

---

# The Case for Optimism



# We are bombarded with depressing news



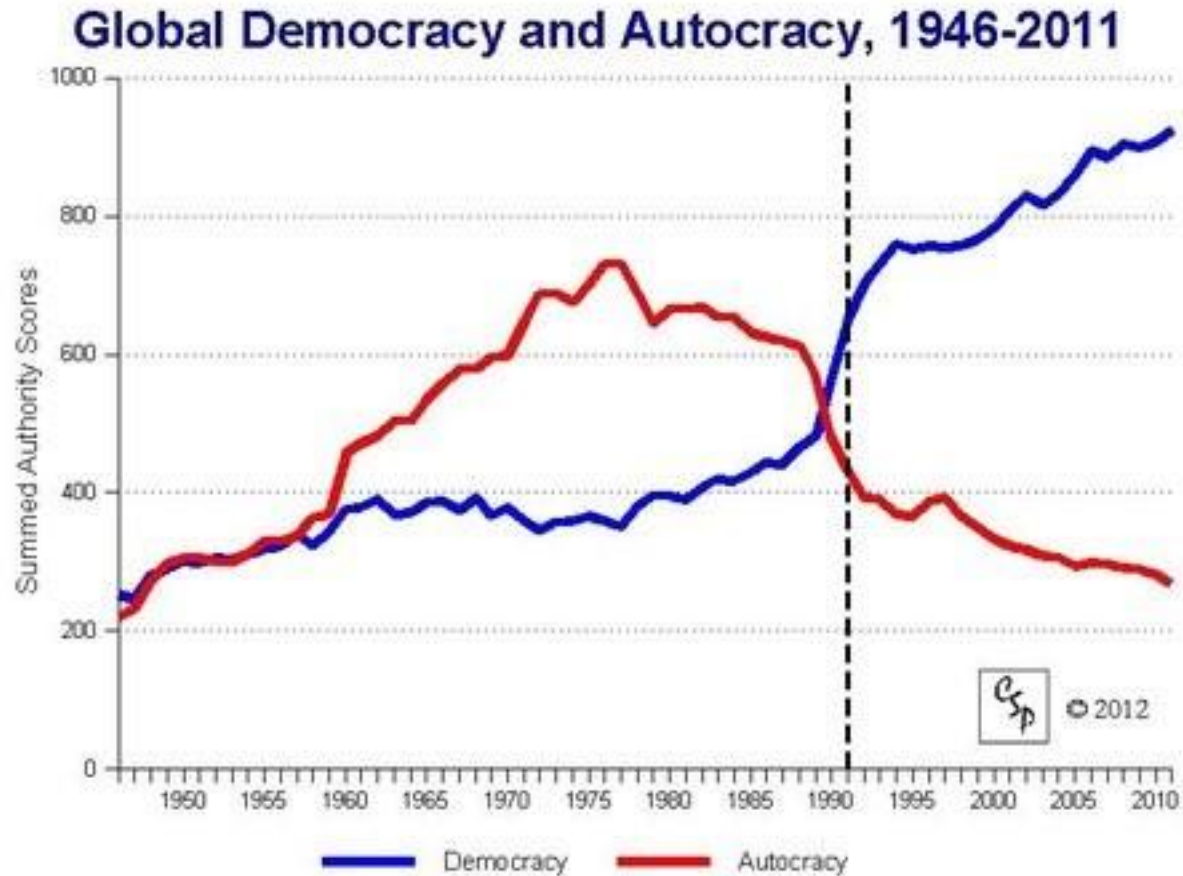
# It feels like we are headed for a dire future

