

Towards an energy revolution for Europe

“The key role of Structural Funds for Sustainable Energy in the EU”

Cardiff, 9 June 2011

Gerard Magnin

Executive Director, Energy Cities



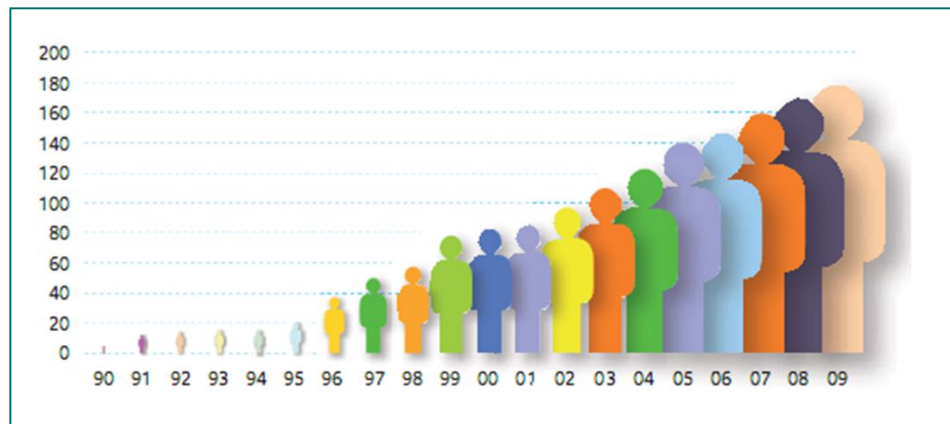
The European association of local authorities ...

