





## Fukushima Daiichi



# **Incunabula**

**Printed books, ca1450-1501**  
**In Europe**

# **20<sup>th</sup> Century**

**Global wars**

**Science and technology and changes  
in the way of our life**

**Medical and life sciences and human population  
low infant mortality rate, longer life**

**Urbanization; life style, disease pattern,  
ageing society**



**The 20<sup>th</sup> Century:**

**Science, technology and engineering**

**1901 Nobel prize's launch**

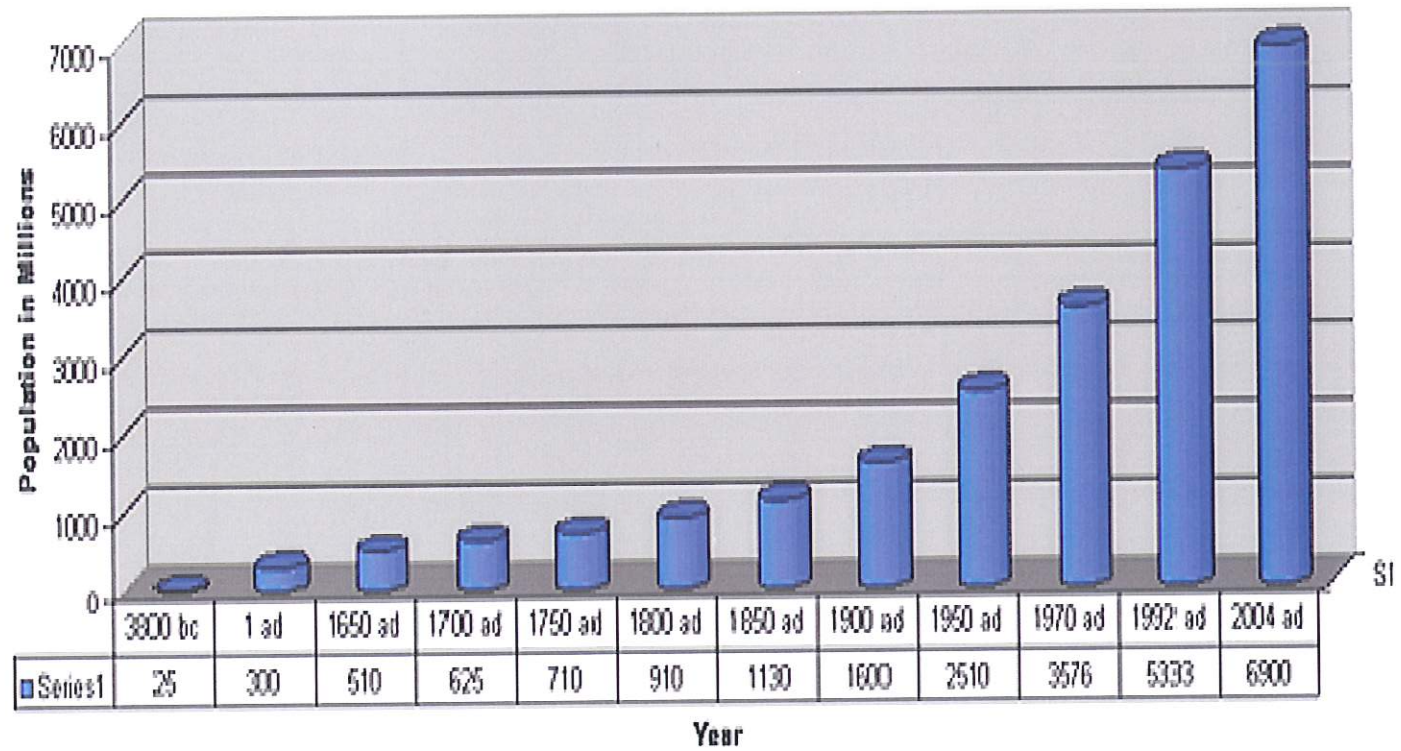
**1904 Wright Brothers: first flight**

**1905 Albert Einstein;  $E=MC^2$**

**What huge differences we see now**

**Why? –Circumstances**

**-Hiroshima, Nagasaki, Fukushima**



# Last Decade of 20<sup>th</sup> Century

-beginning of globalization-

- End of Cold War
  - Internet- www
  - Population explosion
  - Urbanization
  - ‘Brain drain’
  - Advances in Science, technology, engineering
- human genome, genetic engineering, nanotech
- Global market economy
  - Connectivity, web1.0
  - 6.4 billion
  - near 50%
  - human resource/capital



