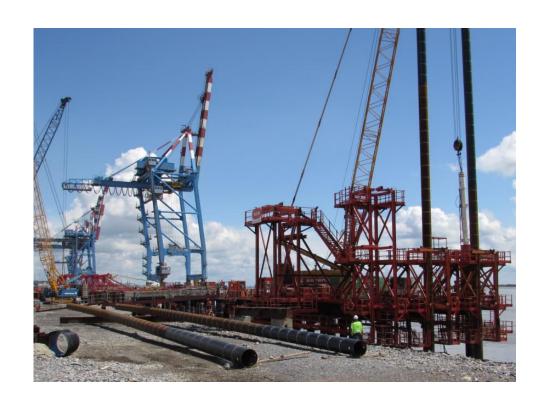


Greening EU Cooperation

Integrating Environment, Climate Change and Disaster Risk Reduction in EU External Action

Session 7: Environmental Impact Assessment (EIA) & Environmental Management Plan (EMP)

Environmental Impact Assessment



the process of identifying, predicting, evaluating and mitigating the biophysical, social and other relevant effects of development proposals prior to major decisions being taken and commitments made

IAIA (International Association for Impact Assessment)





Basic facts

- Widely established world-wide
- Applicable to projects with potential significant adverse impacts on the environment and health
- Decision-informing in development consent
- Traditionally impact-centered
- Often also addresses social impacts (ESIA)

