



Institute for European  
Environmental Policy

# Developing a roadmap for subsidy reform: Methodological steps and policy challenges

**Patrick ten Brink (IEEP)**

**Senior Fellow & Head of Brussels office**

**CAPACITY-BUILDING WORKSHOP FOR NORTH  
AFRICA AND THE MIDDLE EAST ON THE  
ECONOMICS OF ECOSYSTEMS AND  
BIODIVERSITY (TEEB)**

**Beirut, 21–23 February 2012**

# Presentation Structure



## 1. Developing the Road Map for EHS Reform

**Step-by-step guide**

## 2. The way forward

**Annex**

**OECD Tools**

**An application: Water pricing**

# We need an inventory and assessment of EHS to identify



## the “good”

still relevant, targeted, effective, positive impacts, few negative effects

## the “bad”

no longer relevant, waste of money, important negative effects

## the “ugly”

badly designed – eg inefficient, badly targeted, potential for negative effects

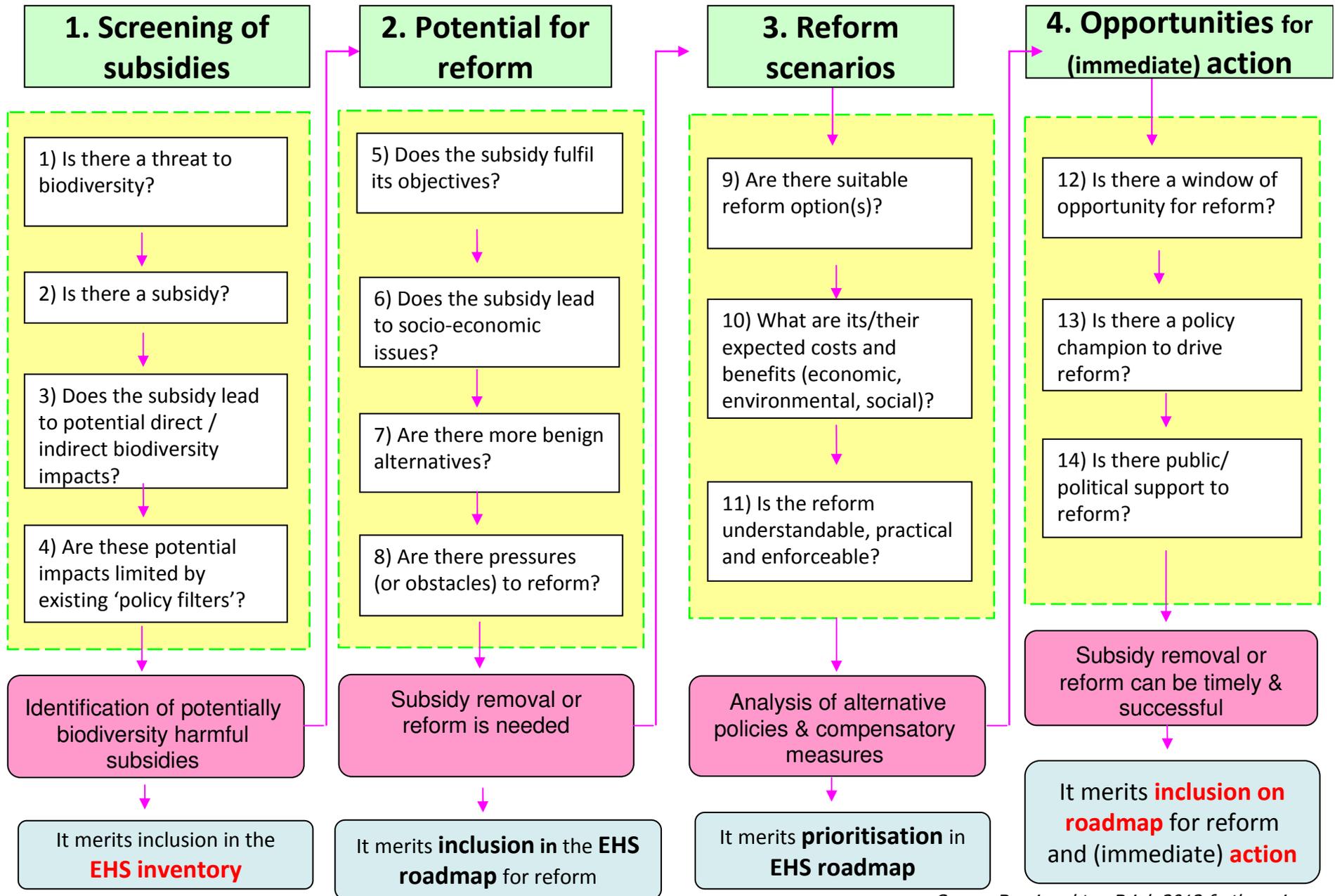


**Develop a road map for EHS Reform**

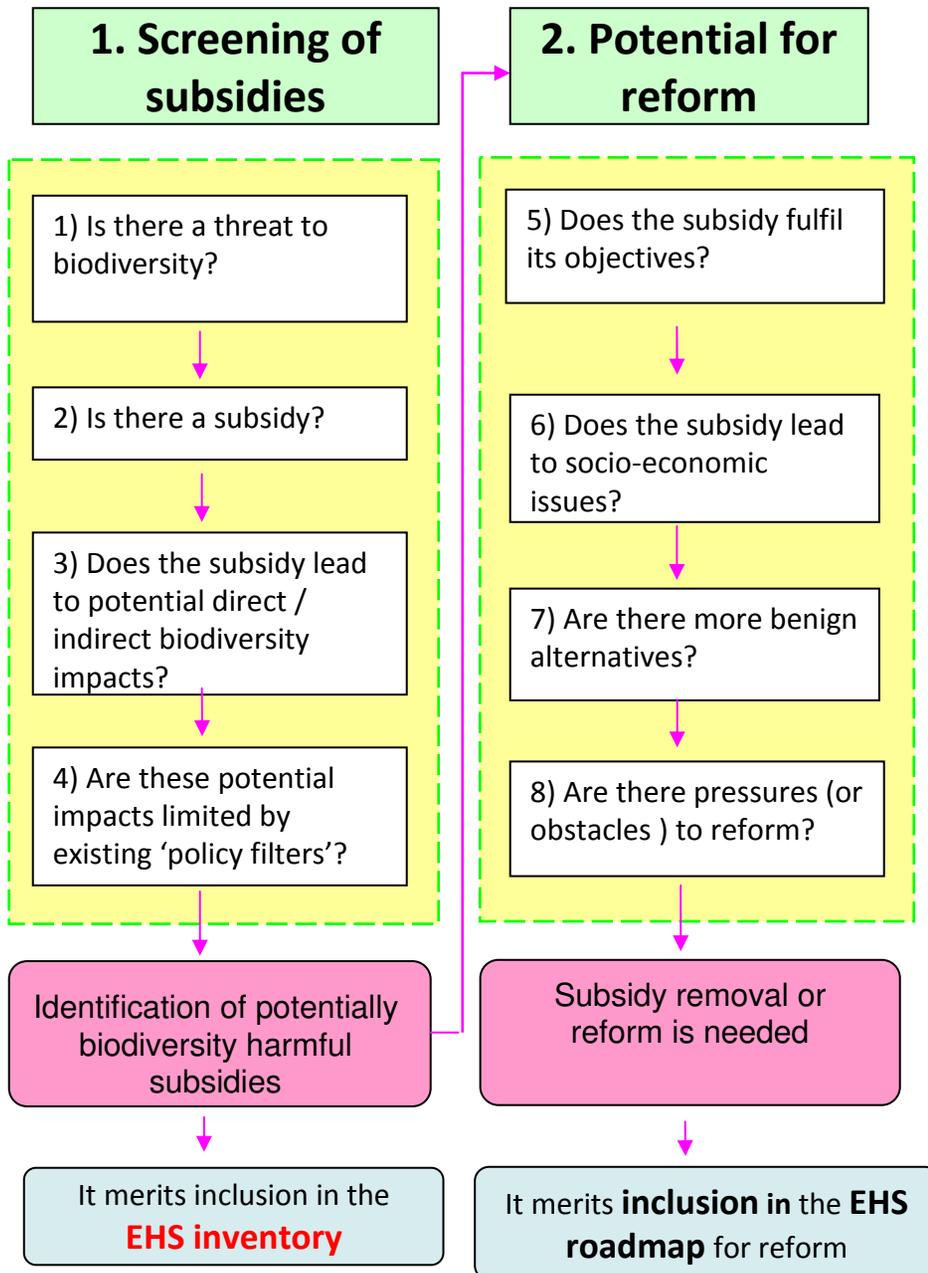
# Step by Step guide for developing a road map

(working tool, being finalised March 2012)

