



SOON IT'S LATE
AND NOW?

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**Limiti planetari e
ed etica dei consumi**

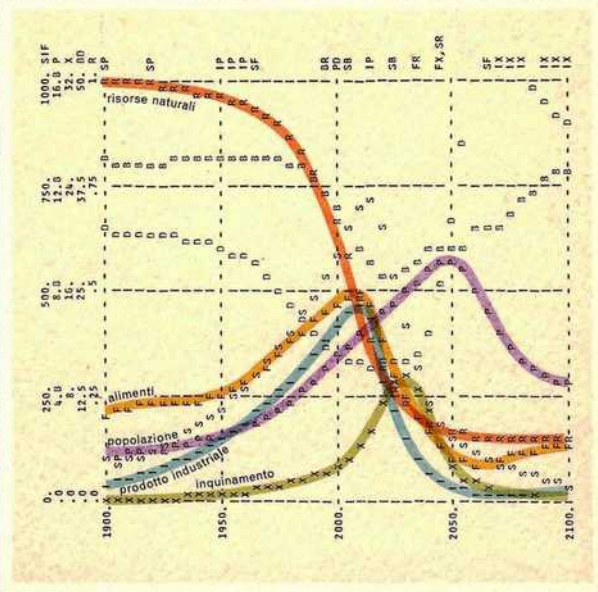
*Luca Mercalli – Società
Meteorologica Italiana,
www.nimbus.it*

**CentroConsumatori Bolzano,
24.11.2014**

LASTCALLTHEFILM.ORG

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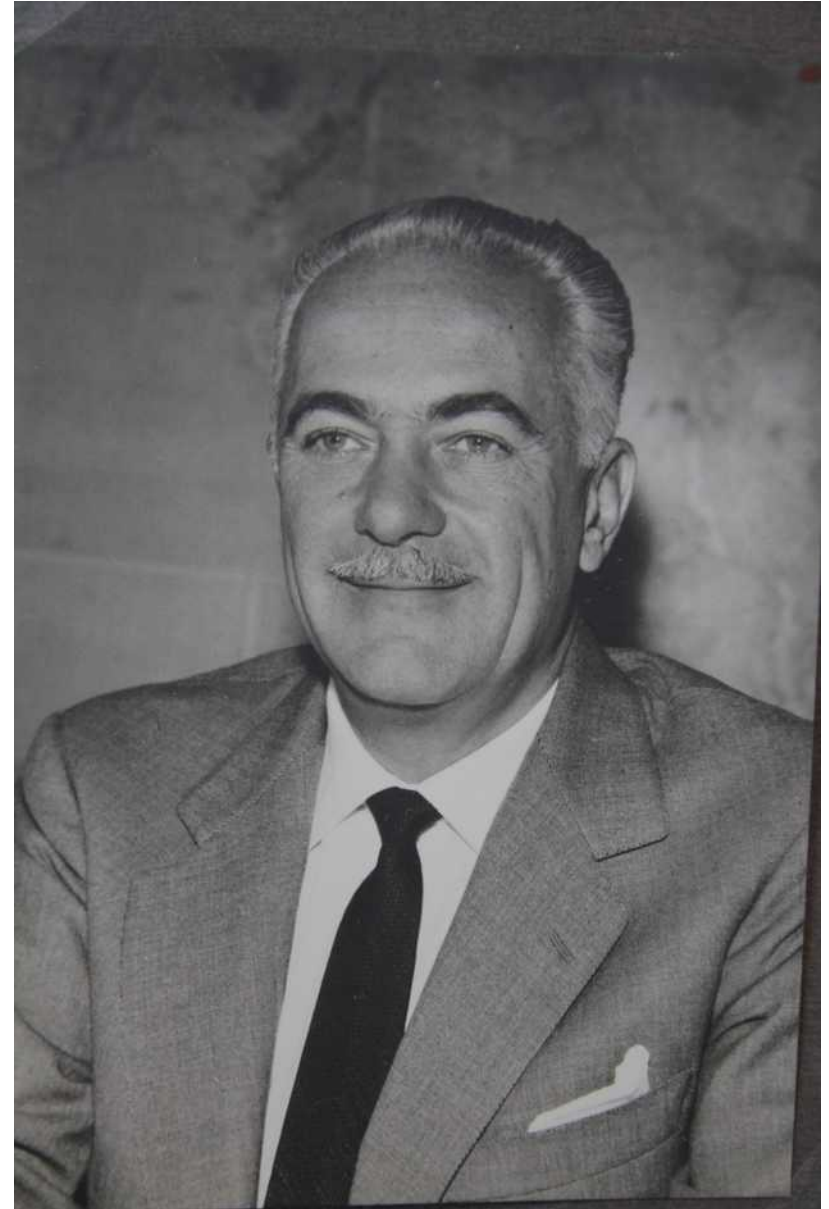
prefazione di
AURELIO PECCEI



I LIMITI dello SVILUPPO

rapporto del System Dynamics Group
Massachusetts Institute of Technology (MIT)
per il progetto del Club di Roma
sui dilemmi dell'umanità

Biblioteca della **EST**
EDIZIONI SCIENTIFICHE E TECNICHE
MONDADORI



FEATURE

A safe operating space for humanity

Identifying and quantifying planetary boundaries that must not be transgressed could help prevent human activities from causing unacceptable environmental change, argue **Johan Rockström** and colleagues.

Rockstrom & al., Nature 2009

9.4GtonC/yr, 15% (34 GtCO₂)

pH si è spostato verso il basso negli ultimi 250 anni di circa 0.1 unità di pH, pari al 21%

