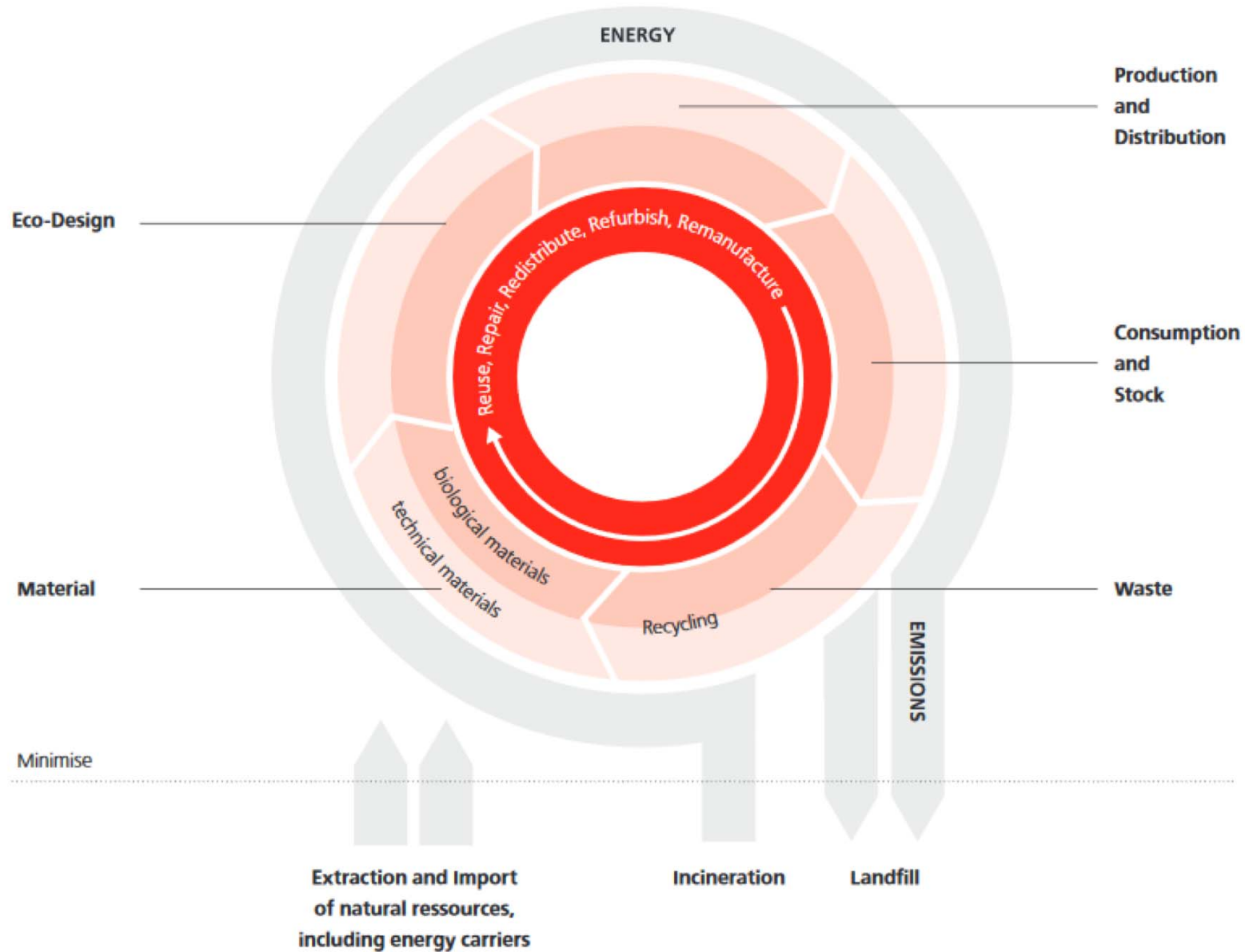


# The CE concept



Source: FEA 2015.

