



CEDEFOP

European Centre for the Development
of Vocational Training



The UN Decade of Education and Sustainable Development: the contribution of **greening** TVET

BIBB Global Partners Meeting
Leipzig 4 July 2013

Antonio Ranieri

Cedefop

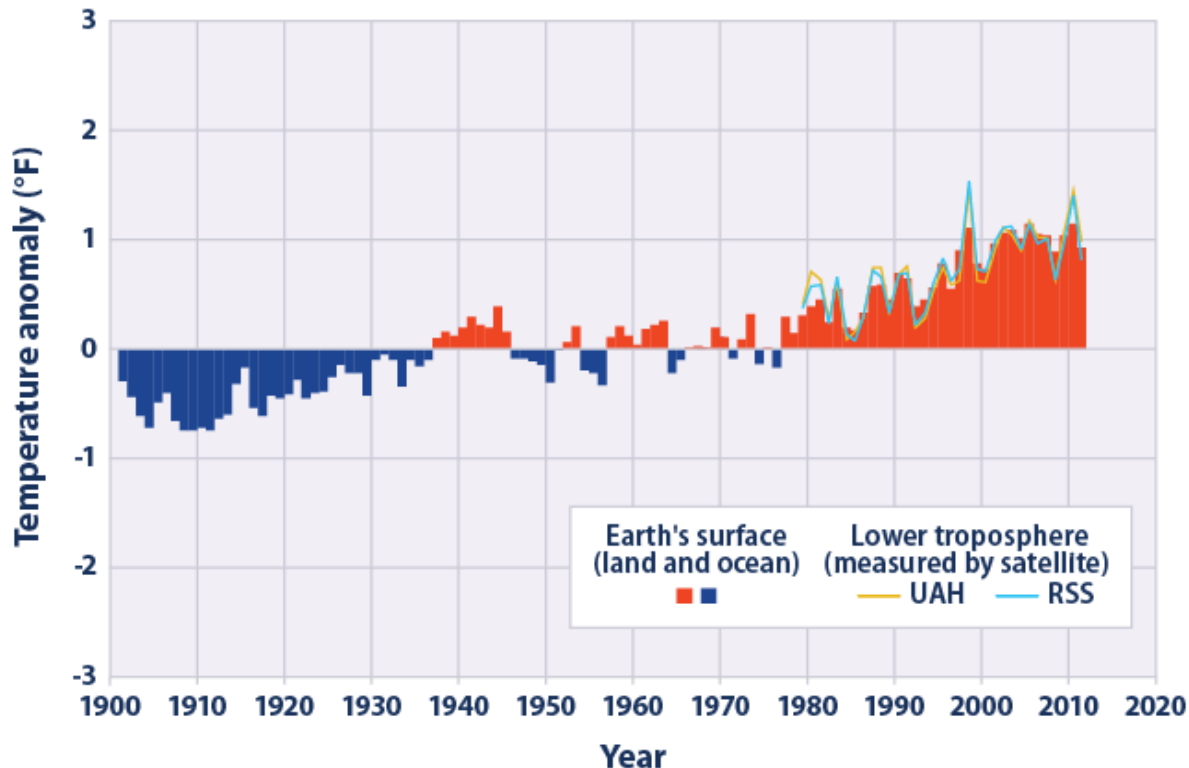
Antonio.Ranieri@cedefop.europa.eu





Is 'GREEN' necessary, feasible, attractive?

Temperatures Worldwide, 1901–2011



Data source: NOAA (National Oceanic and Atmospheric Administration). 2012. National Climatic Data Center. Accessed April 2012. www.ncdc.noaa.gov/oa/ncdc.html.