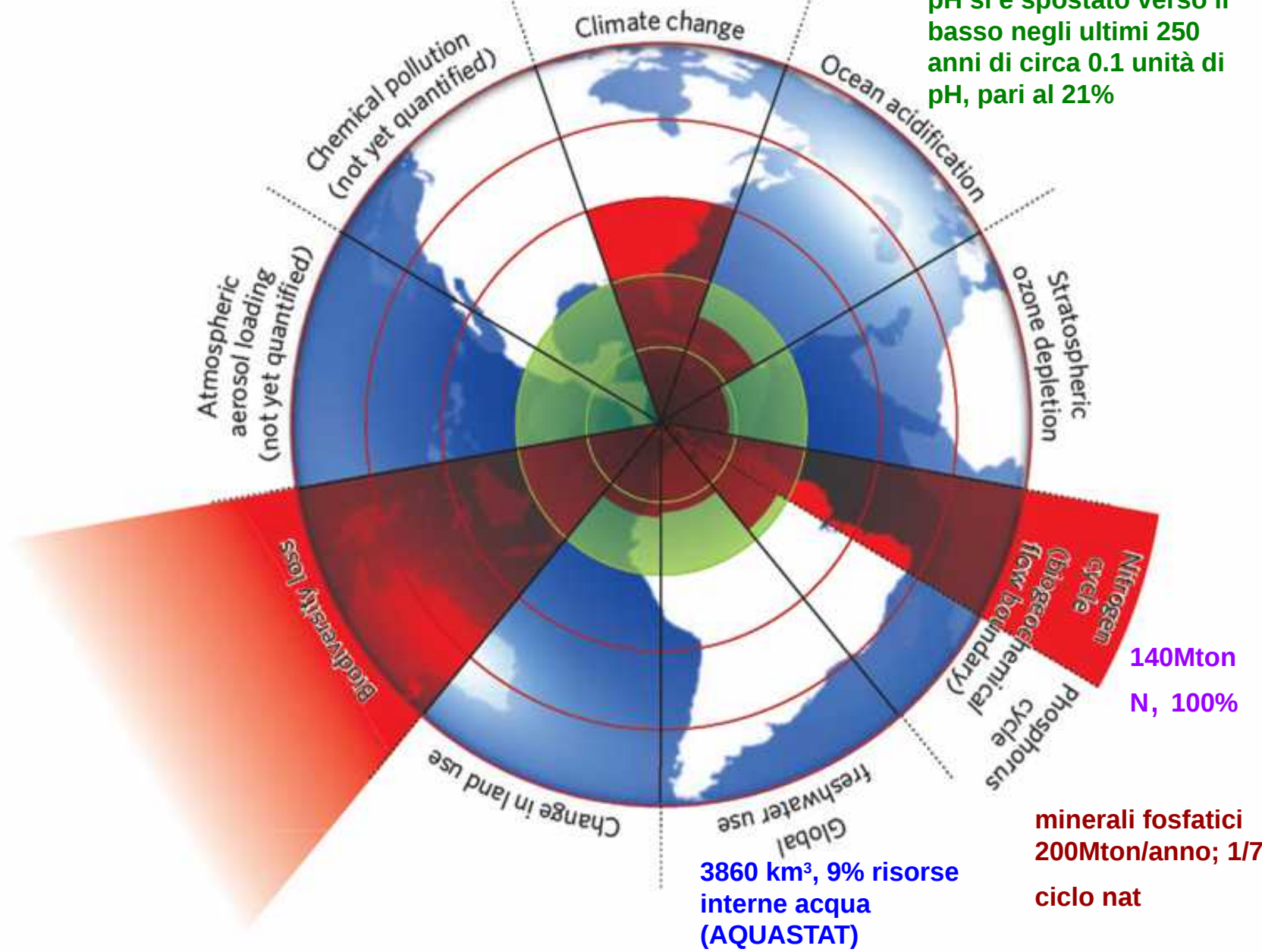


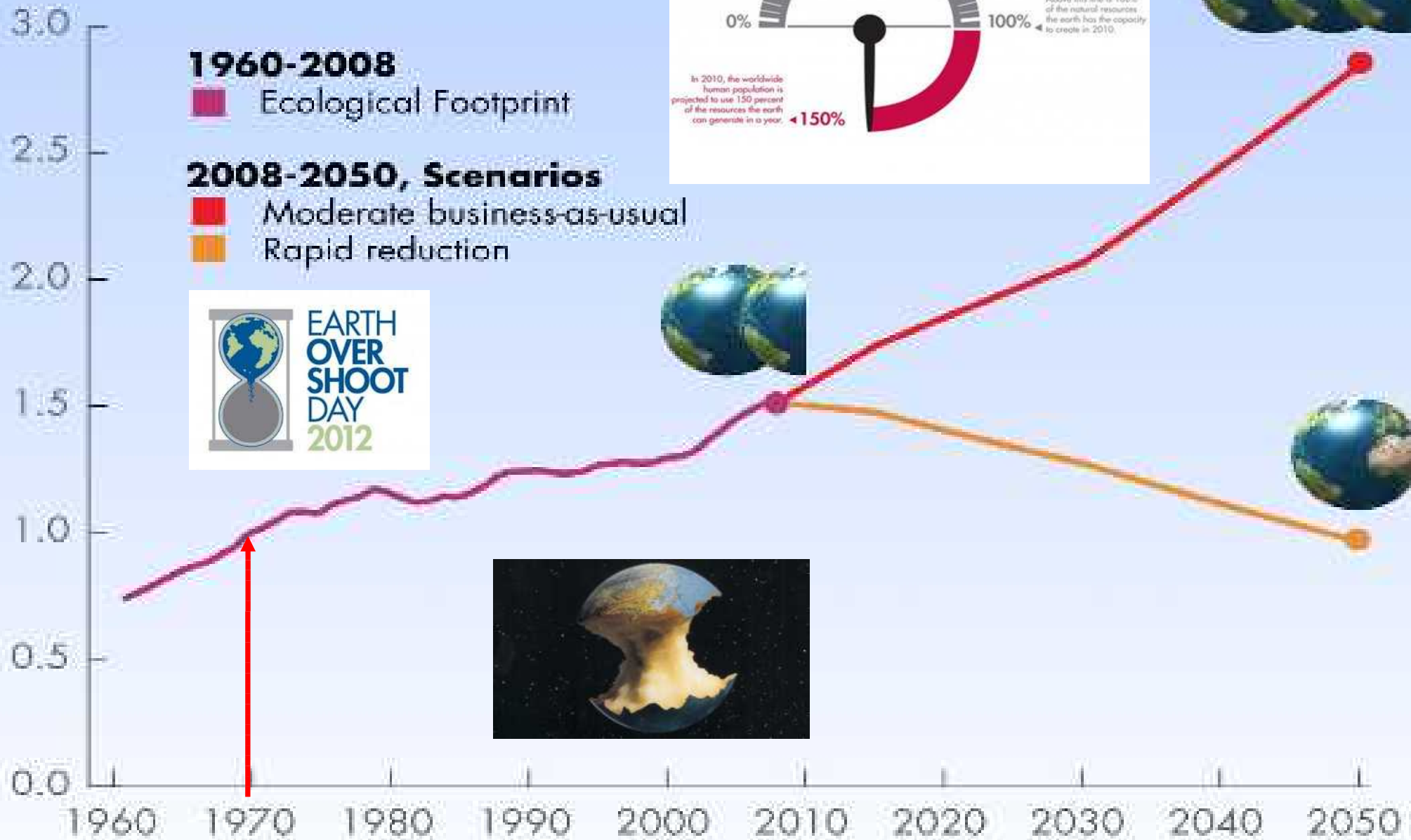
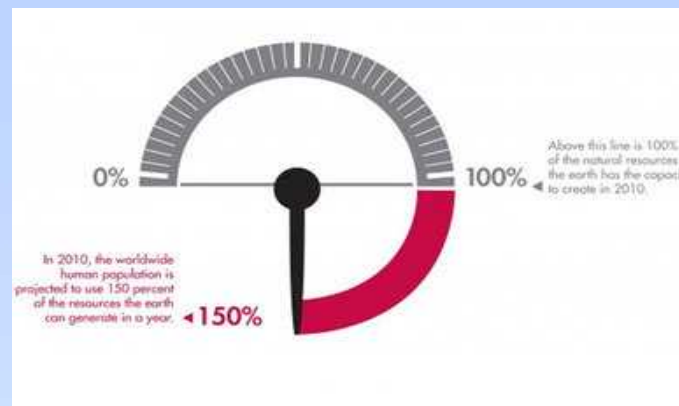
Figure 1 | Beyond the boundary. The inner green shading represents the proposed safe operating space for nine planetary systems. The red wedges represent an estimate of the current position for each variable. The boundaries in three systems (rate of biodiversity loss, climate change and human interference with the nitrogen cycle), have already been exceeded.