# Subsidy reform flowchart – integrates OECD tools



# Identifying EHSs to consider for the road map : use of “Traffic Lights”



## What the traffic lights communicate

**Where should we stop and think – whether the subsidy is an EHS and whether it potentially merits reform**



**Consider stopping and thinking – double check**



**Where are things fine; no need to stop to assess EHSs**



# Prioritising and Implementing the road map & Traffic lights



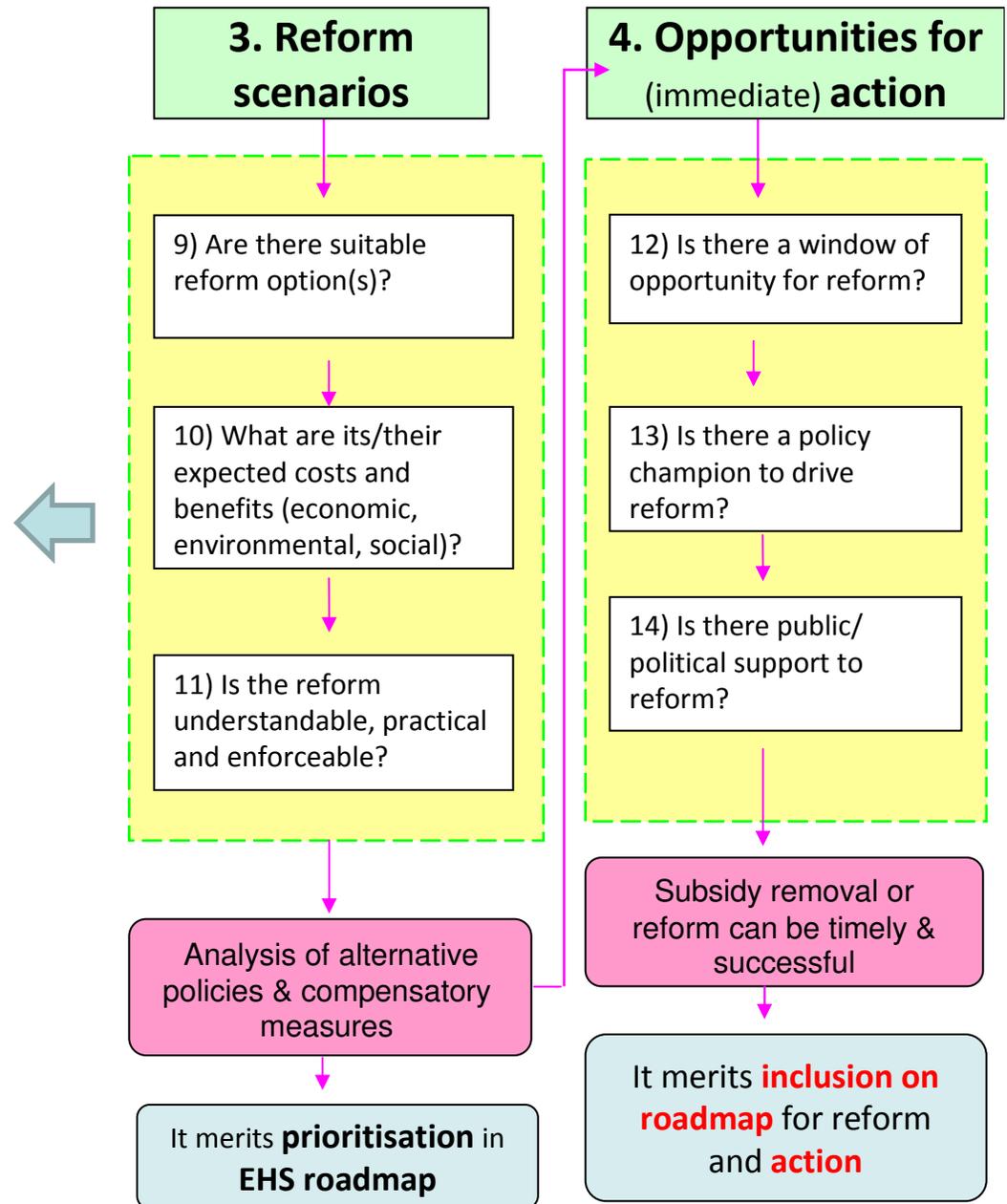
Real potential for action:  
**prioritise in road map  
and go ahead with  
reform initiative**



Check best options /  
merits / possibilities for  
reform; see if obstacles  
can be overcome



**'Wait'** – e.g. as obstacles too  
large for immediate action,  
support not big enough to  
overcome obstacles. **Actively  
plan / develop due  
opportunities for action**



Source Bassi and ten Brink 2012 forthcoming

# Subsidy reform: quick scan & traffic lights

## 1. Screening of subsidies

1) Is there a threat to biodiversity?

2) Is there a subsidy?

3) Does the subsidy lead to potential direct / indirect biodiversity impacts?

4) Are these potential impacts limited by existing 'policy filters'?

Identification of potentially biodiversity harmful subsidies

It merits inclusion in the **EHS inventory**

## Using marine seabed ecosystem damage

**An illustrative example** (our cases are not fully ready yet)



**Yes, significant threat: e.g. fisheries: bottom trawling**



**Yes, although relatively small** (*while in place*)  
(specify nature, scale/level of subsidy, conditionality et al)



**Significant potential impacts: destruction of rich, sensitive and slow recovery ecosystems**  
(specify what direct/indirect impacts are, scale etc)



**Some mitigation (technical, bans in some areas), but not sufficient to fully offset the subsidy impact(s)**



**Yes – important harm, subsidy contributes, policy filter does not address the problem**



**Yes – stop and include in EHS inventory, assess potential for reform.**

# Subsidy reform: quick scan & traffic lights (cont.)

## 2. Potential for reform

5) Does the subsidy fulfil its objectives?



**Fisheries subsidies for bottom trawling only partly address objectives of fisher viability & only in short term.  
Compromises objectives: medium & long term.  
Not an effective subsidy**

6) Does the subsidy lead to socio-economic issues?



