





New Narratives of Innovation: What If

Andrea Saltelli andrea.saltelli@jrc.ec.europa.eu

European Commission Joint Research Centre Econometrics and Applied Statistics Unit

Course at DG RTD, N. 464819 New Narratives of Innovation September 30 2014



Joseph Stiglitz

Andrea Saltelli



Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014



TECHNOLOGY GOVERNANCE

[...] doubts about the presently prevailing European Institutions' narrative, [...] 'the received wisdom'. [...] more thinking on the allegedly positive relation between innovation, employment and growth in the face of opposing evidence [...] business as usual is not an option to deal with the present inequality and unemployment challenges. [...] opening up the reflection to different economic paradigms, and to other sources of legitimate knowledge and scholarship, from bio-economics, to social inquiry and to non-neoclassical economics.

Joseph Stiglitz

Andrea Saltelli



Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014



WHY GDP DOESN'T ADD UP Joseph E. Stiglitz Amartya Sen and Jean-Paul Fitoussi

THE REPORT BY THE COMMISSION ON THE WEASUREMENT OF EUDWOMOU PERFORMANCE AND SOCIAL PROGRESS

WITH A FOREWORD BY PRESIDENT NICOLAS SARROZY





The Stiglitz-Sen-Fitoussi report



and the OECD New Narratives of Innovation, N. 464819 September 30, 2014

Andrea Saltelli

Report by the Commission on the Measurement of Economic Performance and Social Progress

Professor Joseph E. StigLitz, Chair, Columbia University

Professor Amartya SEN, Chair Adviser, Harvard University

Professor Jean-Paul Firoussi, Coordinator of the Commission, IEP

→ 2013

→ 2011

Recommendation 4: Don't use the mean; use the median. The same point is made by the OECD (2011) *Divided we stand*



www.oecd.org/els/social/inequality

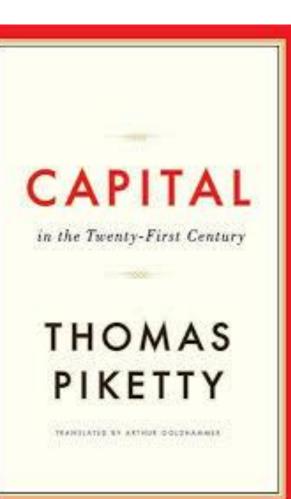


Thomas Piketty



Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014

Andrea Saltelli







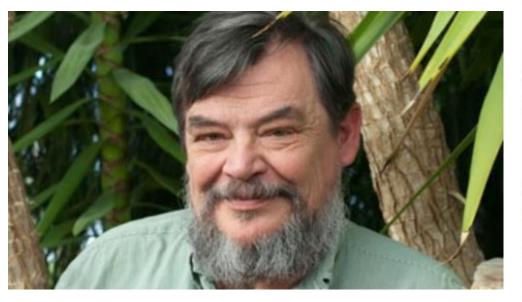
Erik Reinert



Commission

Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014

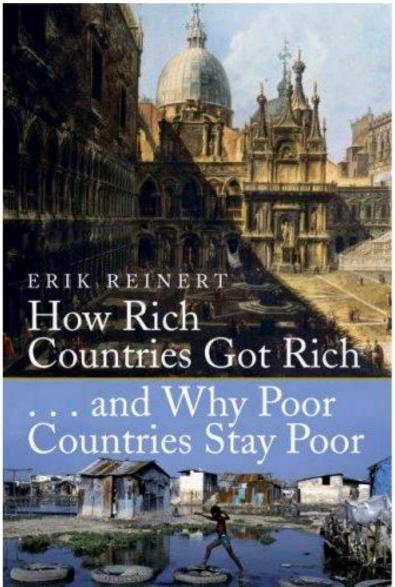
Andrea Saltelli



Erik Reinert

How Rich Countries Got Rich . . . and Why Poor Countries Stay Poor Public Affairs (October 7, 2008)

