



Bernd Junghans

# **Ubiquitäre Elektronik - eine disruptive Technologie**

**Dahlener Tagung "Wege zu einer humanen Technik"**

**Dahlen, 20.04.2013**

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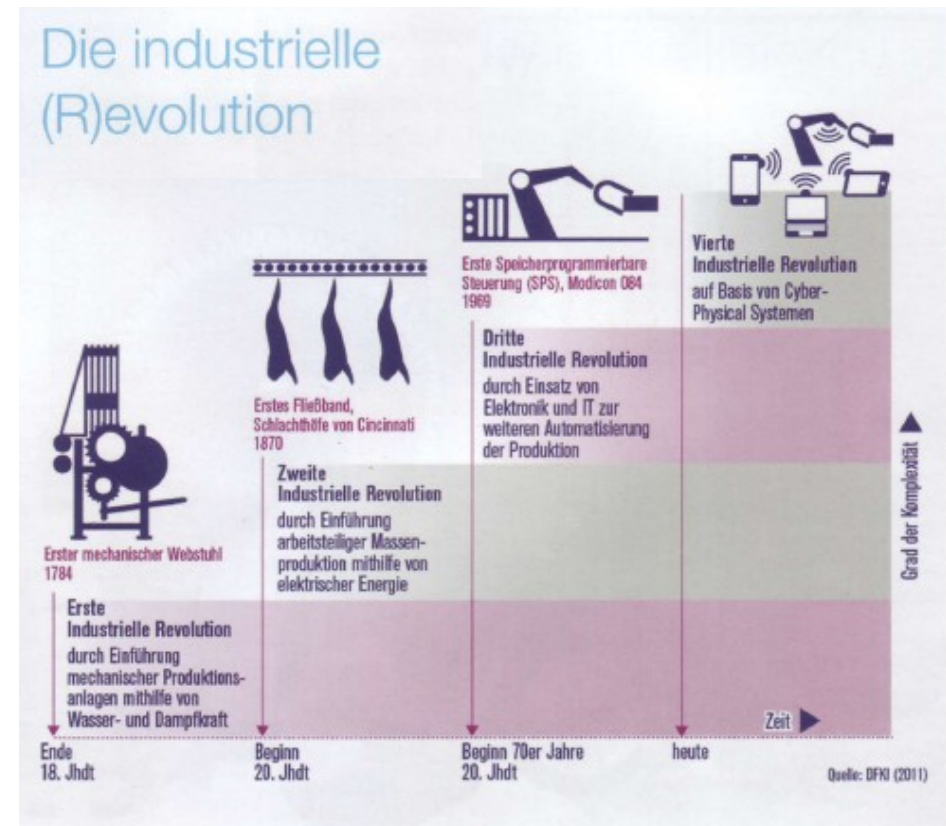
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# Zeitalter der ubiquitären Elektronik



