

## Agenda



- Introduction to the study
- The mitigation hierarchy as we have used it
- Results: The mitigation hierarchy
- Results: The process of mitigating
- Concluding remarks: Recommendations for practice



## Introduction to the study



#### EIA of infrastructure projects:

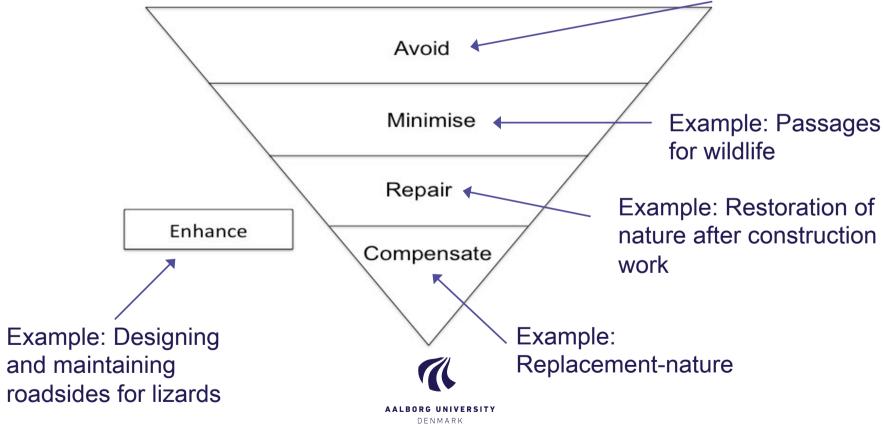
- How is mitigation and monitoring on nature parameters used today? How can it be used better in the future?
- Infrastructure projects: Roads, railways, bridges, tunnels, canals, waterpipes, cables and pipelines (oil- and gas).
- Methodology: Study of documents, workshop, case-studies
- Project-period: February 2014-April 2015
- Sponsored by 15. Juni Fonden



# The mitigation hierarchy

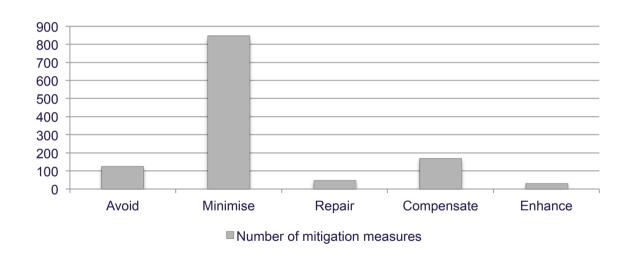


Example: Moving the road



# Results: The mitigation hierarchy





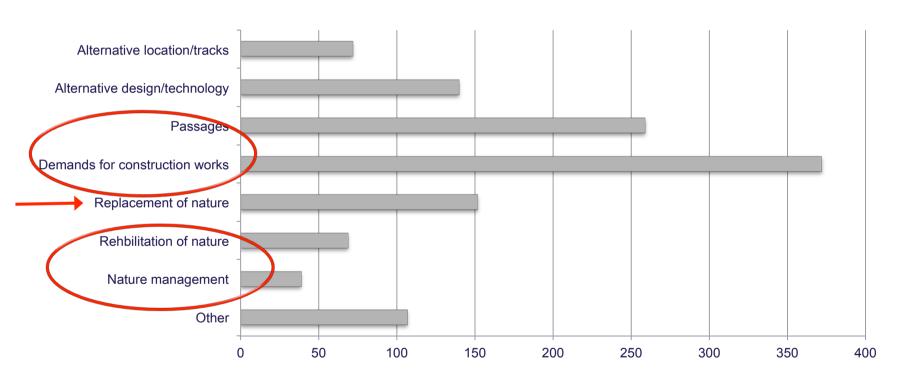


- Mitigation hierarchy turned upside down?
- Low on avoidance
- High on compensate



# Results: The mitigation hierarchy







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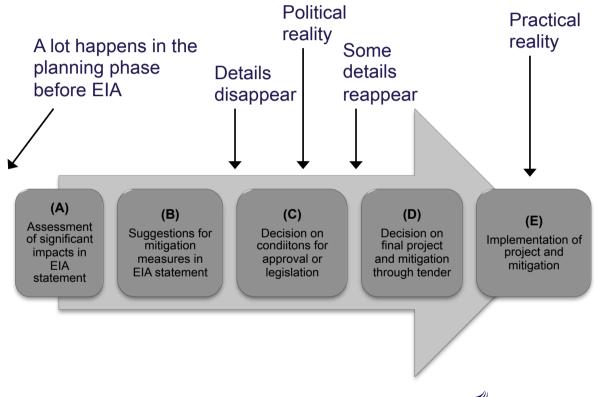


So.....

- Relatively few mitigation measures on avoidance of impacts
- Relatively many mitigation measures on compensation for impacts and particularly replacement of nature
- Relatively few mitigation measures with long-term activity such as nature management and rehabilitation



#### Results: The process of mitigation





Scenario 1: Accordance between steps

Scenario 2: Narrowing between steps

Scenario 3: Expansion between steps

In reality: Something in between



## Results: The process of mitigation



#### Planning and decision-making

- Wording: Can, should or must
- Demand through legislation or from authorities
- Pressure and input from public or politicians
- Evidence for effects
- Financing
- Lack of organisation

#### **Implementation**

- New knowledge through the detailed design
- Practical or technical restraints that appear in the construction phase
- Financing
- Planning



# Concluding remarks and recommendations



The process before and after EIA is very important!

- Need to understand it to get the most out of EIA
- Need for follow-up

Discussion of the use of compensation and replacement nature

Restrictive line from legislation and board of appeals? Compensation as a last resort?
What is acceptable in terms of "swopping" nature?

Clarification about avoidance

Information for decision-makers and the public

Coordinating with other nature management and planning

- Compensation: Creating better and more coherent nature
- Long-term management: Get support and organisation