---



# Dictatorships are on the wane

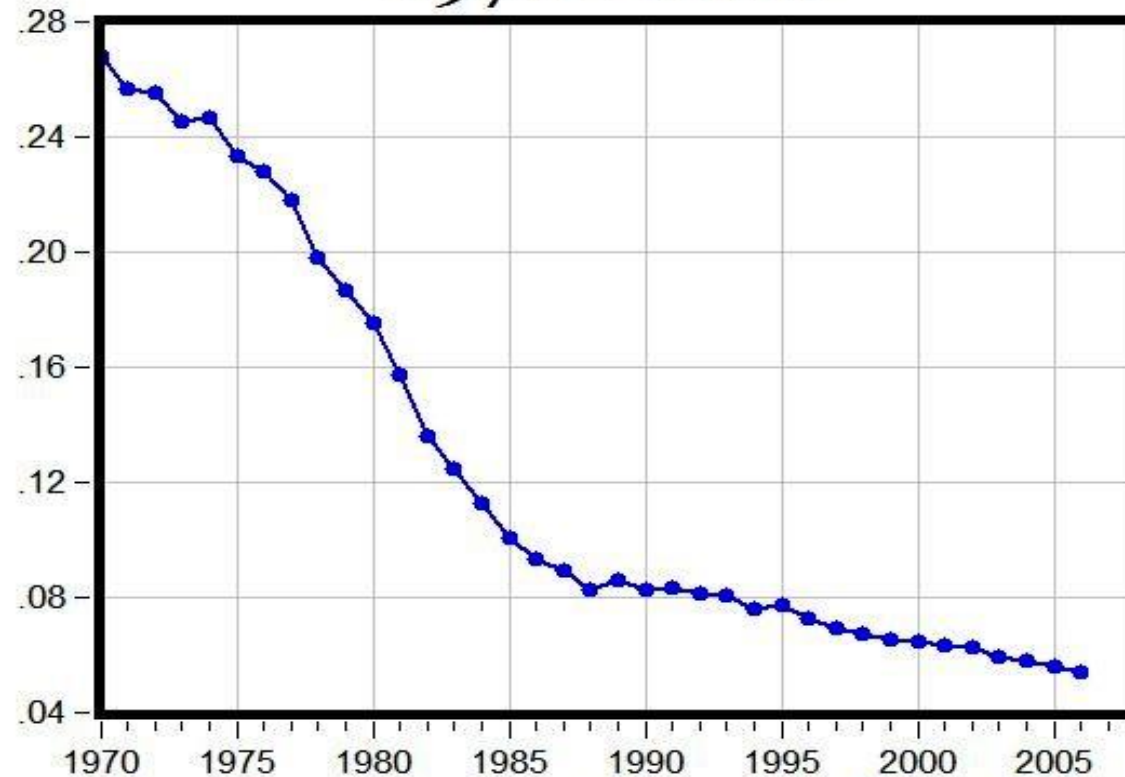
---



82% decrease in global poverty in only 40 years

---

