



# A leading role for Europe

There is no alternative

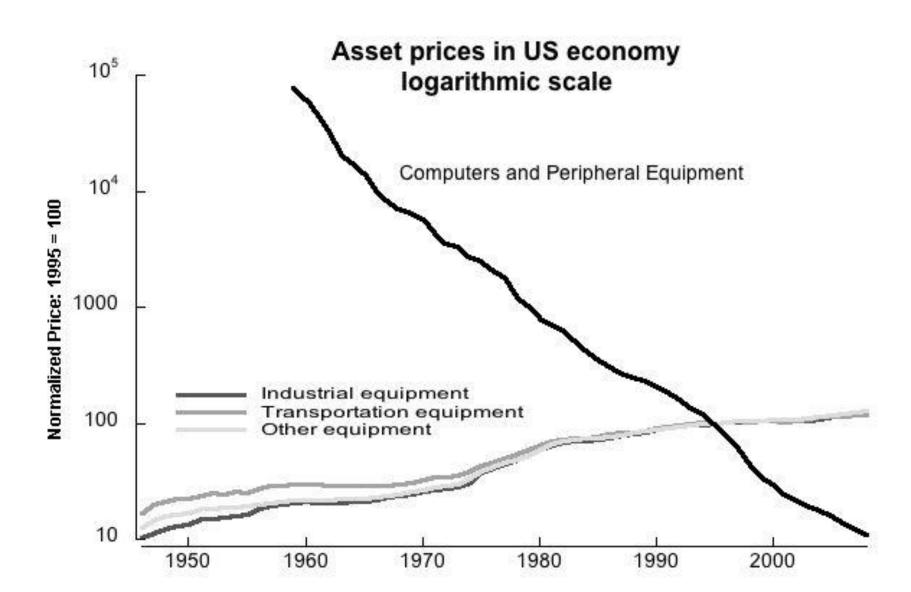
Wim J.de Ridder

May 30,2013

# DNA, blueprint of life



# Computers: blueprint of growth

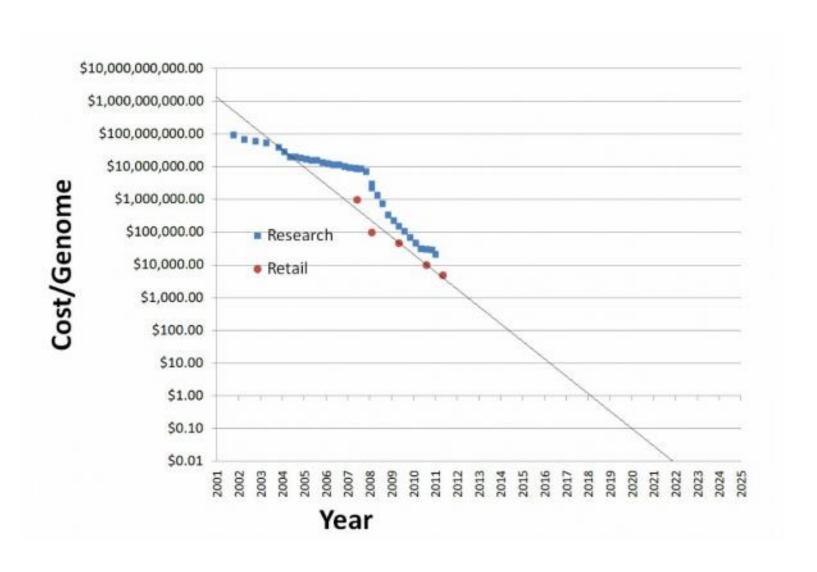


# International platform



International Technology Roadmap for Semiconductors

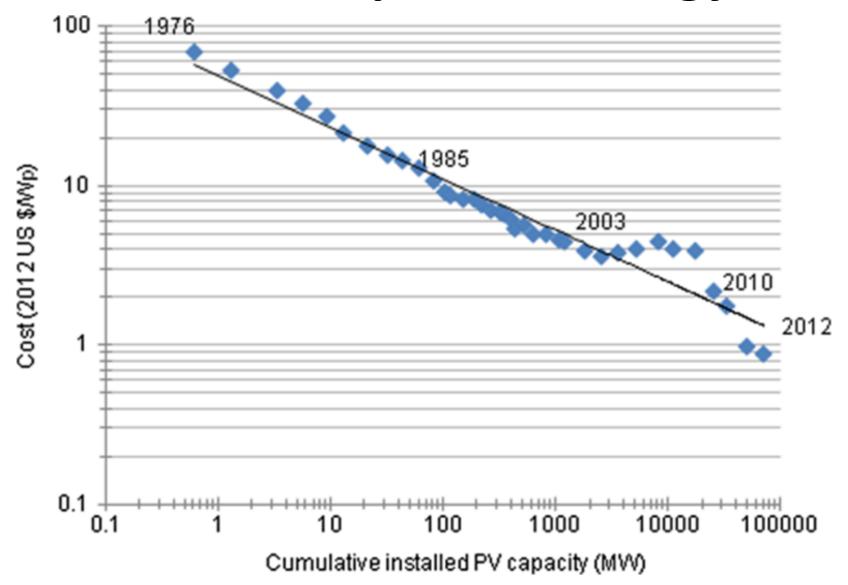
# Genetics, blueprint of health care



# International platform



# Solar, blueprint of energy



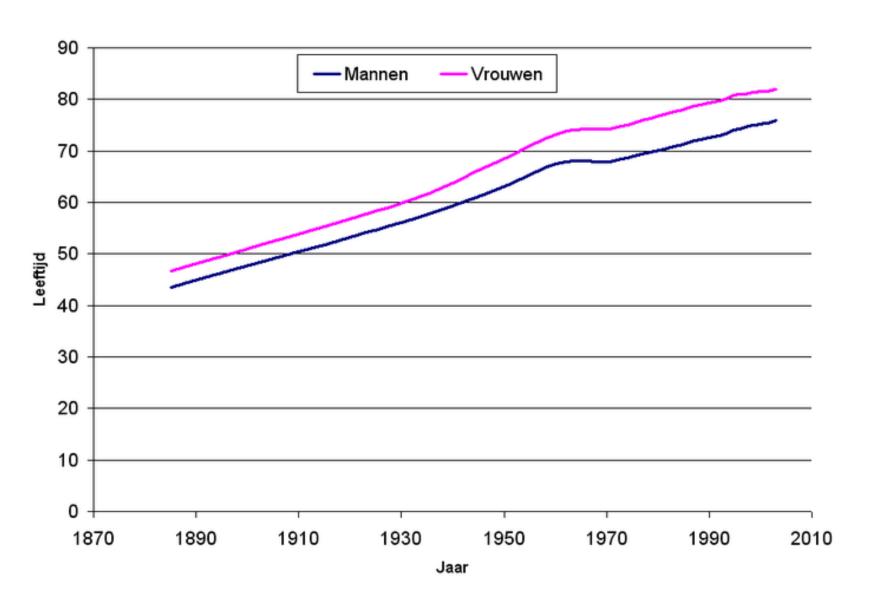
## International platform



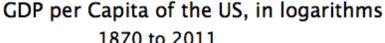
### **National Renewable Energy Laboratory**

