

Green Growth – the OECD strategy

Stati Generali della Green Economy, Rimini, November 2012

Tomasz Koźluk Senior Economist, Green Growth,

Contents



- I. OECD's Green Growth Strategy universal principles
 - What is Green Growth?
 - How to get Green Growth?
- II. Green growth in Italy
 - (Eco)innovation,
 - Green Taxation,
 - Green Jobs



I. Green Growth Strategy

What is Green Growth?



- Green growth means fostering economic growth and development while ensuring that natural assets continue to provide the resources and environmental services on which our well-being relies.
- Operational building block of Sustainable Development
- No one-size-fits-all good framework policy principles!
- Innovation, investment and competition -> meeting challenges and taking advantage of opportunities
- Premise: no necessary conflict between pursuing economic growth and doing so in a green way - we need growth and it better be green!

Diagnosis: why is GG not materialising on its own?



Market and government failures & imperfections

- Negative externalities (un-priced undermine competitiveness),
 subsidies to 'dirty' activity (eg fossil fuels),
- price- signals don't work
 - imperfect markets, particularly in network sectors
 - Information failures/asymmetries,
 - measurement and monitoring issues
- Inadequate framework conditions for innovation, investment
- Lack of adequate infrastructure
- learning-by-doing, market size effects
- Path-dependency, behavioral biases

Diagnosis: why is GG not materialising on its own?



- **Timing** often clearly visible short-term costs vs. long-term gains (can be very long term and less direct)
- Trade-offs, winners vs. losers, political pressures etc.
- Uncertainty and knowledge gaps links among growth, green and well-being; effects of policies, activity and environmental degradation
- Policy uncertainty/instability poor perceived commitment

Treatment: good framework policies



- Pricing of environmental externalities and natural resource use: incentives to reduce pollution by making it more costly => taxes and permits,
- Flexibility is key: making markets work, to increase the functioning of price signals competition policies, entry/exit, PRs, regulation of network sectors,
- •Regulating important complement: regulation where markets fail e.g. due to lack of or asymmetry of info, measurement costs e.g. using performance and technology standards,
- •Inducing behavioral changes, including information policies, labelling, nudging, default options

Treatment: good framework policies



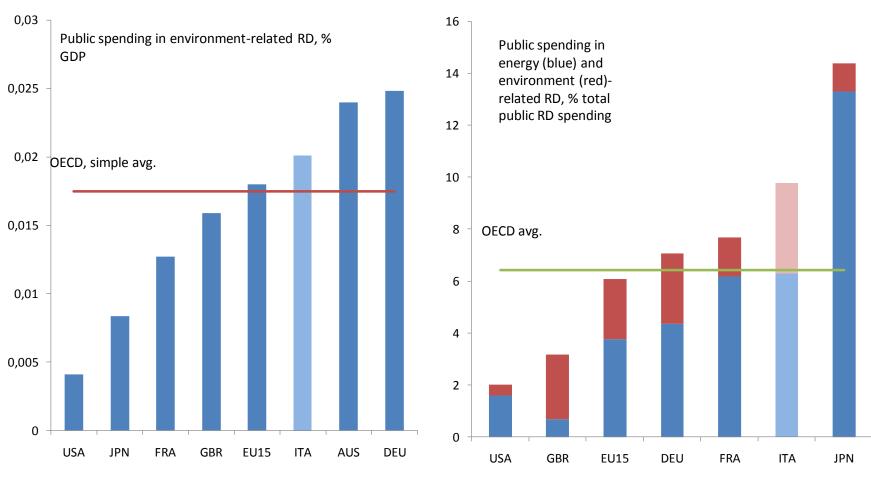
- •Incentives to create and deploy more productive technologies framework innovation policies IPR's, competition, trade openness, subsidies for basic/general R&D
- •Creating the **right climate for investment** framework policies, policy transparency, stability & commitment,
- Providing adequate infrastructure encouraging private investments and public investment where necessary, streamlining planning procedures, improved CBA,
- •Managing the transition & capturing arising opportunities flexibility (product, labour), education and training, and inclusiveness (consultation, compensation and safety nets)



