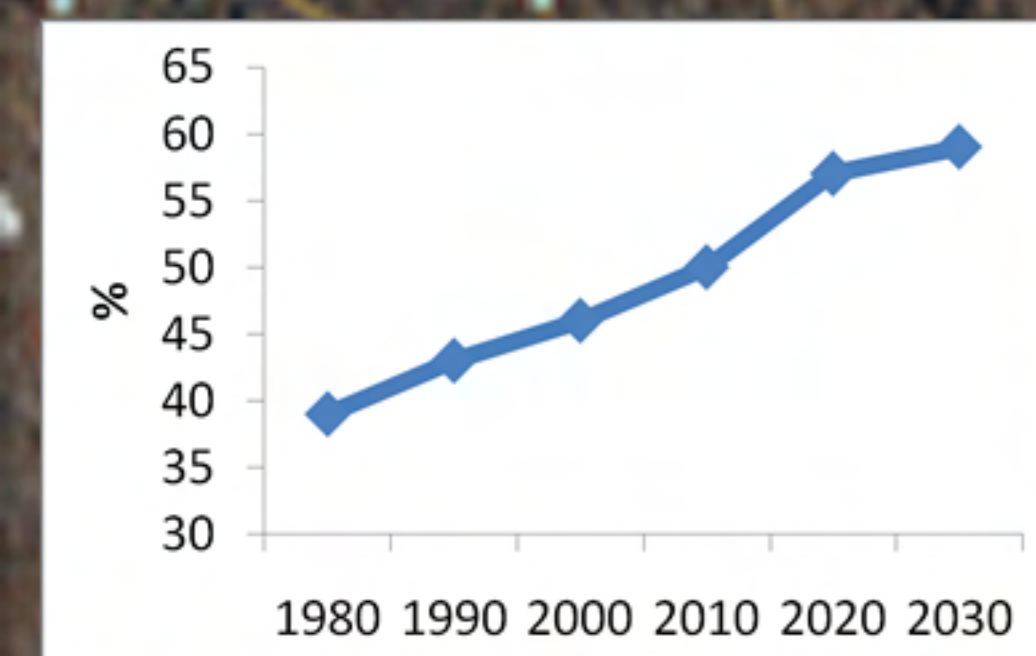


BAMBOO URBAN DENSITY BUILDING

EcoCity 2011, Montreal, Aug 22-25
ingemar@saevfors.se

www.saevfors.se

urban sprawl
= transport
problems =
unemployment



History and Forecast: % of World Population Urbanized, 1980-2050 (Source: UN - Dept of Economic and Social Affairs)

urban density is needed
for rational land use,
service provision and
efficient infrastructure



Oil price history, USD-Barrel/2000-2011
Source: US-EIA Energy Information Administration

but!!
dense, multilevel
construction = price
rocketing concrete &
steel = high energy
toll and CO2 pollution



World Steel Price History (Rebars) 1999-2011
Source: steelonthenet.com

Bamboo is renewable,
fullgrown in 3 years,
promotes local economy,
sinks CO2,
makes earth quake safe multilevel
buildings...

11 ton test on a 2m x 15 cm bamboo pole at
Structural Engineering Lab, Gadjah Mada Univ,
Yogyakarta, Indonesia

Briefing/Contact
in English:
en Français:
Message drop >

..with key connector
components...

..and lowtox
insect protection
(boron derivatives)

...with
aesthetic
qualities...

Eco-Cultural Center, Pardiniho, São Paulo, Brazil.
Architect: Leiko Motomura

... can provide erosion
mitigation as gabions
with rooting plants....

..with new design
concepts allowing for
urban comfort, weather
skin, flush walls, floor
tiles, AC economy, fire
protection...

FERRO-CEMENT
SKIN