What we know:

Climate is warming

GHG emissions are increasing

Human activity is heavily influencing GHG growth

“Green” is a policy and a technical challenge

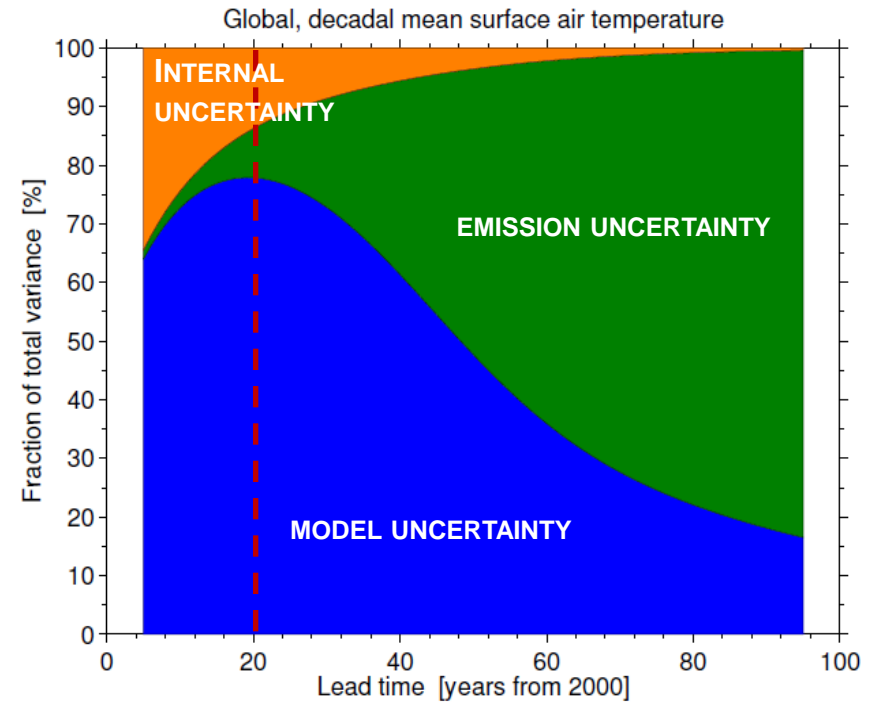
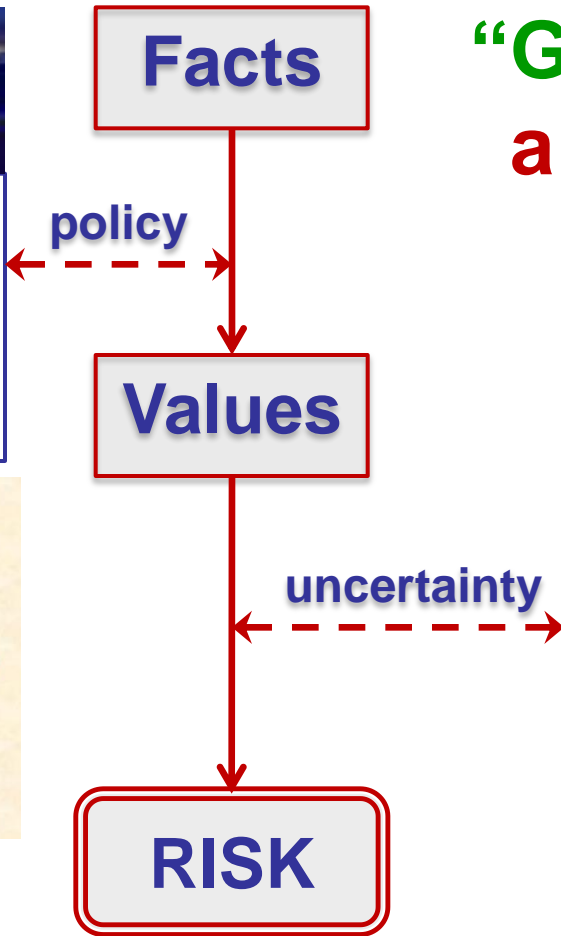
EUROPE 2020

GROWTH:

- ✓ Smart
- ✓ Inclusive
- ✓ Sustainable

Towards a Job-Rich Recovery

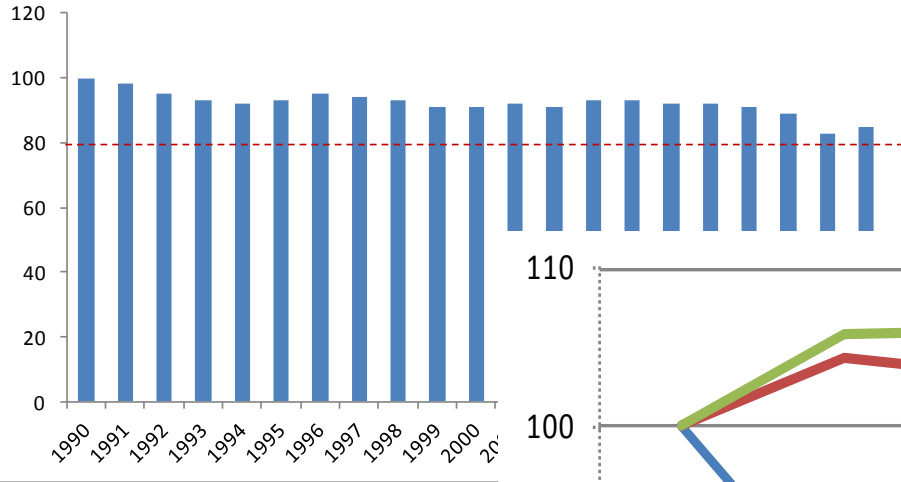
- Green sectors
- Personal and Household Services
- ICTs and digital economy



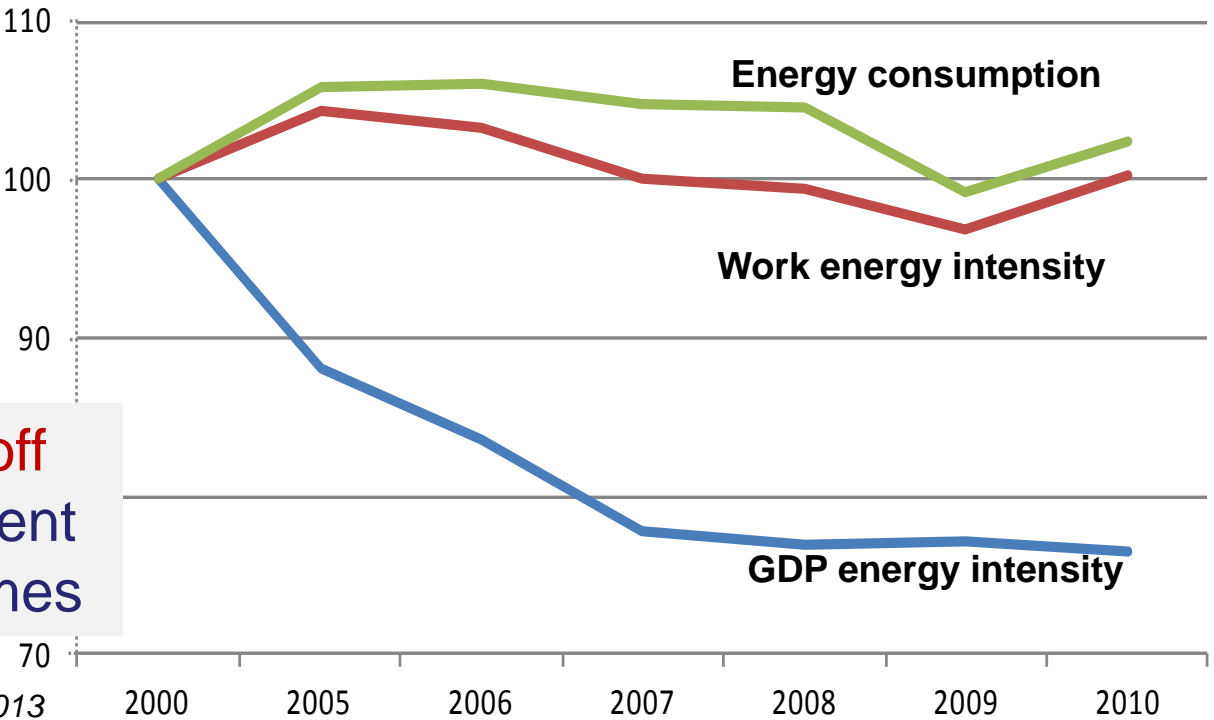
Hawkins & Sutton (2009)



Greenhouse gas emissions EU-27
(1990=100)



Reducing GHG
by 20% is
feasible, but...



goal conflicts?