...inventing their (energy) future



Energy Cities: a network

**1000 members
from 30 countries**



A constant and dynamic growth

Energy Cities: a vision

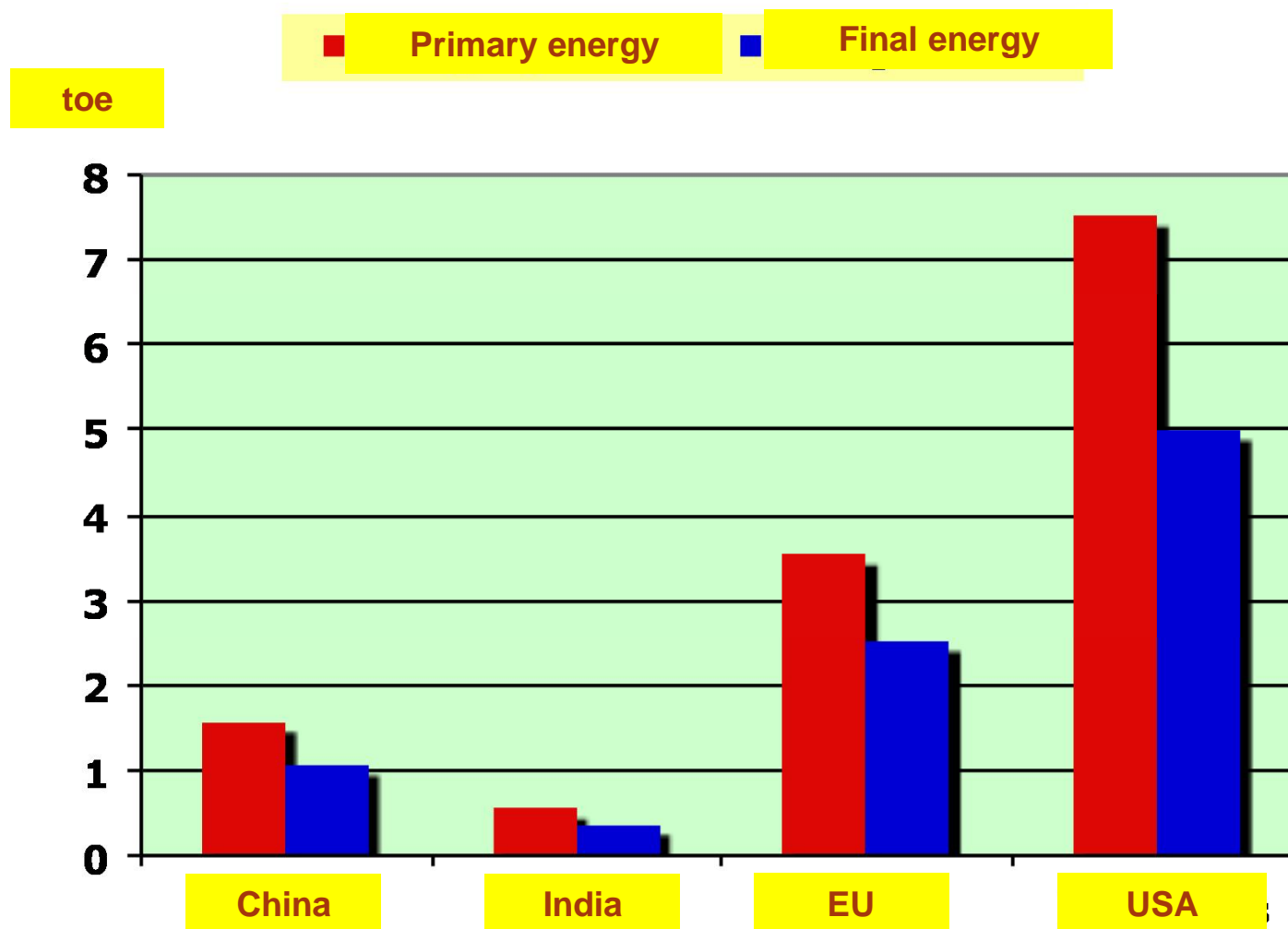


Our vision for tomorrow:
The low energy city with
a high quality of life for all

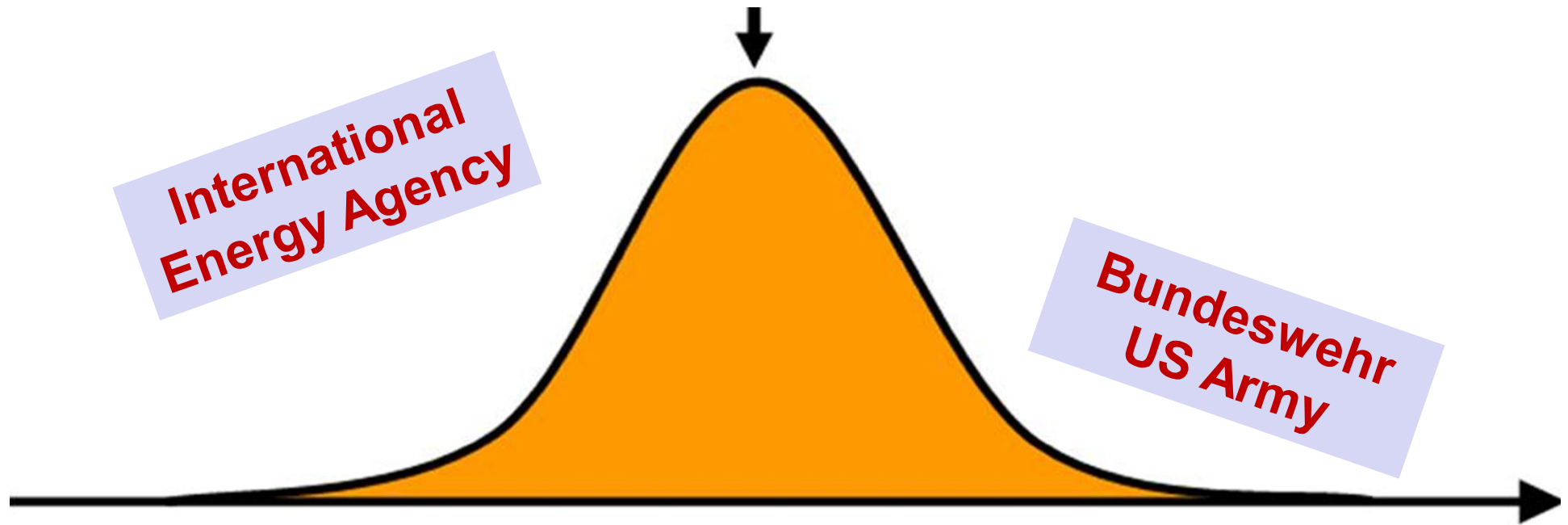


Civilisation

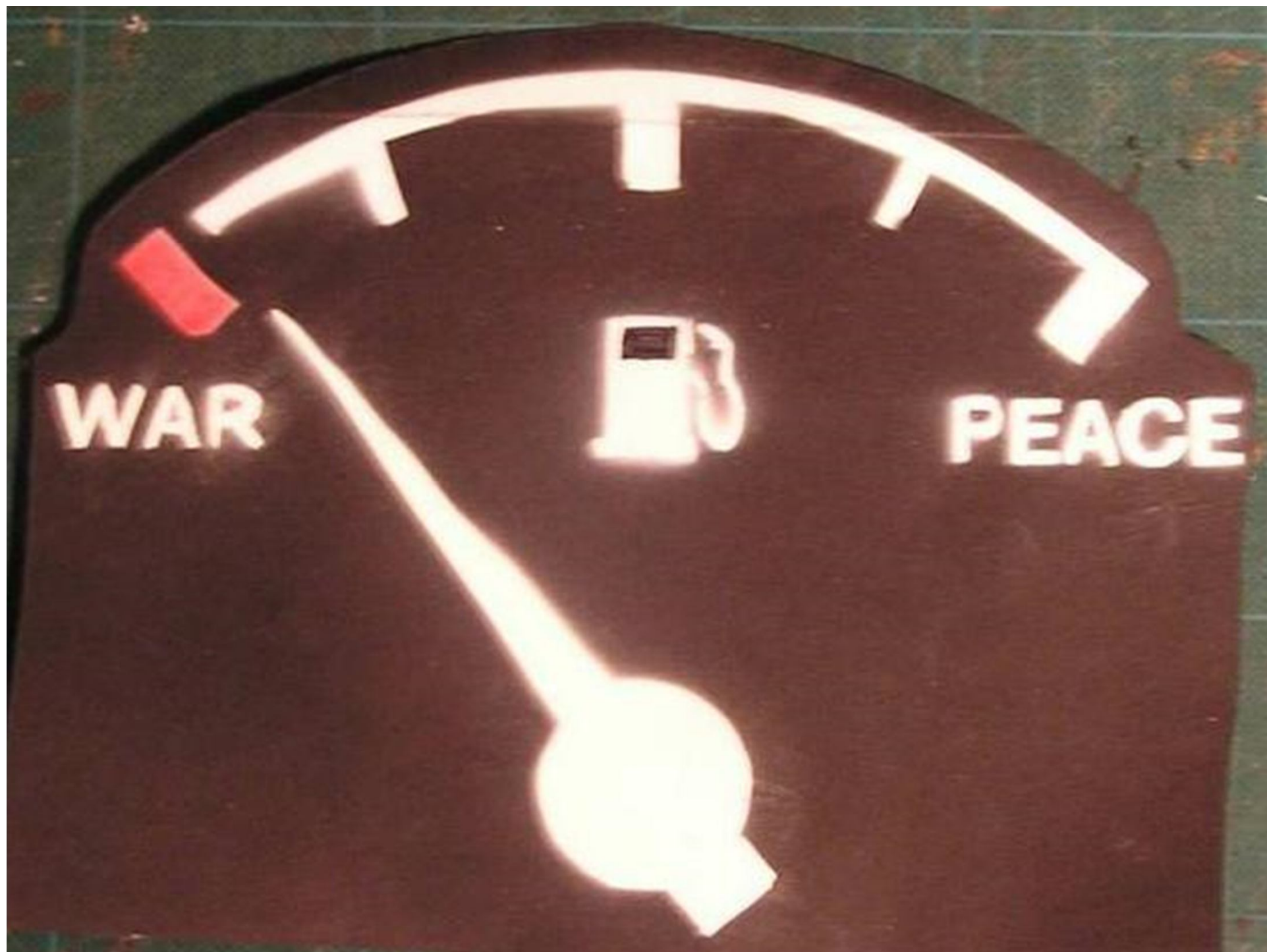
Energy consumption per capita (2008)



Wake up!!!