II. Green growth in Italy: Eco-innovation, Green Taxation and Green Jobs

Eco-innovation public spending on "environmental R&D" is rather high

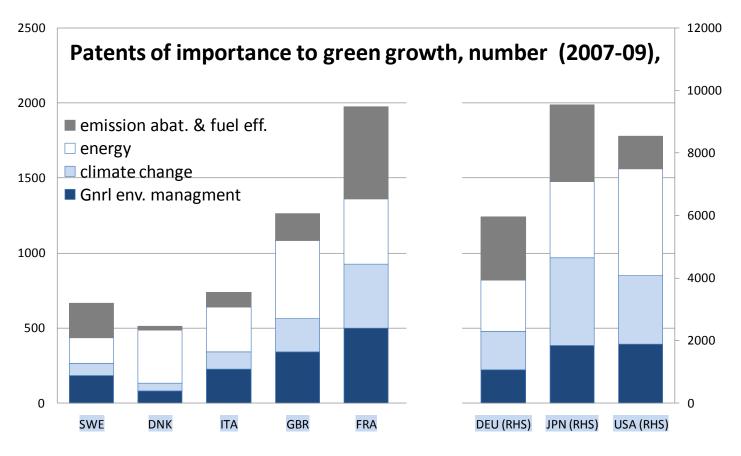




Source: OECD Green Growth Indicators Database

... but effects not that impressive





Source: OECD Green Growth Indicators Database

Eco-innovation



Innovation is not (just) about patents or R&D spending, but:

- Making things in a new, better, more efficient (& more environmentally friendly) way,
- Turning ideas into money,

Importantly:

- Policymakers know less about innovation than entrepreneurs,
- Attractive to spend on "innovation", but difficult to get your bang for the buck...

Primarily, focus on the right general conditions for innovation – unleashing the potential of the Italian entrepreneurs.

Eco-innovation - it must pay to innovate



"A rising tide lifts all boats":

general innovative capacity and market conditions are key.

The right framework – must be easy to make money from being innovative:

- Competition, entry/exit
- Property rights
- Policy commitment: stable (but flexible!) and transparent rules of the game
- public R&D support measures may also be important, as benefits can be hard to capture due to externalities (only when wellidentified needs)

It must pay to innovate in the green direction



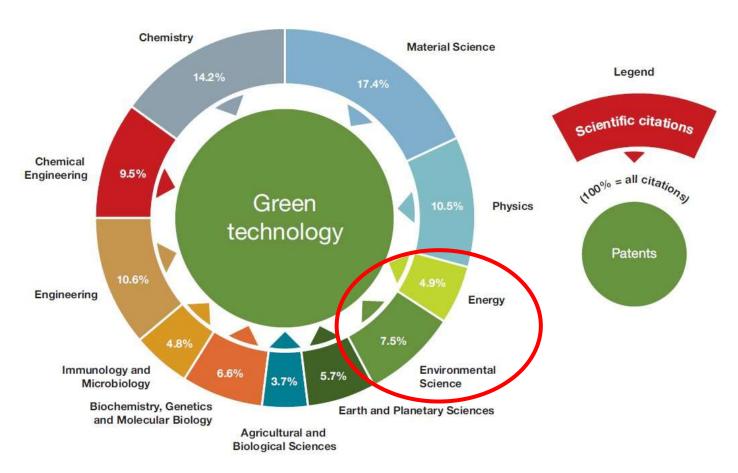
- Key: set the right policy signals:
 - Pricing policies (e.g. environmental taxation, tradable permits),
 - Regulatory measures (e.g. standards) can work in similar ways as pricing signals, particularly in imperfect markets,
 - Enforcement
 - Perceived commitment to green policies
- More direct interventions may be justified, but...

Research is multi-disciplinary



The innovation-science link in selected green technologies

Patent-science link via citations, 2000-07



Source: OECD (2010), Measuring Innovation – A New Perspective, based on Scopus Custom Data, Elsevier, July 2009; OECD, Patent Database, January 2010; and EPO, Worldwide Patent Statistical Database, September 2009.

