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Objectives of the cost-effectiveness analysis

- To develop a framework for evaluating the costeffectiveness of indicators and methodological approaches for environmental evaluations
- To estimate the cost of the required resources for evaluation and to analyse determinants of costs
- To assess the effectiveness of developed indicators and evaluation methods based on WP6 case studies
- To assess the implications of improved monitoring data scenarios for the cost-effectiveness of environmental evaluations

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Framework of the performance assessment

- Quality criteria
 - Based on a framework developed by the EC
 - Responsiveness, analytical soundness, measurability and ease of interpretation
- Operationalisation through judgement criteria for each quality criteria
 - Integration of evaluation challenges as seven judgement criteria: e.g. establishing robust cause-effects relationships and assessment of net impacts
- Clearly defined performance levels for each judgement criteria
 - Qualitative approach: high, medium and low

Framework for the performance assessment

Quality criteria (EC, 2001)

Judgement criteria and performance levels (ENVIEVAL)

Lodgement criteria:

Compatibility with local anvironmental and farm characteristics

Inding of environmental impacts captured

Lodgement criteria:

Trining of environmental impacts captured

Lodgement criteria:

Ferformance levels:
High, medium and low

Lodgement criteria:

Establishment of consistent micro-macro linkages

Lodgement criteria:

Establishment of robust captured

Lodgement criteria:

Establishment of robust captured

Lodgement criteria:

Lodgement criteria:

Establishment of robust captured

Lodgement criteria:

Lodgement criteria:

Establishment of robust captured

Lodgement criteria:

Lodgement



 How to define the different performance level for each judgement criteria?

	Responsiveness	characteristics	Low	Applicability at the local level is assumed, common sense models are used to consider local environmental characteristics in the interpretation of the results.
			Medium	A generalized typology of environmental characteristics is used. Local characteristics are placed within this typology and addressed accordingly.
			High	Local environmental characteristics are specifically considered and incorporated into the evaluation approach.
		Timing of environmental impacts captured	Low	Temporal dimensions of environmental impacts are not incorporated and only considered in the interpretation of the results
			Medium	Temporal dimensions of environmental impacts are incorporated in the methodological / evaluation approach through external assumptions
			High	Temporal dimensions of environmental impacts are directly incorporated in a dynamic modeling framework

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Data gaps and environmental monitoring

- Data gaps constrain the effectiveness of environmental indicators and application of "advanced" methods
- Data issues are the most important factor influencing the effectiveness of the evaluation approaches
- Role of environmental monitoring programmes to improve cost-effectiveness of evaluations – if quantification of impacts is the ultimate goal

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Key questions

- How can the data availability and access be improved to fully utilise the potential of evaluation methods and to improve their cost-effectiveness?
- What are realistic and feasible scenarios for improved future environmental monitoring programmes to improve data availability and access?
- Which cost/efforts are associated with the scenarios and what are the improvements in the performance of the evaluations?
- Stakeholder judgement: Is the improved performance and more robust impact assessment worth the higher cost?

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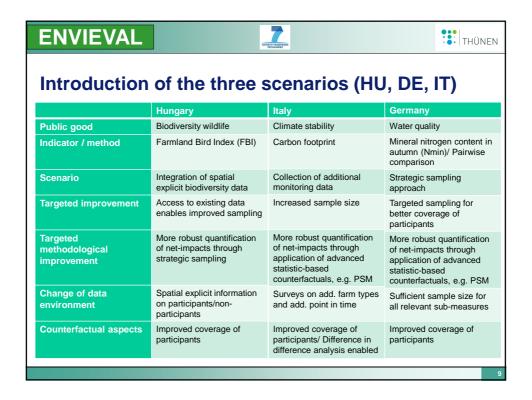