Peak oil





United Nations Climate Change Conference

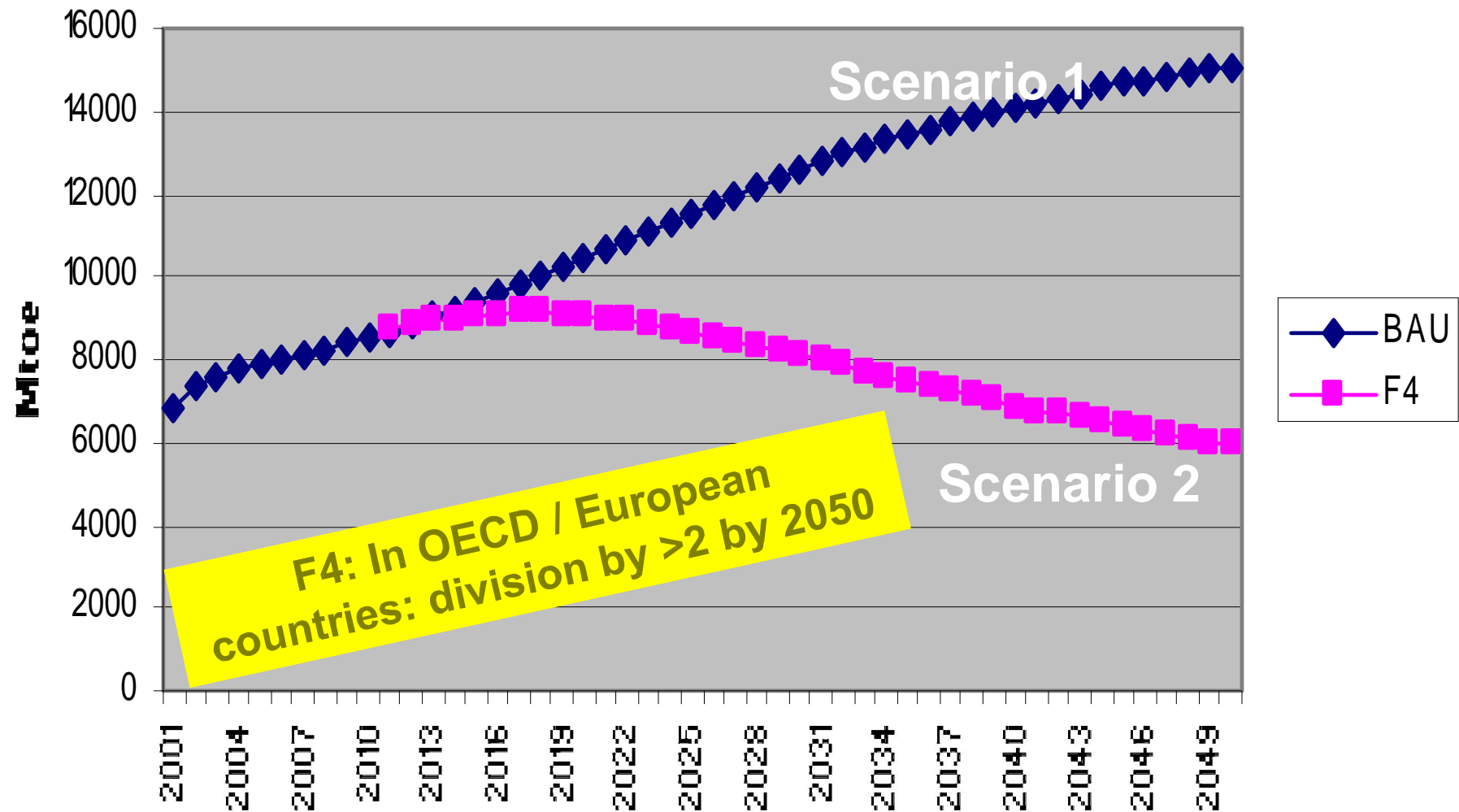
FOOD CRISIS



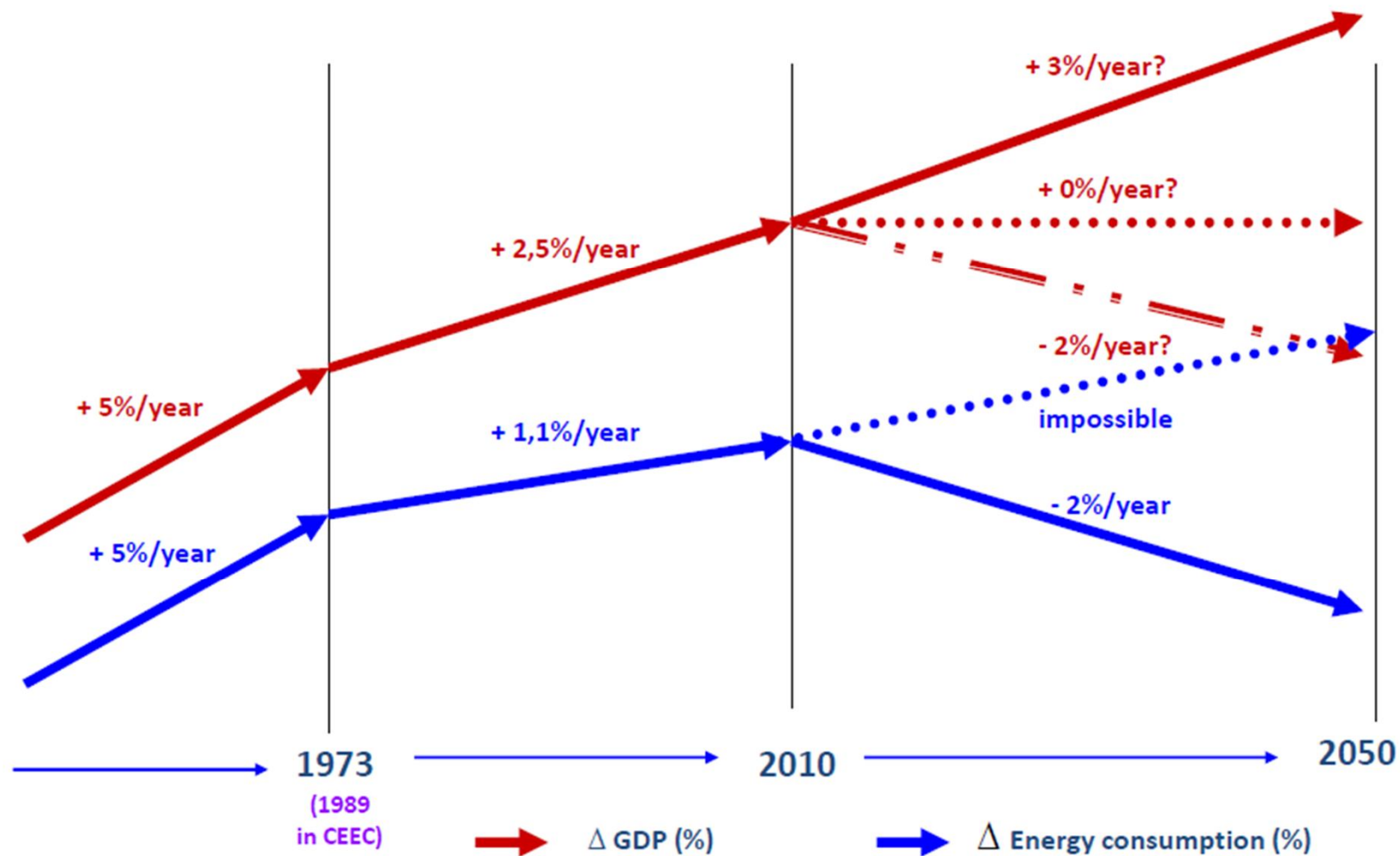


Sustainable World Final Energy Consumption

IMPOSSIBLE



Growth: what about our future?