Needs a multi-disciplinary response



Its not easy!

- Broader approach not just energy and environmental R&D
- Increasingly multi- and interdisciplinary competition & cooperation.
- Strong and effective interactions between science and industry.
 Commercial application is key.
- Support basic research here the private funding gap is likely largest, due to distance from commercialisation and associated risks
- Competition among technologies!
- Minimising risk of costly lock-in & support dependancy

Still, may be room for more targeted policies

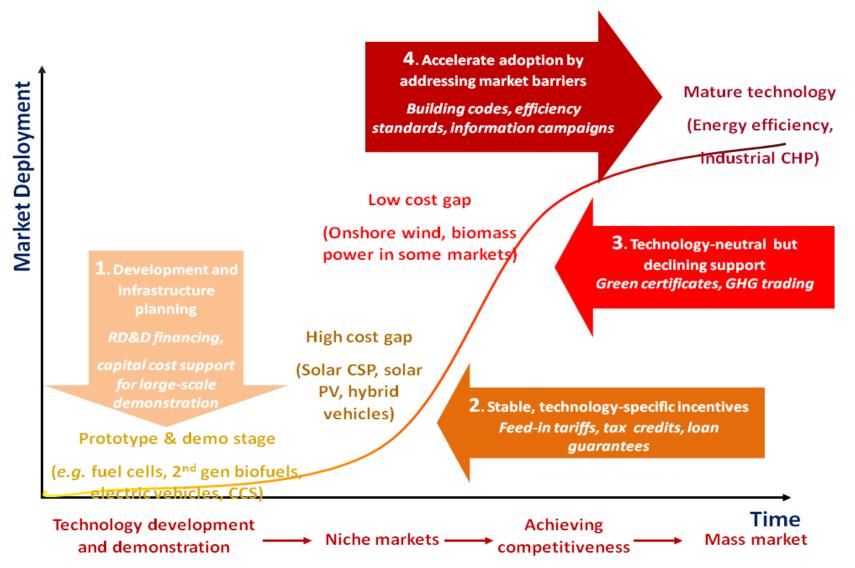


Combination of market imperfections re. innovation and environment ("twin peaks"), may justify more direct interventions, but:

- wide portfolio of technologies lower risk of "getting it wrong"
- "general purpose technologies" can foster development of other technologies and applications, e.g. electricity storage, ICT (not straightforward!)
- monitoring and evaluation of policies
- "Smart" regulation and performance standards closer to technological neutrality – lower chance of "wrong" choices, technology standards
- Strong emphasis on achieving commercial viability
- Well-designed public procurement requirements

Tailoring policy to technology maturity





Green taxation

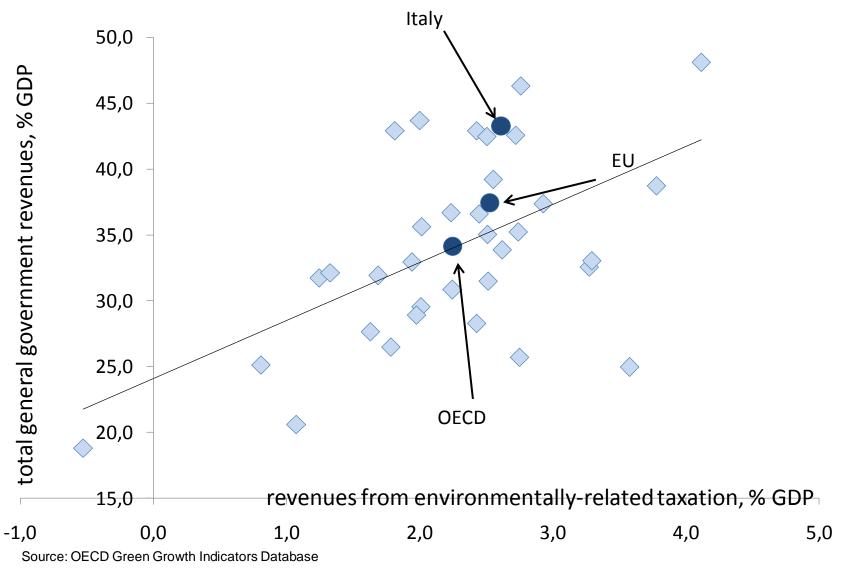


Potential:

- Improving market signals (for greener production, consumption, innovation, investment),
- Some tend to be less burdensome (for firms, for SME's, for entry) than regulation,
- Collecting revenues, potentially can be used to lower burden on income (e.g. labour) taxation,

Green taxation





Green tax reforms



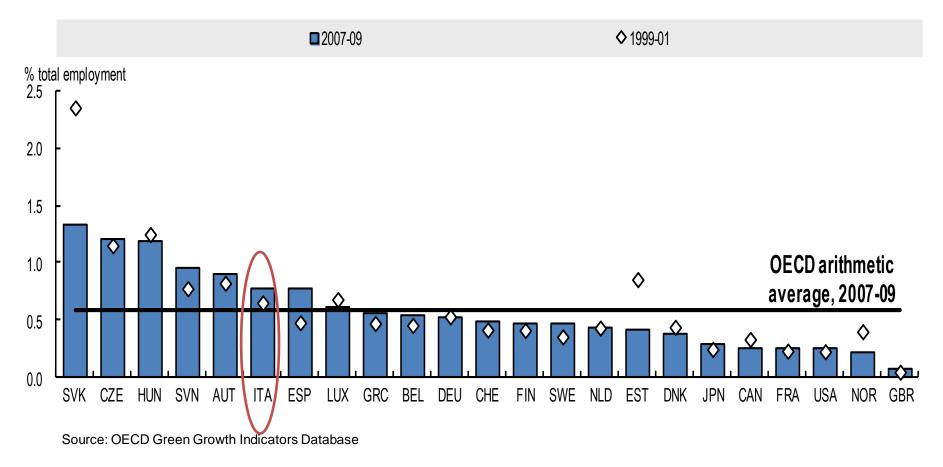
Some potential in increasing level, but strong need to review structure:

- Far from uniform pricing of externalities (eg diesel vs petrol)
- Mixes and overlaps of instruments?
- More use of market based instruments where possible (pollution charges, water abstraction fees)
- Reviewing tax expenditures
 - Those harmful to the environment?
 - Those that support "green" but not "growth" e.g. are inefficient?
- Stable tax structures commitment for many years, anchor expectations,
- Enforcement!

Key: market instruments work well when markets work well...

Green Jobs





• Employment in environmental goods and services sectors



Don't aim for "green jobs" (EGS) but go for green jobs - need jobs, and all jobs need to be green(er):

- Framework conditions for job creation:
 - Focus on barriers to entrepreneurship administrative burdens, barriers to entry/exit, lack of competition, informal barriers between regions/provinces, unification of procedures (eg among regions), streamlining (PMR, WB Doing Business still ranking poorly, e.g. construction permits seem to take ages),
 - Labour market flexibility,
- Pricing and regulation of environmental externalities to make sure these jobs are green(er)

A green growth strategy for Italy



Not easy, but gives an opportunity to put the economy on a stable growth path, to get <u>eco-innovation</u> & <u>green jobs</u>:

- Provide incentives for the economy to grow and to green itself:
 - Focus on reducing barriers to entrepreneurship, competition, innovation and job creation (including in services!),
 - Providing and enforcing the right "green" signals (taxes and regulation),
 - Assuring stable longer term conditions for investment in green (technology, innovation, infrastructure) by a firm commitment to smart GG policies in the future,
 - Use of scarce public resources efficiently
 - Monitoring and assessing the effectiveness/efficiency of policies
 - Public acceptance

How to overcome the obstacles?

- Links to structural economic reform priorities.
- Stakeholder engagement
- Cost-benefit/cost-effectiveness analysis to select the right tools
- Regular review of policies and measurement of progress.
- Managing the transition.



Grazie mille!

http://www.oecd.org/greengrowth/