1960-2008

Ecological Footprint

2008-2050, Scenarios

- Moderate business-as-usual
- Rapid reduction



y-axis: number of planet earths, x-axis: years

www.ipcc.ch



The screenshot shows the IPCC website homepage. At the top, there is a blue header with the IPCC logo on the left, the text "INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE" in the center, and the UNEP logo on the right. Below the header is a navigation bar with "IPCC" on the left and "Languages" and "IPCC web site" on the right. The main content area is divided into several sections. On the left, there is a vertical menu with links: "Home", "About IPCC", "Meetings and Conferences", "IPCC Reports", "Invited Presentations & Openness", "Institution for Business", "IPCC Occasions", and "Links". The central section features a large blue banner with the text "20 years IPCC" and "17th August 2008" above a photograph of a grand building at night. To the right of the banner, there are two news items: "1 December 2008" and "2 December 2008". At the bottom, there is a section for "IPCC Technical Paper on: Climate Change and Water" and a "Full Document" link.

IPCC

INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

UNEP

Home

About IPCC

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Institution for Business

IPCC Occasions

Links

At its 29th Session the IPCC re-elected Dr. Pachauri Chair of IPCC and it elected a new IPCC Bureau and Task Force Bureau

20 years IPCC
17th August 2008

1 December 2008
Special E by Mr. Eduardo Lora, IPCC Chair, at the Opening Ceremony of the UNFCCC COP14, Poznan

2 December 2008
IPCC side event: "The IPCC scientific process"

This side event will take place 12.00-13.00 in the Reception Suite from:

Watch the webcast of the side event

IPCC Technical Paper on: Climate Change and Water

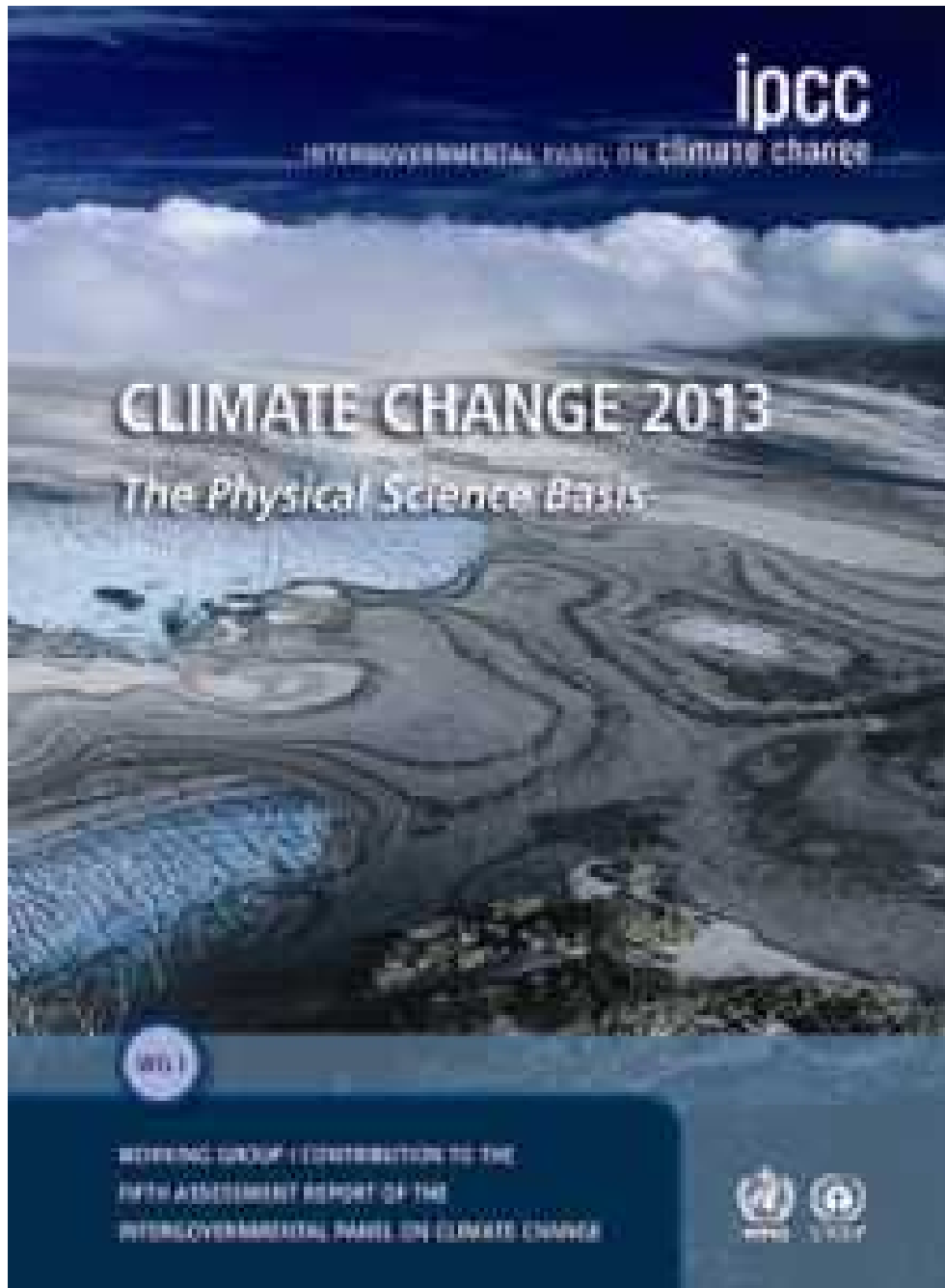
Full Document

IPCC 2008 February Session & IPCC 2008 Assembly
Geneva, Switzerland

Thomas Stocker, Uni Bern/Ipcc :

“Per favore, ascoltate il messaggio degli scienziati”.