CIVILISATION







Energy concept

Old/current paradigm

**(centralised)
Production**



Transmission



Distribution



Consumption

Emerging/future paradigm



**(low) Consumption
& (decentralised)
Production**

Old/current paradigm

**(centralised)
Production**



Transmission



Distribution



Consumption

Emerging/future paradigm

(centralised)

Production



Transmission

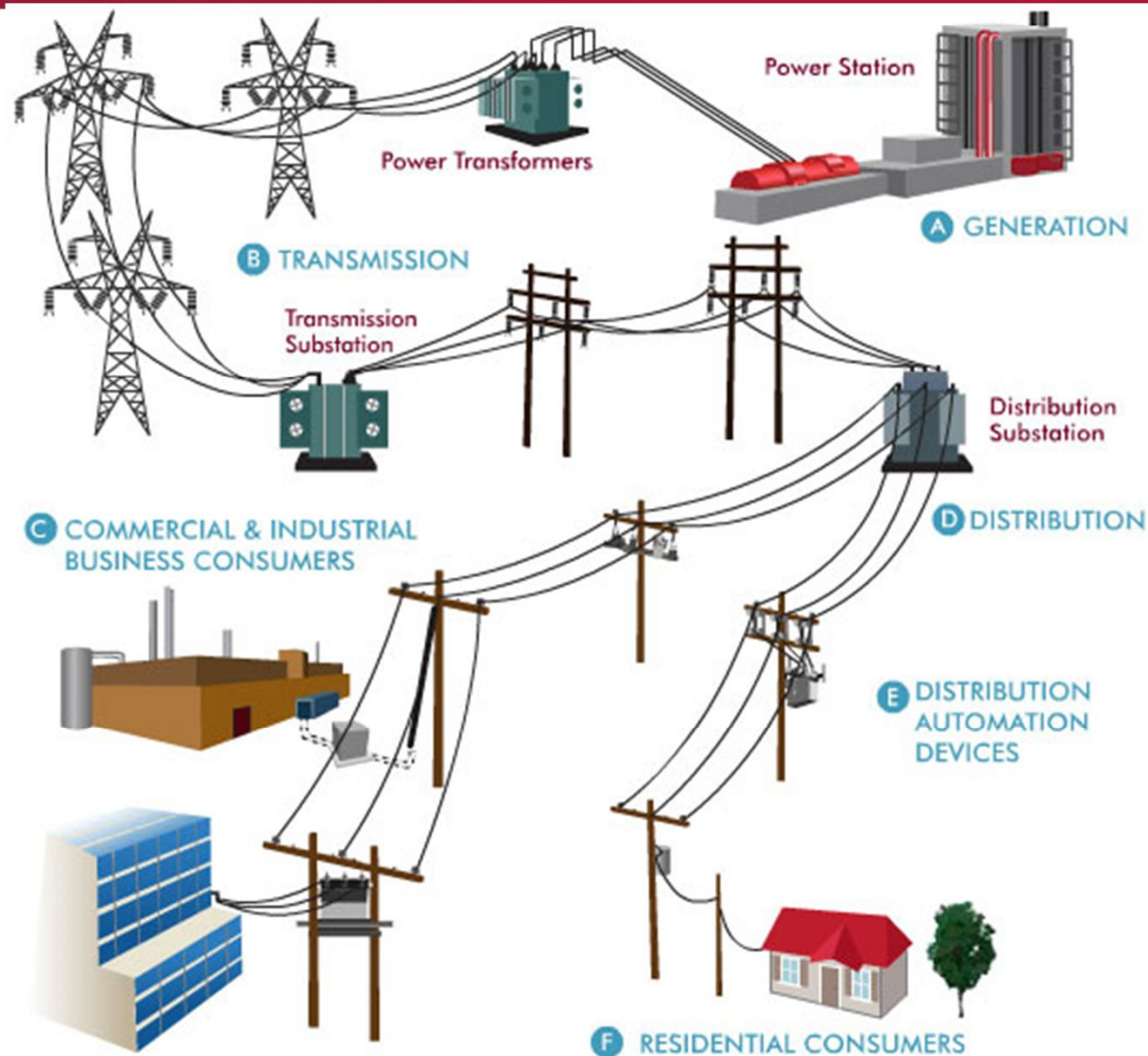


Collection &
Distribution

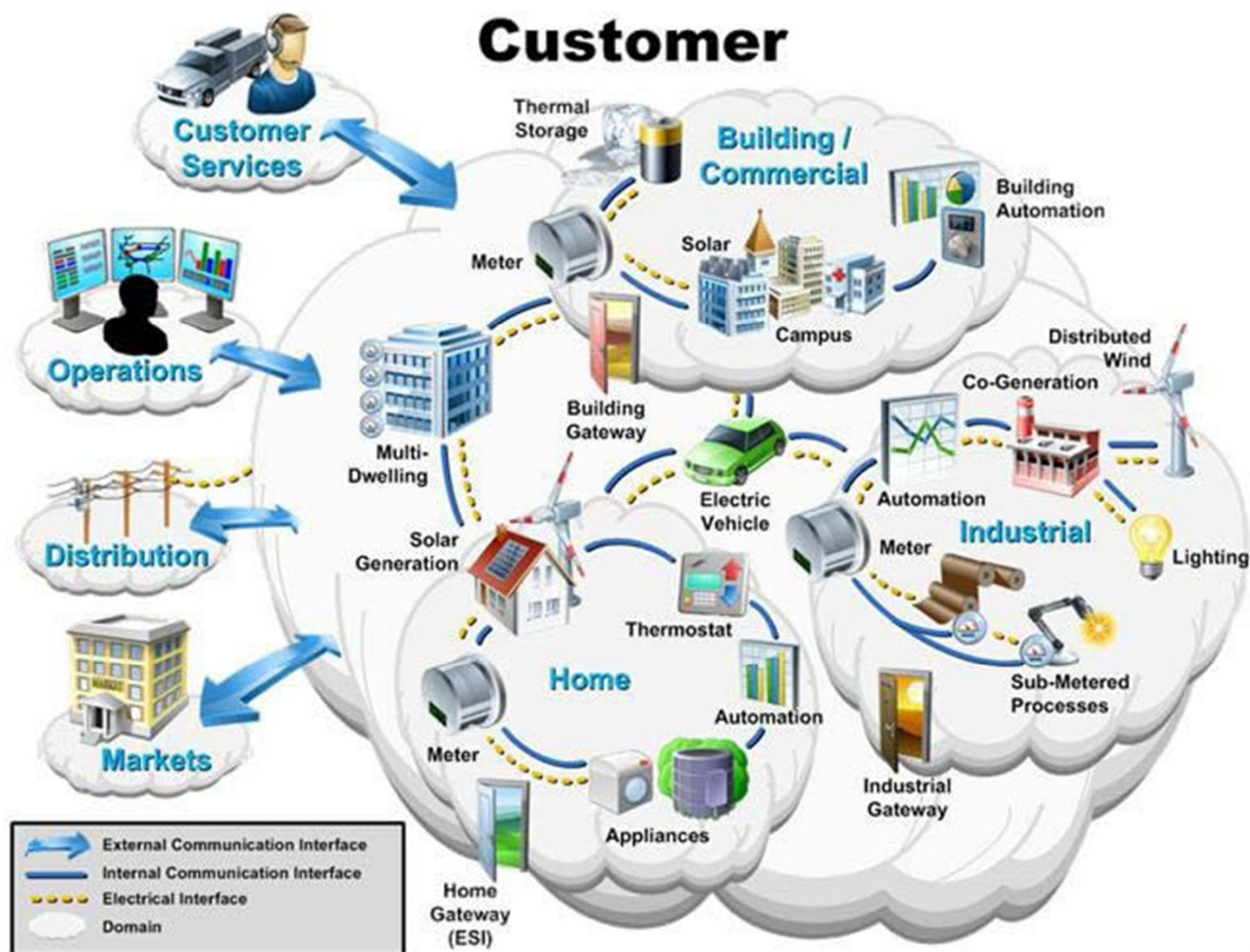


**(low) Consumption
& (decentralised)
Production**

Centralised grid



Distributed energy



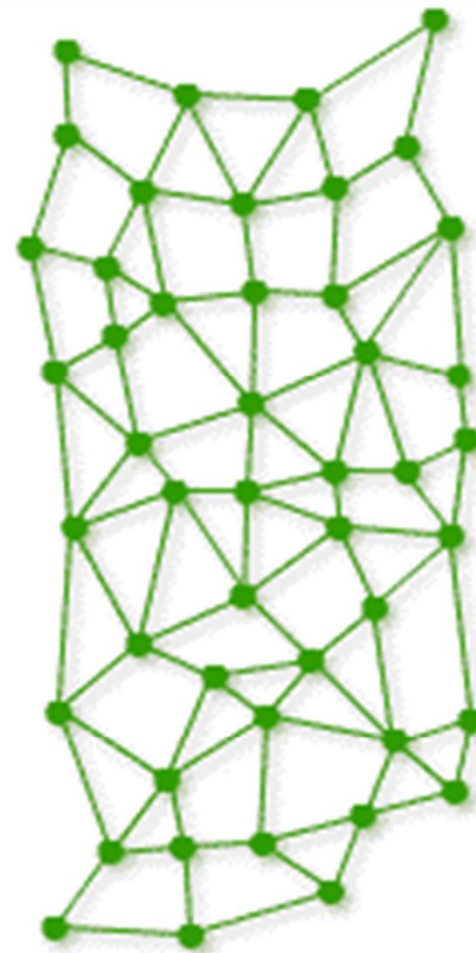
Horizontal organisation: intelligence at the heart!