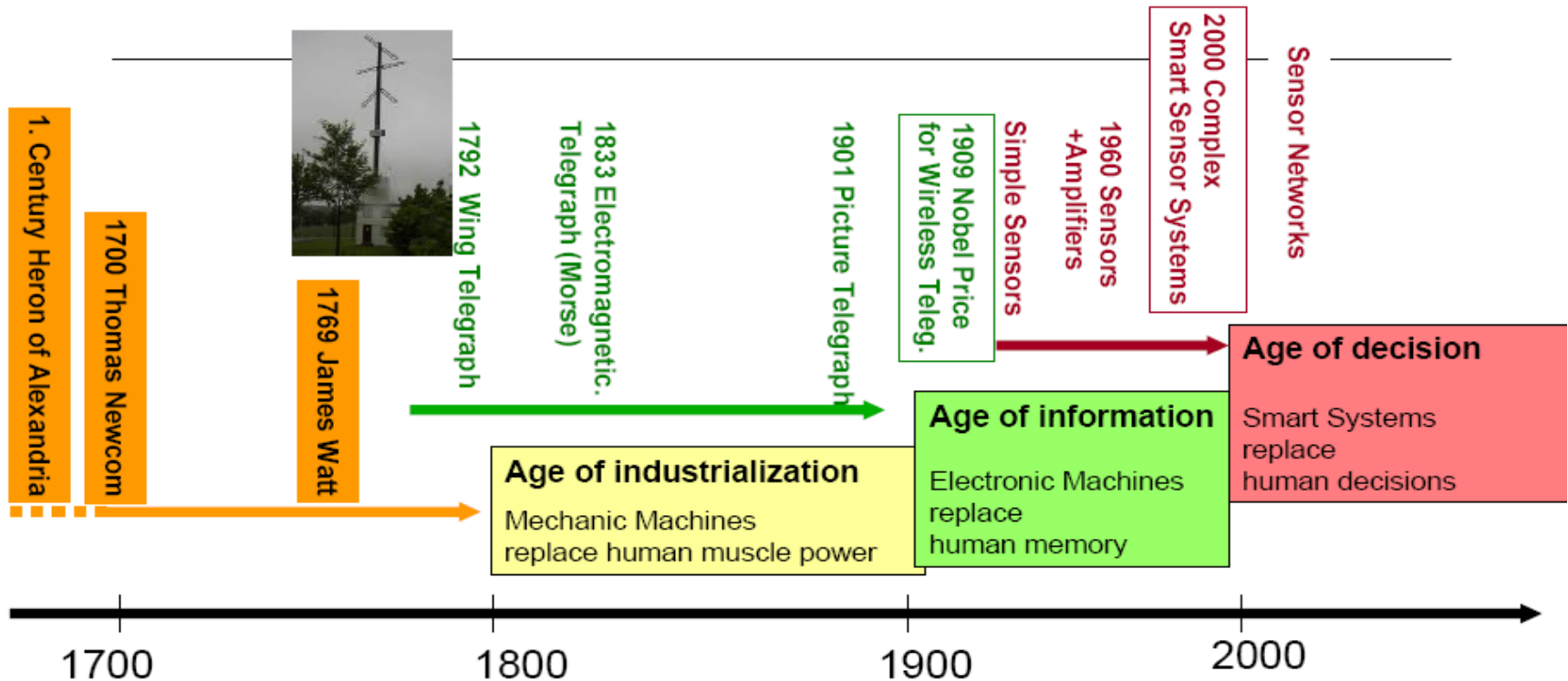
“Thanks to smarter and more dexterous robots, some **lights-out manufacturing** is now possible. FANUC, a big Japanese producer of industrial robots, has automated some of its production lines to the point where they can run unsupervised for several weeks.”

