

# Resource Equivalency Methods for Assessing Environmental Damage in the EU

**REMEDE**

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# Presentation outline

- Why?
- Who?
- What and by when?

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# Objectives

“To develop, test and disseminate resource equivalency methods appropriate for determining the scale of complementary and compensatory remedial measures necessary to adequately offset environmental damage.”

draw from US experience and that of EU Member States

“apply and develop resource equivalency methods in accordance with the requirements of the Environmental Liability Directive and the EIA, and Habitats Directives, in order that a standard toolkit can be applied to all damage cases in the EU.”

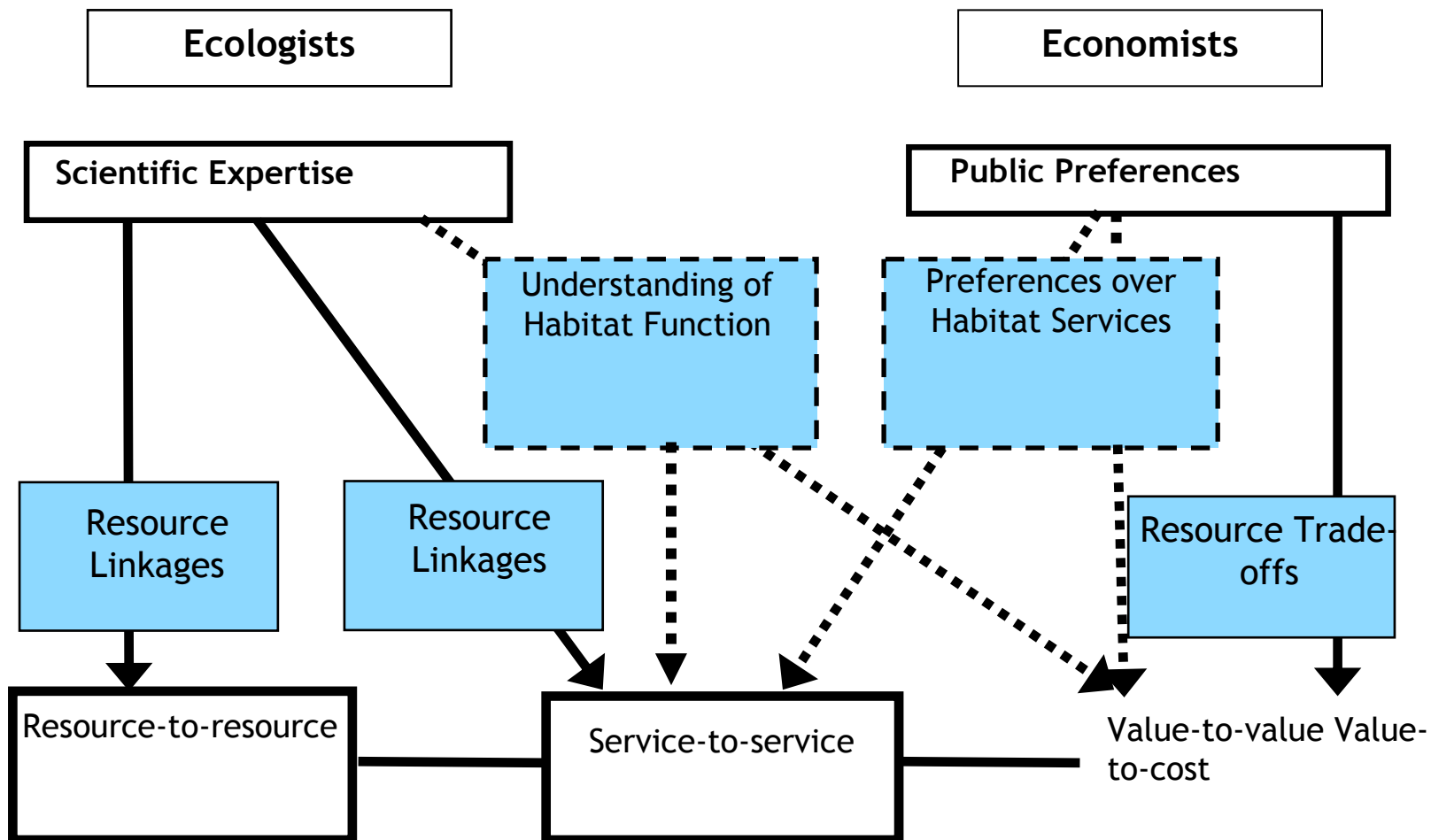
# Why? - *toolkit to support Annex II*

- Assessing the environmental damage
- Identifying the need for:
  - Complementary remediation
  - Compensatory remediation
- Scaling (a hierarchy?):
  - Resource-to-resource
  - Service-to-service
  - Value-to-value
  - Value-to-cost
- **What types of resources should be remediated and how much remediation is enough?**

# Transposition of ELD - completed

- Italy
- Lithuania
- Latvia
- Hungary
- Germany
- Slovakia
- Sweden
- Spain
- Estonia
- Cyprus