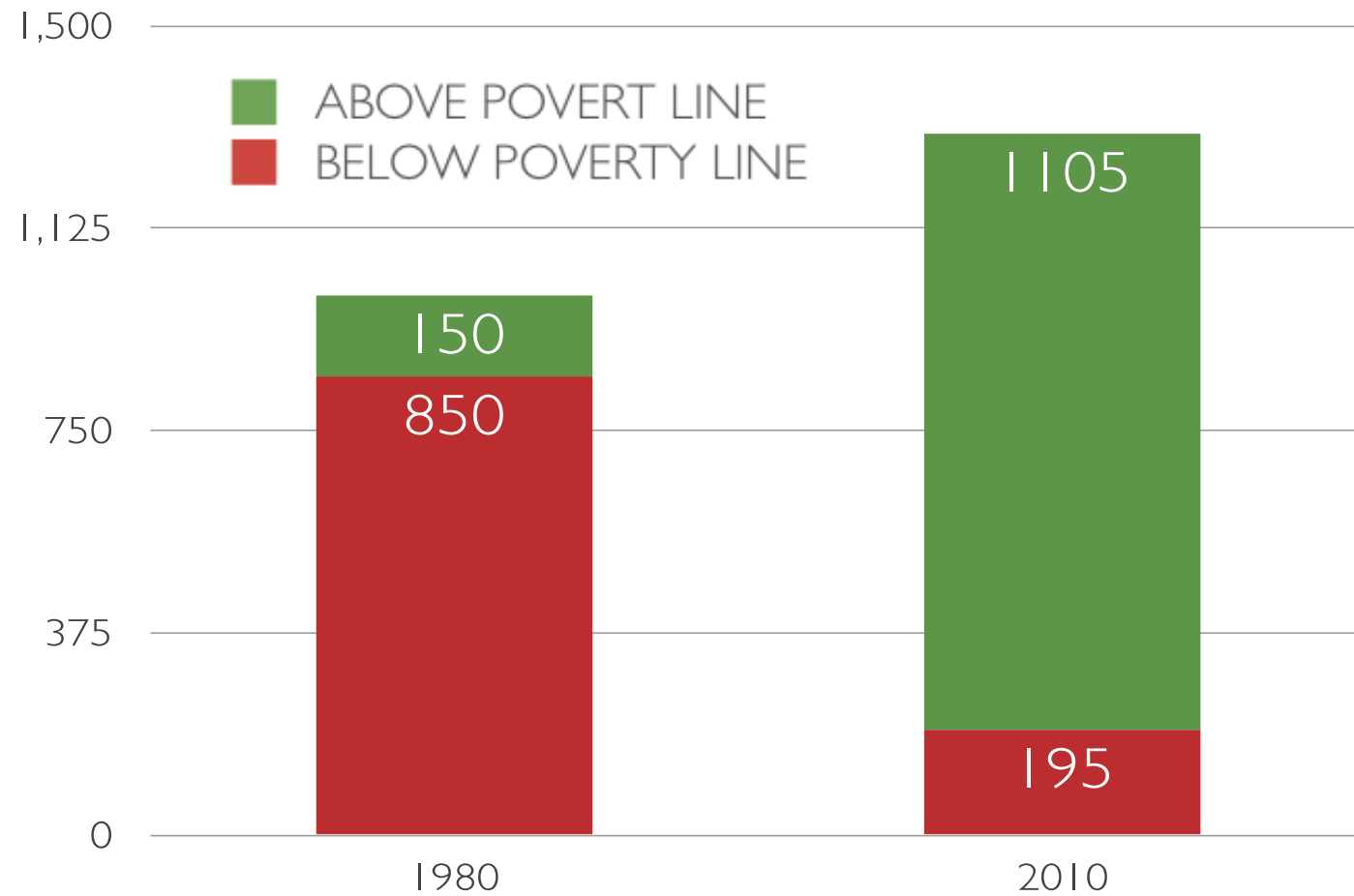
## World \$1/Day Poverty Rate 1970-2006



*Source: Maxim Pinkovskiy and Xavier Sala-i-Martin  
NBER Working Paper No. 15433*