# Zeitalter der ubiquitären Elektronik



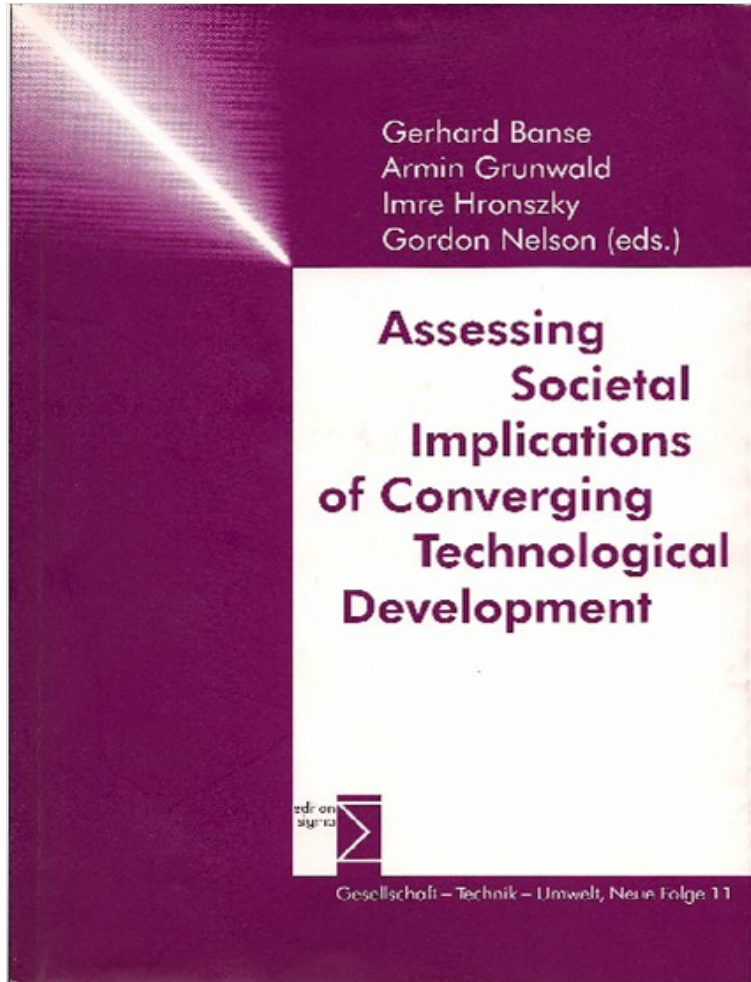
# Zeitalter der ubiquitären Elektronik

We are at the dawn of a new technology age



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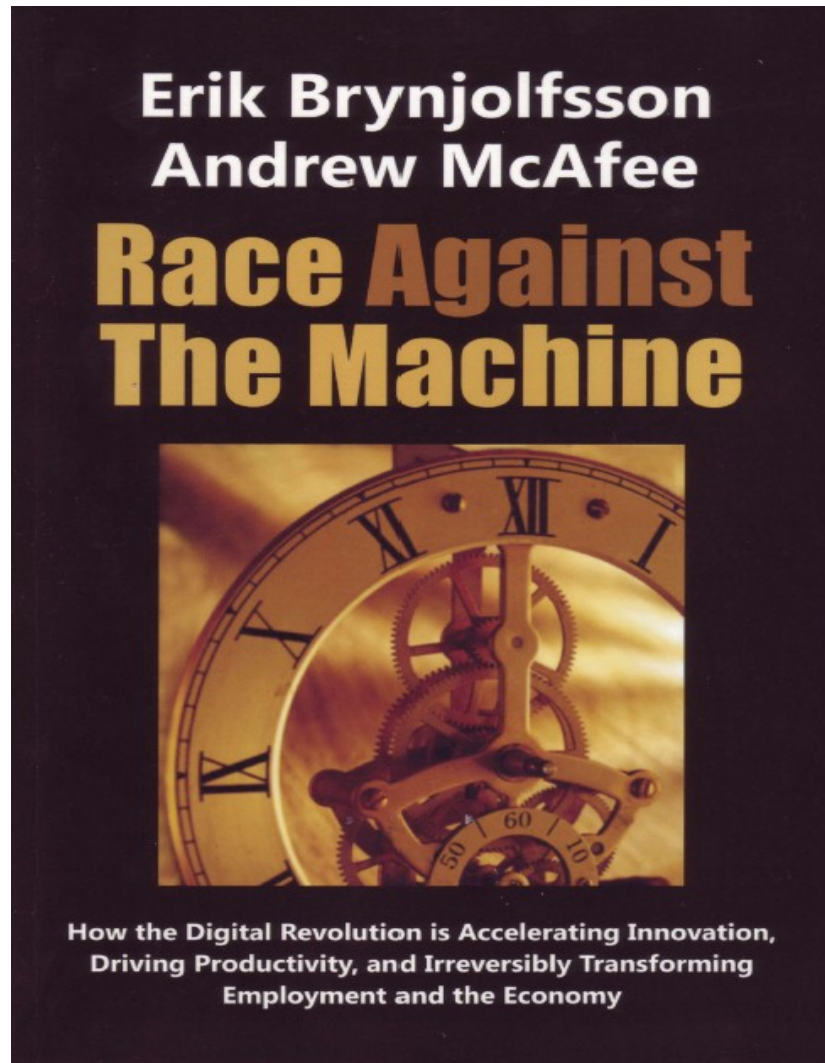
# Zeitalter der ubiquitären Elektronik