# Who?



# What and by when?

## **Work Package 1 - Methods development (May 2006 - March 2007)**

- Assessing the legal context
- Reviewing the state of the art of resource equivalency analysis
- First draft of the Toolkit

## **Work Package 2 - Case studies (March 2007 - March 2008)**

- Testing and developing the Toolkit through case studies in Spain, Poland and elsewhere in the EU
- Revising the Toolkit in the light of lessons learnt

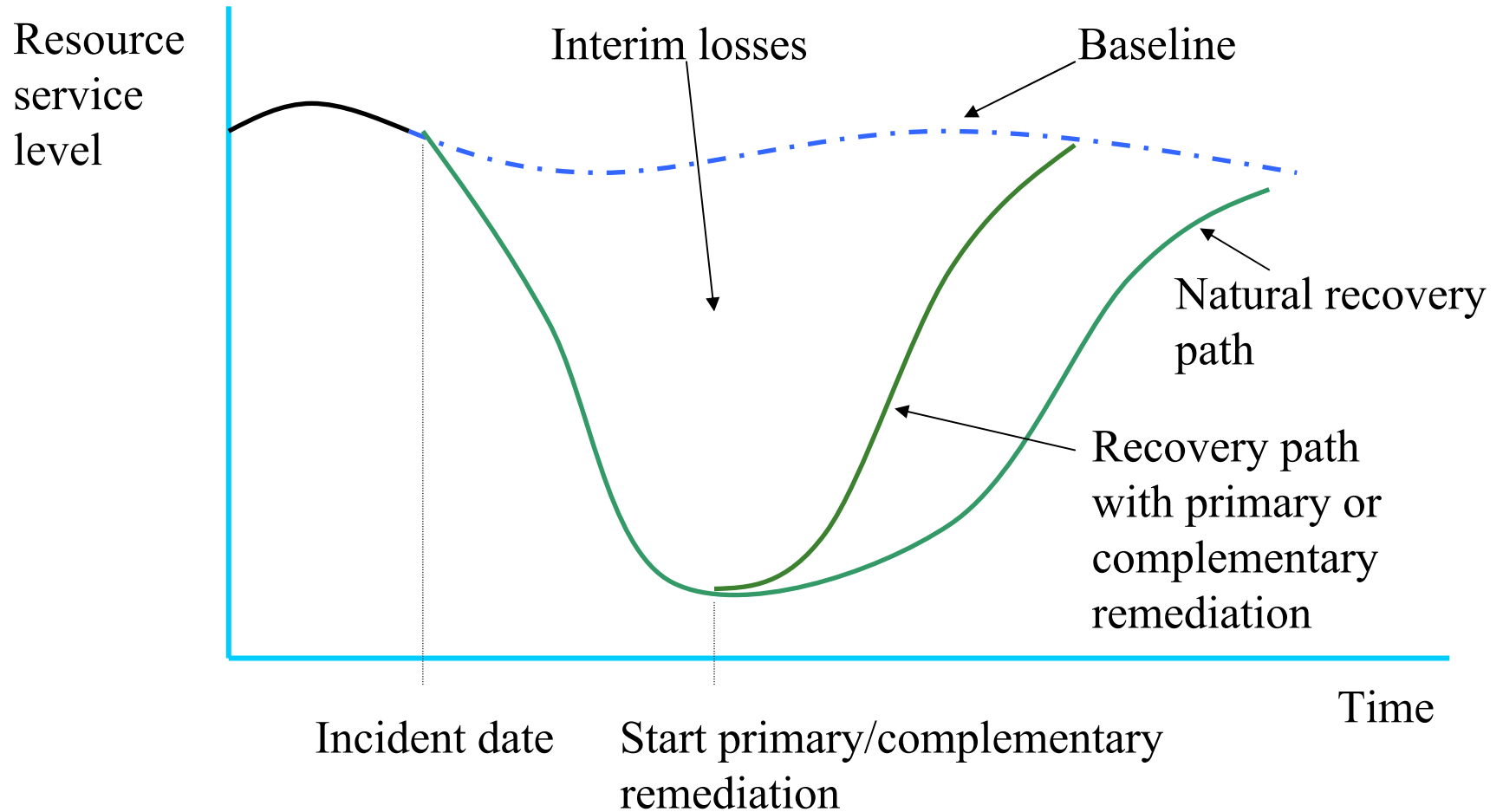
## **Work Package 3 - Dissemination (throughout the project but intensively in Dec.2007 - July 2008)**

- Events, materials and final report

# WP 1: Methods Development

- **Deliverable 5:** Legal analysis
- **D6A&B:** Review of resource equivalency methods (US&EU);
- **D7:** Survey of Member States;
- **D8:** Outline toolkit;
- **D9:** A consultative expert workshop (Feb 07);
- **D10:** Draft Toolkit (not published)
- **D11:** Selection of case studies.