**Yes, although relatively small**

Wins: short terms gains by subset of fishers

Losses: medium and long term livelihood risks to fishers + wider ESS

7) Are there more benign alternatives?



**Yes, changing fishing techniques and zoning**

8) Are there pressures (or obstacles) to reform?



**Yes, fishers objections and non-implementation**

Pressures for reform: can they be harnessed? Yes

Obstacles: Is this an absolute constraint? Can it be ignored, or can these be dealt with by due design/communication choices ?

**Subsidy removal or reform is needed**



**Yes – important harm, subsidy contributes, does not meet objectives effectively, there are alternatives, support and no overriding reasons to hold back.**

It merits **inclusion** in the **EHS roadmap** for reform



**Yes – stop and include in EHS inventory and Road Map**

# Subsidy reform: quick scan & traffic lights (cont.)

## Do suitable reform options exist suggesting that the EHS should be a priority in the road map?



**Yes, removal of subsidy - as there are alternatives that meet the objectives better, while being less harmful for biodiversity.** technological solutions + bans links for bottom trawling in bio-diverse areas



**Some economic losses for some fishers in short term, but gains in medium term & long term – for both catch, jobs, income, community viability, biodiversity. Transition costs.**



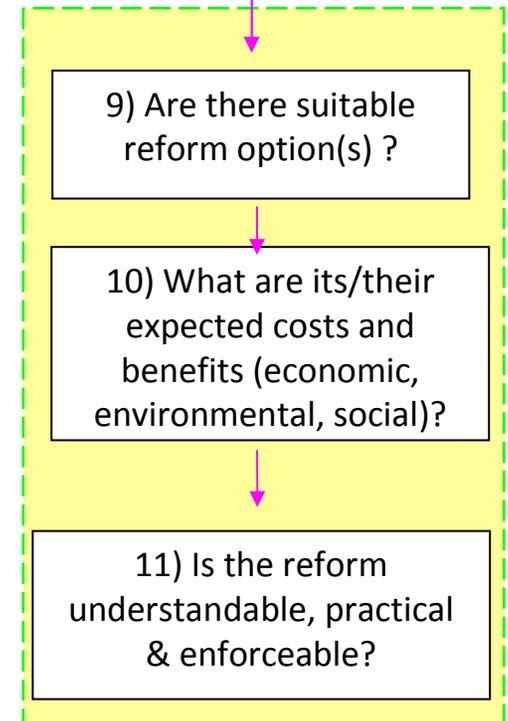
**Understandable (helped by presenting information on the loss), and practical. Some enforceability issues, though these can be addressed by due resourcing**



**Analysis show that reform options' benefits outweigh costs (mix of econ. social, env.) & understandable, practical, enforceable. EHS to be high priority for reform within roadmap. However, do link to transition management & communications as to reasons / benefits of the reform**



### 3. Reform scenarios



**Analysis of alternative policies & compensatory measures**

It merits **prioritisation** in **EHS roadmap**

# Subsidy reform: quick scan & traffic lights (cont.)

## Are there opportunities for Immediate Action?



Yes, subsidies review period is approaching (specify when this is) [*in some countries already a success*]



There is no obvious champion for reform (in country x).  
**To do:** seek out possible champion – individuals (e.g. Minister) or suitable committee (e.g. Select Committee) and seek resources, backing, facilitation. →



Yes, a lot of public information on damage to sea beds and loss of biodiversity in press; NGO activity strong. A range of parliamentarians are known to voice support (i.e. potential allies for reform)



Yes, have as an immediate priority for next budget paper; ensure, where relevant, transition management / support is clear to reduce risk and scale of criticism by interests. Ensure press release includes key to reasons/benefits of the reform and detailed report available.

### 4. Opportunities for (immediate) action

12) Is there a window of opportunity for reform?

13) Is there a policy champion to drive reform?

14) Is there public/political support to reform?

Subsidy removal or reform can be timely & successful

It merits **inclusion on roadmap** for reform and (immediate) **action**

# Recommendations and Way forward

# New Momentum for Reforms(?)



- **Global: 2010 commitment at CBD COP 10 Nagoya (NP)**
  - UNEP Green Economy Report. Expectations for Rio+20
  - Global economic crisis; resource limits; biodiversity/environmental concerns.
  
- **New commitments to subsidy reform (Pittsburgh – G20)**
  
- **Increasing call for subsidy reform in EU**
  - Renewed effort on promised EHS roadmap – eg within resource efficiency flagship initiative (inventory, 2012, plan 2013/4, reform: 2020); already systematic look at reform options within CP, CAP, CFP/EFF
  
- **National efforts** – FR, UK, B (FI) making use of tool to develop inventories and develop road maps
  - (Others? In your countries?)
  