conditio humana –

„dialectical ambivalence  
between emancipation  
and uncertainty“

# Zeitalter der ubiquitären Elektronik



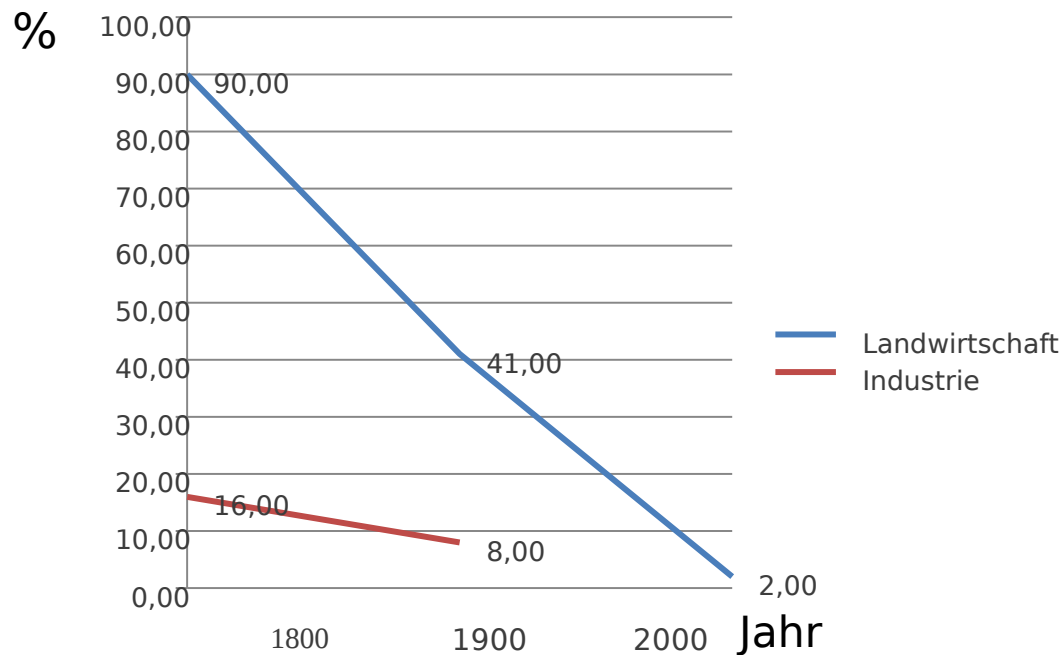
Digitalization is an ongoing process of creative destruction

## **The economic power of General Purpose Technologies:**

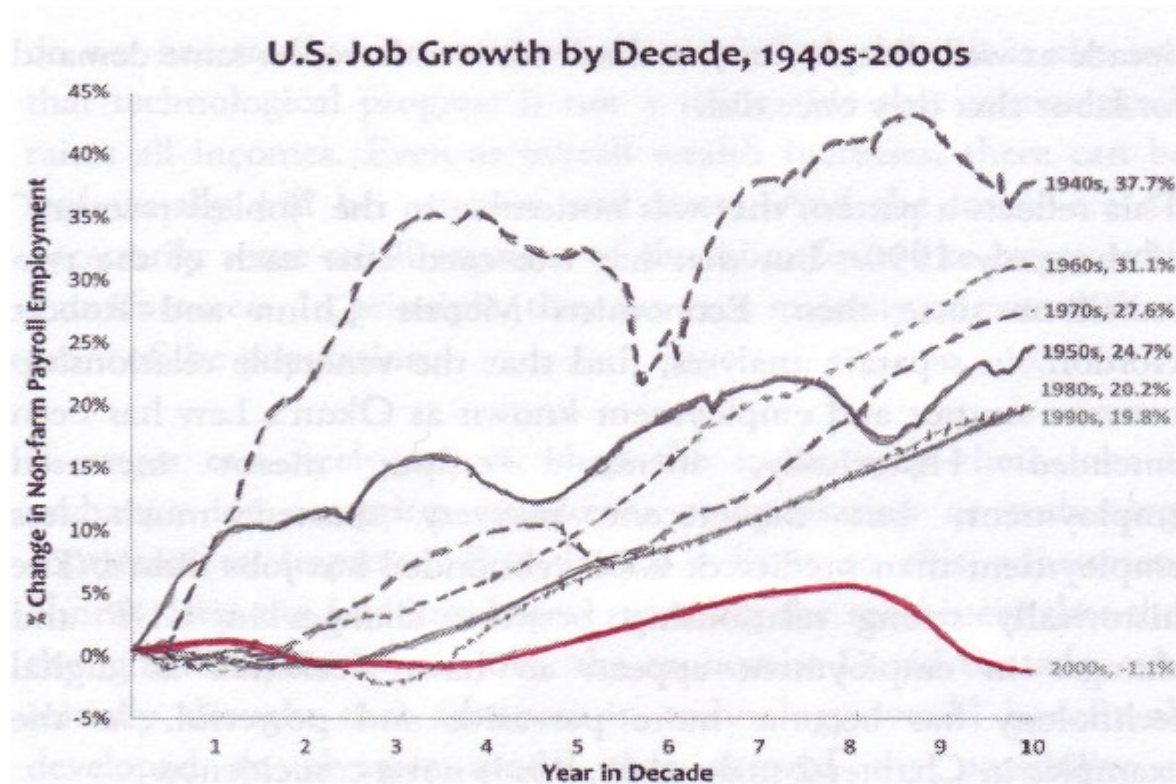
pervasiveness, inherent potential for technical improvements and Innovative complementarities