# 650M people came out of poverty in China in 30 years

---



# Shenzen in the 1980's and 2013

---

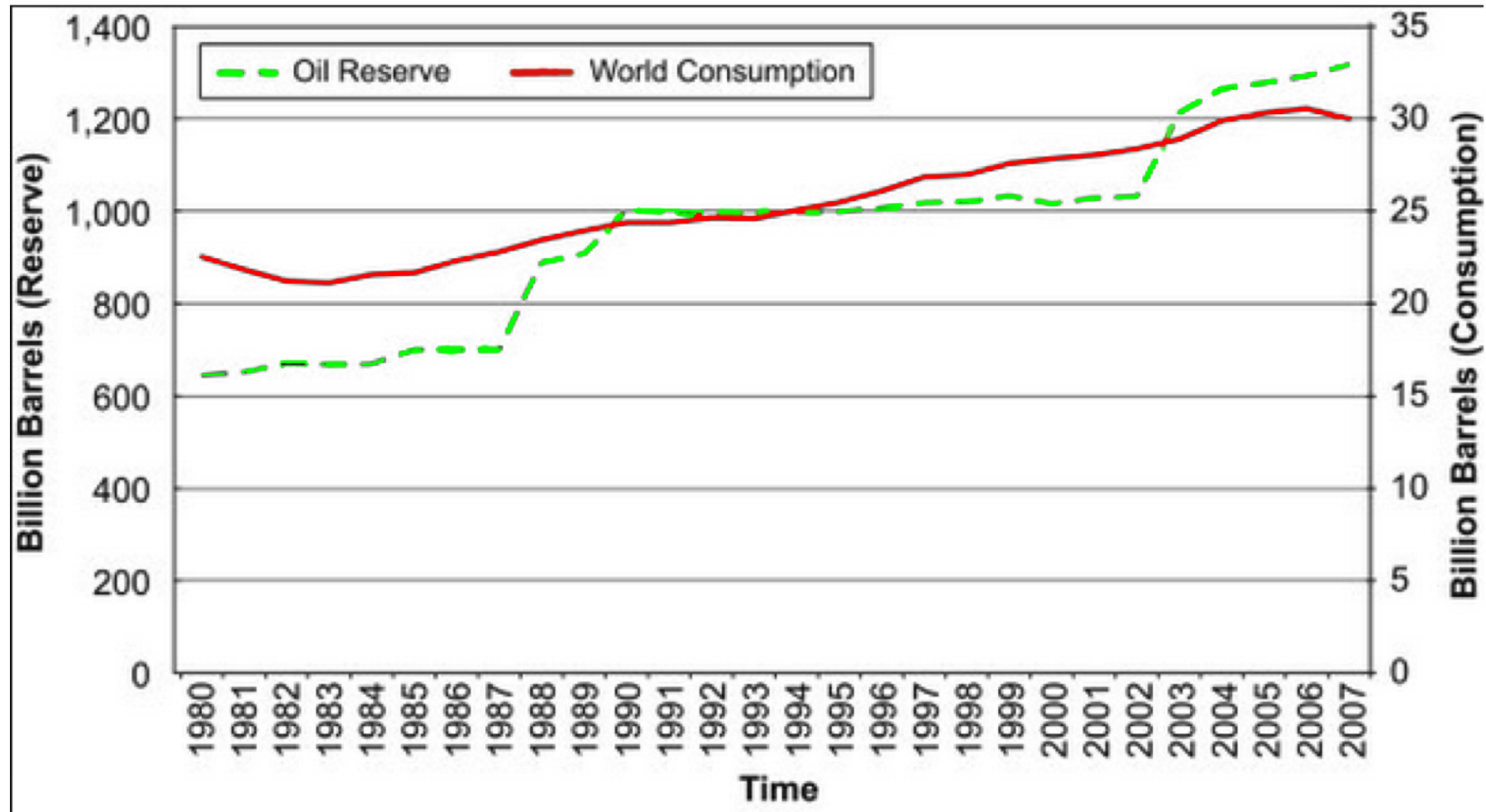
1980's



2013



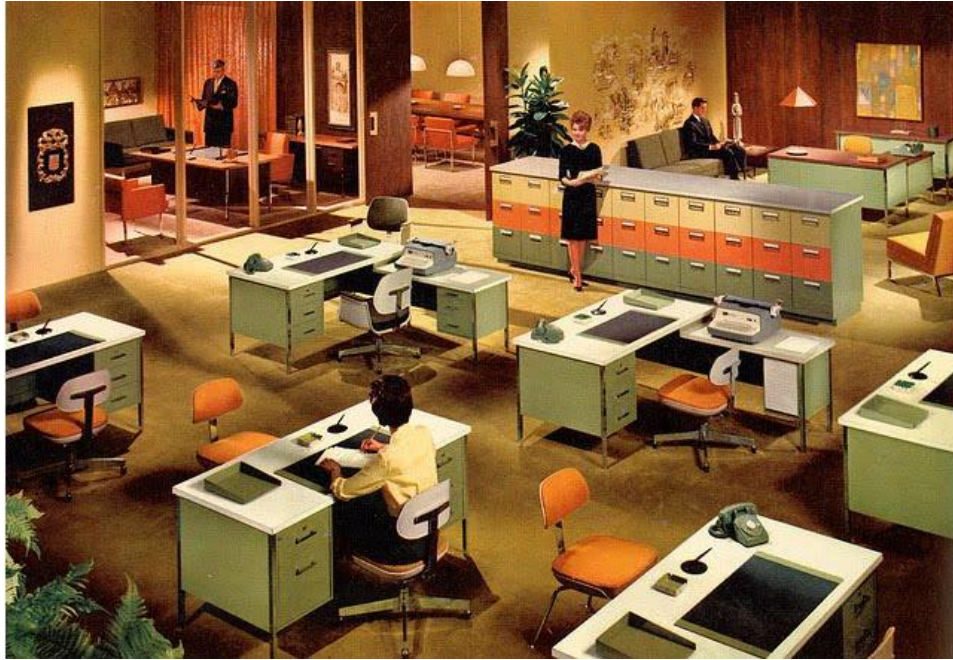
# Increasing oil reserves despite record consumption