- **Opportunities:** national debt cuts (eg Ireland, Portugal, others?)
  - Mechanism for (most cost-effective) climate mitigation
  - Mechanism for **resource efficiency & transition to green economy**

# Doing the assessment



**Can start looking either at environmental problems, or at subsidies**

**Can do a quick scan assessment to develop an inventory of EHS that could be contenders for being on the road map.**

- **Someone with fair knowledge of the subsidy/sector/environmental problem and/or with access to good data/reports can develop a first cut assessment - eg traffic light assessment in a period of days per subsidy**
- **This would be to create a first cut map, as an working tool**

**To move towards a formal roadmap would require careful quantitative and stakeholder analysis**

- **Of the current effects of the subsidy (economic, social, environmental)**
- **What the options for reform could usefully be (in light of potential effectiveness, practicability, enforceability, understandability), and**
- **What the likely benefits are. The latter is like doing an impact assessment, and in cases may use models (though models don't answer all questions).**

# Lessons & recommendations



In the short run, Countries should:

- For **key environmental challenges** identify **whether subsidies contribute to the problem**
- Establish **transparent** and **comprehensive subsidy inventories**,
- **Assess** their **effectiveness** against stated objectives, their **cost-efficiency**, and their **environmental impacts**

and, based on these assessments:

- **Create & seize windows of opportunity** (eg financial crisis, need to curb public spending)
- Develop **prioritized plans of action** for subsidy removal/reform for medium term (to 2014)
- **Design the reform process carefully:** clear targets, transparent costs and benefits, engagement with stakeholders, coordination among government bodies.
- Implement **transition management: stage the reform**, take into account “**affordability**”
- **Subsidy reform does not happen in isolation.** Make reform part of a broader package of instruments (EFR+), including policies to mitigate adverse impacts of subsidy removal.

**>> Make a good use of funds liberated!**



Institute for European  
Environmental Policy

**Thank you**

[ptenbrink@ieep.eu](mailto:ptenbrink@ieep.eu)

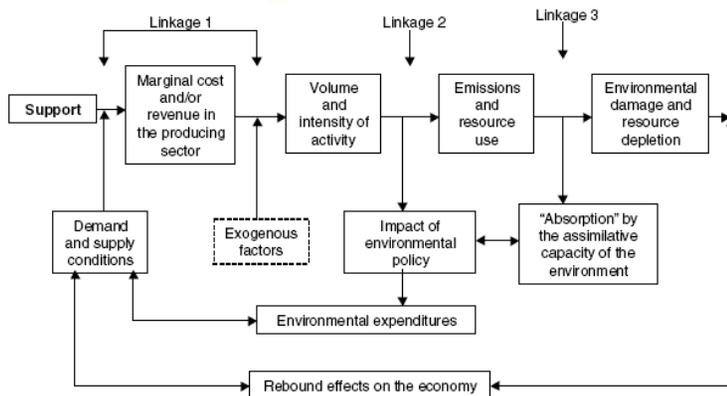
The **Institute for European Environmental Policy** is an independent institute with its own research programmes. The Institute also undertakes work for external clients and sponsors in a range of policy areas. <http://www.ieep.eu>.

Keep pace with environmental policy developments in Europe. The new award winning **Manual of European Environmental Policy** released: <http://www.europeanenvironmentalpolicy.eu/>

