

*„You are Sowers  
of Change!”*

*(Pope Francis, Sannta Cruz, Bolivia, July 9th 2015)*

*Orientation  
PPKE JÁK  
2015 szeptember 7.*

„Time, my brothers and sisters, seems to be running out; we are not yet tearing one another apart, but we are tearing apart our common home. Today, the scientific community realizes what the poor have long told us: harm, perhaps irreversible harm, is being done to the ecosystem. The earth, entire peoples and individual persons are being brutally punished.

An unfettered pursuit of money rules. The service of the common good is left behind. Once capital becomes an idol and guides people's decisions, once greed for money presides over the entire socioeconomic system, it ruins society”

„... there is an invisible thread joining every one of those forms of exclusion: can we recognize it?

These are not isolated issues.

I wonder whether we can see that these destructive realities are part of a system which has become global.”

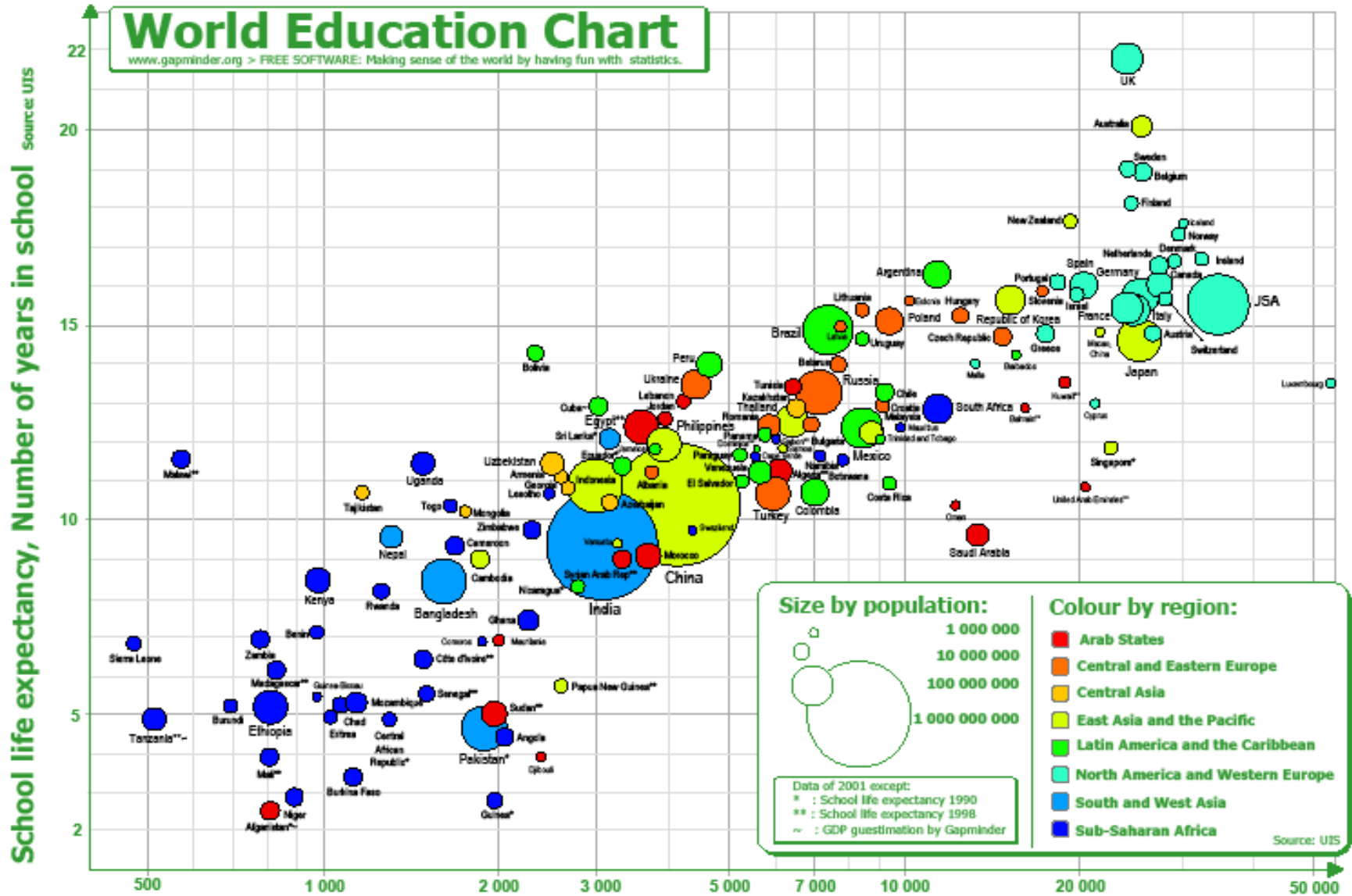
„we want change, real change,  
structural change.

This system is by now intolerable:  
farmworkers find it intolerable, labourers  
find it intolerable, communities find it  
intolerable, peoples find it intolerable ...  
The earth itself – our sister, Mother  
Earth, as Saint Francis would say – also  
finds it intolerable.”

„Liberté,  
égalité,  
fraternité!”