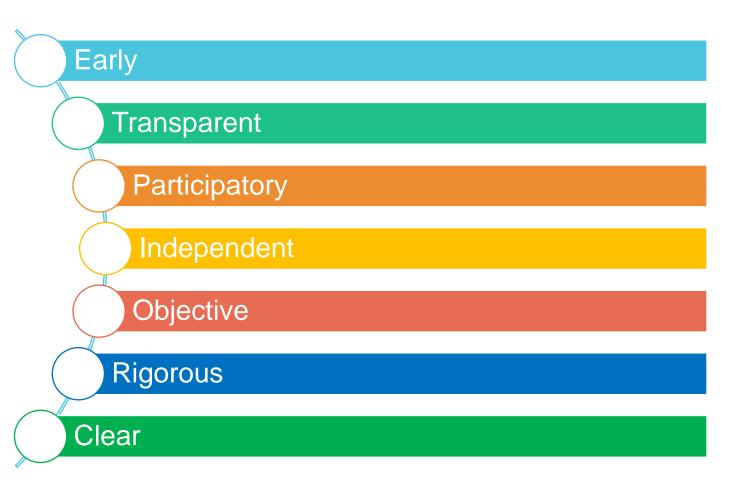






EIA key principles









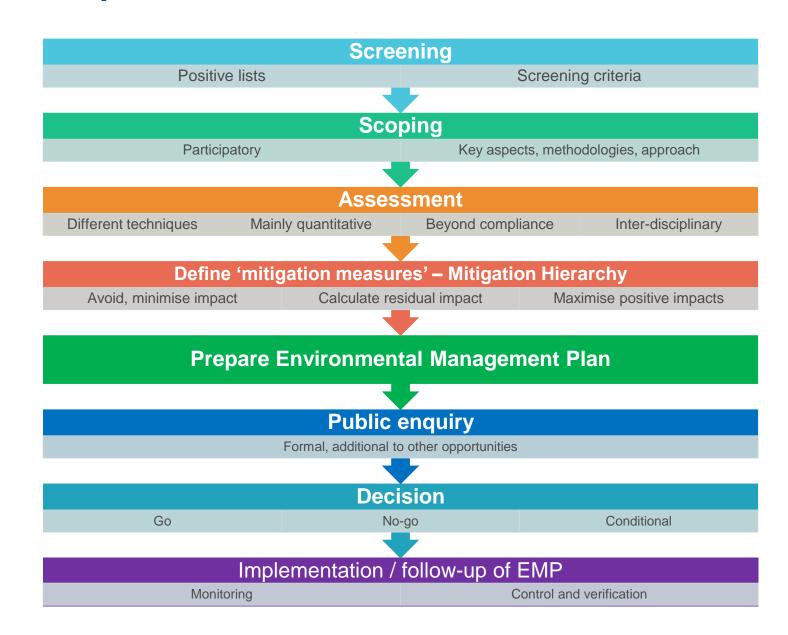
EIA regulatory framework

- Use national systems unless not up to standard!
- EIA Directive (2011/92/EU amended by 2014/52/EU)
- Aarhus Convention (access to information, public participation, access to justice)
- Espoo Convention (transboundary impacts)
- Performance Standards of Financial Institutions (relevant for blending)

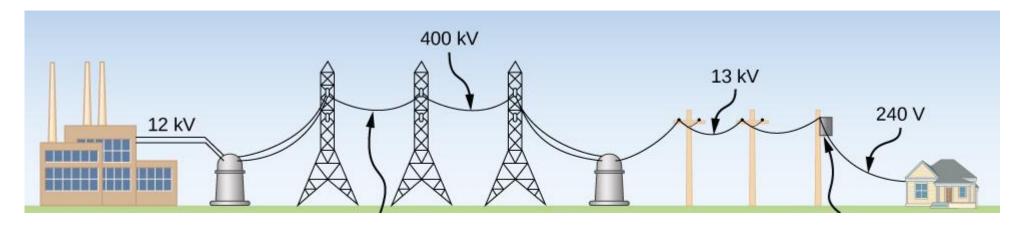








Key contents to highlight



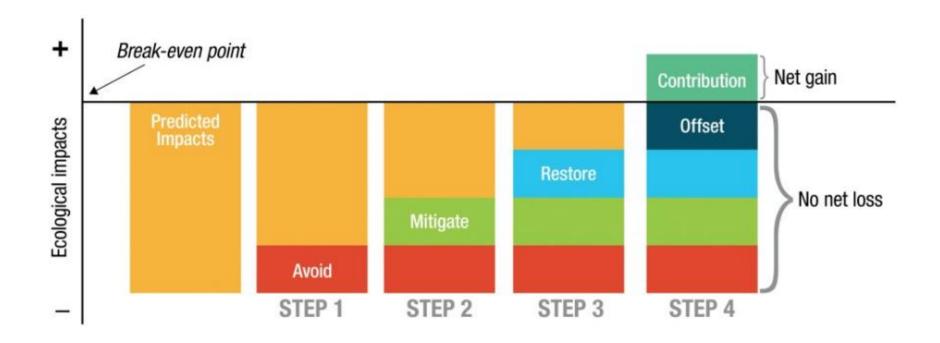
- Non-technical summary
- Analysis of alternatives (including baseline scenario)
- Cumulative impacts
- Addressing climate vulnerability

- Impacts associated to vulnerability to major accidents and/or disasters
- All phases of the project
- Associated developments
- Transboundary consultations





Mitigation hierarchy







EIA methods

- Different and sometimes complex methods:
 - Checklists
 - Matrices: cause effect
 - Network analysis
 - Graphical analysis
 - Models (e.g. noise, dispersion of pollutants)
 - Emission factors
 - GIS analysis
- The method and the complexity level must be appropriate for the problem