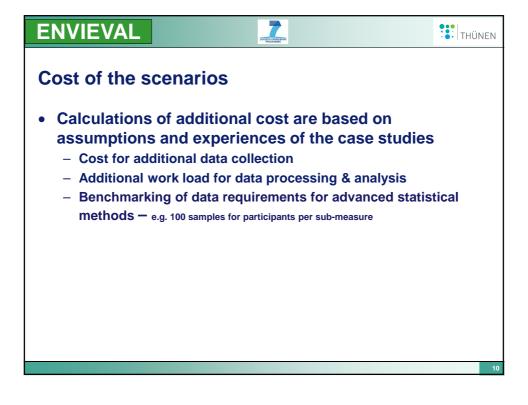


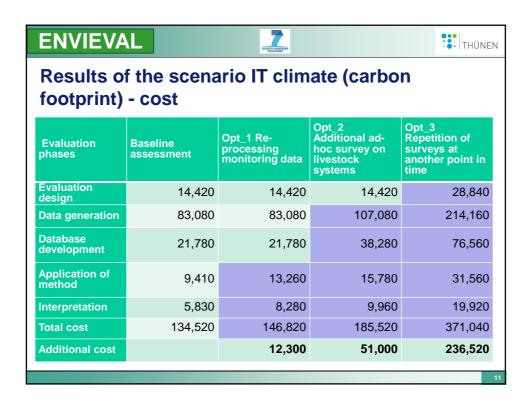
Monitoring cost scenarios

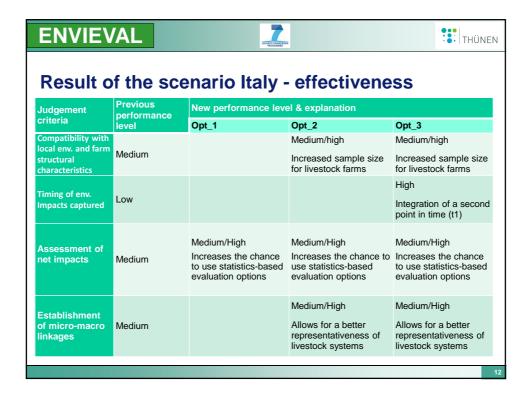
- Assessment of scenarios for future environmental monitoring programmes
- Based on the results of the case study testing, three key types of scenarios are examined:
 - Additional efforts to increase the sample size and to improve the spatial coverage of the monitoring programme
 - Strategic sampling design of monitoring programmes, exploring options to reduce monitoring efforts while, at the same time, improving the spatial targeting of participants and non-participants
 - Better integration of existing monitoring data from different sources or / and better integration of environmental monitoring data with farm structural data

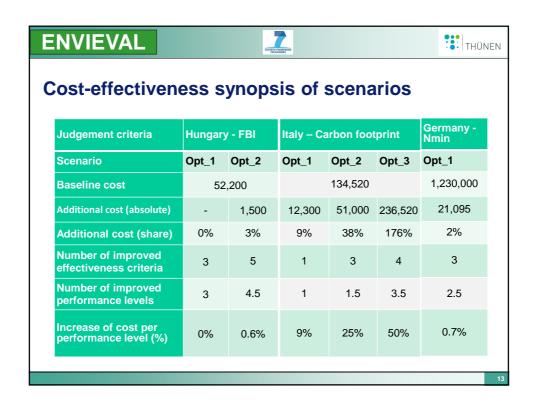
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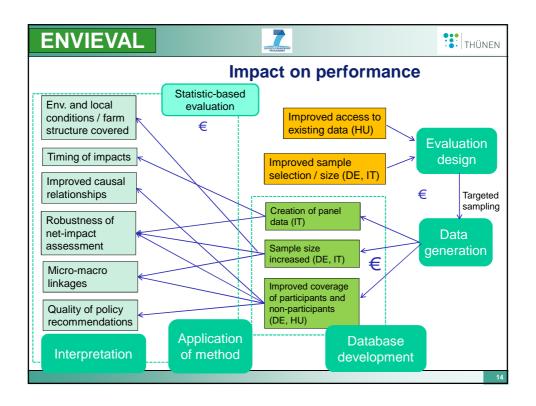


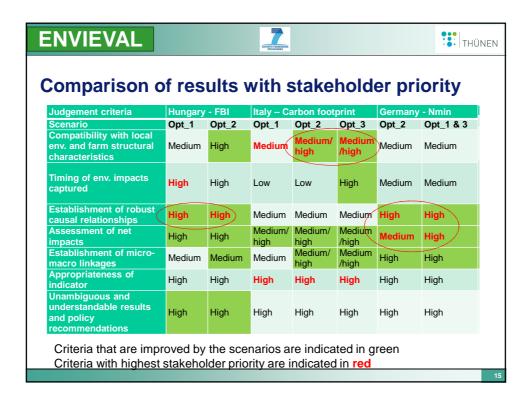


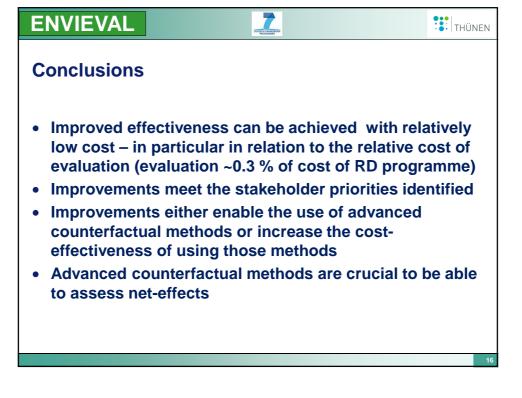












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Conclusions

- Assessment of synergies between measures requires improved monitoring data to enable assessment of multiple comparison groups
- Type of scenarios and results are transferable to other cases requires further validation
- Consideration of data requirements: monitoring should be developed jointly with the RD measures and consider evaluation needs

- Thank you-

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