



1.5°C FOR THE WG III

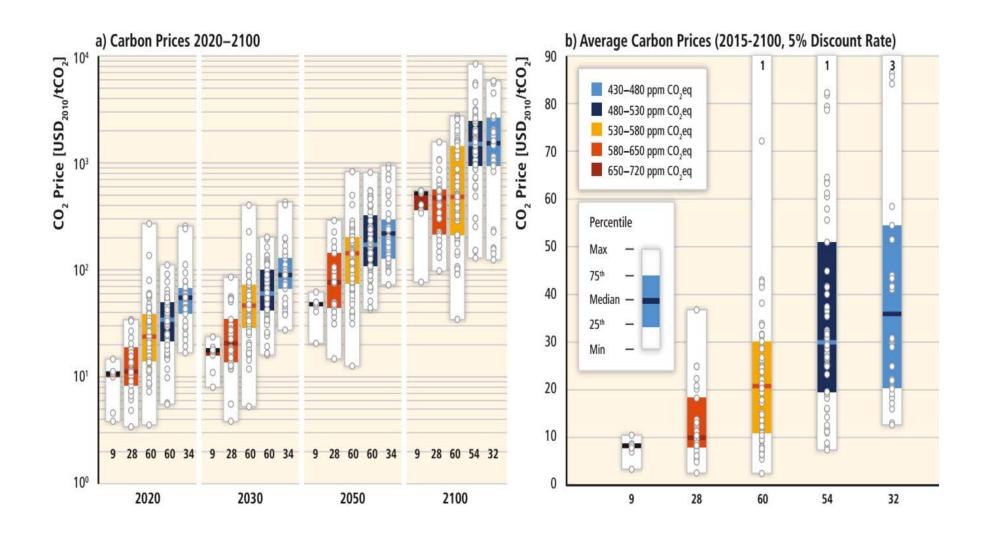
An opportunity to reframe the economics of mitigation?

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TURNING POINTS IN THE ECONOMICS OF MITIGATION

- 1992, Rio, UNFCCC Climate policies 'in the perspective of sustainable development'
- 1995, Berlin, COP1 shift towards a 'carbon budget approach'
- Where and when economic flexibility + fair burden sharing
- Gap between the content of WG III and the economic vulgate
- Unresolved disputes between BU and TD analysis
- Climate centrism: the forgotten climate development Gordian knot
- 2010, Cancun, COP 16 paradigm shift: seizing opportunities towards 'equitable access to low carbon development'
- 2015, Paris, COP 21 out of the TD burden sharing approach
 - Reaffirmation of the 2°C target
 - Exploration of the 1.5°C target

CARBON PRICE TRAJECTORIES



20 YEARS LATER: CHEAP 2K?

« The most ambitious pathways [350-450 ppm CO2] are possible » with a macroeconomic impact comprised between +0.5 and -3% of the GDP in 2030 with technologies currently known and a uniform carbon price between 5 and 80 \$/tCO2 in 2030

... a good news subject to a 'never read' caveat :

'Most models use a global **least cost approach** to mitigation portfolios and with universal emissions trading, assuming **transparent markets**, **no transaction cost**, and thus **perfect implementation** of mitigation measures throughout the 21st century.' (AR4 WGIII SPM Box 3) (200?°

... to which one should add

And widespread benevolence to compensate the loosers

QUESTIONS RAISED BY 1.5 C, FOR 2°C...AND 2.5°C

Almost not budget to be shared

 Structural changes needed and/or technological break throughs in negative emission techniques

No triggering of structural changes for climate only objectives

 A huge risk of 'increasing implementation gap' without deep institutional changes

AFTER COP21: MIND THE IMPLEMENTATION GAP

- A temptation to postpone climate action until after the end of the current economic doldrums and social alarms
- How to convince 'climate agnostic' policy-makers to go beyond symbolic announces
 - Aligning LCT with Sustainable Development Goals
 - LCT as a way of responding the alerts of prominent economists against the risks of 'secular stagnation'
 - Guarantee no immediate and future negative impact on unemployment and on public debt

THE 'FAULT LINES' OF THE WORLD ECONOMY

- Chronic excess of savings over (productive) investment
 - 'Propensity to save' > 'propensity to invest'
 - 'Weak intermediation between long term assets and short term cash balances,
- Type of globalisation:
 - 'overly export-led strategy in emerging economies (R. Rajan)
 - Dualistic development
 - Risks of « currency cold war »
- Cumulated wedge between potential growth and real growth, shortfall of infrastructure investments (World Bank, OECD)

THE COP21'S SURPRISE

- The article 2 of the Agreement: aligning financial flows along a new trajectory of global economic development
- The article 108 of the decision: "recognizes the social, economic, and environmental value of mitigation activities and their co-benefits to adaptation, health, and sustainable development" (SVMA)

KEY SCIENCE BASED INFORMATION WHY AND HOW TO COMBATE THE POSTPONMENT TEMPTATION

Detection of the 'bifurcation points' and their underlying drivers

Wave of innovation within and beyond the energy sector vs negative emissions

What long term implications of the Low Carbon Transition for:

- Sustainability of Development: urban dynamics, Rural drift, material metabolism, nature based options, infrastructures and poverty alleviation, energy security
- LT growth patterns: trade regimes, financial tensions, capital and labor flows

Emphasis on the 'trigger phase' of the low carbon transition

- Short term Economic costs and benefits of alternative policy packages
- Compensate/dismantle vested interests
- Integrating the (so far almost absent) financial dimension

Building a confidence Circle with 1,5°C as an aspirational goal:

- Dialogue between BU (national and sector based) information and TD analysis
- Involving new disciplines in the discussion from macro-finance to grassroots development analysis