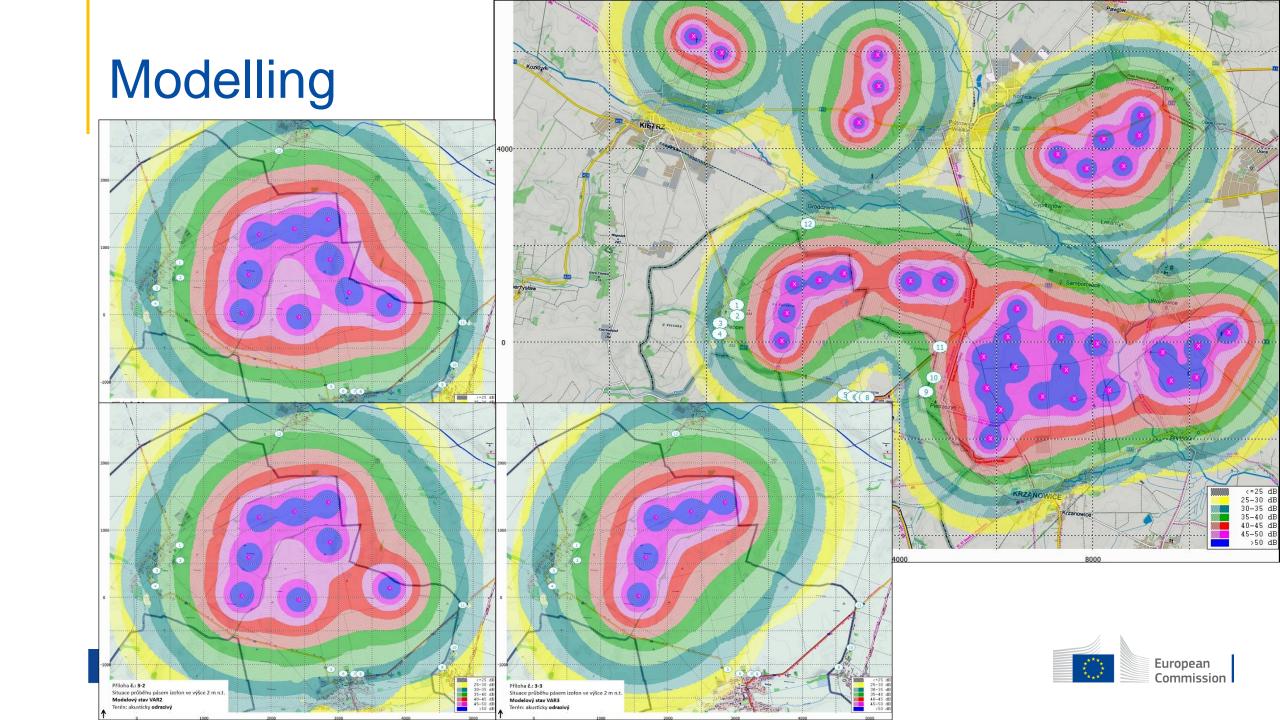
Matrices

Actions → Factors	Construction			Operation		
	Movement of land	Urban services of the project	Building works	Use of housing draft	Consumption services	Generation of waste
Air (Quality Air System Sonic)	Н	Н	Н	М	L	L
Floor (Use)	Н	М	Н	М	Н	M
Surface water (Storm drain)	Н	М	Н	М	Н	М
Underground water (Aquifer Level, Groundwater)	M	Н	M	L	L	L
Flora fauna (Biotopes)	Н	М	L	L	L	L
Empowerment	Н	М	Н	М	В	В
Sociocultural Condition (neighbours)	Н	M	Н	Н	M	M
Generation Solid Waste	Н		Н	Н	М	М
Management of dangerous substances (Combustibles etc.)	Н	М	Н	Н	Н	L
Scenery	Н	М	Н	Н	В	В