# Constraints/Global Challenges

- Climate change/climate crisis
- Environment deterioration, pollution
- Water and foods and other natural resources
- Perception by the general public of wide North-South disparity
  - Sense of inequity, frustration, violence, identity, etc,
- Growing human population : 50% in last 30 years
- Is Our Society Sustainable?





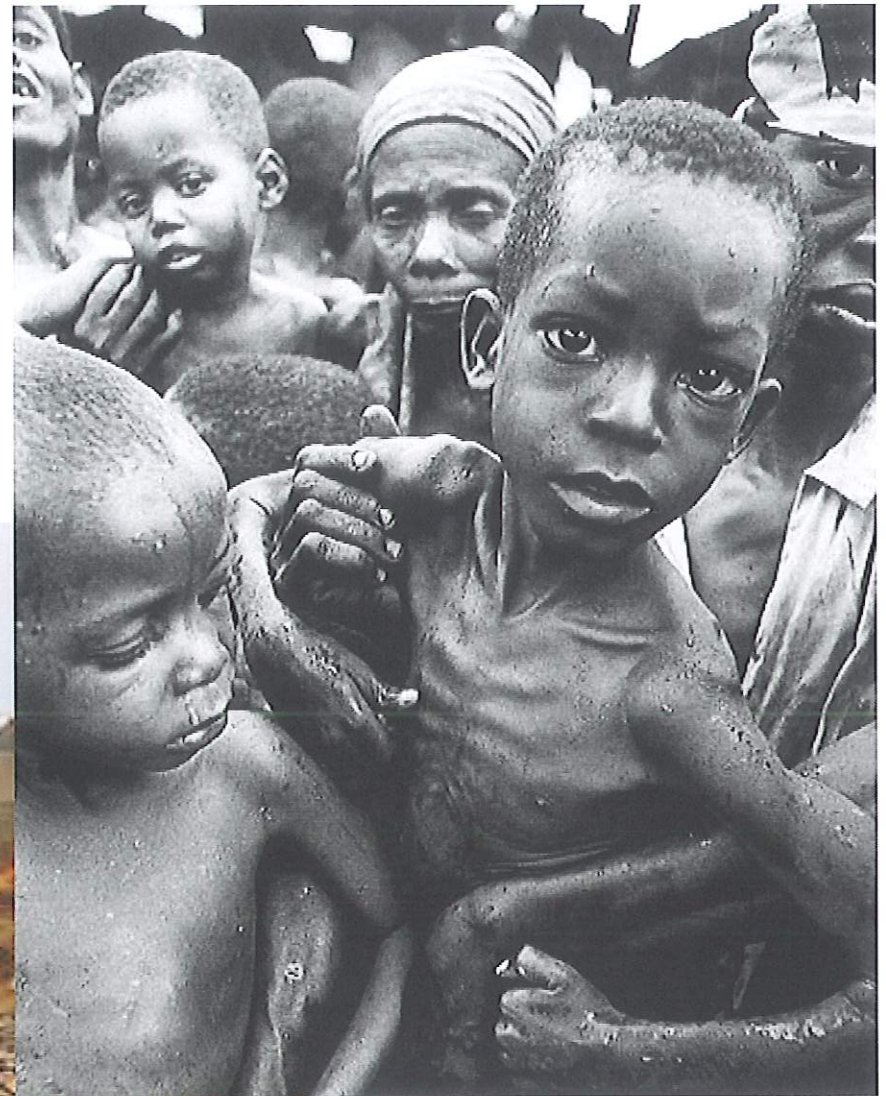