# Fundamental changes in our way of life

---

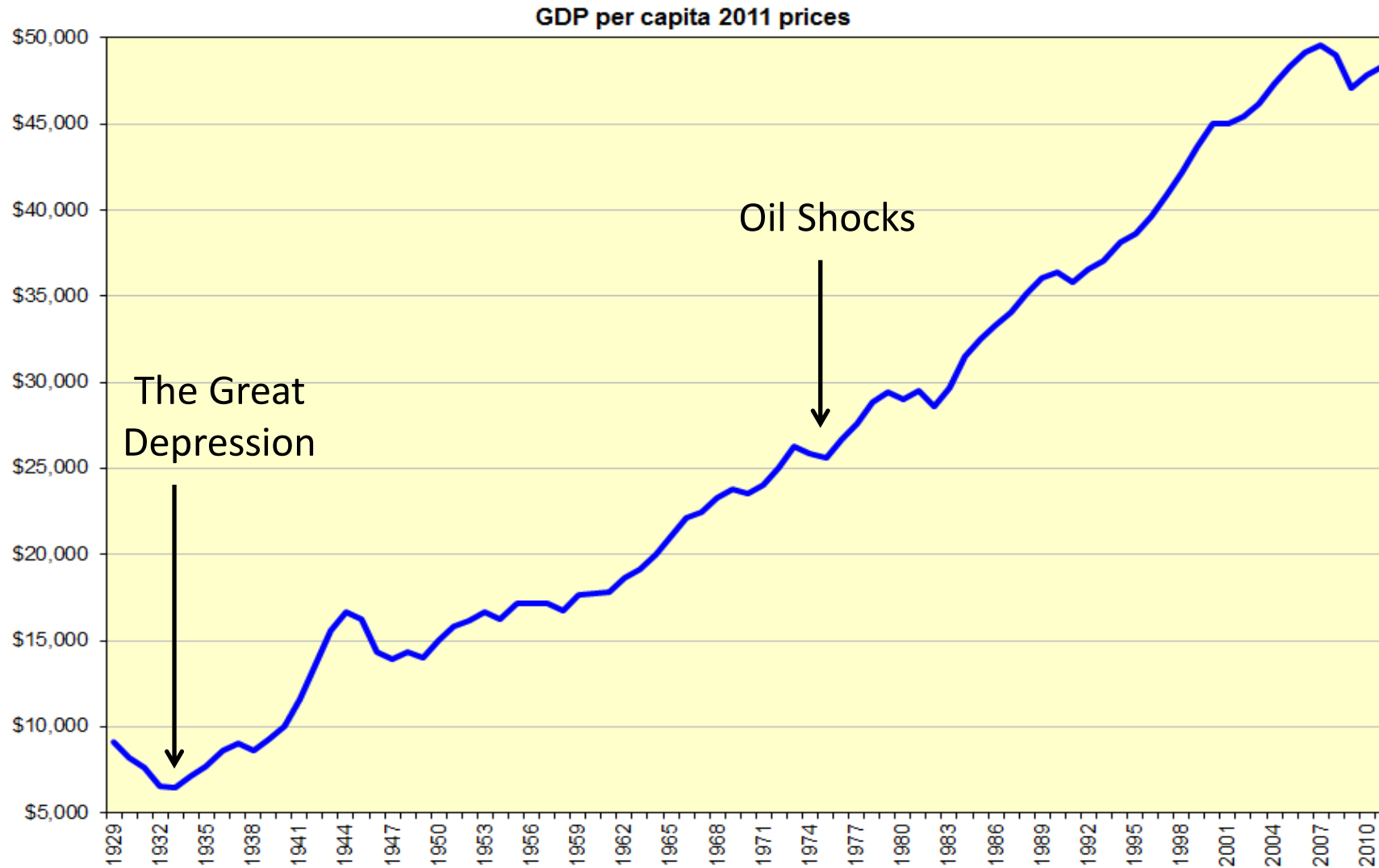


Office work in the 1970's...