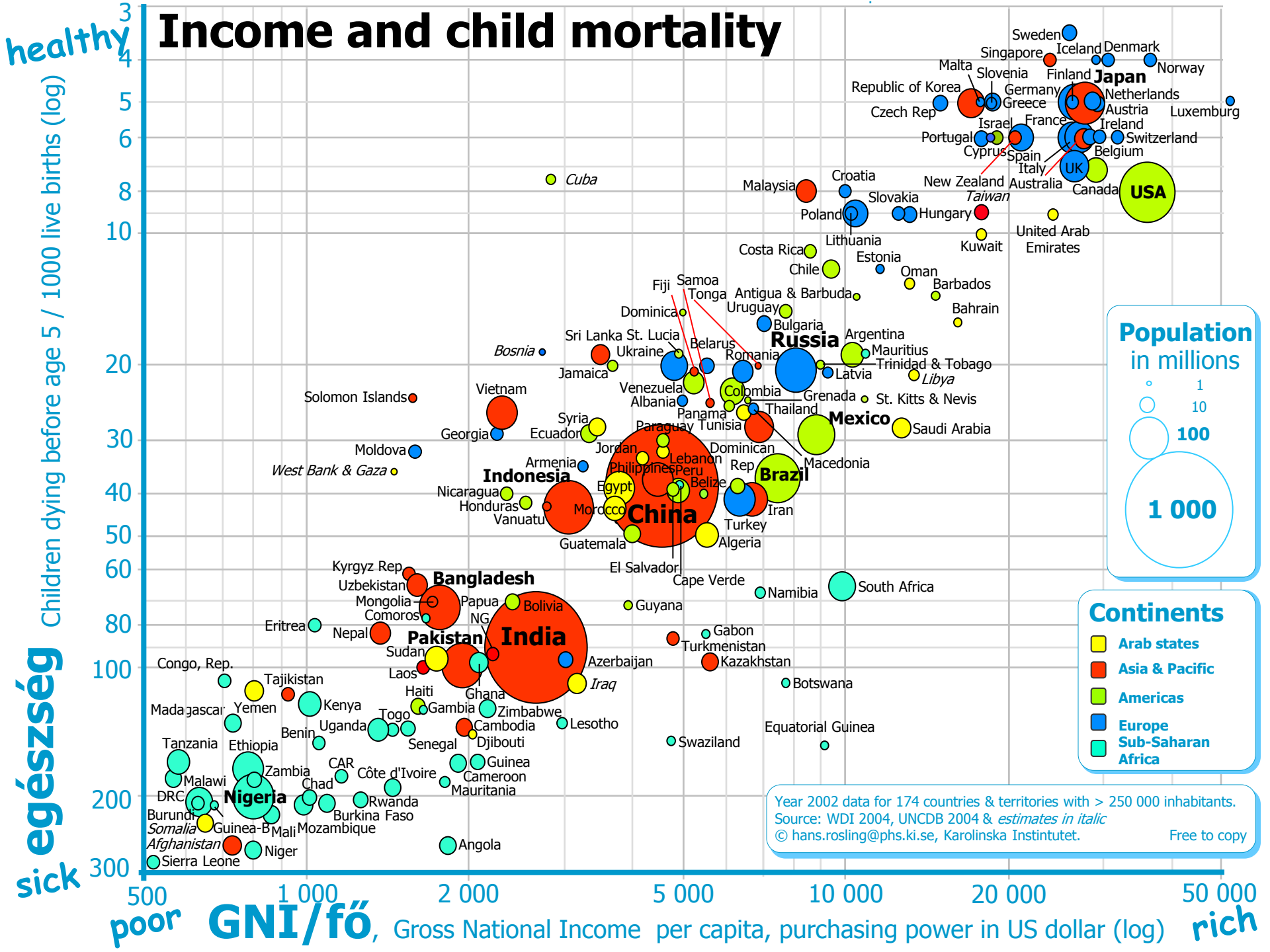
(?)