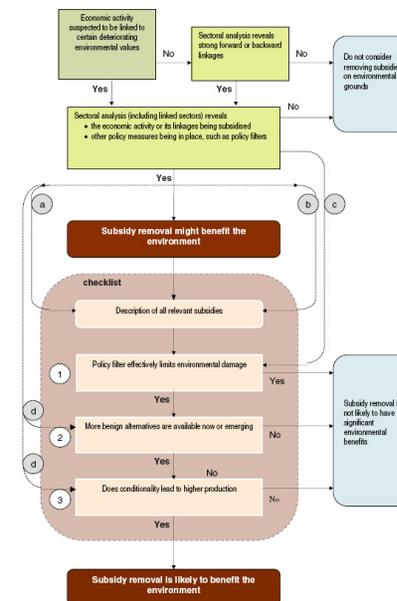
# Annex

## OECD Tools and an application

# Building on the OECD tools...



## 1. The 'quick scan' model (OECD, 1998)



## 2. The 'checklist' (Pieters, 2003)

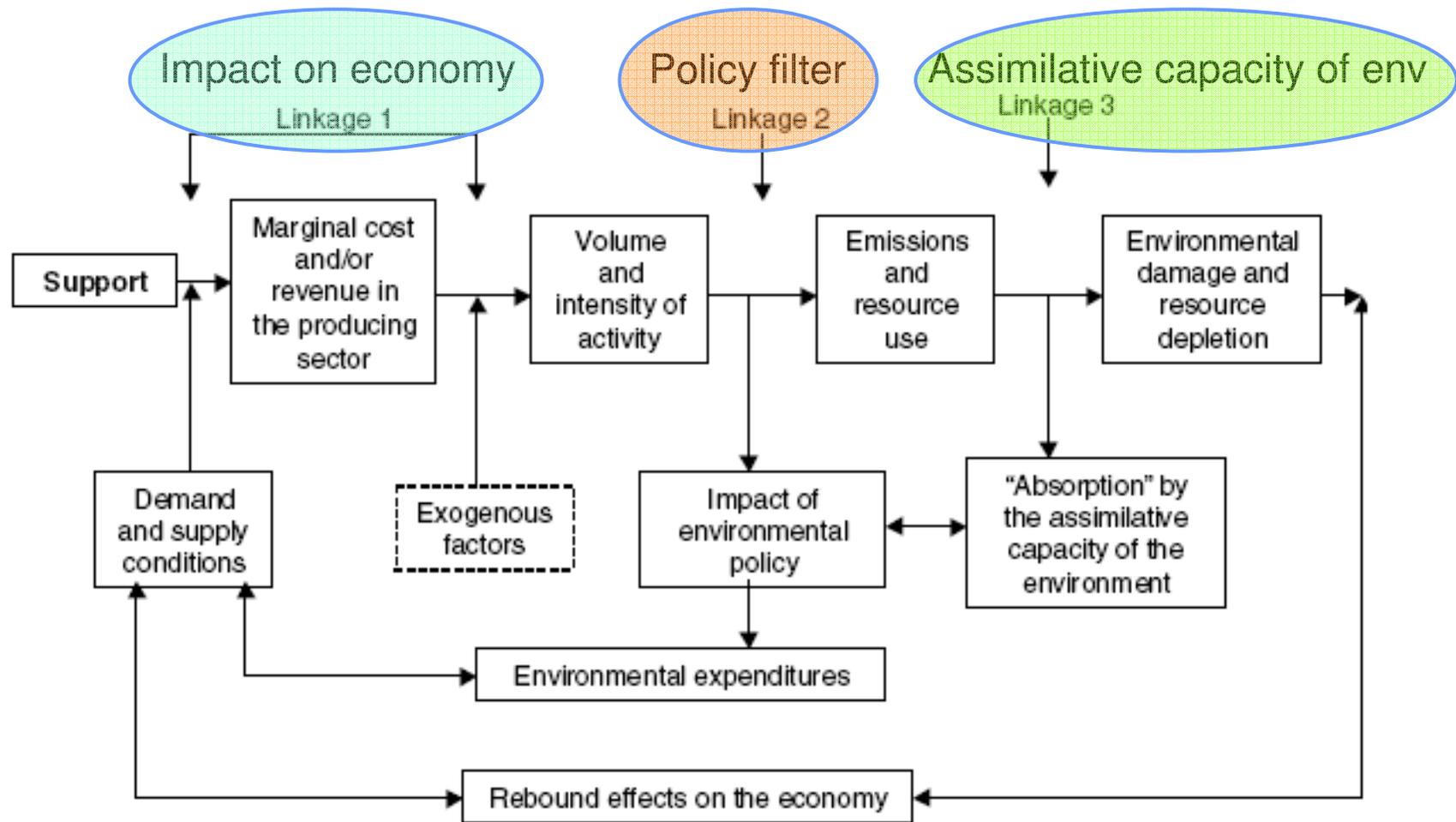
## 3. Integrated Assessment

1. Features Scan
2. Incidental Impacts
3. Long-Term Effectiveness
4. Policy Reform: impacts of various reform scenarios?

# 1. ...the Quick-scan



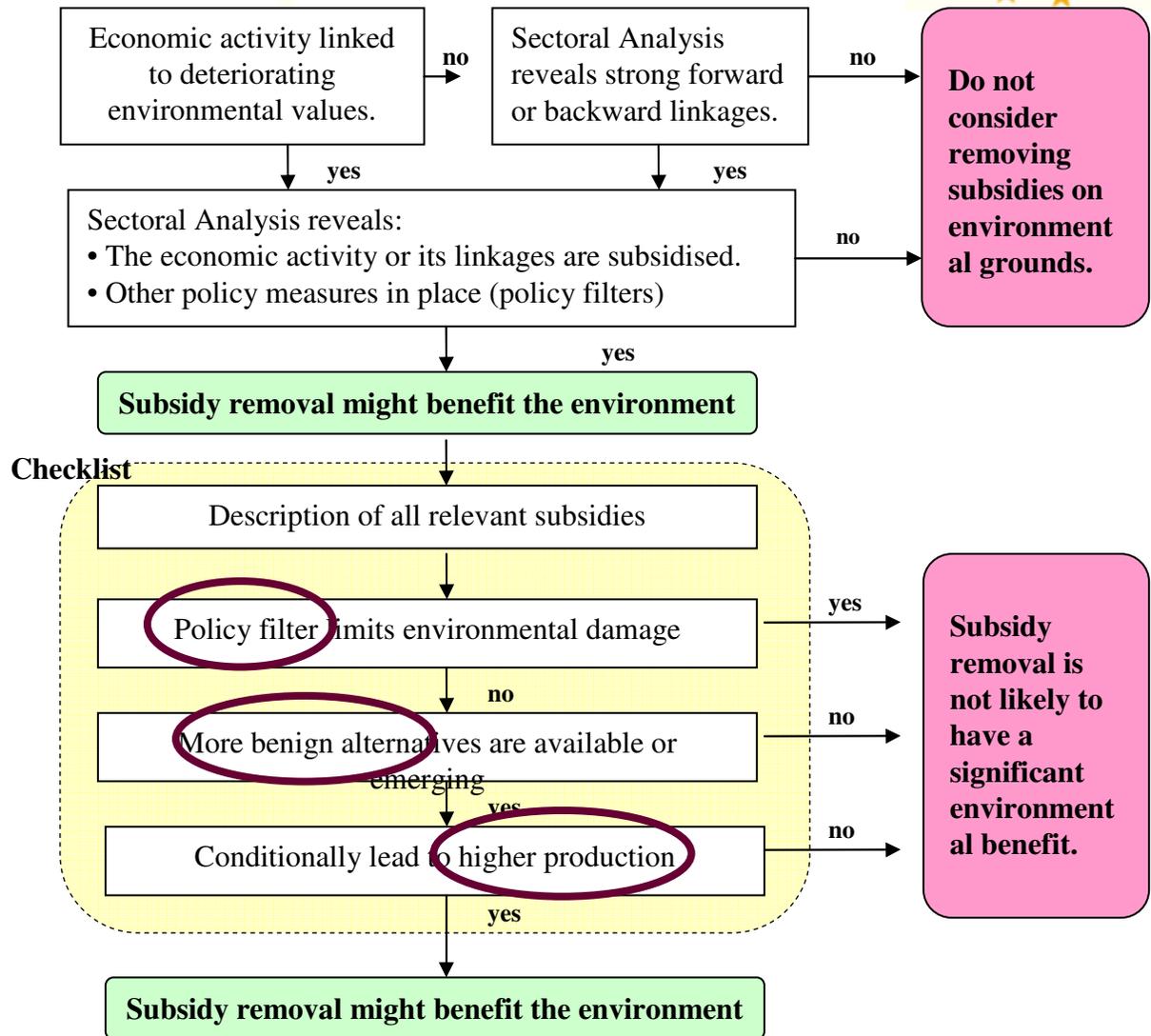
**“Is the support likely to have a negative impact on the environment?”**



# 2. ...the Checklist



**“Is the subsidy removal likely to have significant environmental benefits?”**



# 3. ...and the Integrated Assessment



**Analysis of the economic, social and environmental impacts of the subsidy**

**(incl. design and social impacts)**

## 1. Features Scan

- **Objectives** of the subsidy (economic/social/environmental)?
- **Effectiveness analysis:** Are objectives achieved?
- **Cost-effectiveness:** More cost-effective alternatives to meet objectives?

## 2. Incidental Impacts

## 3. Long-Term Effectiveness

- **Policy Reform:** impacts of various reform scenarios?

# Assessments – an example

From IEEP et al 2009