(a) centralized



(b) decentralized

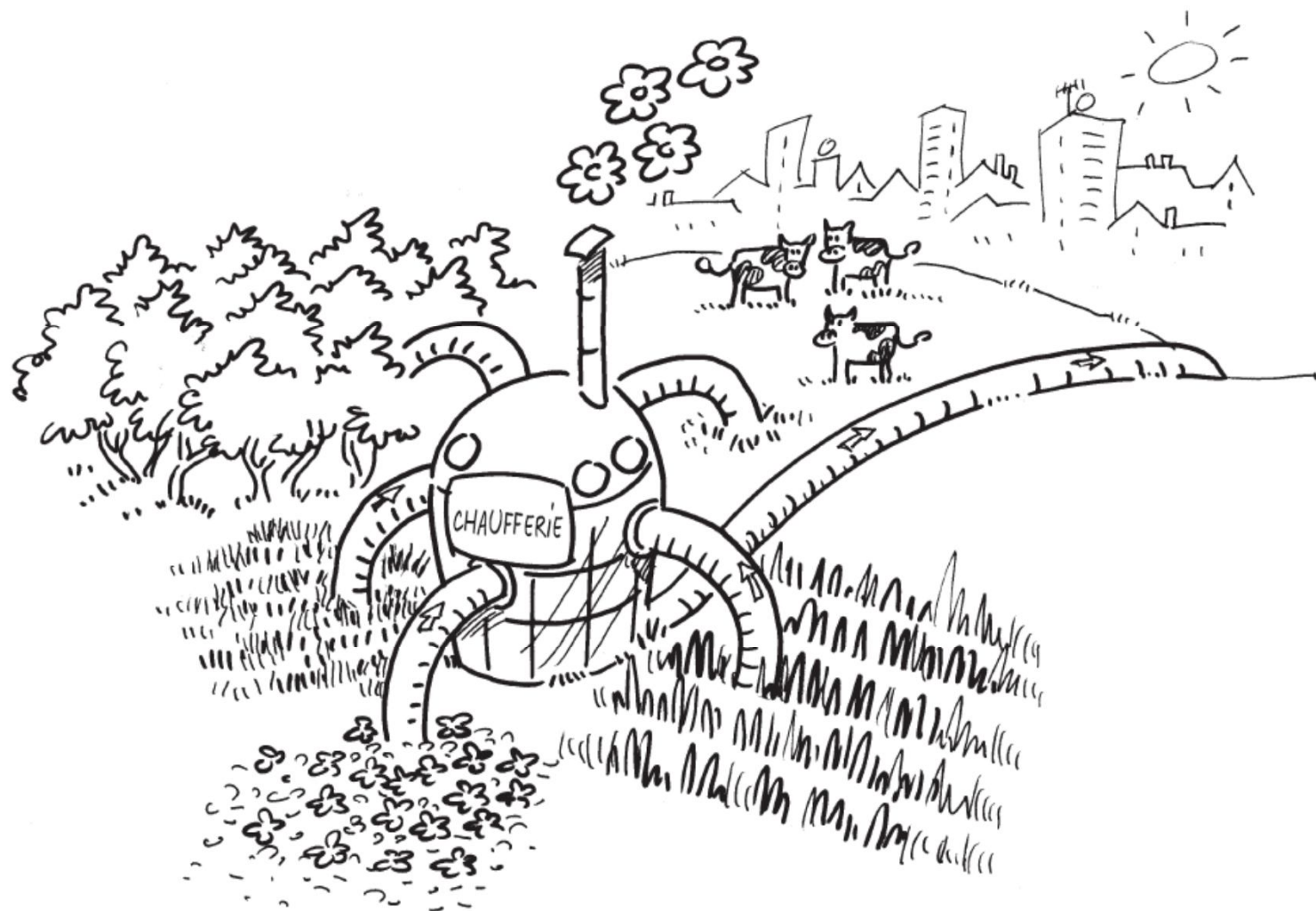


(c) distributed