# Learning and GDP

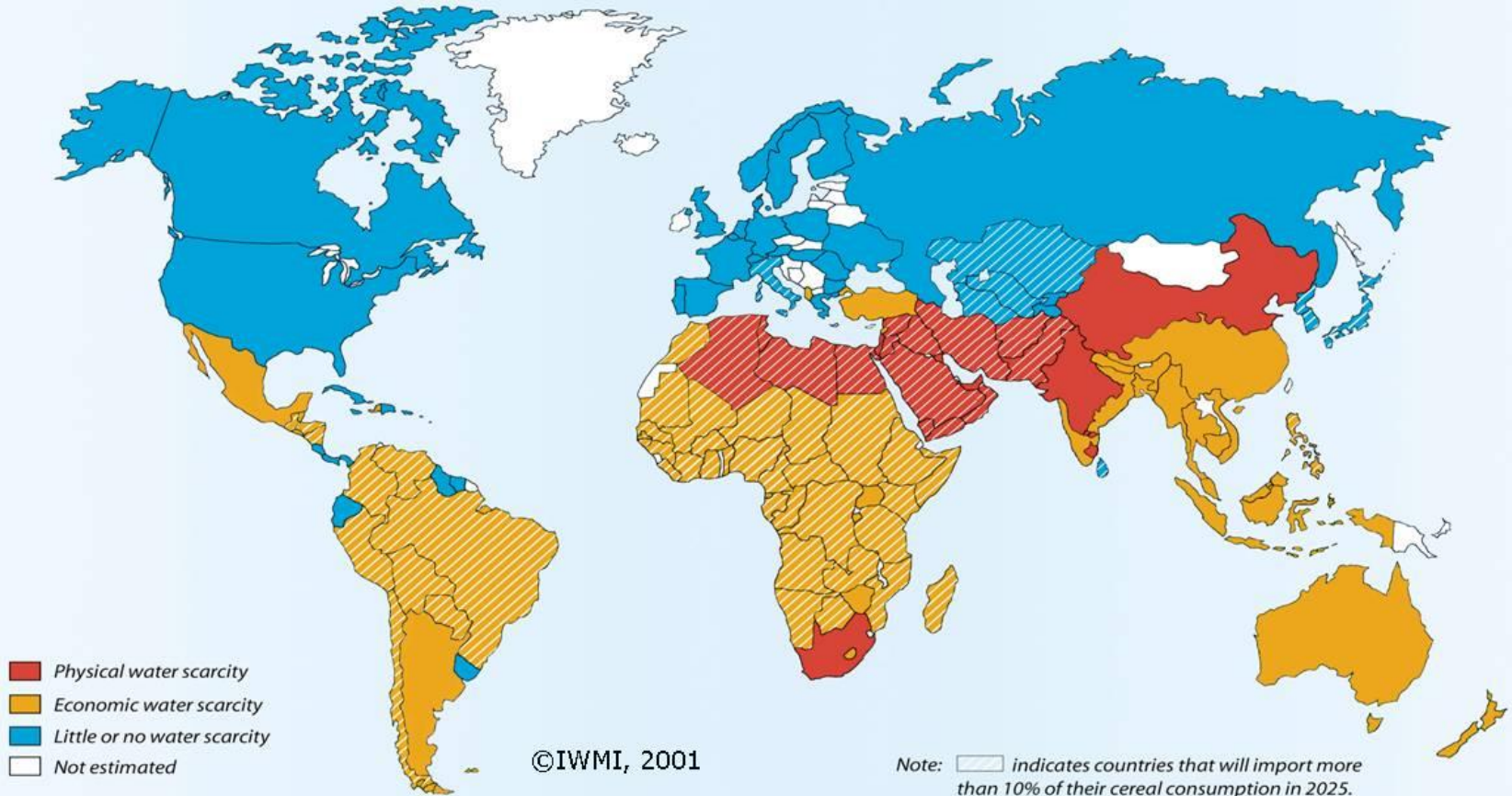


GDP per capita, PPP (current international \$), log scale source: Worldbank

# Income and child mortality



## Projected Water Scarcity in 2025

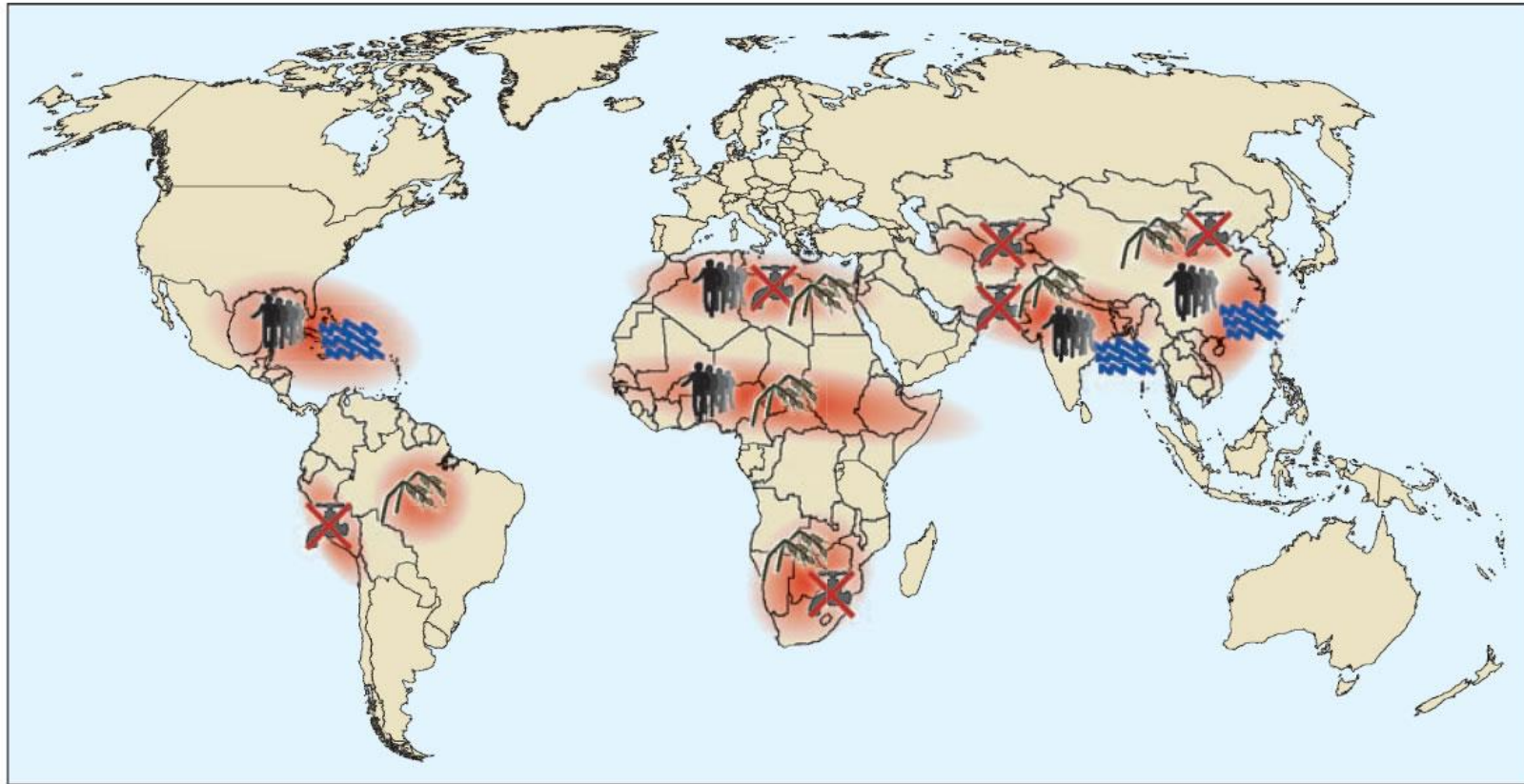


The threshold for 'water stress' is a per capita availability of  $1700\text{m}^3$  of water for annual consumption

For water scarcity the threshold is  $1000\text{m}^3$  of water for annual consumption