# Ende der Arbeit?

## Anteil der Beschäftigten in der Wirtschaft der USA



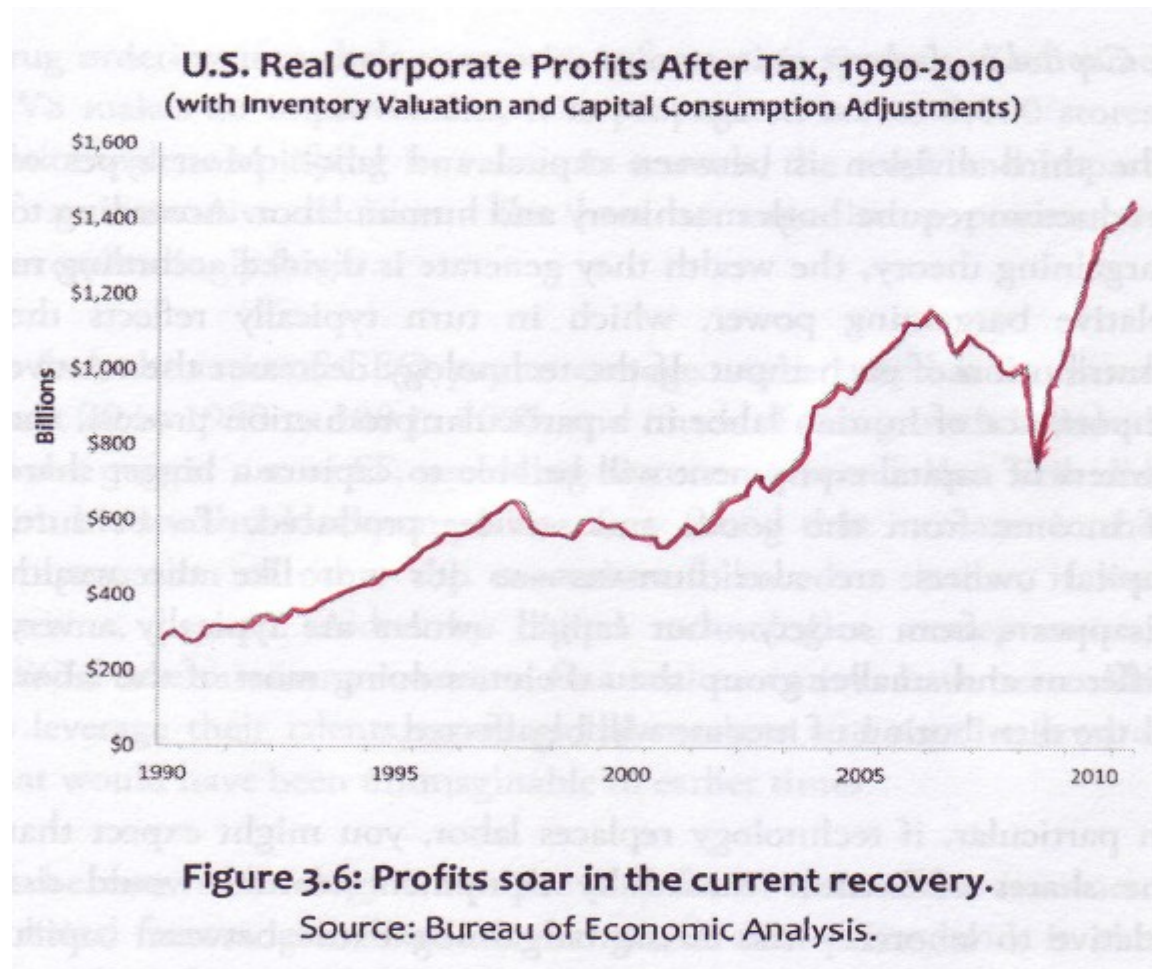
# Arbeitsplatzwachstum USA



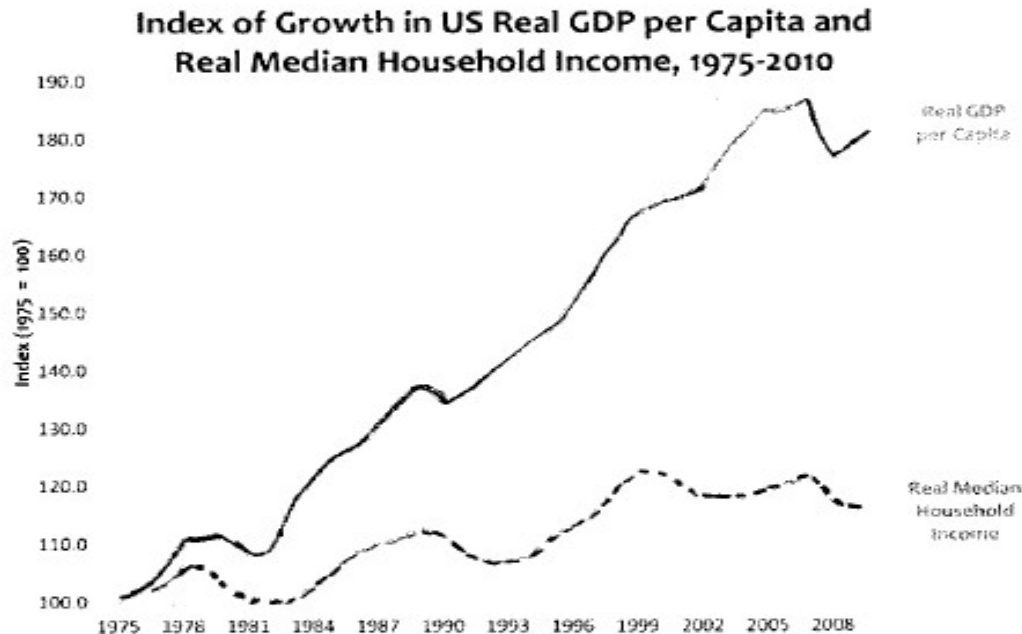
**Figure 3.4: In the new millennium, job growth stalls.**

Source: Bureau of Labor Statistics.

# Wachstum der Unternehmensprofite



# Haushaltseinkommen vs. GDP pro Kopf



**Seit 2009:**

Investitionen in  
Hard- und Software

**+26%**

Personalkosten