and in 2013

# Over the long run recessions barely register



# Our lives have been transformed for the better

---



Life expectancy 2X



Per capita income 3X



Childhood mortality /10

# We have redefined “poverty”

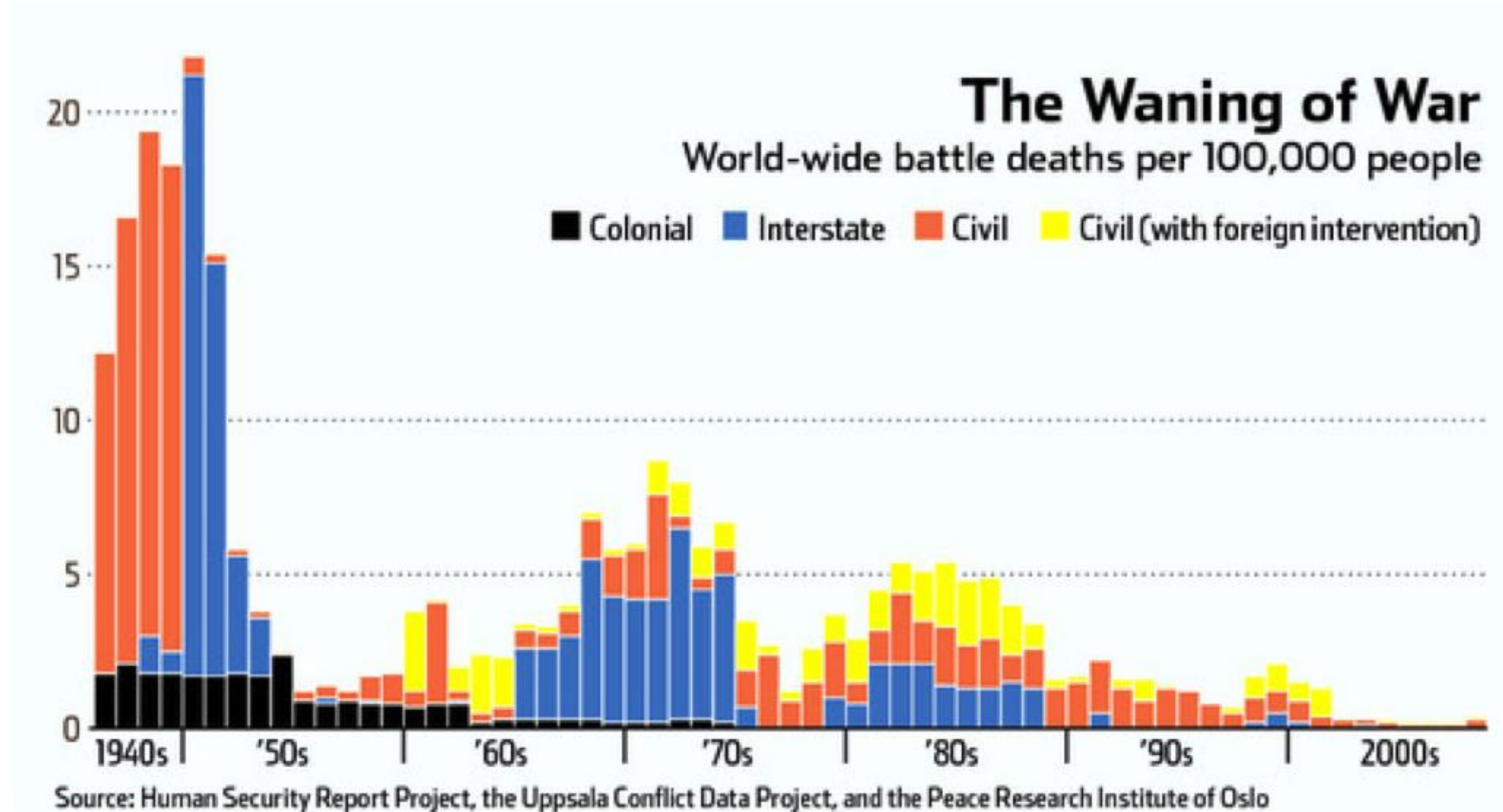
---

Americans in poverty have:

- 99% have electricity, water, toilet & refrigerator
- 95% have a television
- 88% have a mobile phone
- 70% have a car and air conditioning

# The world is more peaceful than ever before

---



# Africa is rising

## World's ten fastest-growing economies\*

Annual average GDP growth, %

| 2001-2010† |      | 2011-2015‡ |     |
|------------|------|------------|-----|
| Angola     | 11.1 | China      | 9.5 |
| China      | 10.5 | India      | 8.2 |
| Myanmar    | 10.3 | Ethiopia   | 8.1 |
| Nigeria    | 8.9  | Mozambique | 7.7 |
| Ethiopia   | 8.4  | Tanzania   | 7.2 |
| Kazakhstan | 8.2  | Vietnam    | 7.2 |
| Chad       | 7.9  | Congo      | 7.0 |
| Mozambique | 7.9  | Ghana      | 7.0 |
| Cambodia   | 7.7  | Zambia     | 6.9 |
| Rwanda     | 7.6  | Nigeria    | 6.8 |

Sources: *The Economist*; IMF

## GDP growth, unweighted annual average, %



\*Excluding countries with less than 10m population and Iraq and Afghanistan †2010 estimate ‡Forecast

Source: GSMA AFRICA MOBILE OBSERVATORY 2011

# Estonia is setting an example for other countries to follow

---



- 24% of people voted online in 2011
- 93% fill personal tax returns online
- Companies can be setup online
- Online school reports including homework, grades, etc.
- Online medical records

# 3D Printing is revolutionizing manufacturing

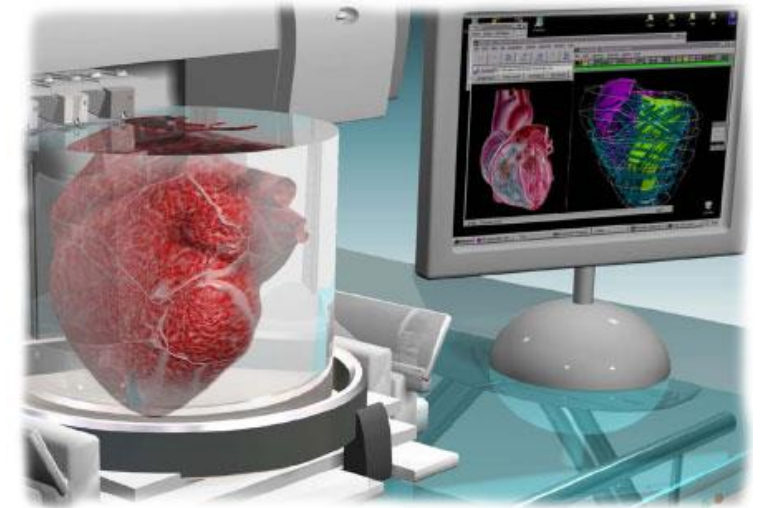
---



3D Printing has already revolutionized prototyping...