# Environment and Security



Konfliktus lehetőségek kiválasztott kritikus zónákban



Klimaváltozás előidézte ivóvíz erőforrásnövekedés



Klimaváltozás előidézte csökkenés az élelemtermelésben



Kritikus zóna



Klimaváltozás előidézte vihar és árvíz növekedés

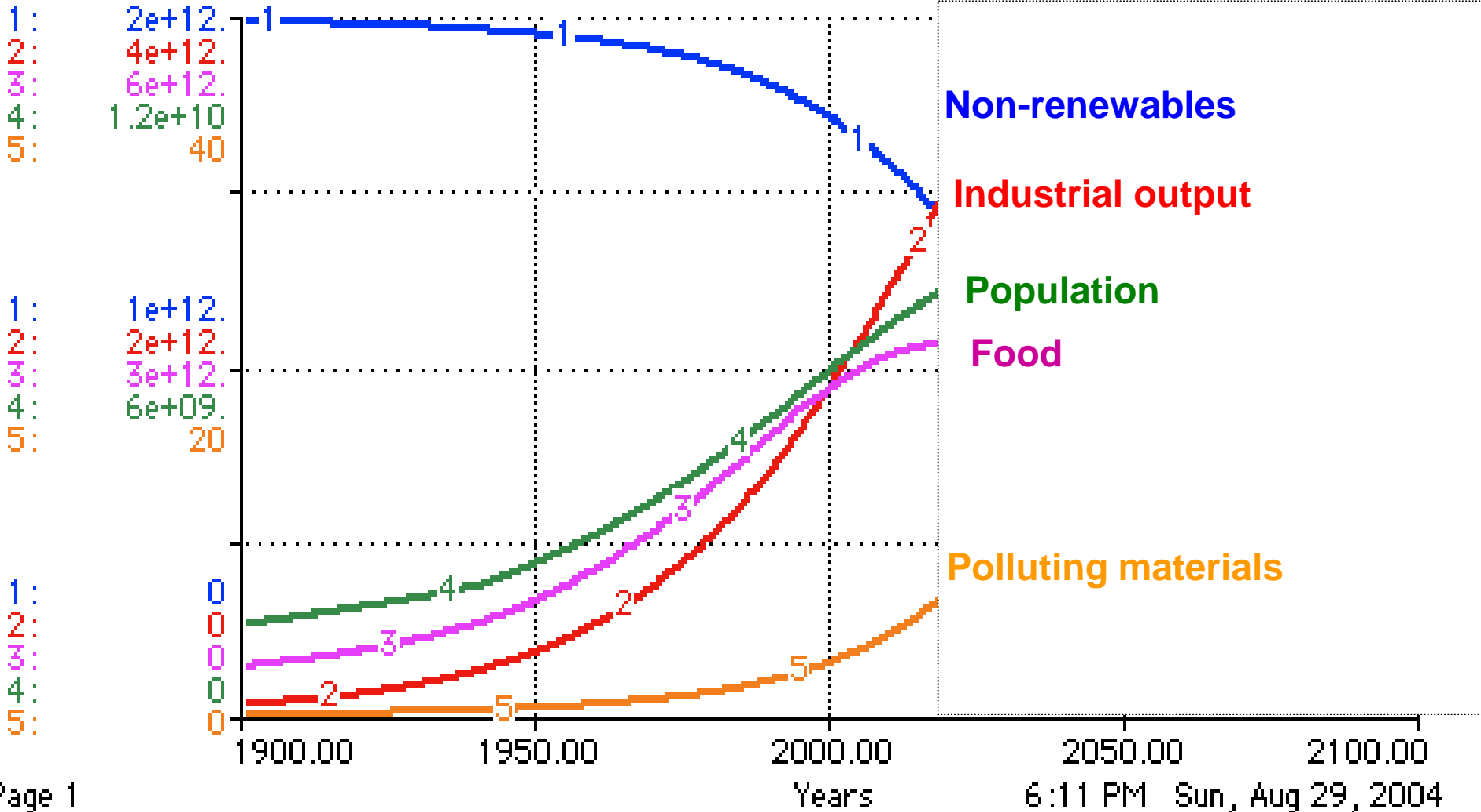


Környezetileg előidézett migráció