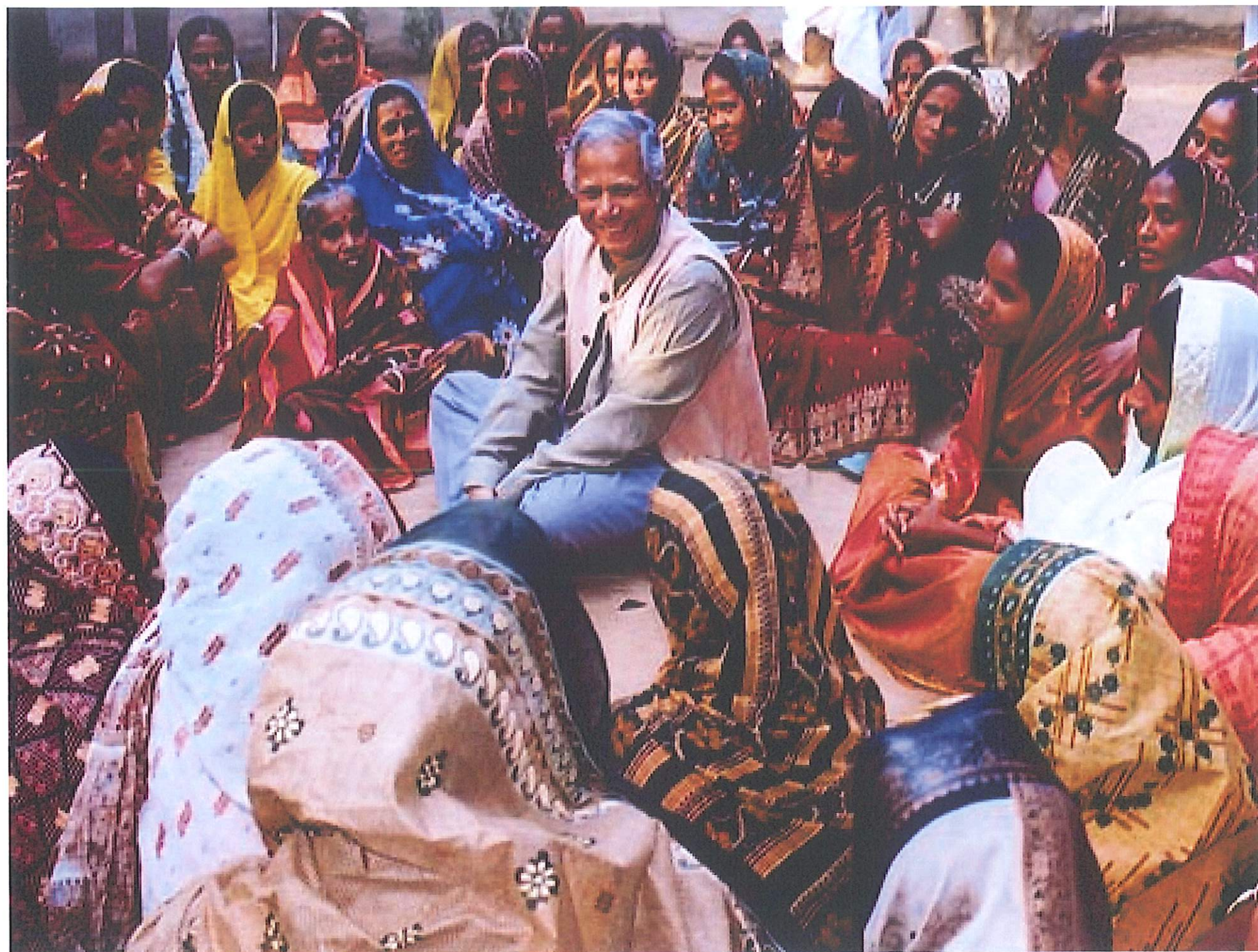


# New Century -1

- Rio de Janeiro 1992 -Transition to Sustainability
- Rio+10 2002 -Johannesburg
  - a new feature; private sector, women, youths, science community
  - Multistakeholders
- Millennium Development Goals
- IPCC- Kyoto to Copenhagen
- 'Global Health' (2000-)- Global funds, Gates
- Nobel Peace 2006 and 2007
  