...possible trade-off
between employment
and climate outcomes

Source: Eurostat 2013



RESEARCH PAPER

No 34

Skills for a low-carbon Europe

The role of VET in a sustainable energy scenario

Synthesis report



New Cedefop's study



Macroeconomic policy-driven sustainable scenarios

- Baseline (do nothing)
- Energy target
- Energy target empl-augmented
-
- Energy & Employment targets



Good practices of policies, measures or programmes

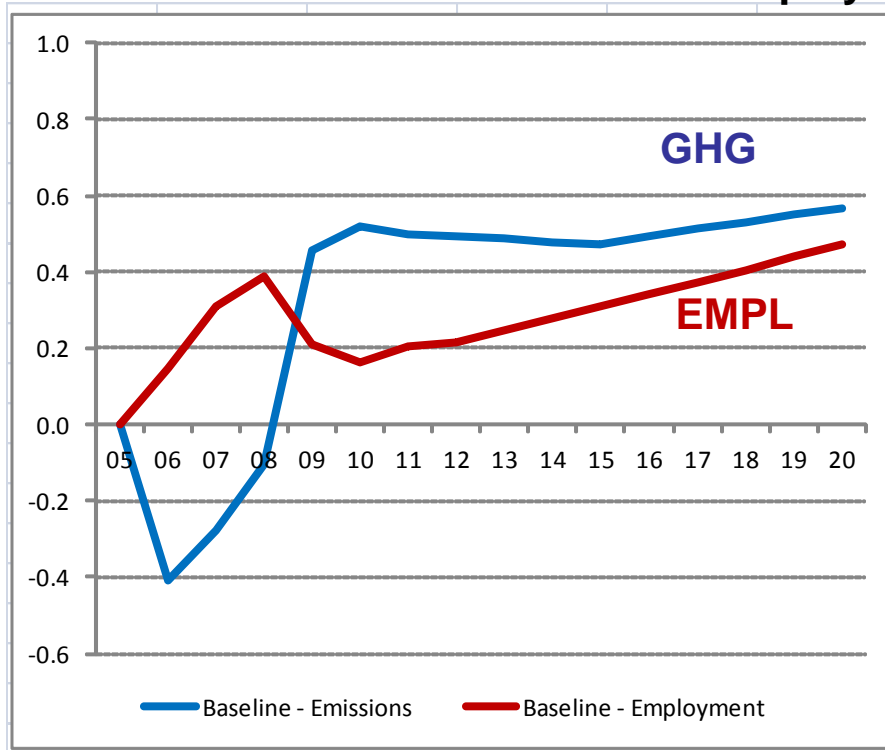
15 case studies across four strategic domains:

- wind power,
- solar thermal heating,
- public buildings
- road freight transport and logistics