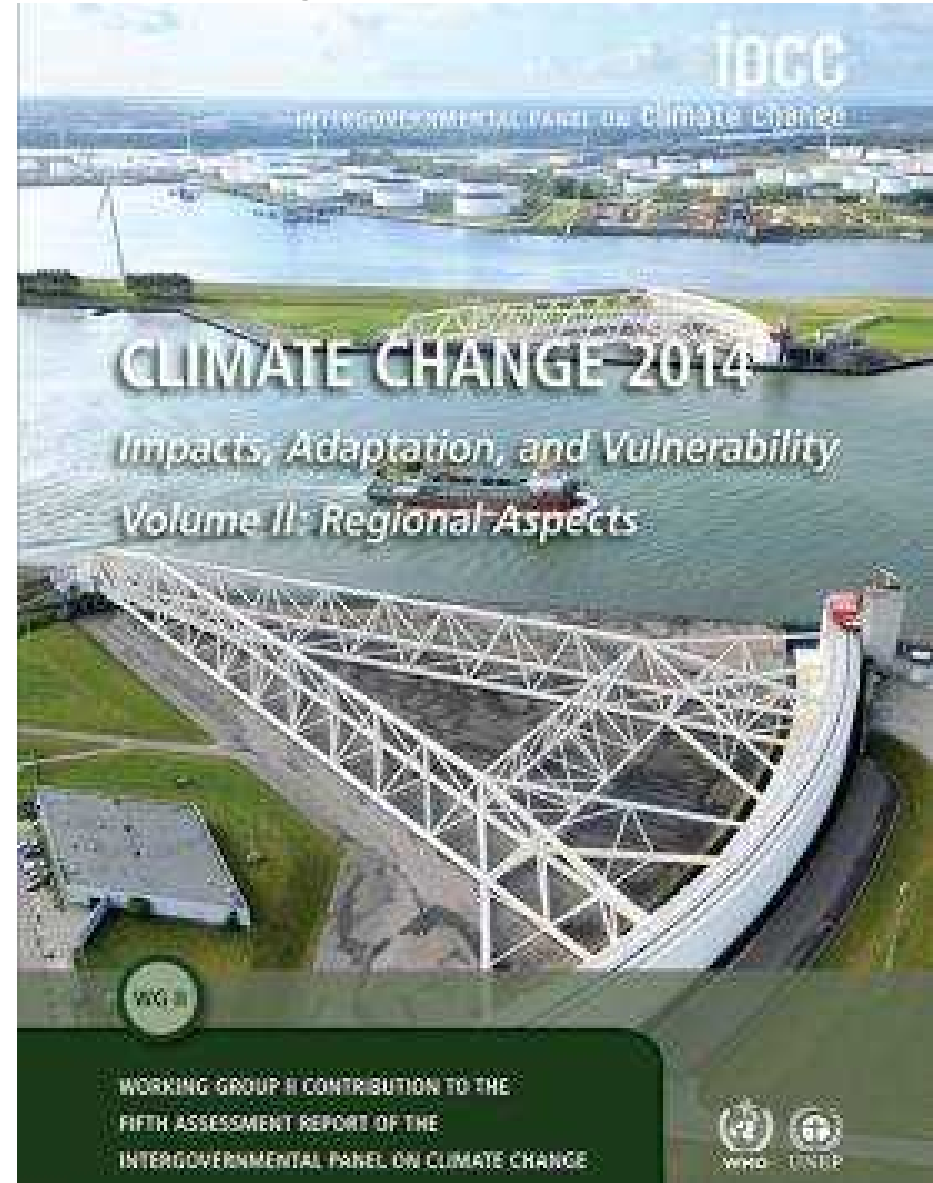


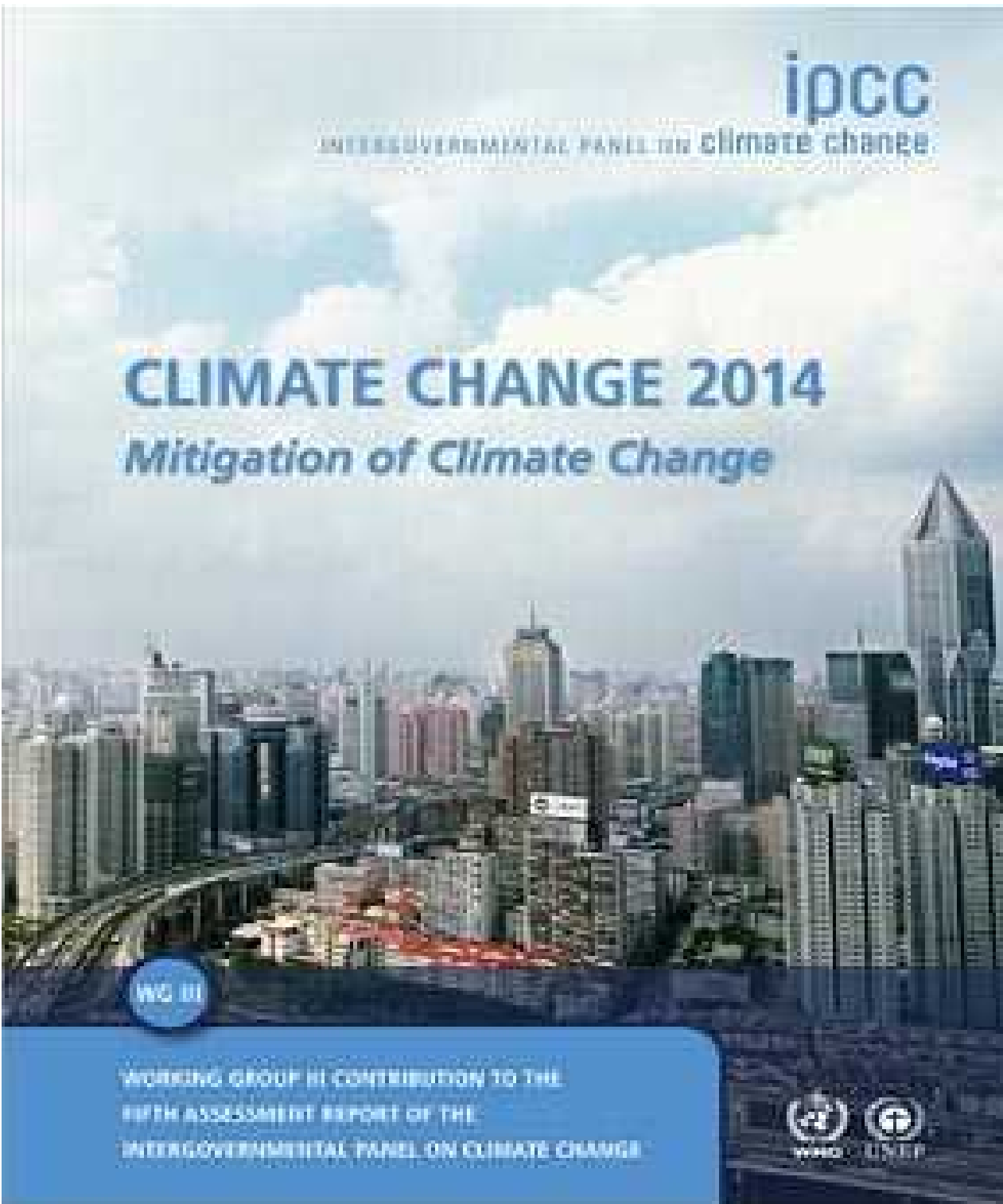
AR5 2013-14
Quinto rapporto
sul clima
globale: se ne
è parlato troppo
poco!