# e.g. Irrigation EHS in Spain



## ❖ What is the subsidy about?

- Low water prices for farmers in EU >> contributed to increased water use in agriculture in past 2 decades (EEA, 2009)
- In Spain - low irrigation water pricing in many areas: ie below full cost recovery, sometimes below financial costs
- Price often based on plot size (ha) rather than water volume (m<sup>3</sup>)

❖ **Type:** Off budget subsidy to input (water)

❖ **Conditionality:** water consumption for agriculture

❖ **Objective:** stimulate agriculture, support farmers income

❖ **Case study area:** Pisuerga Valley + some conclusions on whole of Spain

# Spain: Main findings of EHS report



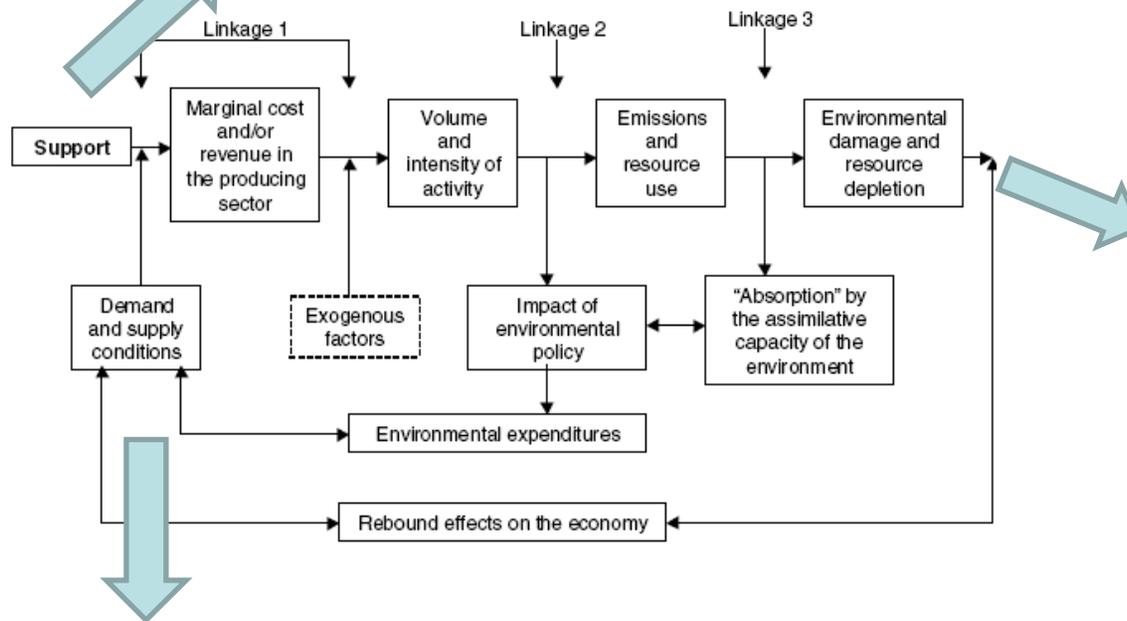
- ❖ **Water scarcity** a major issue in Spain (& in Med countries in general) – expected to worsen in the medium-long term
- ❖ **Infrastructures:** Irrigation techniques inefficient, old water infrastructures, substantial leakage and wastage
- ❖ **Sector:** Irrigation responsible for about 70-80% water use
- ❖ **Water pricing** : ~0.01€/m<sup>3</sup> Pisuerga Valley (2003), average ~0.05 €/m<sup>3</sup> Spain (2007)
- ❖ No link to consumption, low price >> **no incentive to use water efficiently** >> overuse of scarce resource