A critique of Ricardian Economics



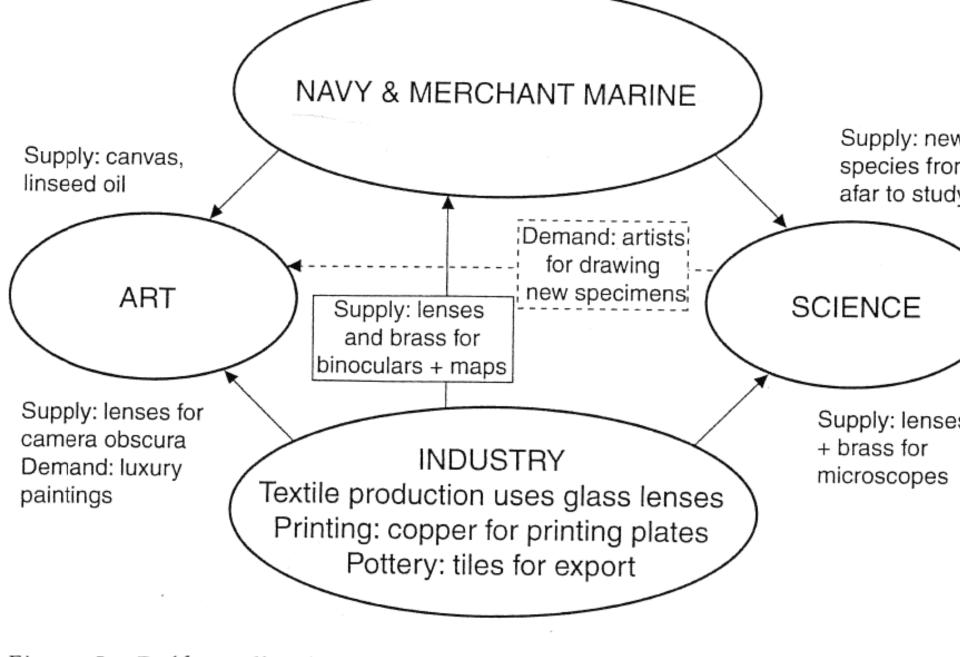


Figure 5 Delft, Holland, 1650s: an innovation system based on diversity



According to Reinert this is what Delft's 'National Innovation System' looked like at the end of the 30 y war.

Knowledge developed in one sector would jump to apparently unconnected sectors

'If you wish to estimate the wealth of a city count the number of professions found within its walls', A. Serra

• Antonio Serra, late 16th century, Breve trattato of 1613



→ Serra's idea: maximize number of professions so that synergies can emerge BREVE TRATTATO DELLECAVSE, CHE POSSONO FAR ABBONDARE LiRegnidoro, & argento.

Con applications al Regan di Napali.

DEL DOTTOR ANTONIO SERRA. della Cietà di Colenza.



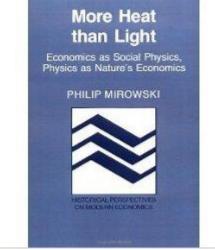
Apprello Lazzaro Scorriggio. M.DC.XIIL CON LICENZA DE SVPERIORI.

Philip Mirowski



Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014

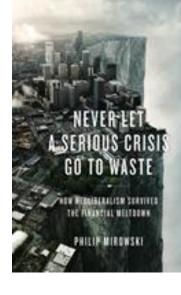
Andrea Saltelli



→ 1991









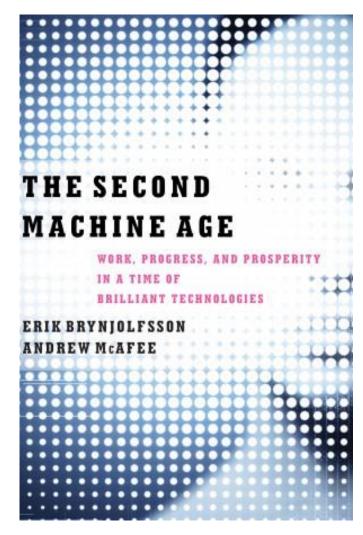
Erik Brynjolfsson and Andrew McAfee

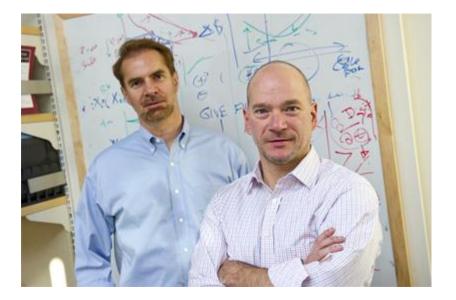


Commission

Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014

Andrea Saltelli





(i) Machines takes jobs away, (ii) skill biased technological change, (iii) 'winner takes all' markets