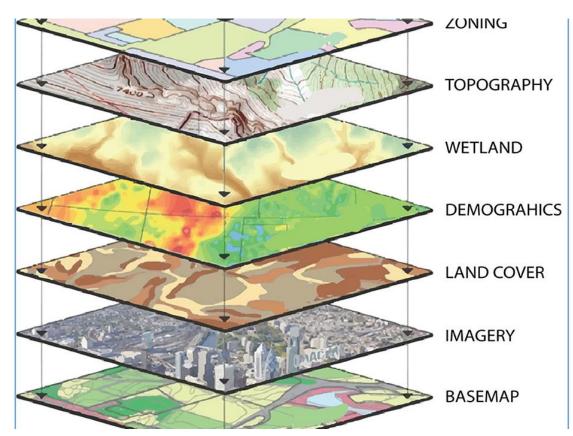
Ecological issues Concerns Anchoring, mooring/foundation installation (as well as removal), and other seabed Disturbance to seabed disturbances can lead to disturbance/destruction of seabed habitats habitats of Construction camp, storage of material, construction of associated infrastructure Disturbance landward areas (transmission lines) can involve temporary impact on land (incl. cultivated) and terrestrial ecosystems Pollution Underwater construction/decommission operations and use of machinery will cause local temporary increase in turbidity and involve a risk of contamination due contamination seabed to leakage of fuel or other chemicals and water, wildlife (incl. fish stocks) Socio-economic issues **Concerns** Construction Waste resulting from construction operations needs to be soundly managed waste (storage, transport and disposal for all waste streams) minimisation disposal Community Consideration shall be given to possibility of employing local workforce relations and employment in Minimization of community disturbance risks originating from presence of guest construction phase workers shall be ensured Timing of activities Any potential risks or limitations related to implementation timing shall be verified regarding with the local community seasonal sensitivities **Operation and maintenance Ecological issues** Concerns The scale and implications of changes to such factors as nutrients, temperature, Disturbance to water light levels, turbidity (suspended sediments), surface waves and current patterns masses should be considered Shoreline disturbance Potential change to the coastline such as erosion/deposition, change in character, either directly or indirectly should be considered Behavioural changes in Activities have the potential to affect the distribution of wildlife, namely fish, sea wildlife mammals, birds The area of potential impacts is located within a MPA and potential implications for **Impacts** its status and conservation value needs to be examined conservation areas/protected species

Construction phase/ Decommissioning phase

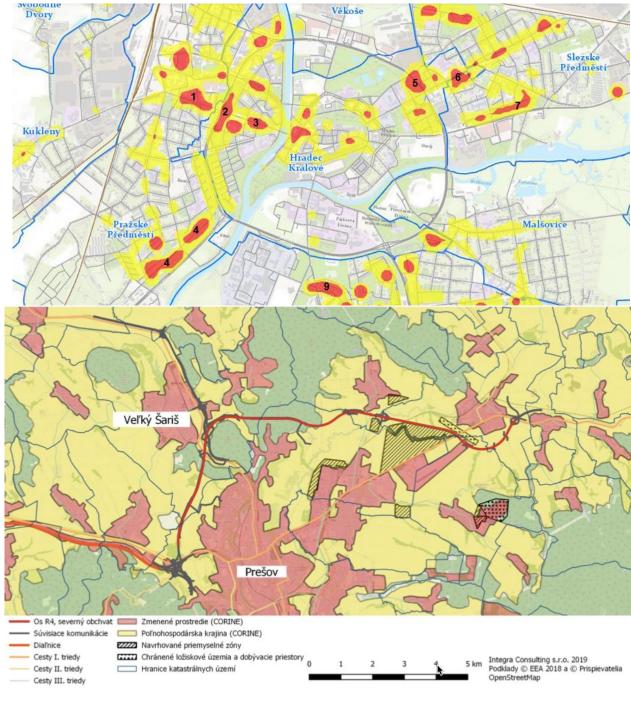
Key: Significant Impact – requires assessment and establishment of measures 'mpacts of low or non-existent significance (rated as A = High, M = Moderate, L = Low)



GIS overlays

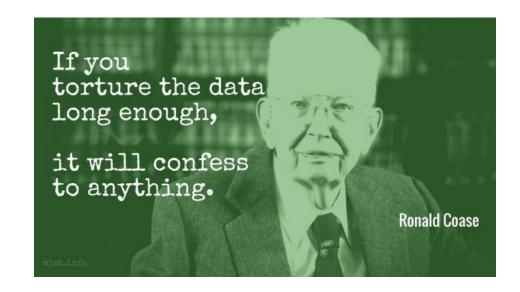






Common shortcomings in EIA

- 'Catch-all' approaches
- Limited participation
- 'Salami-slicing'
- Manipulation of data
- Unclear/un-precise
- Lack of quality control
- Little or no follow-up