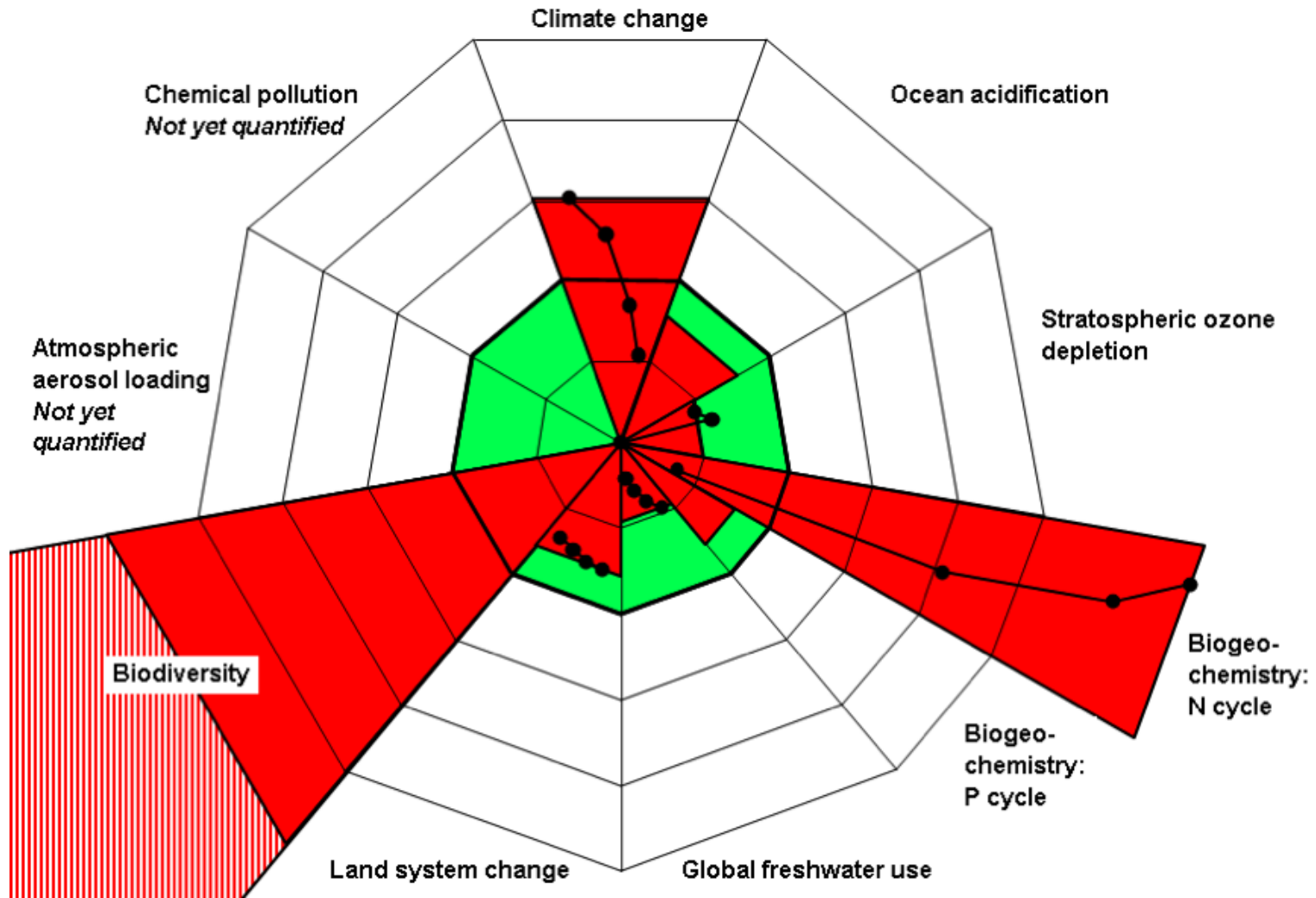
# Global stocks and flows till appr. 2010



1: nr resources ... 2: industrial out... 3: food 87      4: population 1      5: ppoll index 143

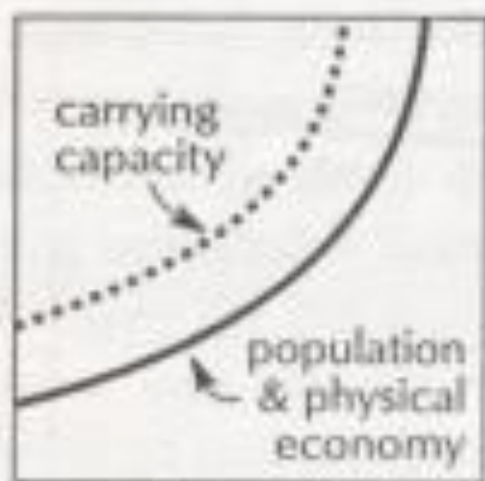


# Support systems destabilized!!!

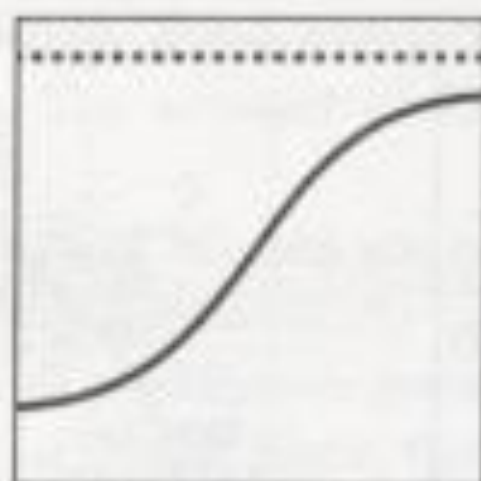


(Rockström, J. et al., 2009. Nature)