Daron Acemoglu and James Robinson



Commission

Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014

Andrea Saltelli







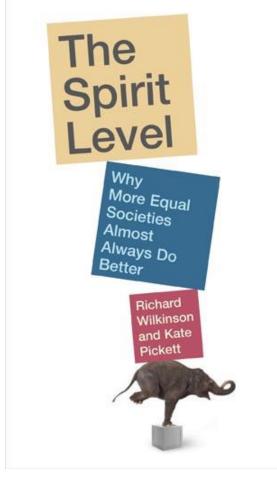
Kate Pickett, Richard Wilkinson



Commission

Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014

Andrea Saltelli





→ 2012



Joseph Stiglitz (again!)



Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014

Andrea Saltelli

NEW YORK TIMES BESTSELLER



"A searing read." –Nicholas Kristof



HOW TODAY'S DIVIDED SOCIETY ENDANGERS OUR FUTURE → 2012

WITH A NEW PREFACE

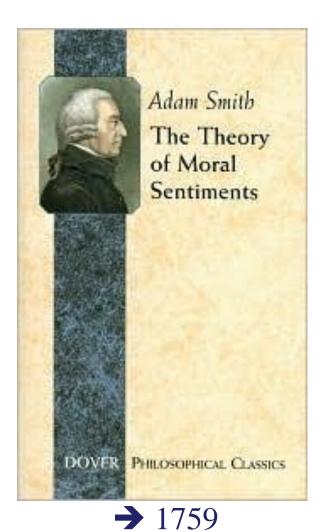


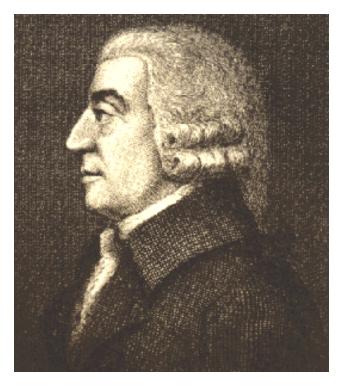
Adam Smith

Andrea Saltelli



Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014









'Resentment seems to have been given us by nature for a defense, and for a defense only. It is the safeguard of justice and the security of innocence. It prompts us to beat off the mischief which is attempted to be done to us, and to retaliate that which is already done, that the offender may be made to repent his injustice, and that others, through fear of the like punishment, may be terrified from being guilty of the like offence.'

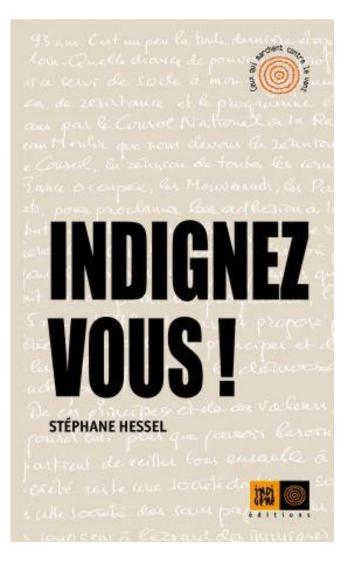
Stéphane Hessel



Commission

Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014

Andrea Saltelli





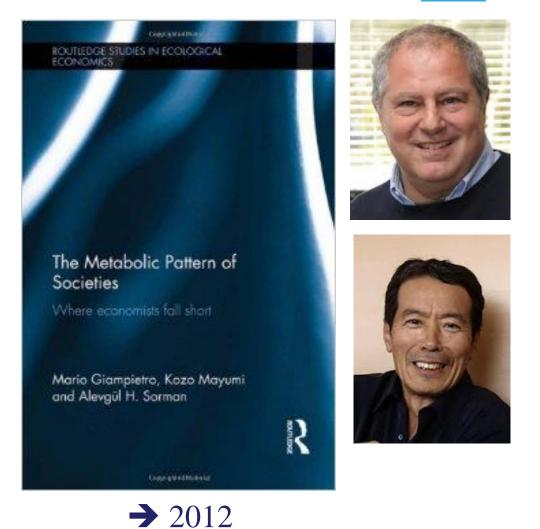
School of Nicholas Georgescu-Roegen



Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014

Andrea Saltelli

European Commission









The 'innovation narrative' (let us innovate our way out of the crisis) comes under attack from several quarters pointing to different dimensions (human, social, economic, ecological, energetic ...) for its un-sustainability

In the context of the European project the focus is on the German school of Economics critique (Erik Reinert) denouncing the de-industrialization of the of Europe's periphery ...