# Europe on its way towards a Circular Economy: the potential benefits

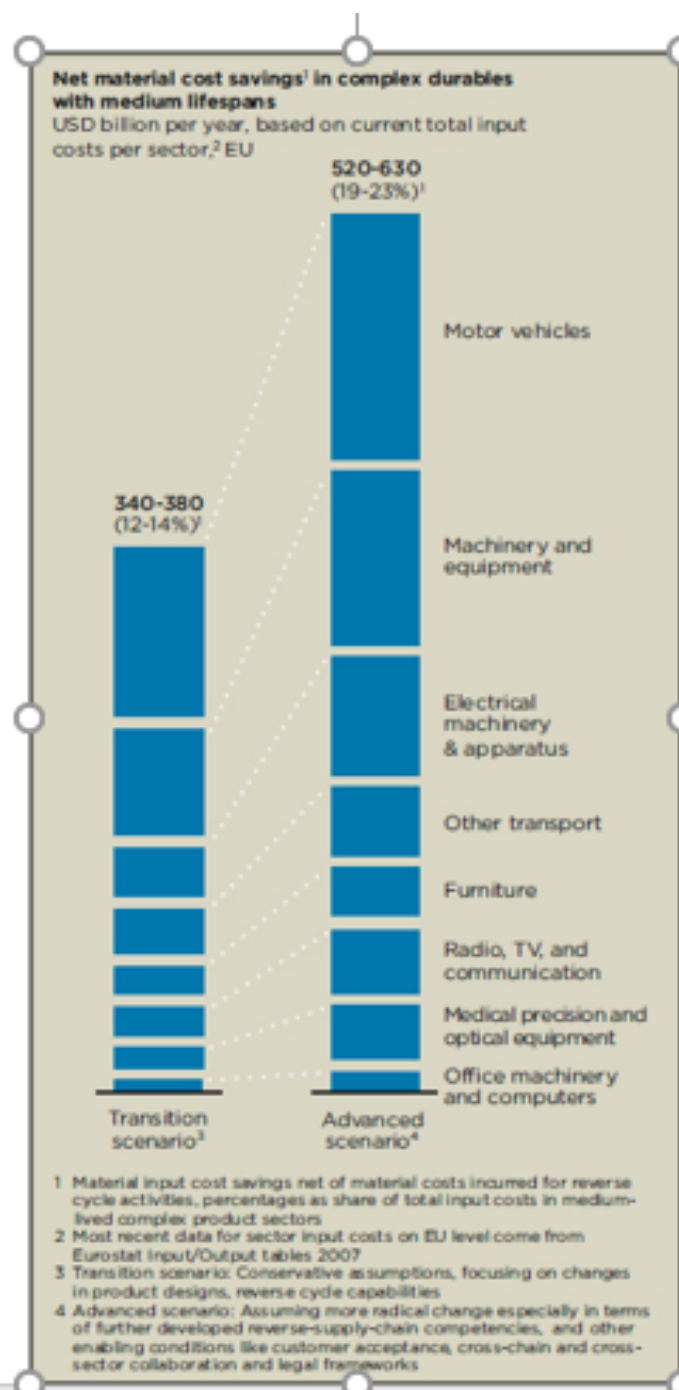
## High expectations:

*“...much brighter future for the European economy (...),”*  
*“prospect of sustainable growth that will last (...)”*

• Significant impact on innovation, capital productivity and reduced reliance on raw material imports

• Estimated annual net material cost saving potentials of up to USD 706 billion (EMF)