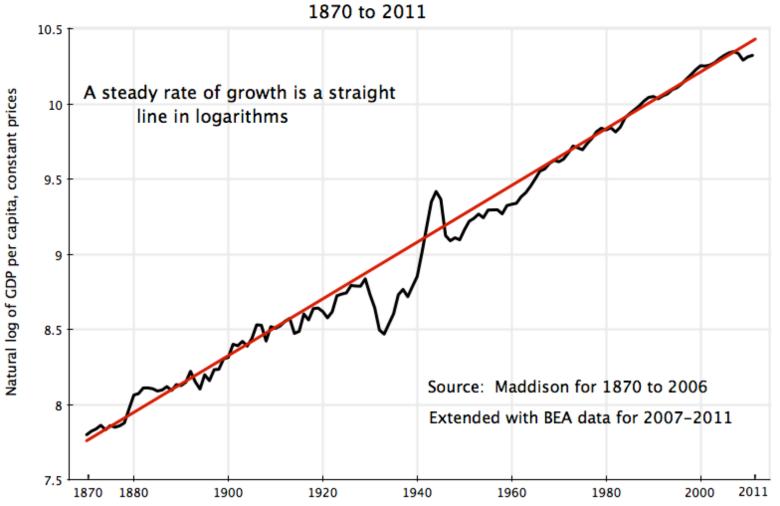
Innovation for Our Energy Future

# Life expectancy

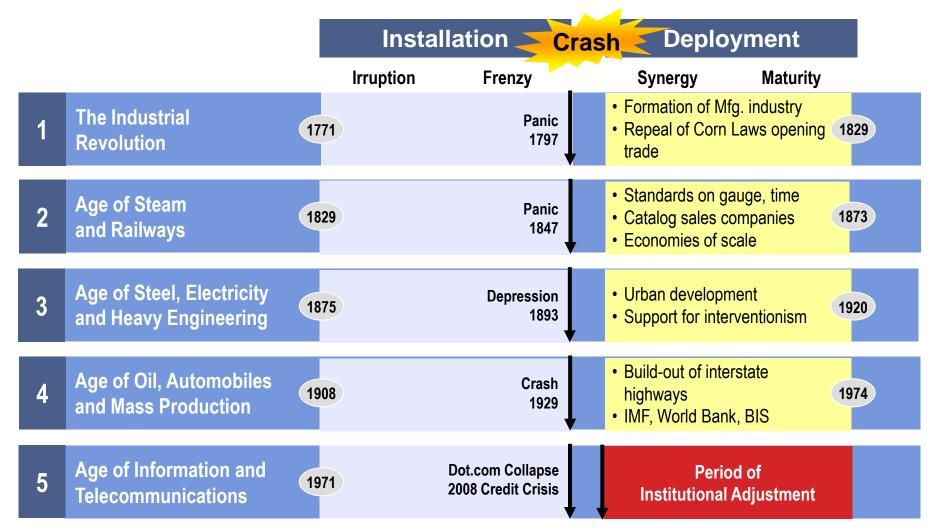


## **Economic growth**

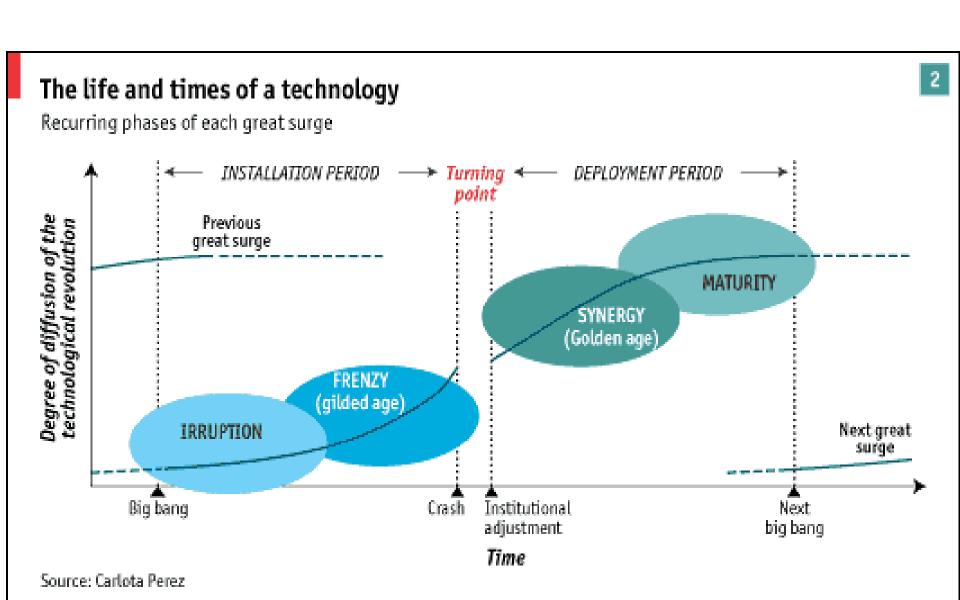




#### Five Technological Revolutions in 240 yrs



#### Long term hype cycle



## **Europe 1971 – 1985**

**Irruption phase (computer)** 

- Economy: oilcrises, high inflation
- Social: government takes care for work, health, living
- Europe = engine of economic growth

### Europe 1985 – 2000

Frenzy phase (soft ware industry)

- Economy: Thatcherism, privatisation
- Social: greed is good
- Europe = aiming to be a global power (Treaty of Maastricht, Euro)

## **Europe 2000 – 2010**

Synergy (internet, mobile phone)