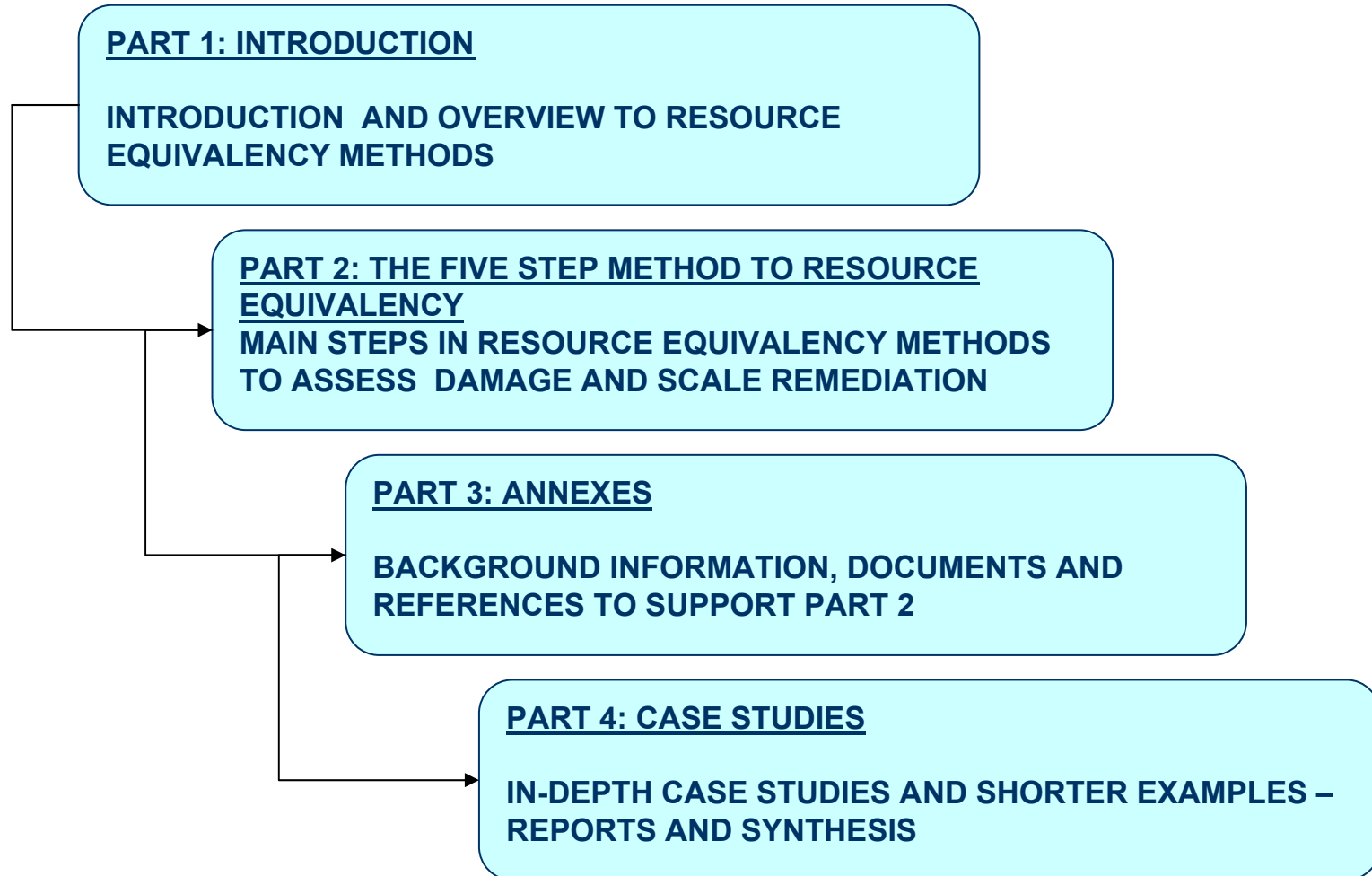
# Anatomy of Damages



# What's outside the scope of REMEDE?

- Determination of significance
  - Damage assessment step could contribute
- Determination of primary restoration
  - Usually doesn't require scaling
- Determination of the baseline
  - Could be stable, declining, improving
  - Site-specific data, data from reference site or modelling data
  - ....possibilities are covered but the choice is not made

# Toolkit Structure



# The 5 step method to resource equivalency

1. Initial evaluation
2. Determining and quantifying damage (debit)
3. Determining and quantifying the benefits of remediation (credit)
4. Scaling complementary and compensatory remediation
5. Monitoring and reporting

# WP2: In-depth and shorter case studies

- Vistula gas pipe crossing and a motorway (Poland)
- Chronic mining pollution (Czech Rep.)
- Chemical tank collapse (Sweden)
- Mining spill (Spain)
- Forest fires (Spain)
- Abstraction of water from River Itchen (UK)
- Defence against 'coastal squeeze' (UK)
- Remediation for the damage from Airbus facility (Germany)
- Habitat banking (Germany)

# WP 3: Various dissemination events and publications

...to download and join the mailing list visit:

[www.envliability.eu](http://www.envliability.eu)

...to be continued and expanded after REMEDE...

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