ipcc
INTERGOVERNMENTAL PANEL ON
climate change



Lunedì 31 marzo 2014, a Yokohama (Giappone), il **Working Group II (WGII)** dell'**Intergovernmental Panel on Climate Change (IPCC)** ha presentato la **seconda parte del Quinto Rapporto di Valutazione sui Cambiamenti Climatici**, dedicata a **Impatti, Adattamento e Vulnerabilità**. 243 autori principali, 66 revisori da 70 paesi, 30 capitoli, oltre 2500 pagine e 12.000 citazioni bibliografiche





Berlino
(7-12 aprile
2014)
terzo volume del
Quinto Rapporto
di Valutazione
sui Cambiamenti
Climatici,
dedicato alla
mitigazione.
www.ipcc.ch

A first in human history

Carbon dioxide levels have crossed 400 ppm. This means the impacts of climate change will be even more pronounced—droughts, floods and sea level rise, for instance. If the world does not act to limit carbon dioxide emissions, climate change will cause devastation worldwide, and more so in South Asia. The poor will end up with a raw deal

BREACHES
400
PPM ON
MAY 9, 2013

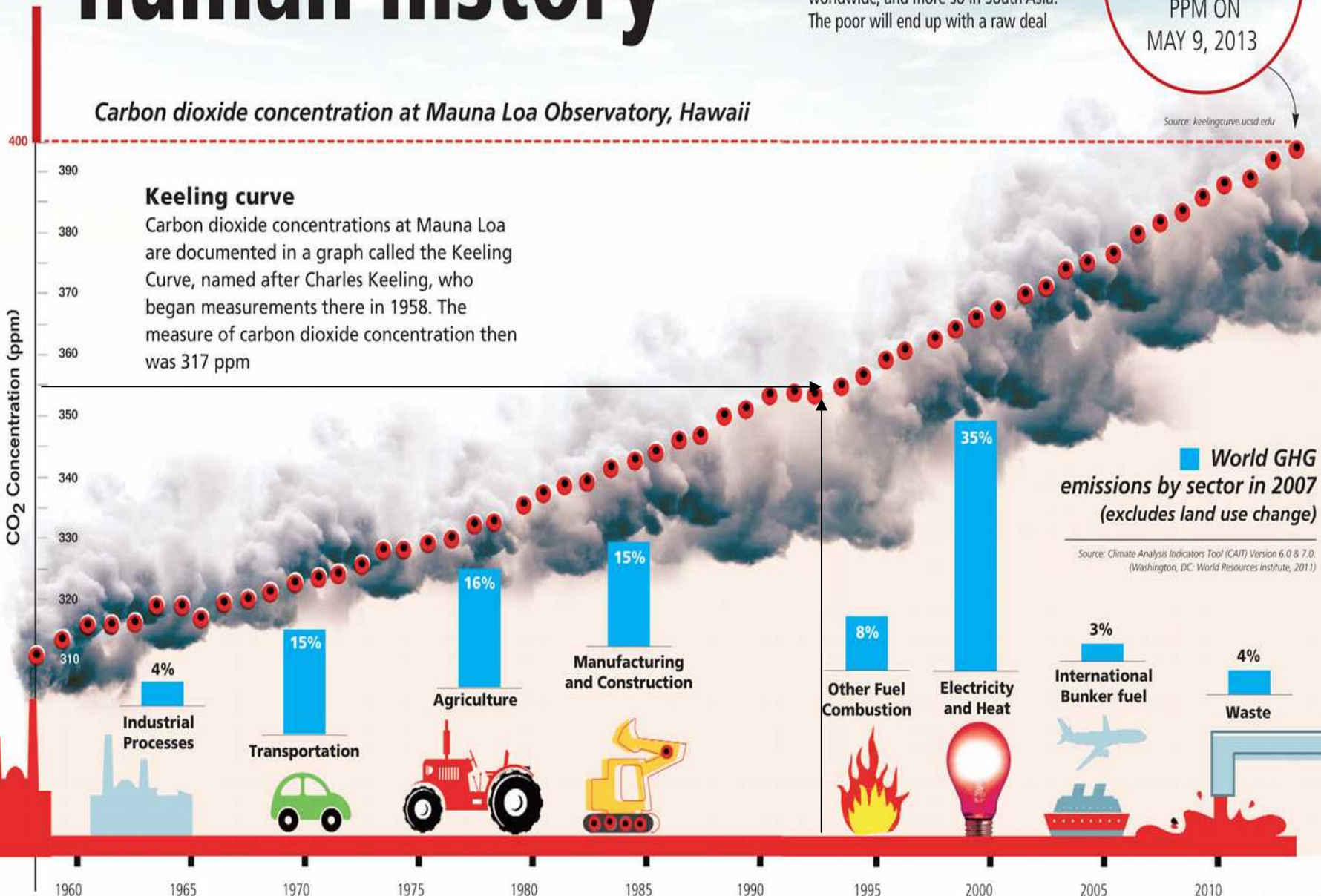
- For the past several years, CO₂ concentrations have hovered close to 390 ppm. The 400 ppm daily average is a first in human history

- In the last 50 ppm increase, the Arctic melted. Imagine what another 50 ppm increase will do

- Diversity of even common species found in most parts of the world will be badly hit. Animal species in particular may decline more as a result of loss of food from plants

- Some environmentalists are of the view that to return to the 350 ppm level, use of conventional energy sources has to be re-examined. But this is easier said than done. Any alternative measure will require finance and technological assistance from industrialised countries to developing countries. Even though institutions for financial transfer exist under UNFCCC, there is no money and the industrialised world has not provided exclusive climate finance to developing countries yet