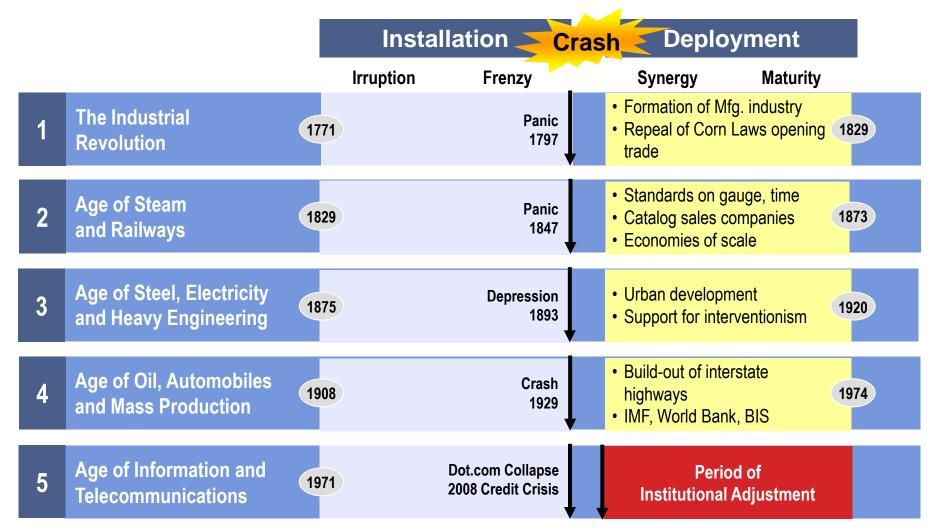
- Economy: financial system crises in developed countries
- Social: empowerment of people, social media
- Europe = lack of identity

## Europe 2010 – 2020

**Maturity (singularity)** 

- Economy: structural adjustments, implosion of market chain
- Social: growing post modernism
- Europe = identity crisis, facilitating administration, implosion of EU-budget

#### After 2020: robotics, clean tech and genetics



## Europe 2020 – 2030

First stage 6th Industrial Revolution (AI, clean tech, genetics)

- Economy: jobless growth
- Social: community/network based society
- Europe = engine of economic growth, bridging China - USA



- www.futuresstudies.nl
- www.futuresfit.nl