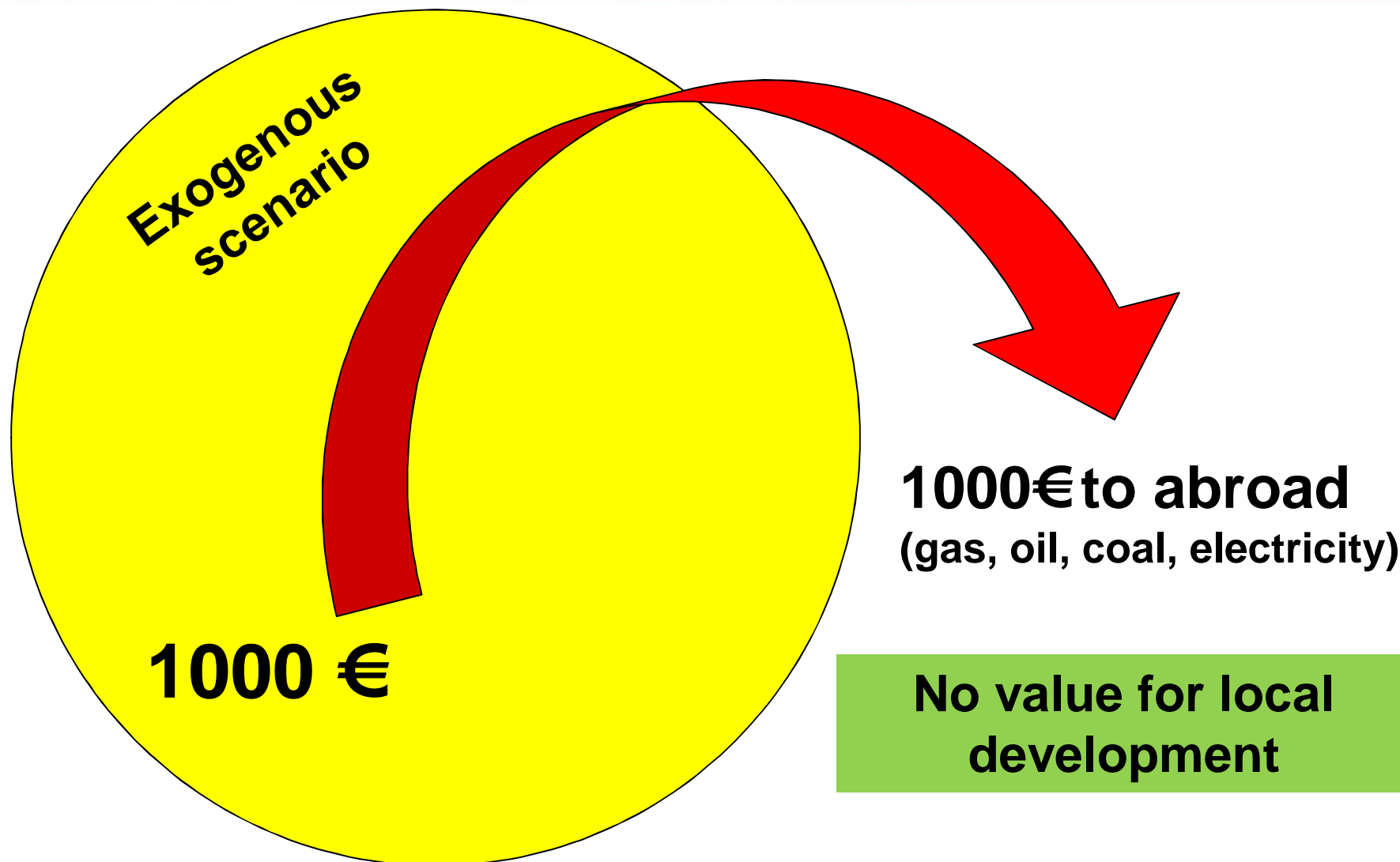


Territorial cohesion

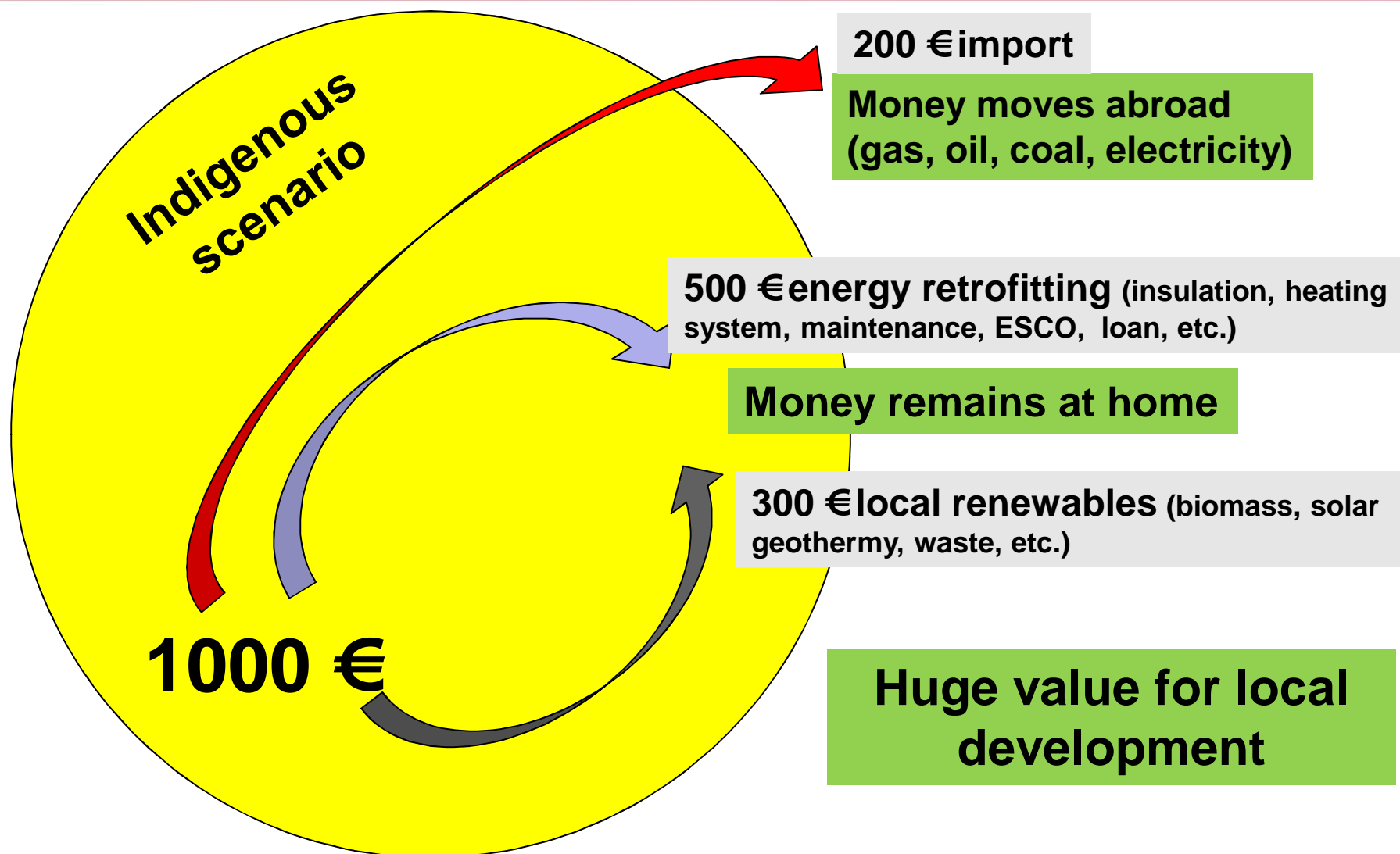
Keeping money ay home!



