

Improving environmental assessment by adopting good practices and tools of multi-criteria decision analysis (IMPERIA)

ANNUAL REPORT

1.8.2012-31.7.2013



The IMPERIA project aims to identify, develop and provide good practices and new tools for EIA and SEA projects in order to improve their quality and effectiveness

To reach the goal we

- analyse realized EIA and SEA projects and identify good practices
- study application opportunities of structuring tools and MCDA methods
- develop criteria and approach to impact significance determination
- suggest new practices and ideas for stakeholder involvement and enhanced public participation
- demonstrate and evaluate methods and tools in reallife EIA and SEA projects
- co-operate with IA practitioners to ensure that our results meet the true needs of authorities, consultants and other EIA practitioners
- · frequently inform practitioners from our results

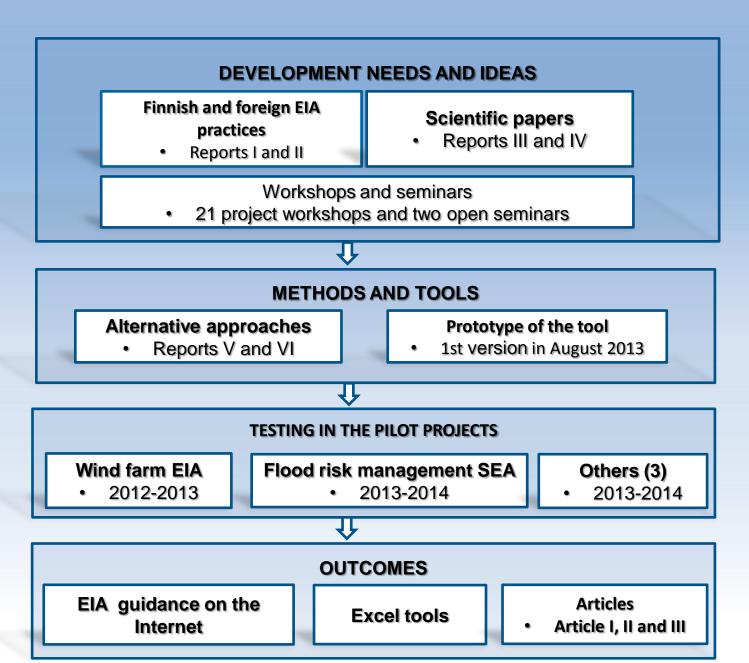
Major outcomes

- Internet- and MCDA –based tools
- new ways to realize EIA and SEA tasks
- internetEIA –guidance
- seminars
- education material and courses
- reports and scientific articles

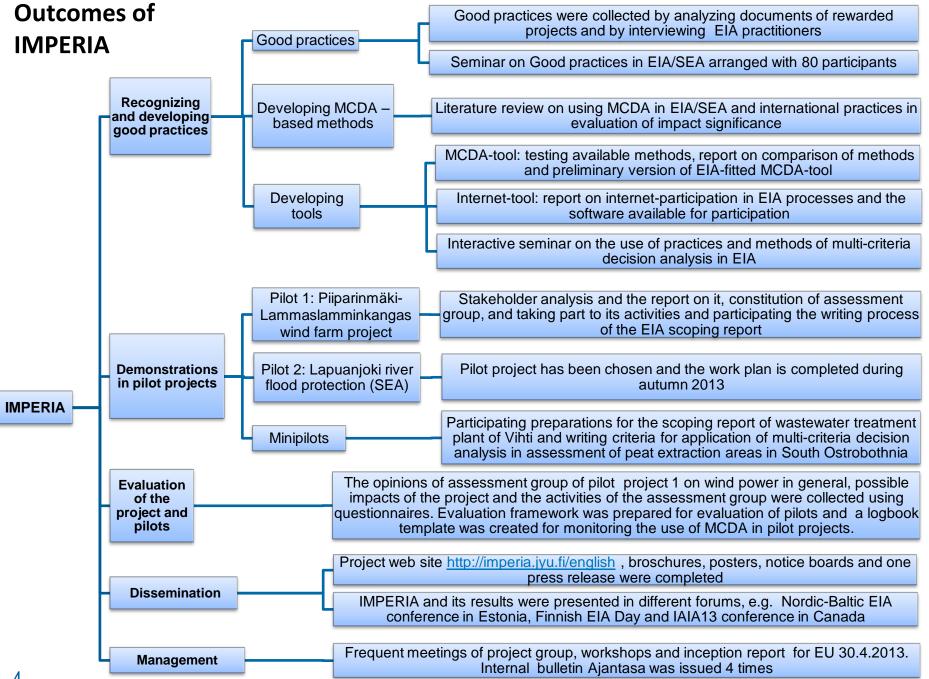
Application of practices and tools originating from multi-criteria decision analysis is in central role



Major outcomes of the IMPERIA project during the first year







Reports

Development needs and ideas

- Report I: Luodemäki S, Grönlund S, Marttunen M (2013) Good practicies in EIA/SEA in Finland
- Report II: Ikäheimo E (2013) Impact Significance Assessment and Evaluation of Alternatives International Guidelines and Cases
- Report III: Karjalainen TP, Neste J (2013) A literature review The use of multi-criteria decision analysis in Environmental Impact Assessment
- Report IV: Marttunen M, Vienonen S, Koivisto U (2013) Impact significance determination literature review

Methods and tools

- Report V: Mustajoki J, Marttunen M, Luodemäki S (2013) The experiences of Internet participation
- Report VI: Mustajoki J, Marttunen (2013) Comparison of Multi-Criteria Decision Analytical Software Searching for ideas for developing a new EIA-specific multi-criteria software

Outcomes

- Article I: Karjalainen TP, Marttunen M, Sarkki S, Rytkönen A-M (2013) Integrating ecosystem services into environmental impact assessment: An analytic–deliberative approach. Environ Impact Assess Rev 40:54–64 (in press).
- Article II: Marttunen M, Mustajoki J, Dufva M, Karjalainen T (2013) How to design and realize participation of stakeholders in MCDA processes? A framework for selecting an appropriate approach. EURO Journal on Decision Processes - Special Issue on Environmental Decision Making. Submitted.
- Article III: Mustajoki M, Marttunen M, Karjalainen TP, Hokkanen J, Vehmas A (2013) Developing practices for supporting EIA with Multi-Criteria Decision Analysis. Proceedings of the 33rd Conference of the International Association for Impact Assessment (IAIA13), Calgary, Alberta, Canada, 13–16 May 2013.





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