IMPEL CAED Project

Description of the use of decision-making flowcharts and practical tables
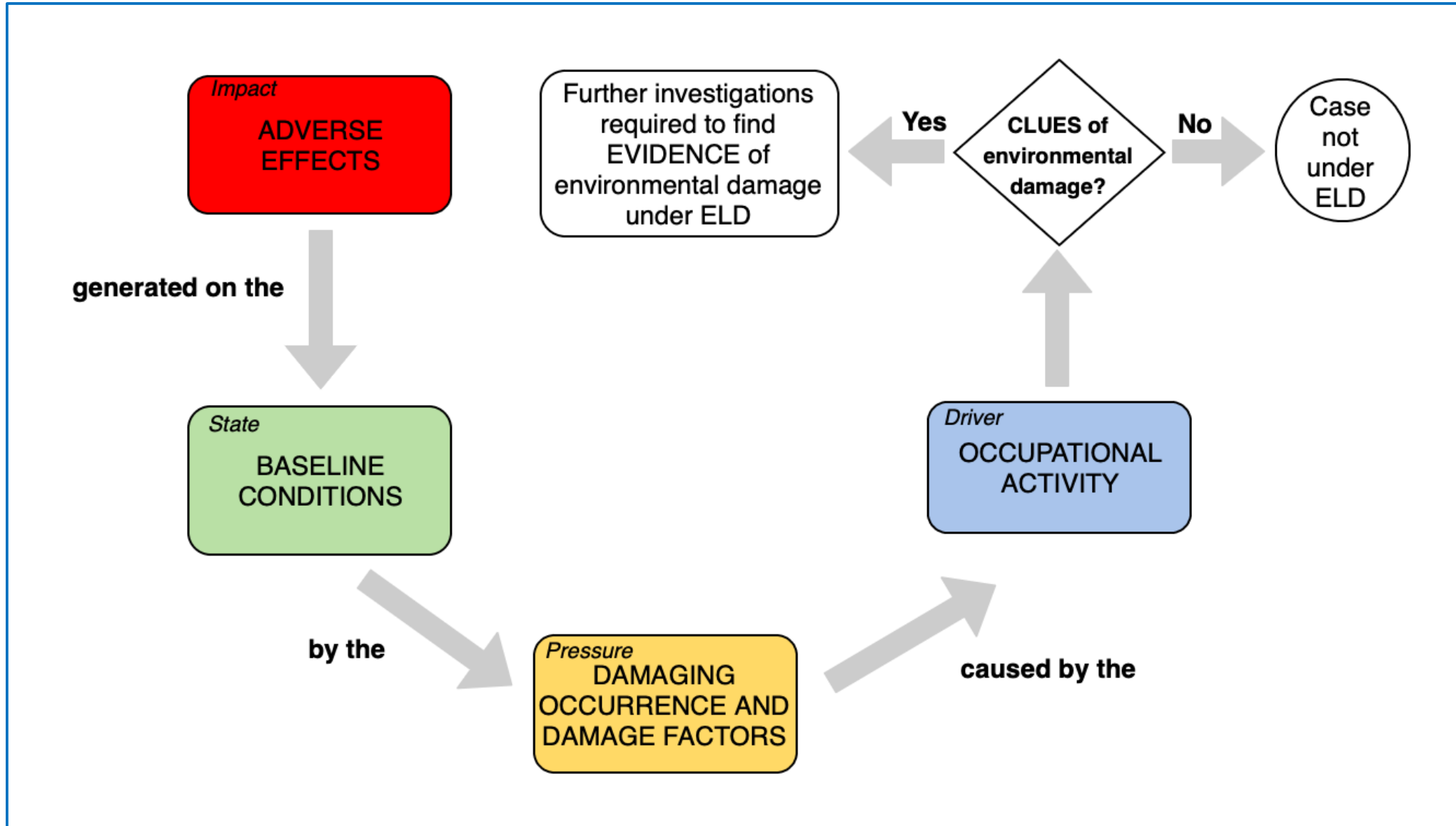
Second Training Session

February 9th, 2022, 9:30h - 13:30h CET (On-line training)