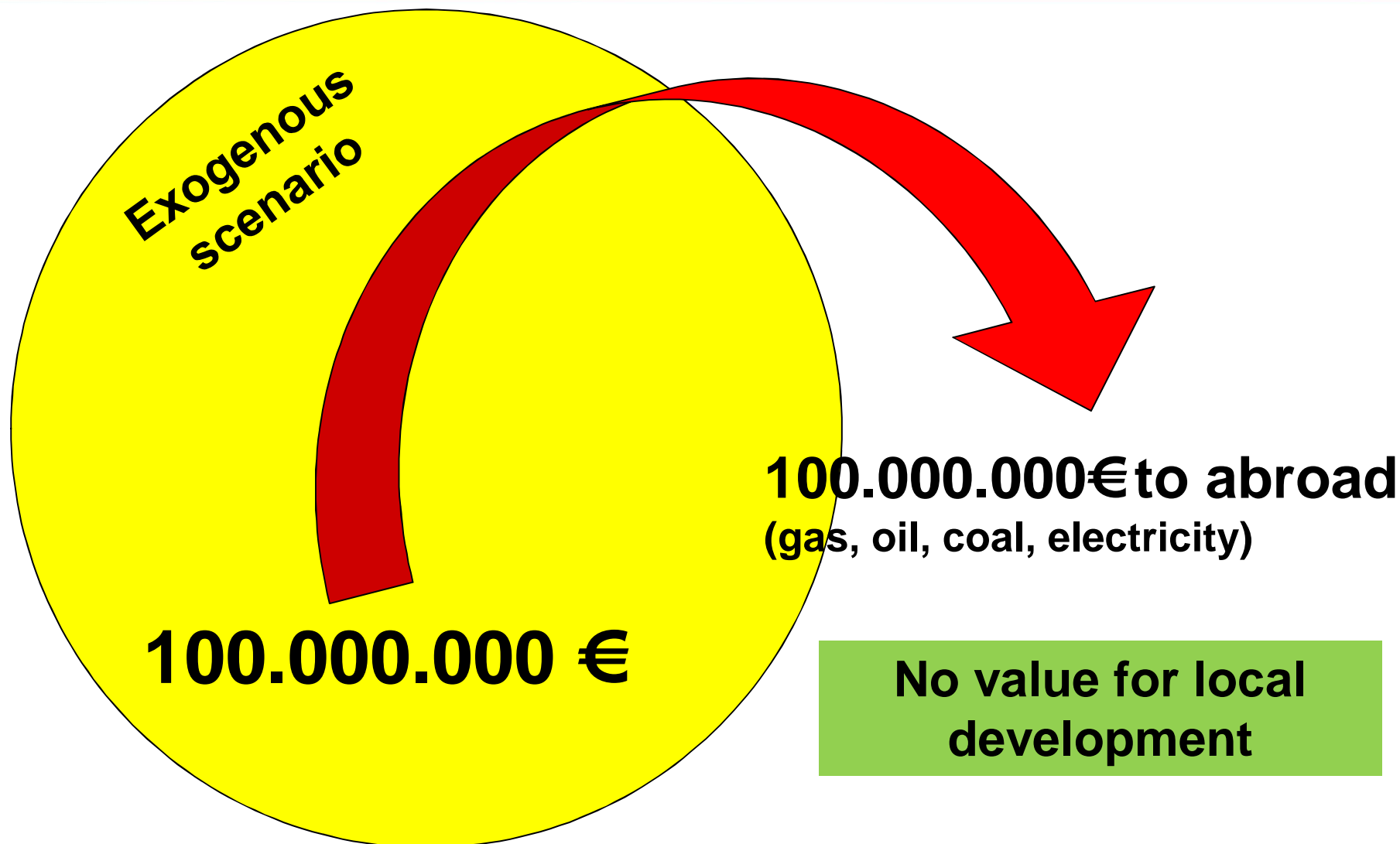
What to do with 1000 €/ year a family spends for heating and hot water



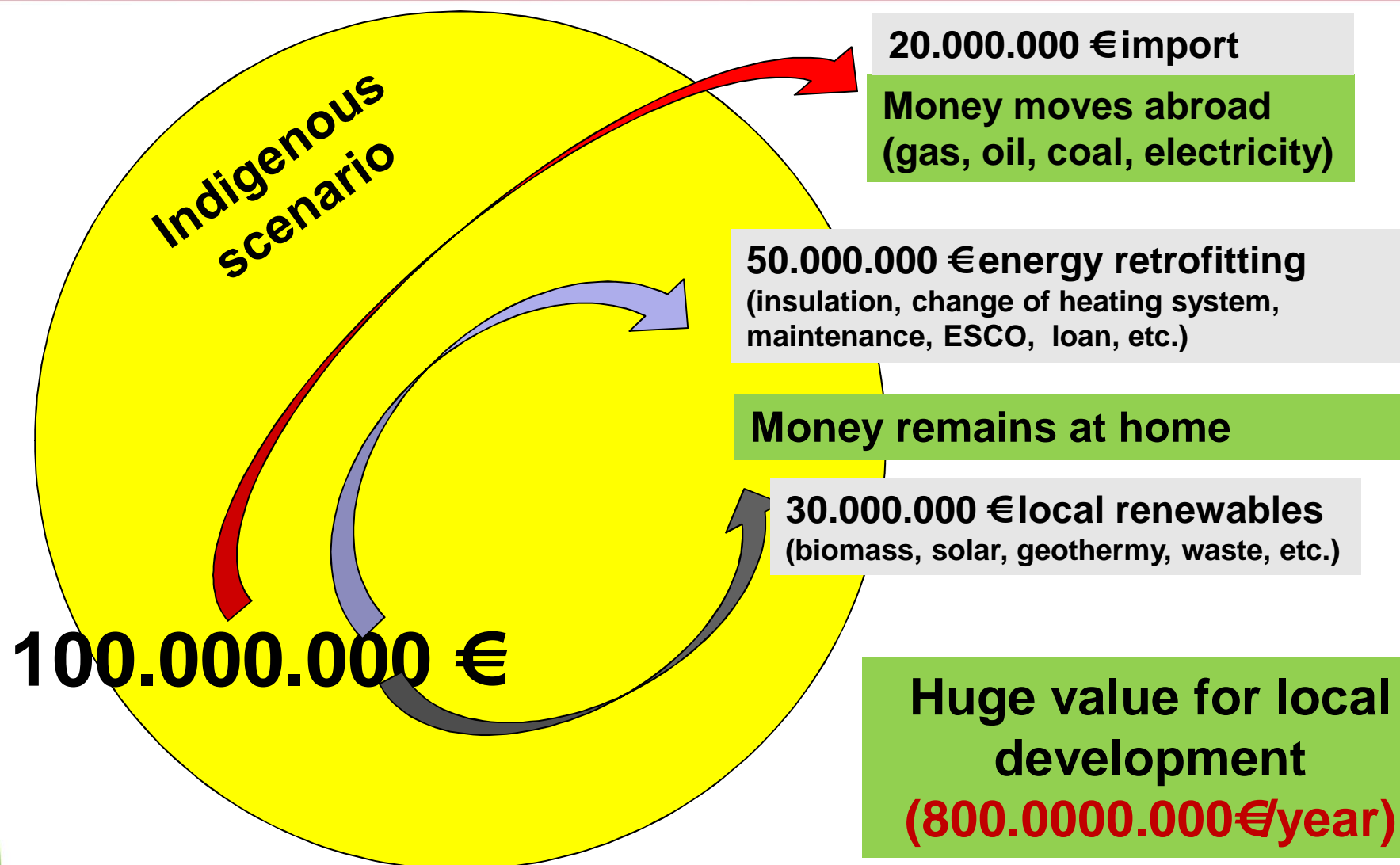
What to do with 1000 €/ year a family spends for heating and hot water