09.10.2017

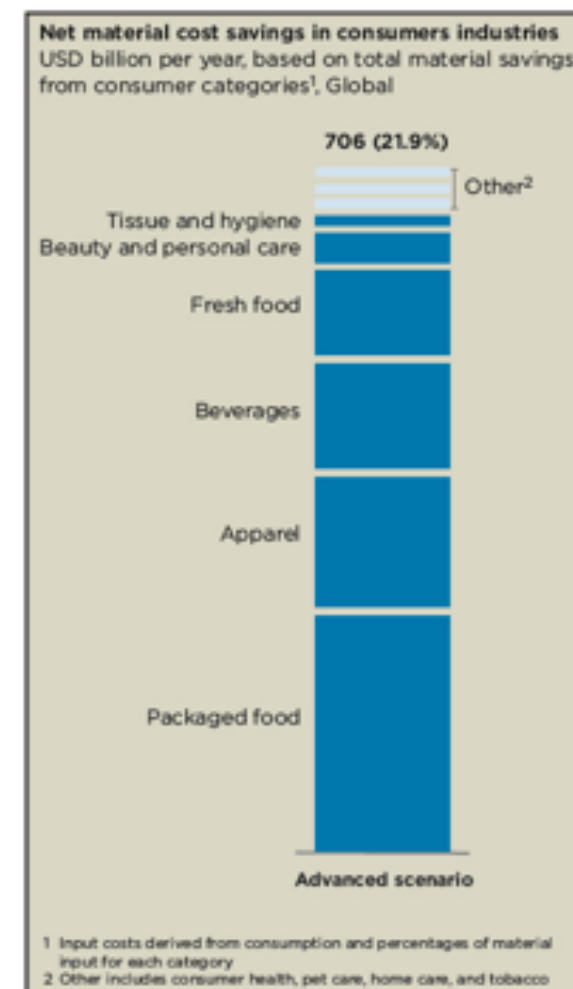


Adoption of circular setup in relevant medium-lived complex product sectors

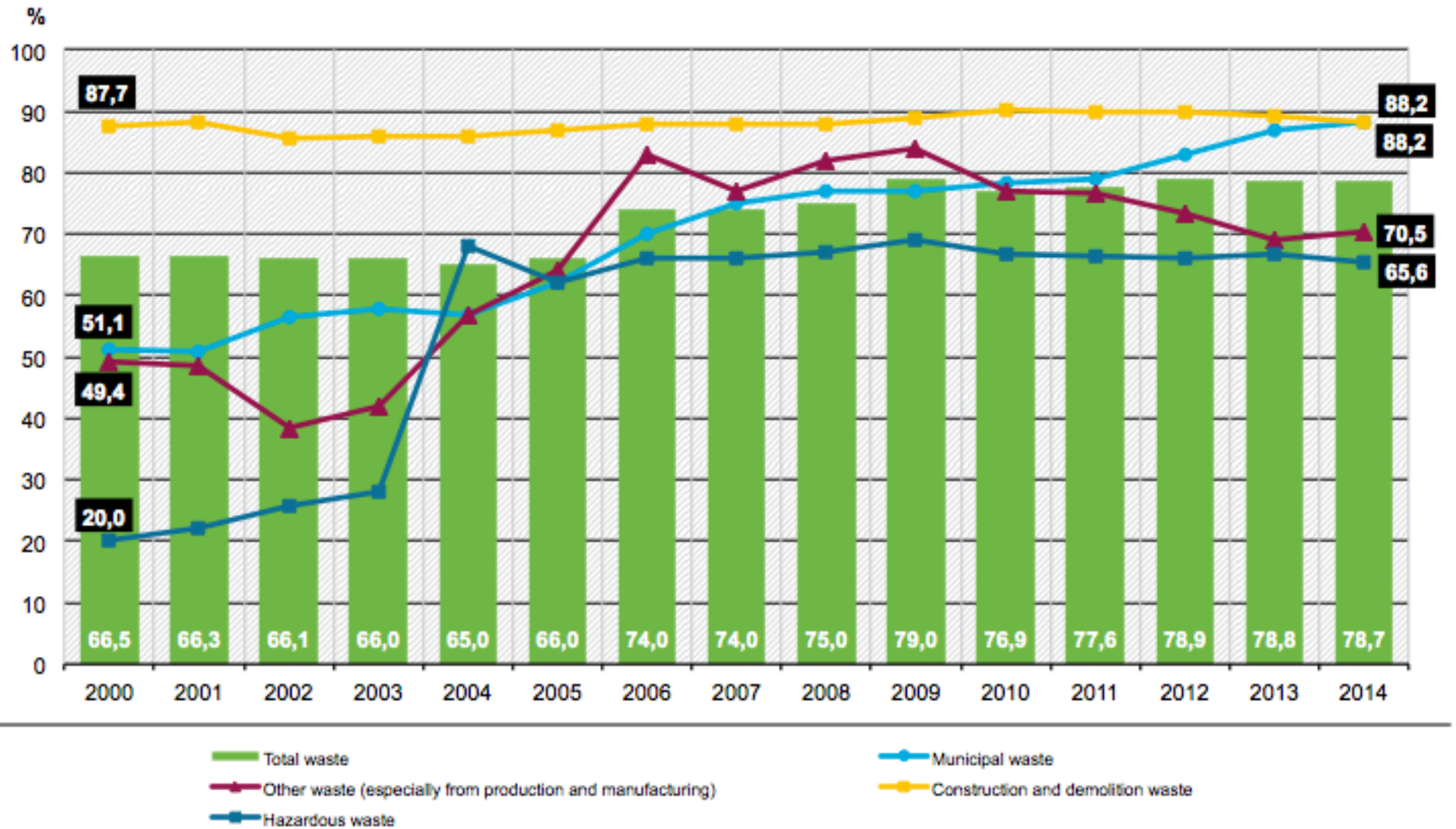
Source: EMF 2012

Adoption of circular setup in relevant fast-moving consumer goods sectors

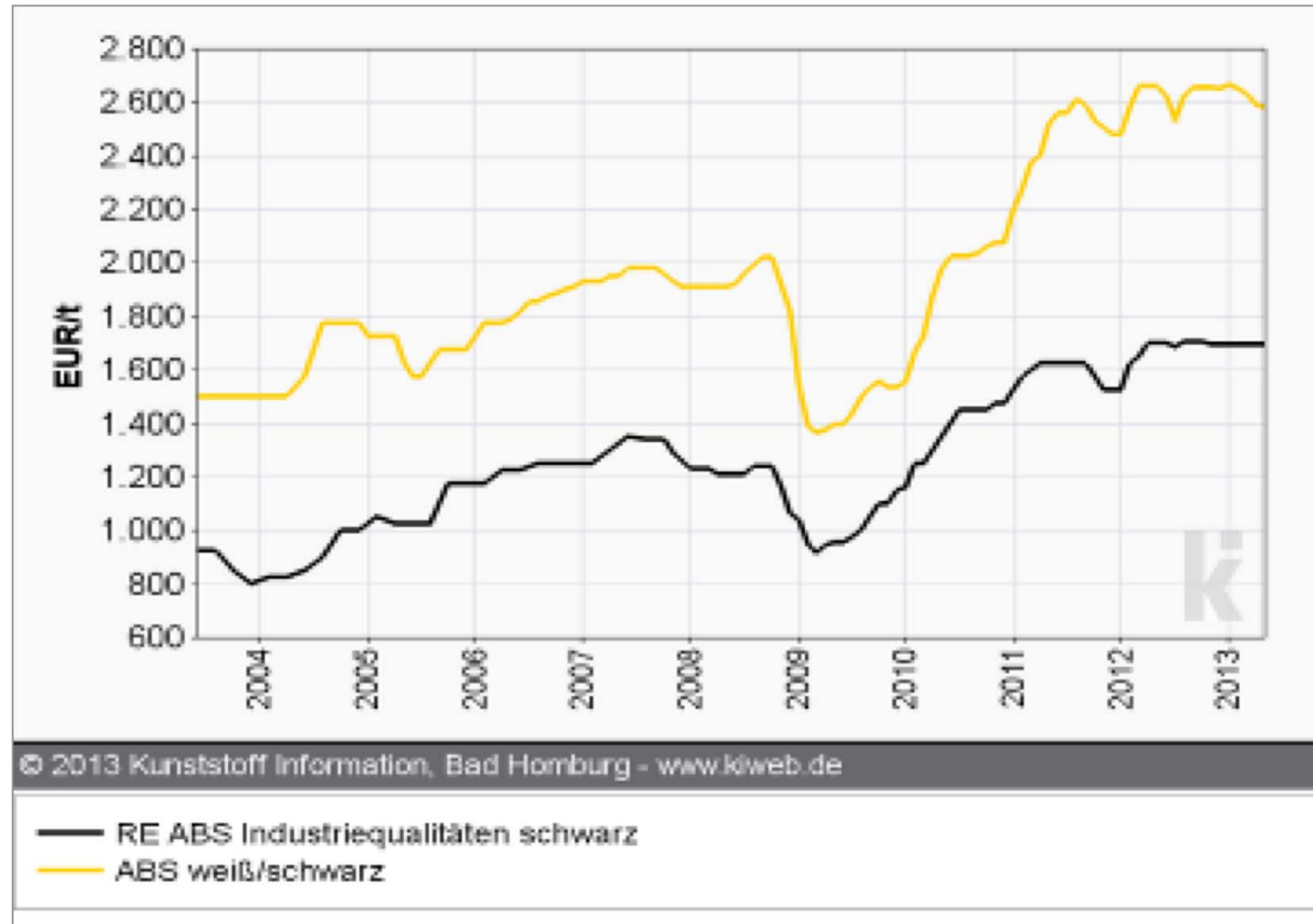
Source: EMF 2013



# Recycling rates for most relevant waste streams



# Barriers for the uptake of recycled materials



# The digital transformation as an ideal enabler for a circular economy

## Practical considerations

### Sensing

- Data collection and generation in real time
- Automated market and logistics platforms („Uber for waste“)

### Cyber Physical Systems

- Information on products throughout the entire production process

### Block Chain-Applications

- Waste data flows without any conclusions to be drawn about production techniques

### Internet of Things

- Self-marketing of recyclable products