*Stable*

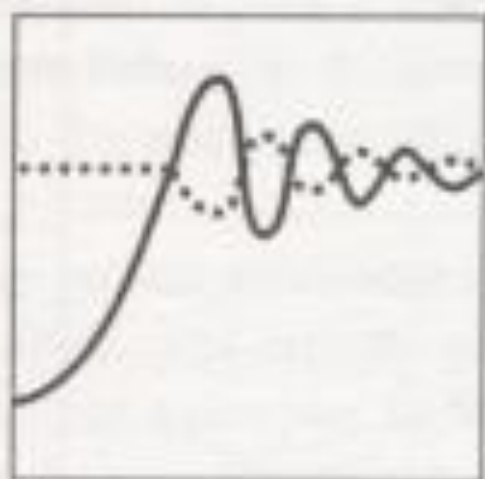


time →  
Continuous growth

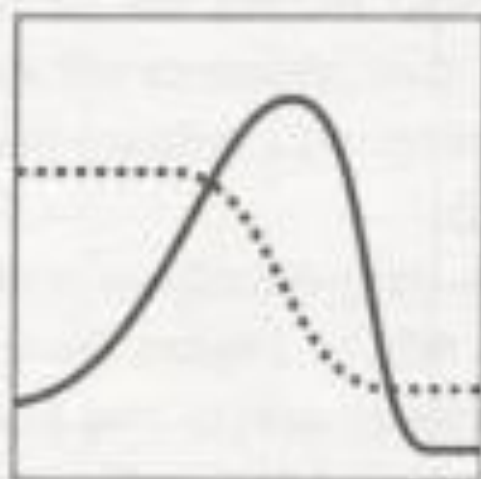


Sigmoid approach to equilibrium