Francesco Andreotti

Italian National Institute for the Environmental Protection and Research (ISPRA), Italy
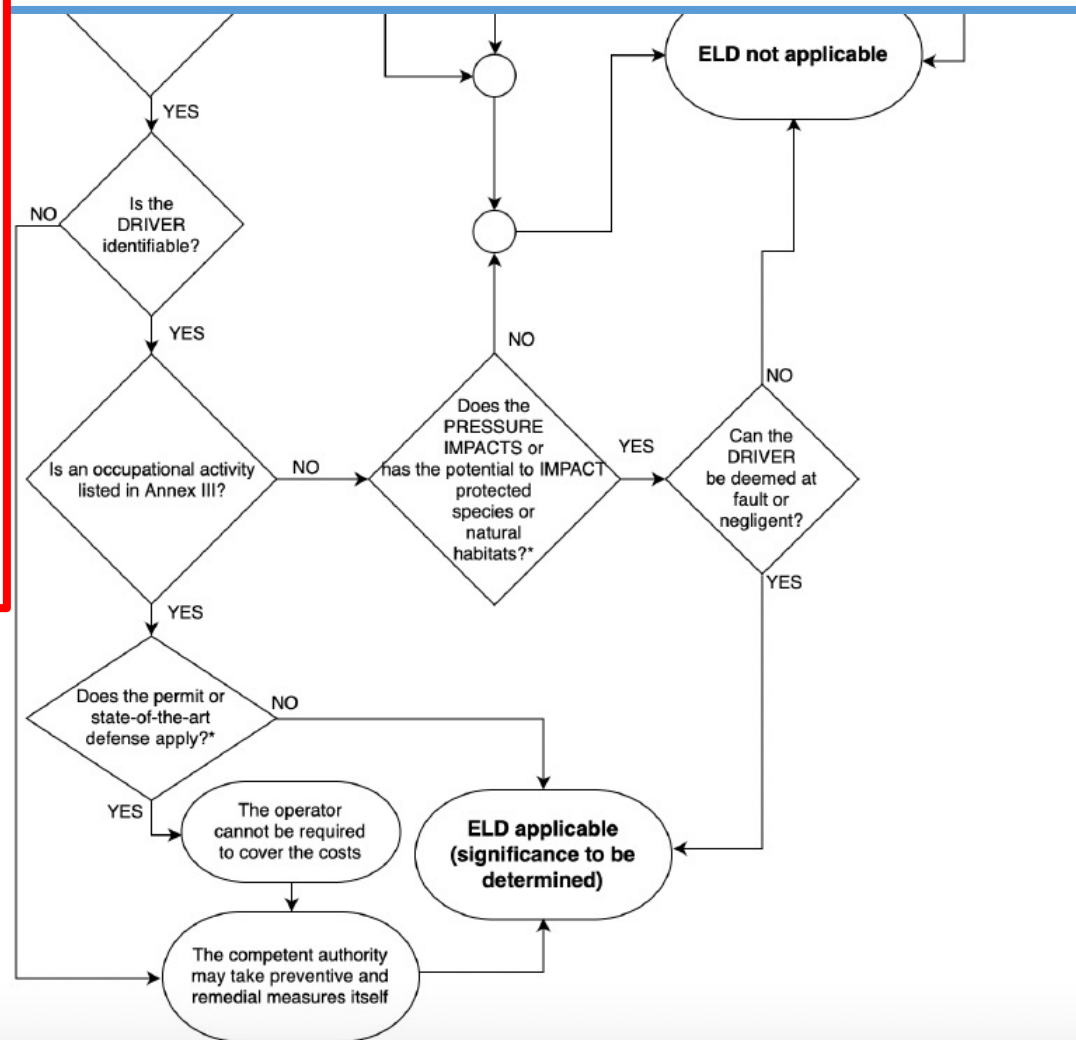
IMPEL CAED Project Manager

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DPSIR model adapted to damage assessment