**0%**

**Figure 3.3: Real GDP per capita has grown significantly faster than real median household income.**

Source: Bureau of Labor Statistics.

# Wohlstandszuwachsverteilung USA

## Verteilung des Wohlstandswachstums 1983-2009

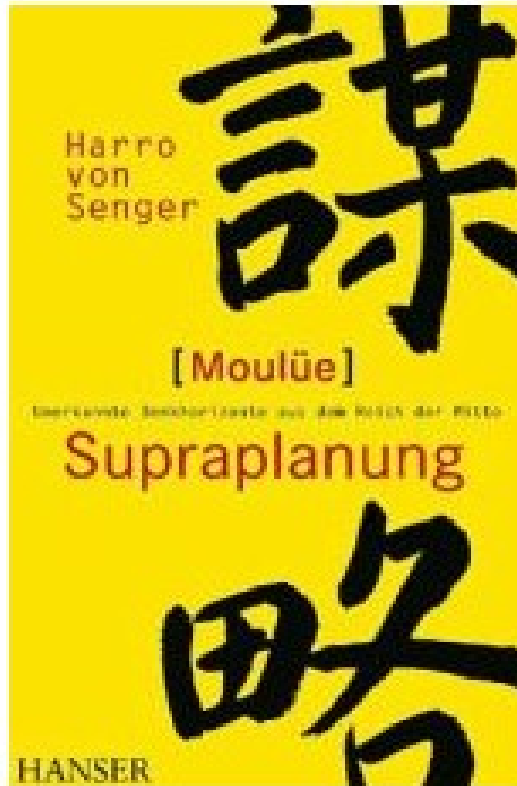


Neuere Daten: seit 2002 vereinnahmen die oberen 1% Haushalte 65% des Zuwachses

# Microelectronic Development in Dresden mirrored at International



# Sinomarxismus als Lösung?



Innere Mongolei 2011

# Infrastruktur in China

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