*Unstable*



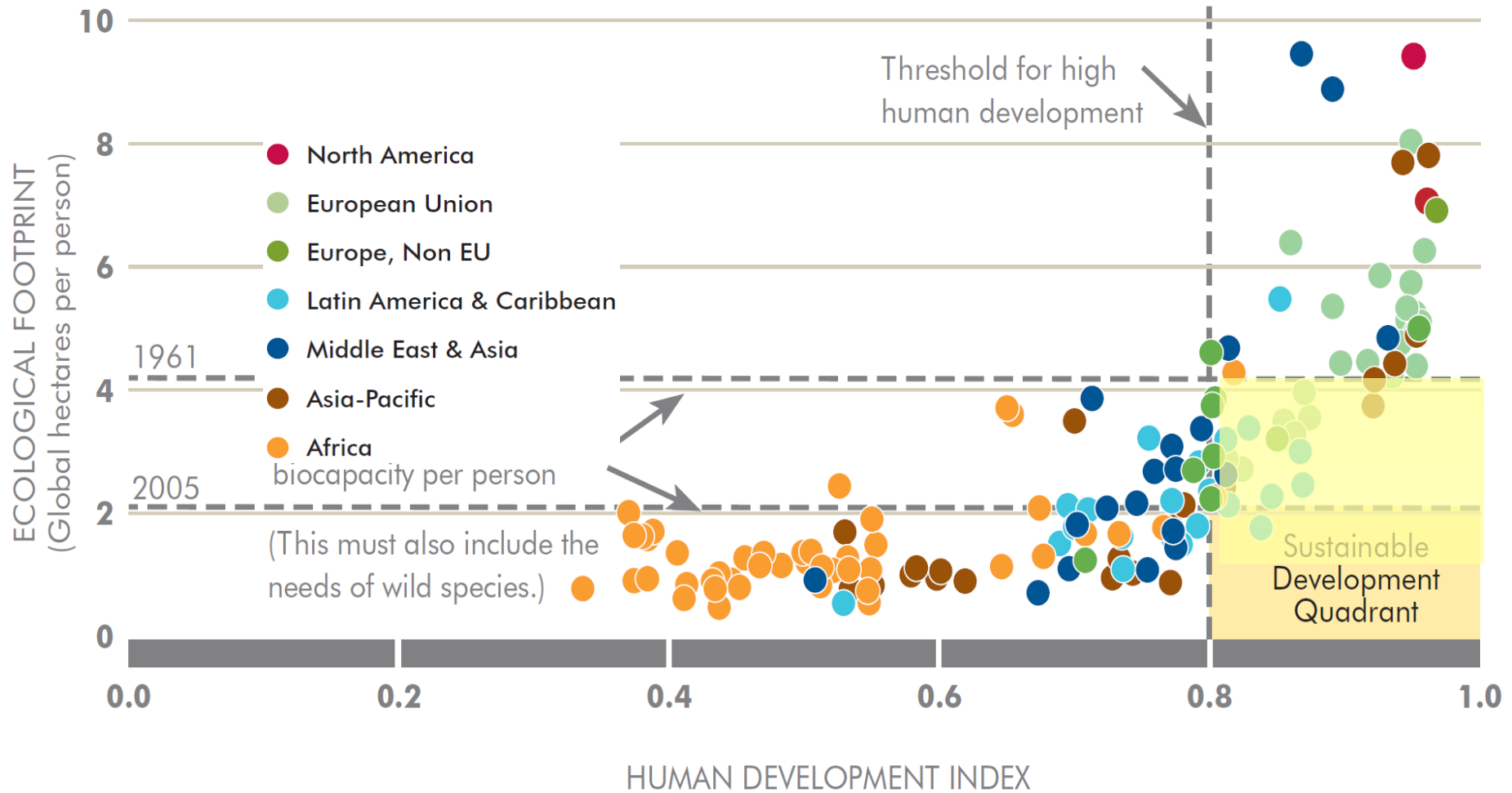
Overshoot and oscillation



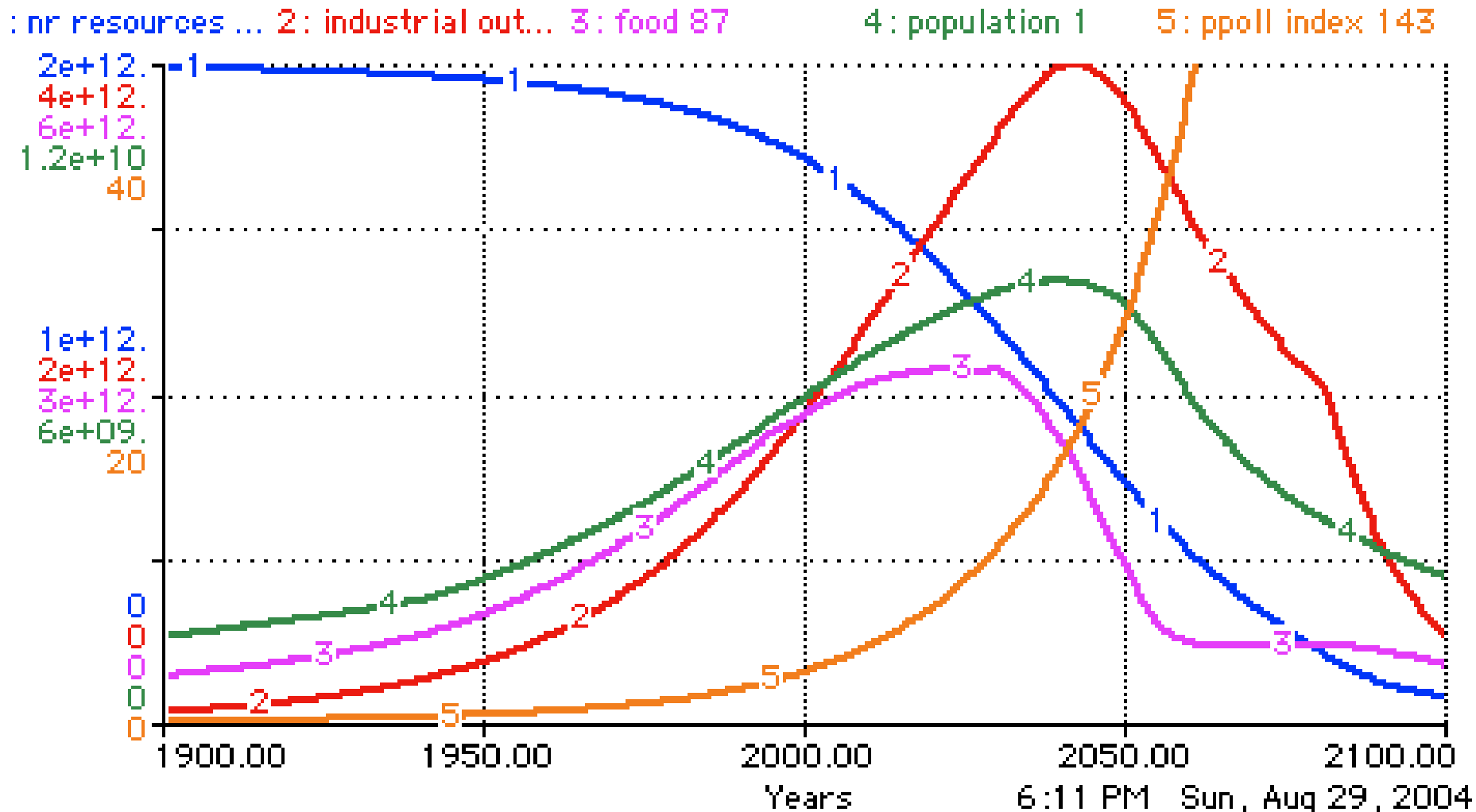
Overshoot and collapse

???