is being increasingly used to make final parts...



and may revolutionize medicine with the printing of organs



# Healthcare is finally becoming computerized

---



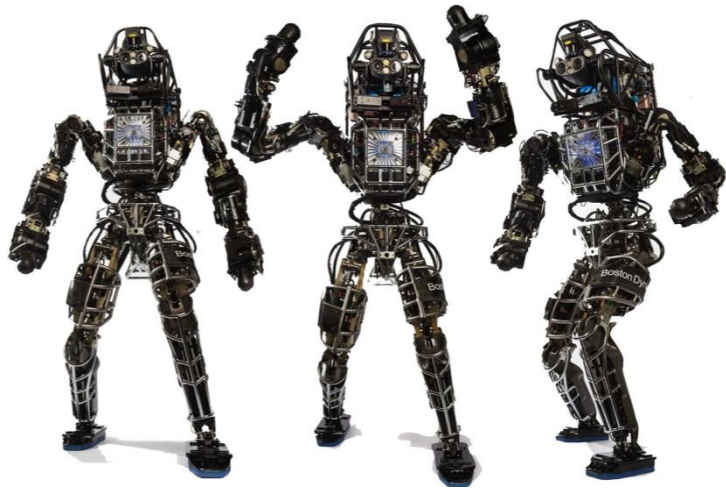
Watson is better at diagnosing certain cancers than traditional doctors



Star Trek-like medical tricorders should enter the market within 5 years

# Robots are invading factories and our lives

---



Atlas Robot is designed to save lives in disaster zones



The Da Vinci Robot is more precise than the best surgeon for non-invasive surgeries.



Drones will reduce by over 90% the average shipping time we experience today

# The Internet of Things will improve our daily lives

---



Egg-minder tells us when eggs are going bad



Nest learns our habits and adjusts our home's temperature accordingly and gets smarter every time we use it

# Education is also finally entering the technology age

---



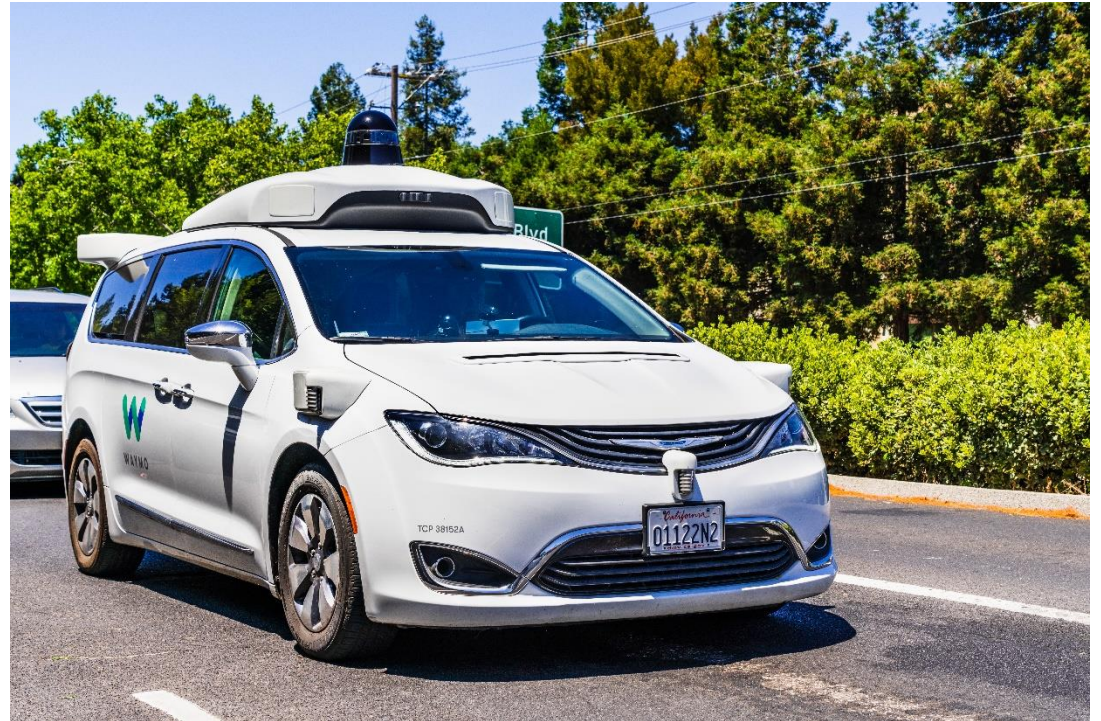
From traditional classrooms... to computerized classrooms... and “global” classrooms