# ...example: Spanish water pricing



**Size:** *Pisuerga Valley*: between 2.1 and 3.5 M €/yr.

Spain ~ 165 M€/yr



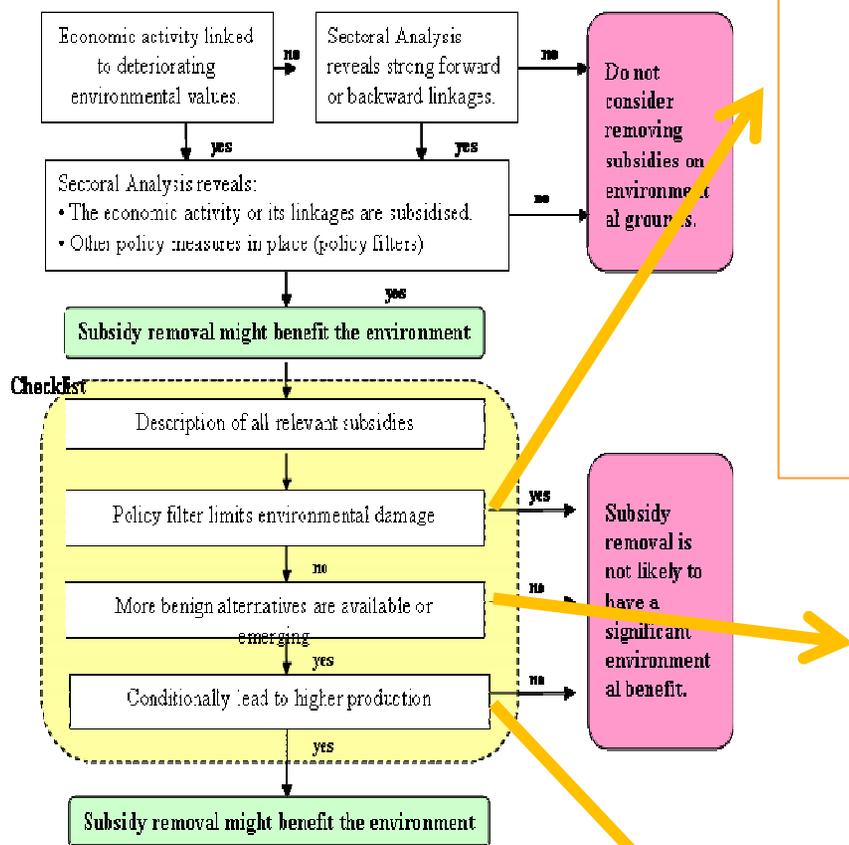
## Env impacts of irrigation:

- ❖ water overuse (between 20-70%),
- ❖ pollution (eg fertilizer use 20-50%),
- ❖ soil salination,
- ❖ biodiversity loss

## Demand elasticity:

- ❖ generally low but depends on local conditions (eg climate, soil) & water price
- ❖ change in crops requires time
- ❖ different effects on *farmers' income* and *water consumption*

# ... Selected findings from Checklist



## ❖ Policy filter limits damage? **NO/little**

- **License/water trading** >> some efficiency but limited # of transactions; issues of transparency and enforcement
- **Some subsidies to drip irrigation/modernisation** >> increased consumption (eg due to crop changes) – technology alone not enough!
- **CAP cross-compliance:** some signals of reduced water use

## ❖ More benign alternatives exist? **YES**

- improved **technology & monitoring**
- **price signals/ volumetric rates**
- programmes for **crop changes**
- compulsory water use (**good**) practices

**Does the subsidy lead to higher resource use? YES**

# ...Selected findings from Integrated Assessment