- Innovation –creation of new social values









# New Century

Globalization expanding –'One World'

The World is 'flattening' further

Financial crises;

Japan 1990, Nordic countries 1992,

Asia 1997, Global 2008

New economies; BRICs, natural resource

energy, food, feed, water

Science community; IAP, IAC, ICSU, G8+5 others

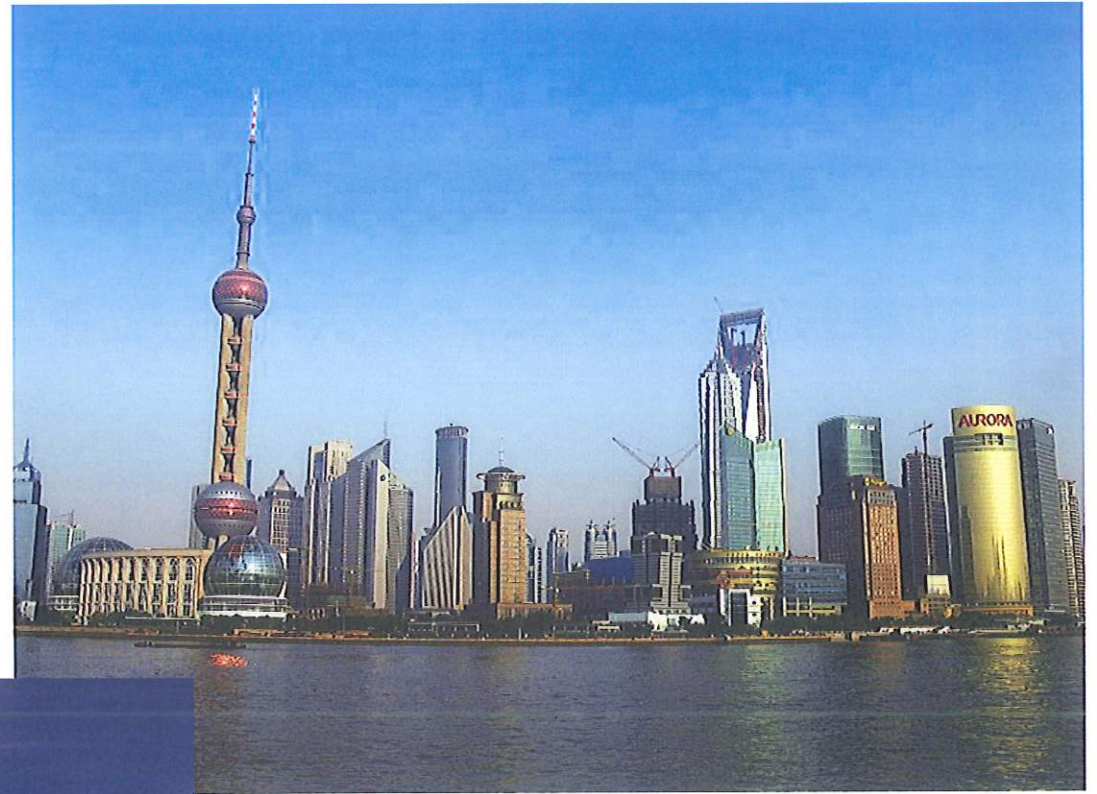


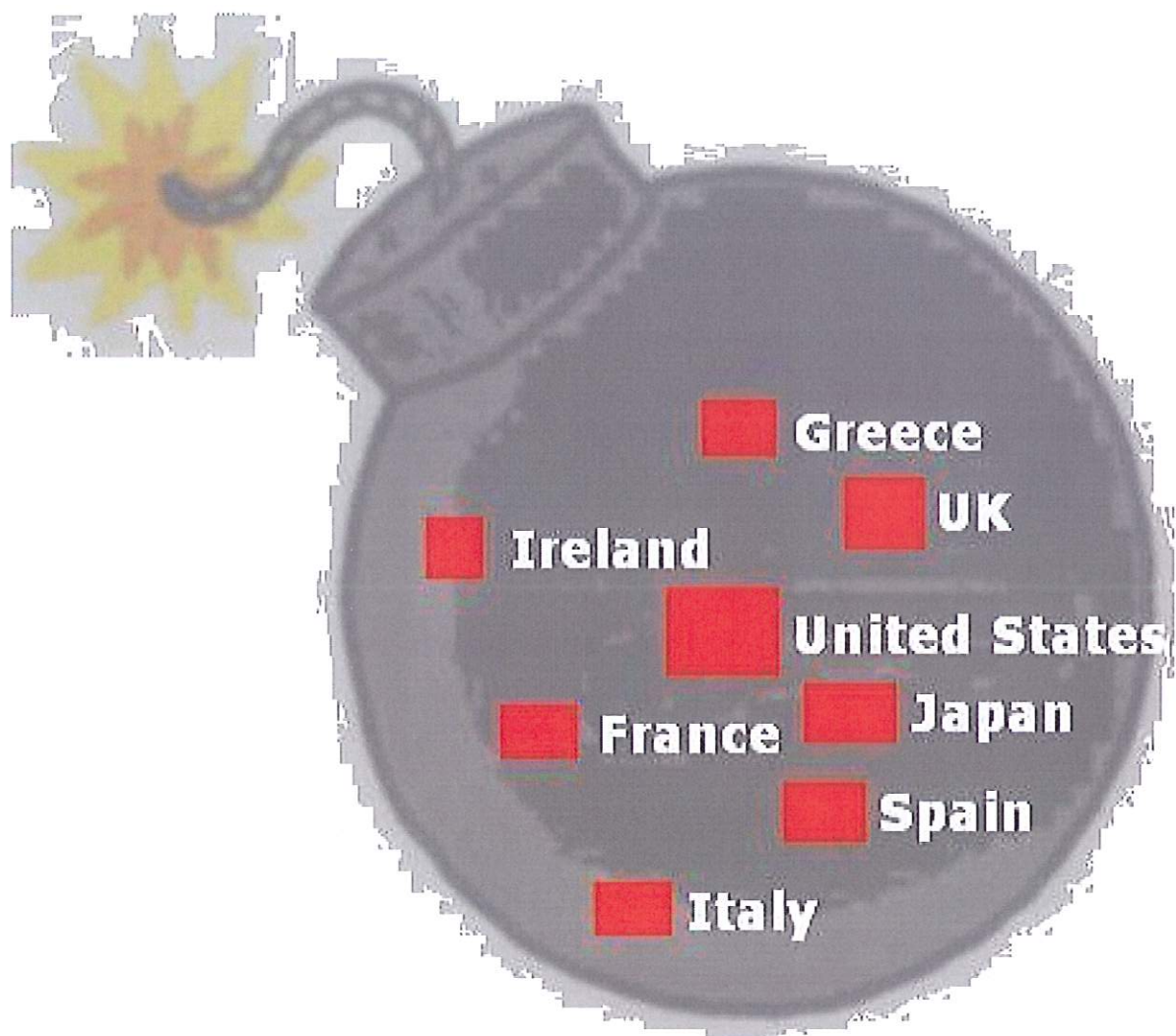
## New Century -2

- 9.11
- Web 1.0 (-2000), to 2.0 (-2010)?
- Kyoto to Copenhagen
- G8+5 to G20
- Shift of economic growth engine
- Globalization; regional conflicts  
inter-connected and inter-dependent
- Fragile and Regional