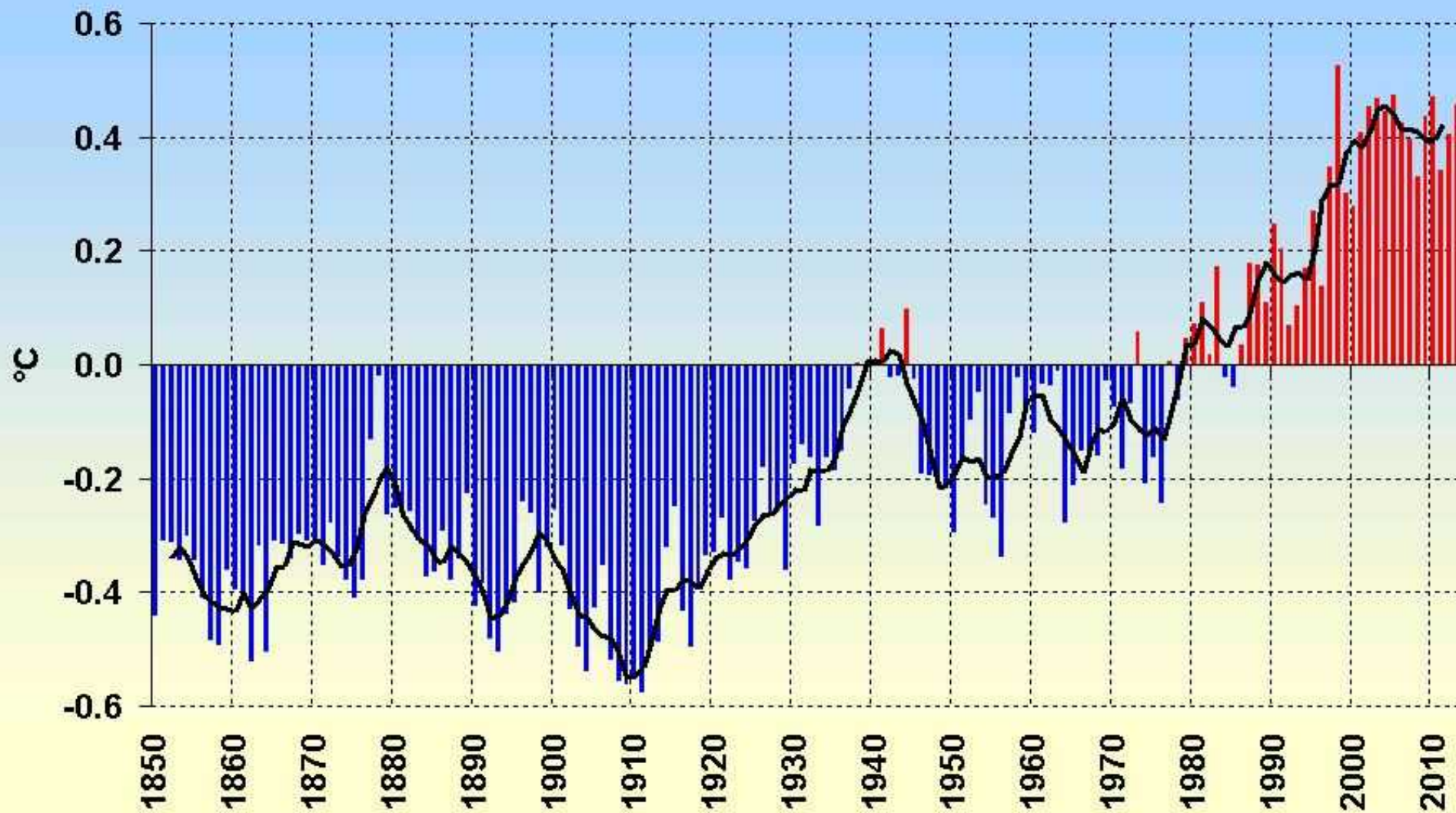
Carbon dioxide concentration at Mauna Loa Observatory, Hawaii



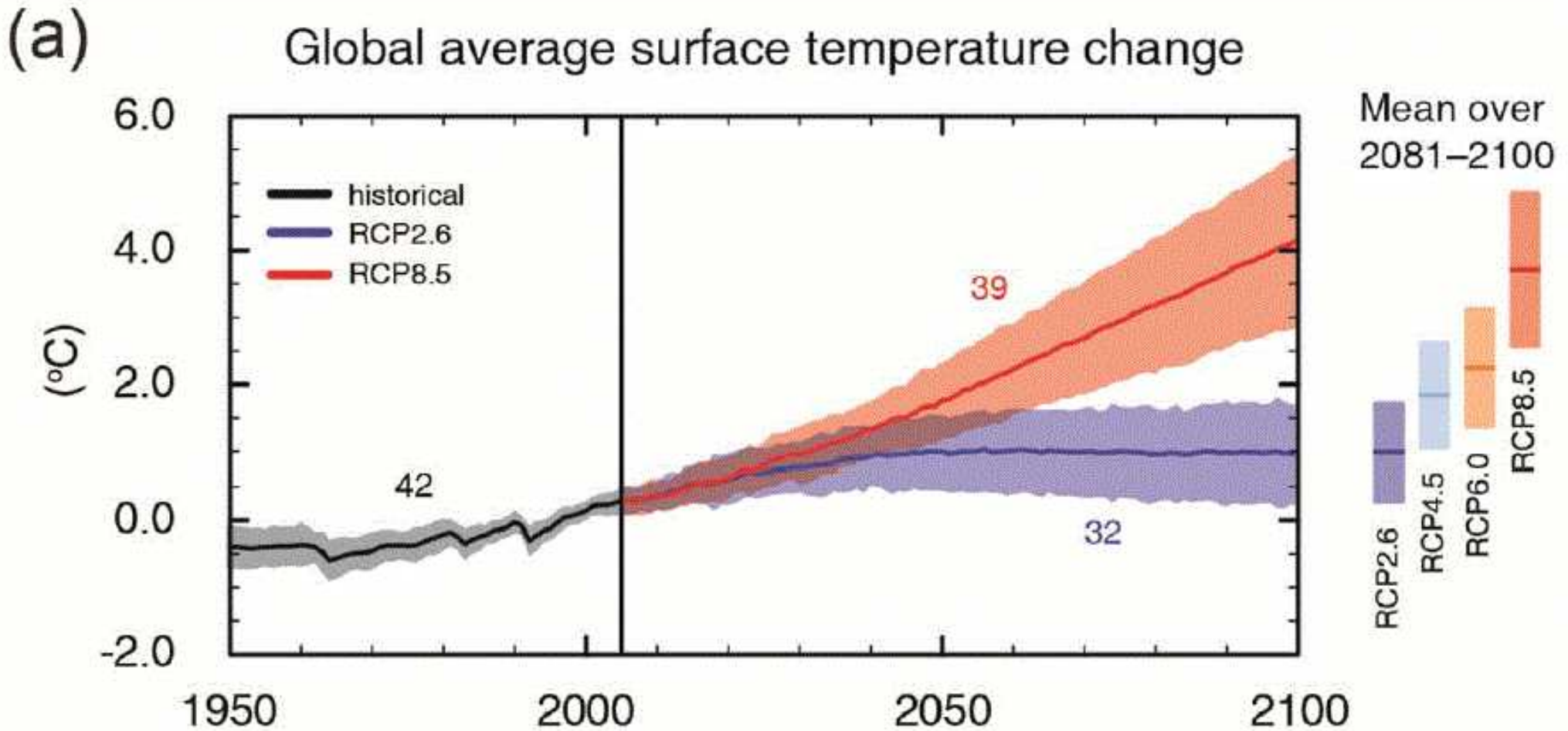
Riscaldamento globale in atto: circa +1°C nell'ultimo secolo