Bottomline:

Andrea Saltelli



Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014

Failed and Asymmetrical Integration: Eastern Europe and the Non-financial Origins of the European Crisis

the crisis in the Baltic countries [...] dramatic de-industrialization and structural change that took place in these countries, and other Eastern European economies, following the fall of the Berlin Wall. [...] with the Eastern enlargement, climaxing in 2004 [...], the EU gradually abandoned its previous strategy of symmetrical integration – based on principles surviving from the Post World War II era, inspired by Friedrich List – integrating the region's economies into a structurally asymmetrical relationship that has common elements with colonialism....

Space for optimism





Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014



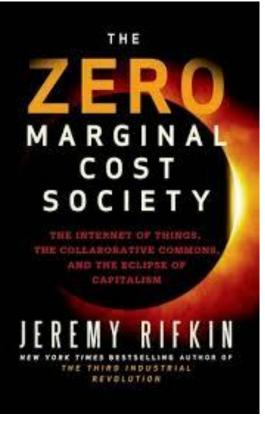


Jeremy Rifkin

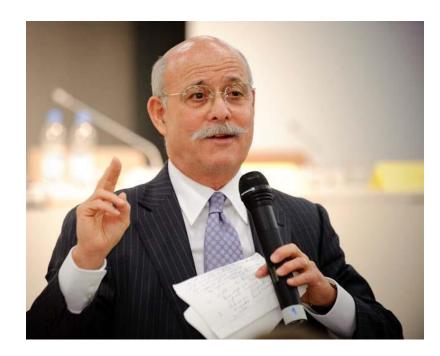
Andrea Saltelli



Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014







the internet of things harbingering a new era of growth: the shared economy ... the

prosumers ...

Joint Research Centre



Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014

Brynjolfsson and McAfee (2014) are confident that a 'beautiful partnership' can include humans' intuition and creativity and computers' high routine processing, repetitive arithmetic and communication abilities.

Work 'with' the machine instead of 'against' them ...



→ 2014





Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014

Reflection group lead by Jacques Attali

THE PATH TO A POSITIVE ECONOMY



The Movement for a Positive Economy: an economy that seeks more than profit,



fayard

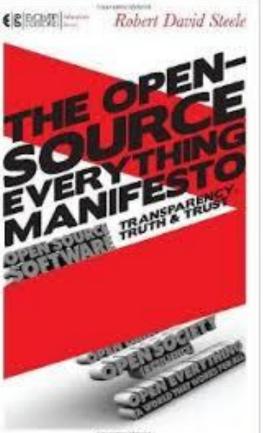
http://www.lh-forum.com



Robert David Steele

Course at DG TRD New Narratives of Innovation, N. 464819 September 30, 2014

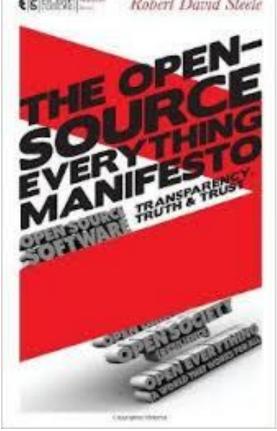
Andrea Saltelli



What the world needs right now is the restoration of trust collapsed by rampant corruption at all level of government and representation, and this can be achieved by a grass root movement for collective decision-making based on open source everything: 'The open source ecology is made up of a wide range of opens – open farm technology, open source software, open hardware, open networks, open money, open small business technology, open patents ...'









Business as usual is not advisable

We don't believe in Latouche's décroissance heureuse but (i) growth is likely to be subdued in the coming years - in its current (April 2014) World Economic Outlook, the IMF essentially endorses the secular stagnation hypothesis; and (ii) growth is likely to accrue mostly to the elites in the present paradigm.

More attention should hence be paid to distributive justice and inter-generational fairness, to the respect for the rule of law and on to the control of the rent extracting elites.

The effect of the consolidation exercise on the most fragile countries should be carefully reconsidered in light of data based evidence.

We can only discuss sustainability of the EU enterprise if we first agree on what we want to sustain and for whom.