**At a city scale (250 000 inh.
i.e. 100 000 households)**



At a city scale (250 000 inh. i.e. 100 000 households)



“Energy subsidiarity”

1 – Consuming less
(energy saving + efficiency)



2 – Consuming “local”
(renewables, heat recovery)



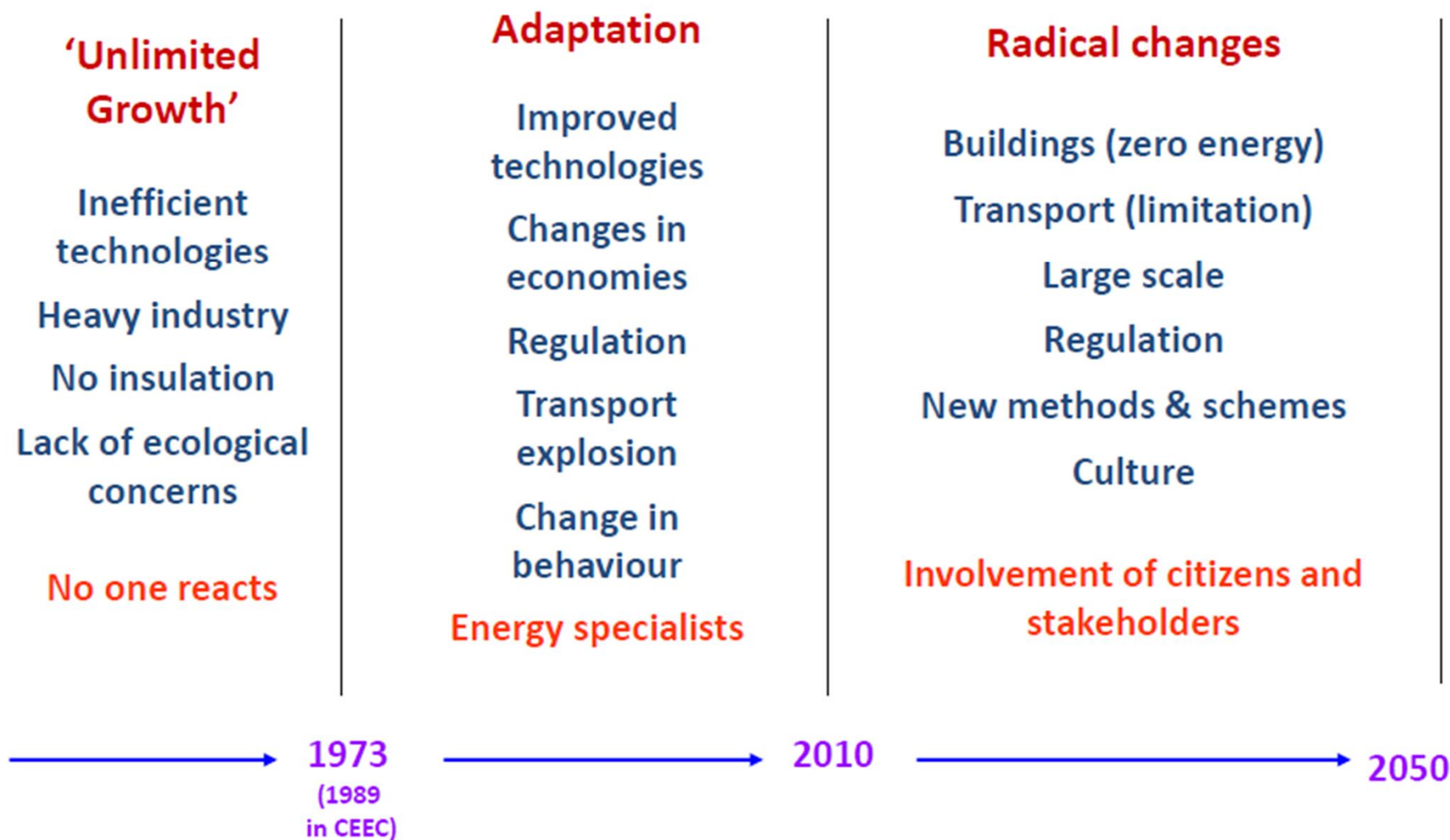
3 – Consuming “global”
(fossil fuels, etc.)



Actors

Towards radical changes

www.energycities.eu



**Together with local authorities,
an unlimited number of stakeholders**

**Housing
managers**

Architects Utilities Artists
Energy agencies Local Authority departments Consumers' Welfare office
Trade unions Journalists Artisans
Public transport companies Economists
Owners Planners Politicians Schools ESCOs Citizens
Developers Youth Renters Information centres
Shoppers etc.

Engaged People!



ENGAGE!

<http://www.citiesengage.eu/>



www.energycities.eu



Creation of “alliances for territorial energy” at all levels

European level



Relevant stakeholders



National level



Relevant stakeholders



Regional level



Relevant stakeholders



Local level



Relevant stakeholders

When > 2500 European Cities & Towns are committed to reach EU objectives



Just think differently!



Energy Cities: Where vision and action meet!