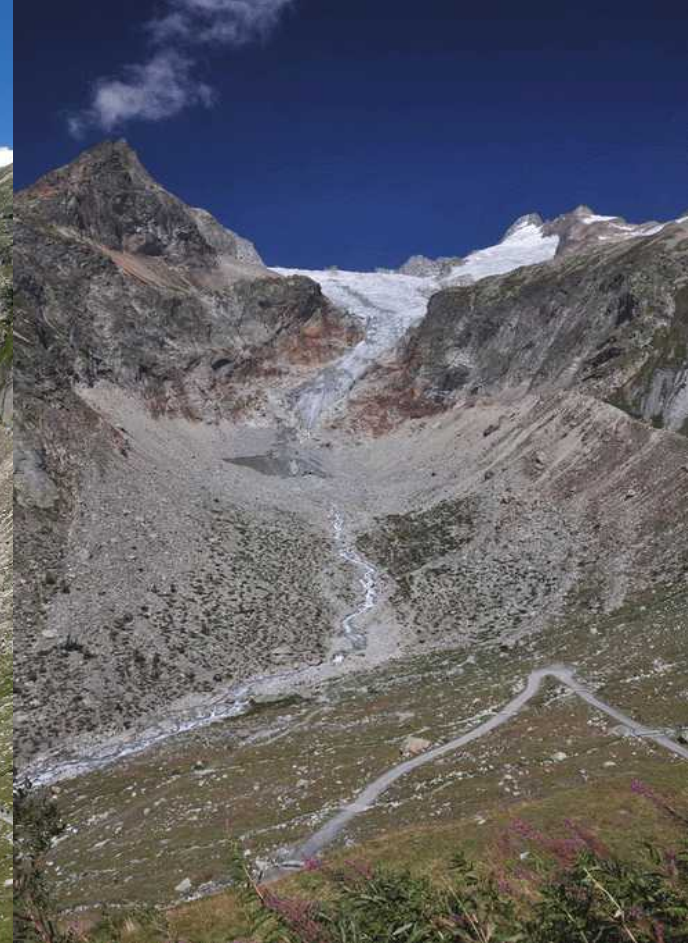
Anomalie termiche globali dal 1850 al 2013

(rispetto a media 1961-90; Fonte: CRU - Univ. East Anglia, UK)



Il futuro della temperatura globale secondo IPCC AR5





1897

(f. Druetti)

2005

(f. L. Mercalli)

2012

(f. L. Mercalli)

Ghiacciaio Pré de Bar (Monte Bianco)

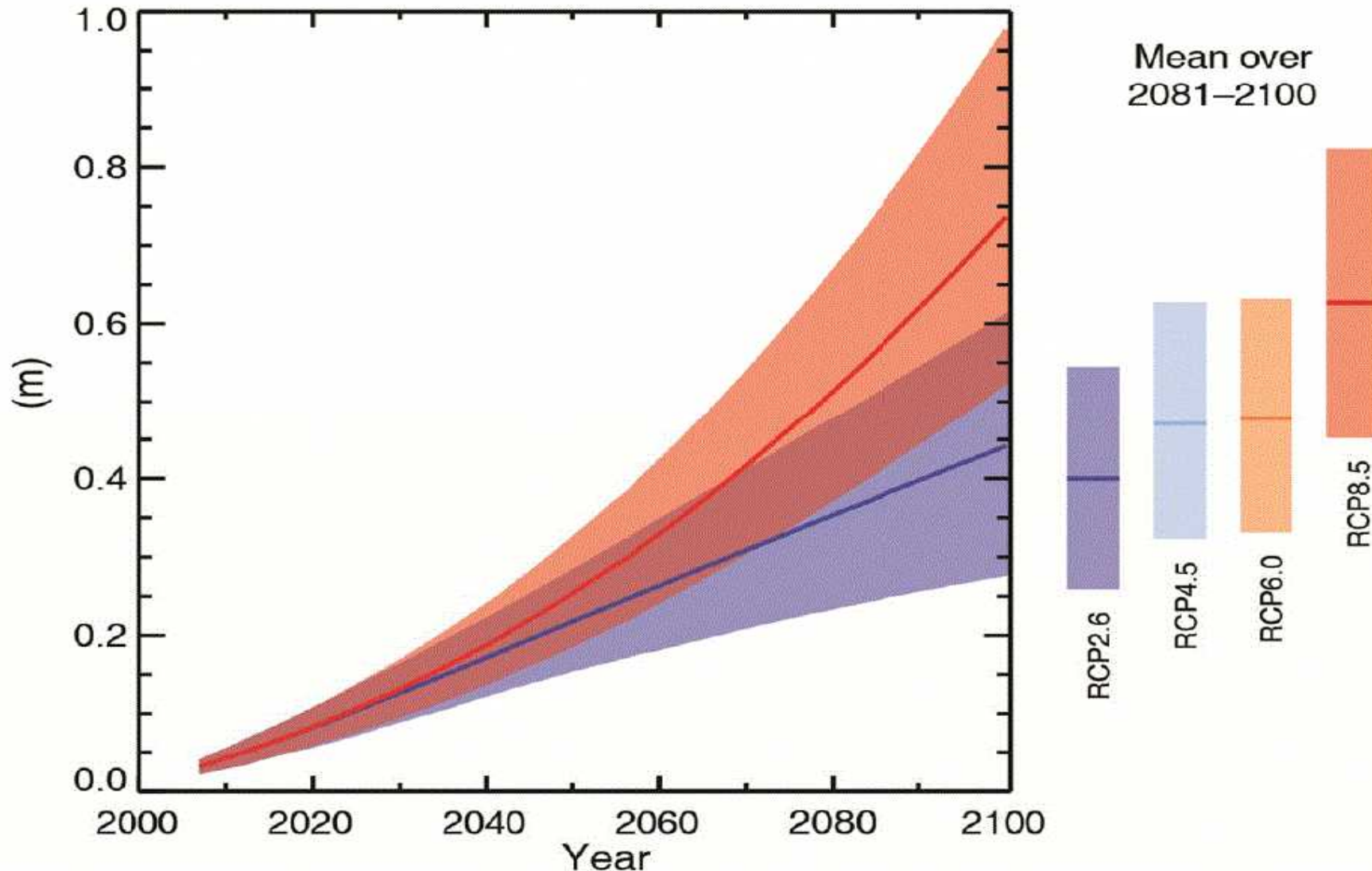
Il ritiro dei ghiacciai: un robusto indicatore del riscaldamento globale facilmente percepibile da chiunque



...e un modo esplicito di visualizzarlo già oggi!