# Where is sustainability?



# Outlook for the present policies



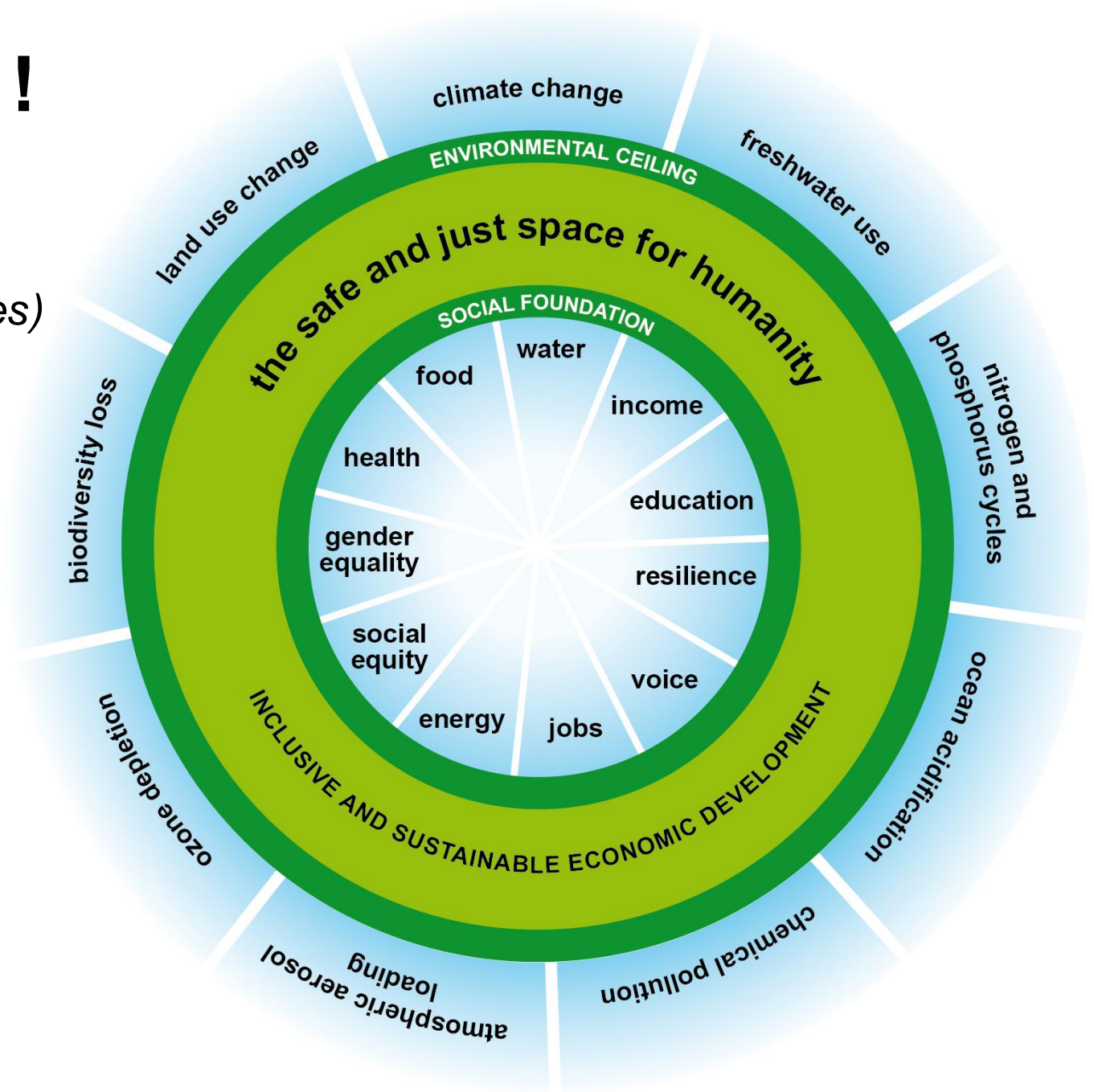
?

...looks like a  
shipwreck...



# Throw a „life-belt” !

*(the doughnut of Social and Planetary Boundaries)*



**„The first task is to put the economy at the service of peoples.**

Human beings and nature must not be at the service of money. Let us say NO to an economy of exclusion and inequality, where money rules, rather than service. That economy kills. That economy excludes. That economy destroys Mother Earth.”

**„The second task is to unite our peoples on the path of peace and justice.**

The world's peoples want to be artisans of their own destiny. They want to advance peacefully towards justice. They do not want forms of tutelage or interference by which those with greater power subordinate those with less. They want their culture, their language, their social processes and their religious traditions to be respected.

(...)... the monopolizing of the communications media, which would impose alienating examples of consumerism and a certain cultural uniformity, (...) is ideological colonialism. ”

**„The third task, perhaps the most important facing us today, is to defend Mother Earth.**

Our common home is being pillaged, laid waste and harmed with impunity. Cowardice in defending it is a grave sin. We see with growing disappointment how one international summit after another takes place without any significant result. There exists a clear, definite and pressing ethical imperative to implement what has not yet been done. (...).

People and their movements are called to cry out, to mobilize and to demand – peacefully, but firmly – that appropriate and urgently-needed measures be taken. I ask you, in the name of God, to defend Mother Earth!”

## „But what can I do?

What can be done by those students, those young people (...) who come (...) with their hearts full of hopes and dreams, but without any real solution for my problems?

A lot! They can do a lot.

... the future of humanity is in great measure in your own hands, through your ability to organize and carry out creative alternatives, through your daily efforts.

Don't lose heart!

You are sowers of change.”

Iustum,  
aequum,  
salutare...

(to be continued...)