# Transportation will be significantly improved

---



Average Driver: 1.8 accidents every 300,000 miles



Self driving car: 0 accidents every 300,000 miles

# Communications are headed for a revolution

---

Presented clip



Clip reconstructed from brain activity



Movie reconstruction from brain activity

First example of human brain-to-brain communication

# Energy is abundant, the issue is accessibility

---



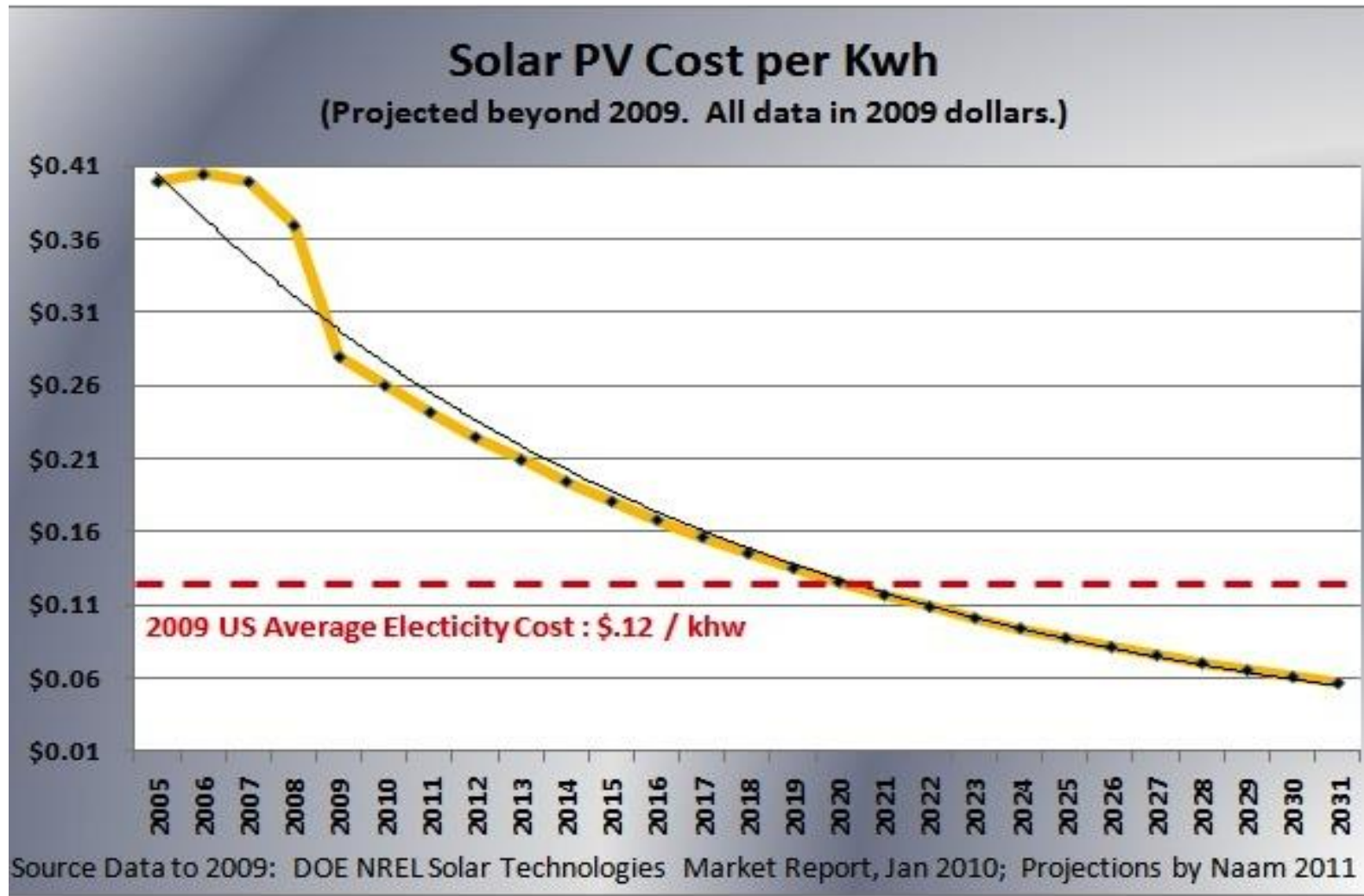
# Aluminum was more expensive than gold in the 1800's

---





# Solar energy is increasingly becoming cost competitive



# Innovations are happening in water purification...

---



# ... and farming



---

# Fabrice Grinda



[www.fabricegrinda.com](http://www.fabricegrinda.com)

[fabrice@grinda.org](mailto:fabrice@grinda.org)

@fabricegrinda

---