**The  
Economist**

DECEMBER 13TH-19TH 2003

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

**The future of flight**

PAGES 75-77

**Russia's broken democracy**

PAGES 22-24

**The great "offshoring" scare**

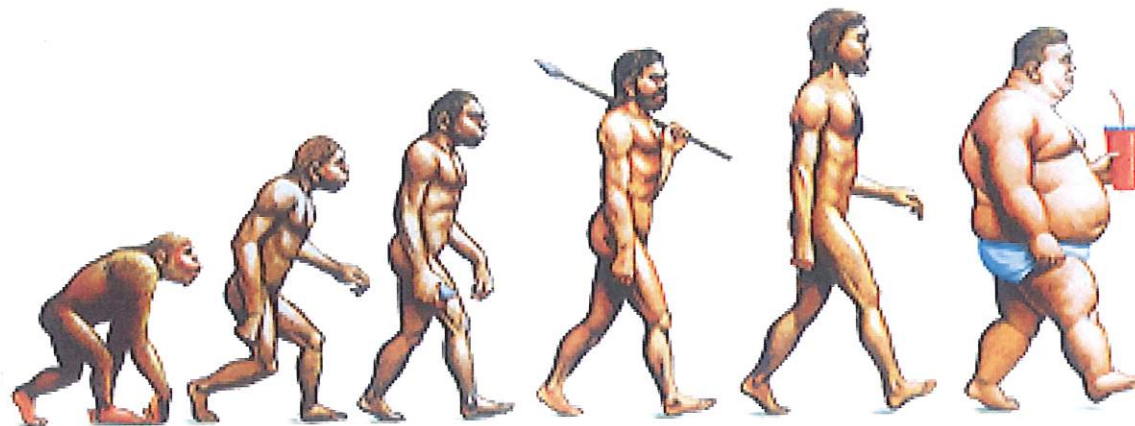
PAGES 14 AND 65-67

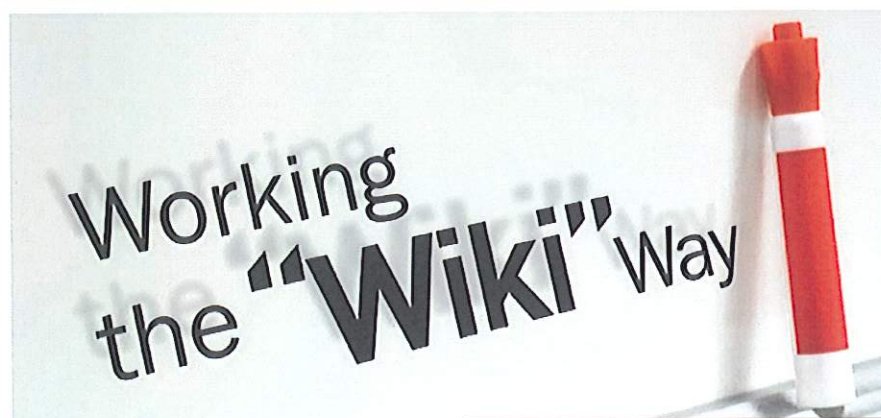
**A SURVEY OF FOOD**

AFTER PAGE 50

Ageing  
Chronic diseases  
Income disparity  
National debts

**The shape of things  
to come**







# Web 3.0 (2011-)

--Incunabula of today--

Smart phones, iPad

Wikileaks

FaceBook, twitters

Awakening - Sense of inequity and frustration









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**'The Singularity is Near'**  
**by Ray Kurzweil**

**'Our Final Hours'**  
**by Martin Rees**

**'How to Run the World: Charting a Course to  
the Next Renaissance'**  
**by Parag Khanna**

**Knowledge is digitalizable**

**Wisdom has to be earned**



**Brain circulation**  
**Open education**

**Heterogeneity and diversity**  
**Women and Girls**

**Talent mobility**  
**Innovation and Entrepreneurship**

**Many new programs and projects**



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