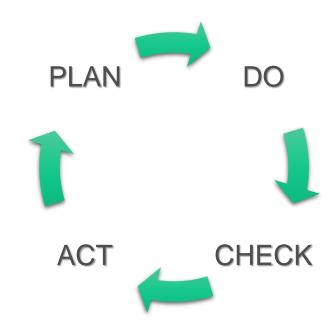






Environmental Management Plan (EMP)

- Details for implementation and monitoring of mitigation measures
- What? How? Who? When? How much?
- Must be reflected in contractual documents
- Link to monitoring and evaluation







Impacts/ concerns	Mitigation actions	Mitigation timeframe	Responsibility	Verification/control
General	Maintain Incident register to record any complaint of local residents or other affected stakeholders, any accident with impact on the environment or human health, or any other irregularity concerning the environmental management of the LSWEP	Construction phase	Contractor	Incident register
from boats, construction machinery and vehicles (on shore). Dust generated during the movement of	Ensure all construction vehicles, engines and machinery are maintained and operated in accordance with design standards and specifications No engines to be left running when not in use Staff trained/briefed in and aware of construction best practice All potential sources of dust emissions on site (on shore) i.e. unpaved roads used by LSWEP-related vehicles, areas of uncovered soil, etc., should be sprayed with water every four hours on working days, and more frequently as necessary to prevent dust emissions during dry and windy weather conditions Loose material (if any) shall be bunded and covered when transported to or off-site	construction works	construction	Daily visual assessment of dust plumes Random machinery checks Registered complaints for noise
drilling activities, and vehicles and	Organizing construction works and transport of the materials only during the day time i.e. between 7am and 6pm. Notify any nearby residents if construction work is planned outside of those times. If complaints regarding noise are received from residents, consider installing partial screening around the noisiest activities and/or mufflers on noisy equipment. Maintain all generators, vehicles, vessels and other equipment in good working order to inimize exhaust fumes and excess noise.	construction works	Contractor – construction company, all sub- contractors operating vehicles/boats	Registered complaints for noise

EIA – the role of the EU delegation



- Screening for EIA*
- Verify national systems are up to EU standard
- Quality check ToR**
- Quality check EIA/EMP
- Reflect relevant elements of EMP in design, contractual documents and project monitoring indicators

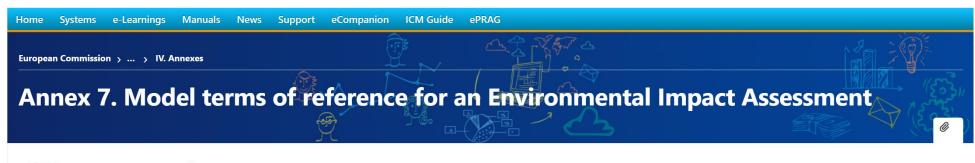




^{*} Annex 3 of the Greening Toolbox

^{**} Model ToR for an EIA available in Annex 6 of the Greening Toolbox

Greening Toolbox resources



✓ IV. Annexes

- Annex 1. Greening EU cooperation tools
- Annex 2. Aid to environment,
 DRR and Rio markers
- Annex 3. Model terms of reference for a Country Environmental Profile
- Annex 4. Environment and climate risk screening
- Annex 5. Sources to understand the environment and climate context
- Annex 6. Model terms of reference for a Strategic Environmental Assessment
- Annex 7. Model terms of reference for an Environmental Impact
- Annex 8. Model terms of reference for a Climate Risk Assessment

Annex 7. Model terms of reference for an Environmental Impact Assessment

Terms of Reference for the Environmental Impact Assessment of (name of the project) in (country/region)



Annex 7. Model ToR for an EIA

Online and .doc versions







EIA in the context of blending and guarantees



- Environmental & Social Safeguards (ESS) of lead Financial Institution apply
- IFC Performance Standards as international benchmark
- Need to verify applicable standards and their quality – special attention to intermediary Fls!
- Reflect EMP in contractual conditions and monitoring system





EIA follow-up