L'aumento di livello marino secondo IPCC AR5

Global mean sea level rise



Being wise with waste: the EU's approach to waste management



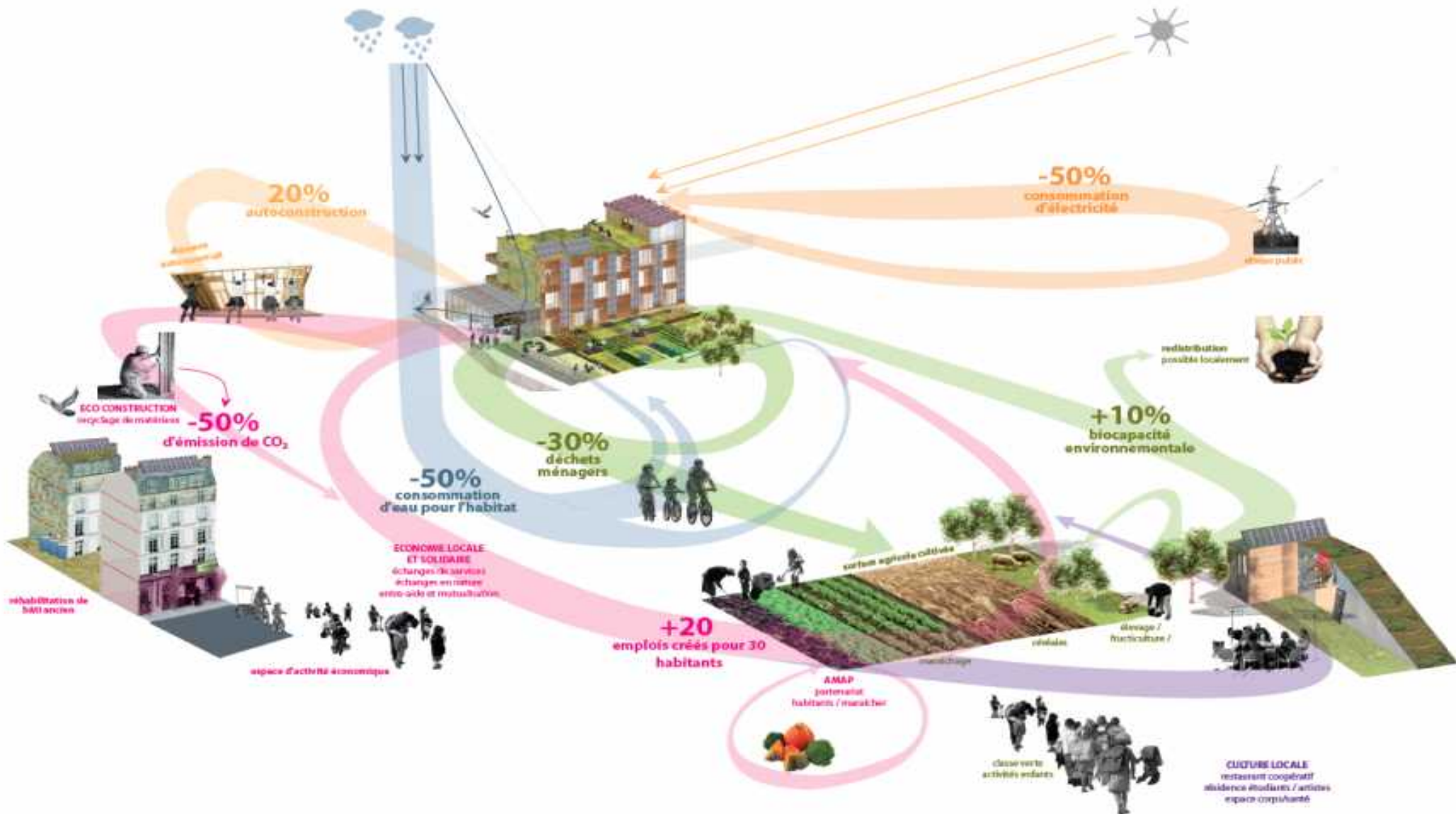
**Produrre
meno
rifiuti!**

**514 kg/pc
anno**

**Fare il
compost!**



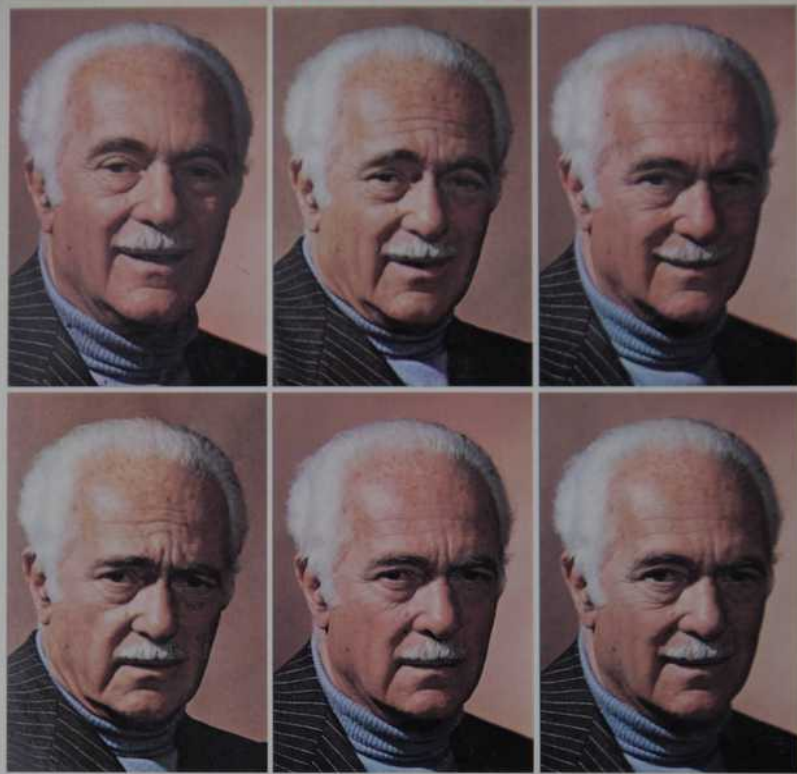
Sostenibilità, resilienza economia circolare





**Energie rinnovabili ed efficienza
energetica abitazioni –
Da consumers a prosumers**

AURELIO PECCEI



**Cento pagine
per l'avvenire**

Arnoldo Mondadori Editore