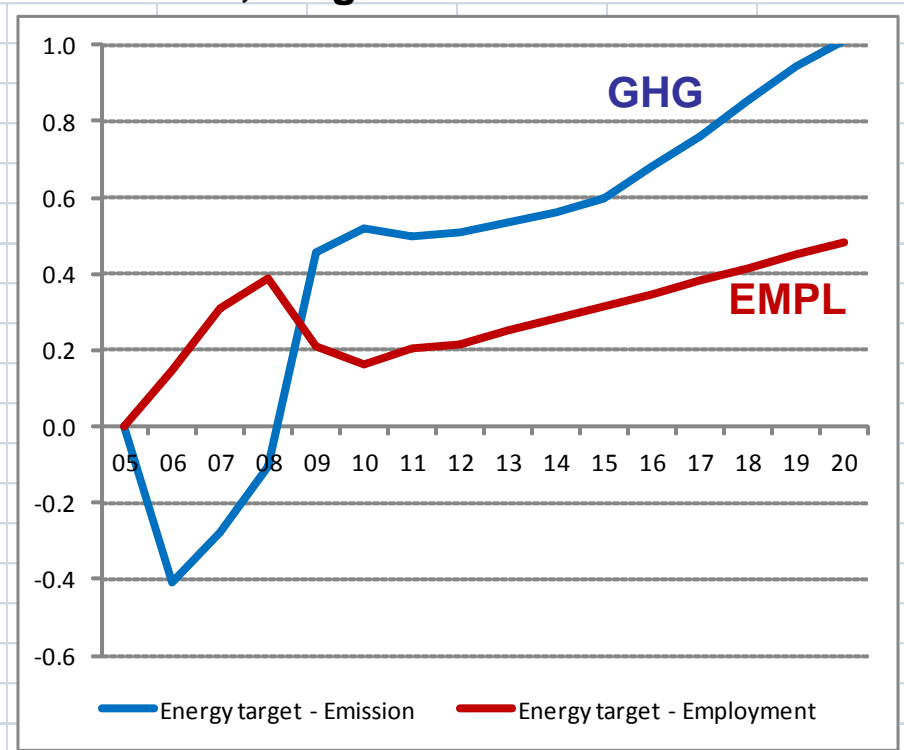


Greenhouse gas emissions and employment Selected policy scenarios up to 2020 EU-27

Emissions and employment: 2005=0; targets = 1



BASELINE SCENARIO

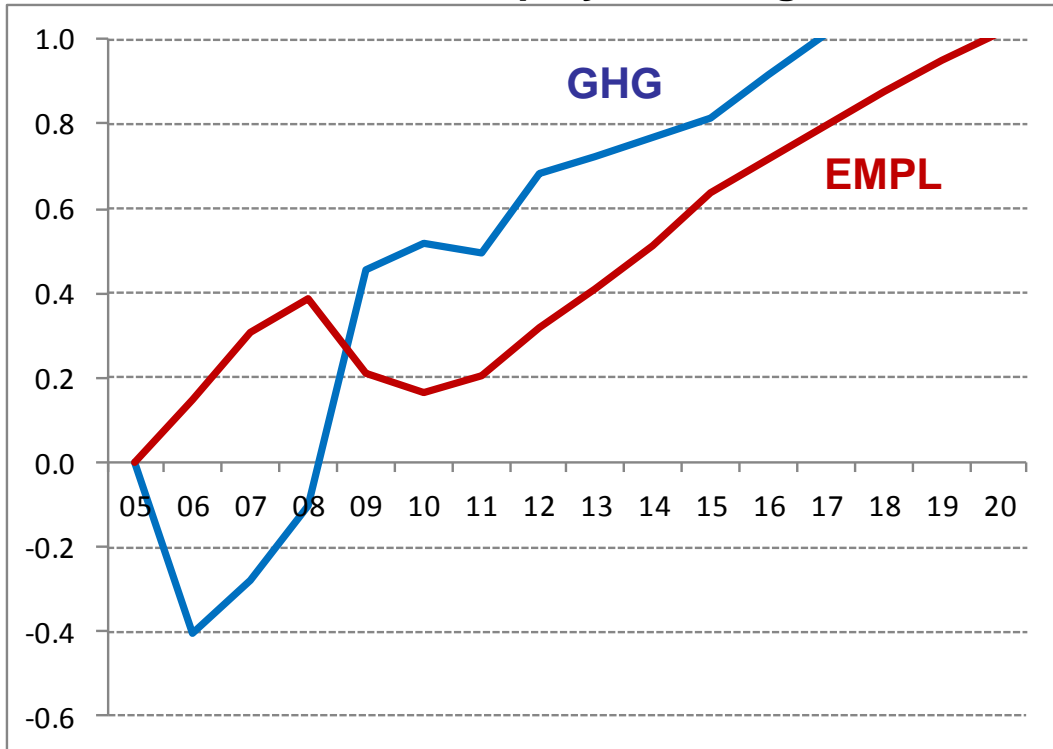


ENERGY TARGET SCENARIO



Selected policy scenarios up to 2020 EU-27

Emissions and employment targets = 1



Have your cake and eat it?

A sustainable and energy-efficient economy can be achieved at the same time as employment growth...

... but a greater integration of climate and energy policies is necessary with measures to support **employment, innovation** and innovative and responsive **vocational education and training**

ENERGY&EMPLOYMENT TARGETS SCENARIO



Thank you for your attention



<http://www.cedefop.europa.eu/EN/about-cedefop/projects/green-skills/green-skills.aspx>