Decision-making flowcharts

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and Enforcement of Environmental Law
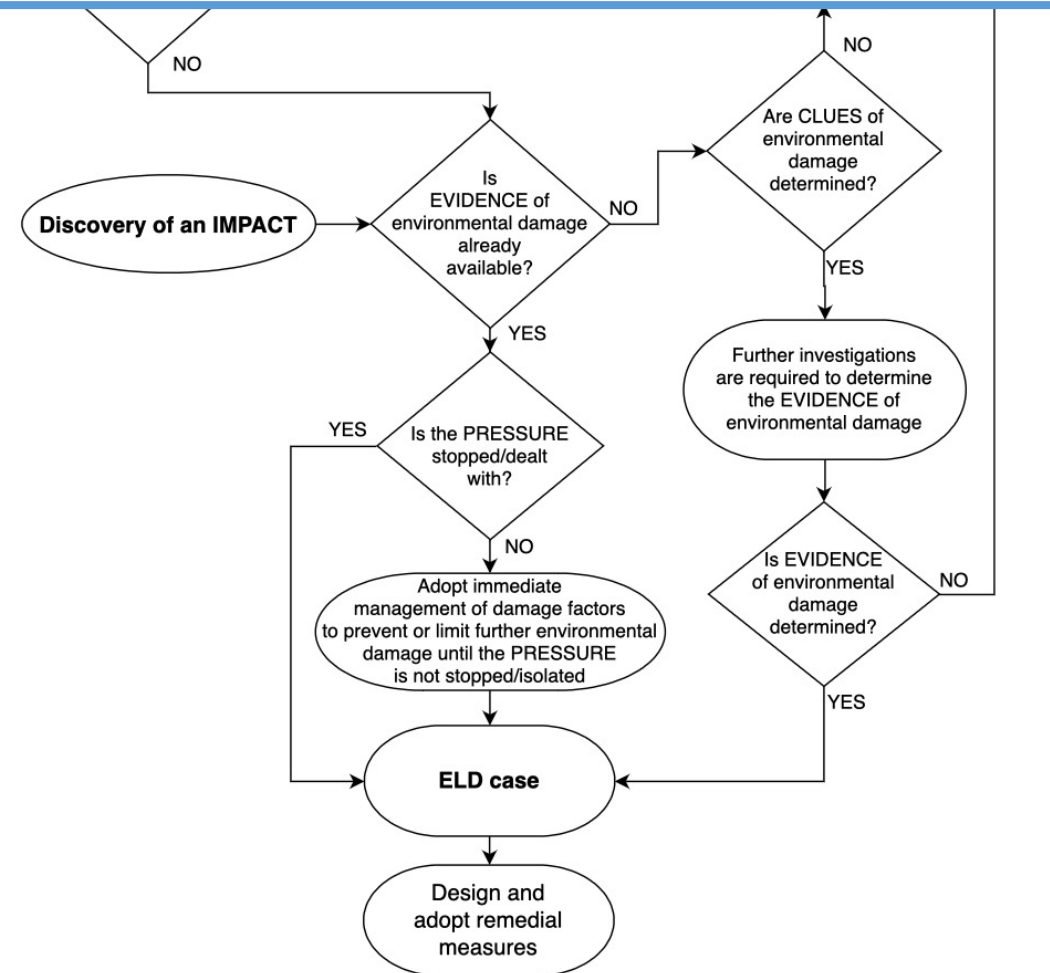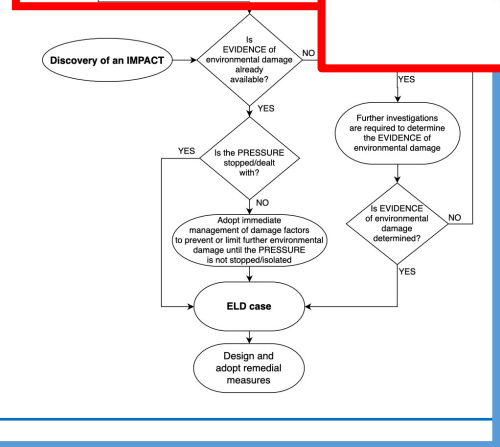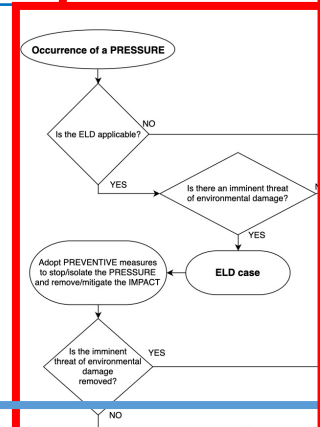
Flowchart for ELD applicability

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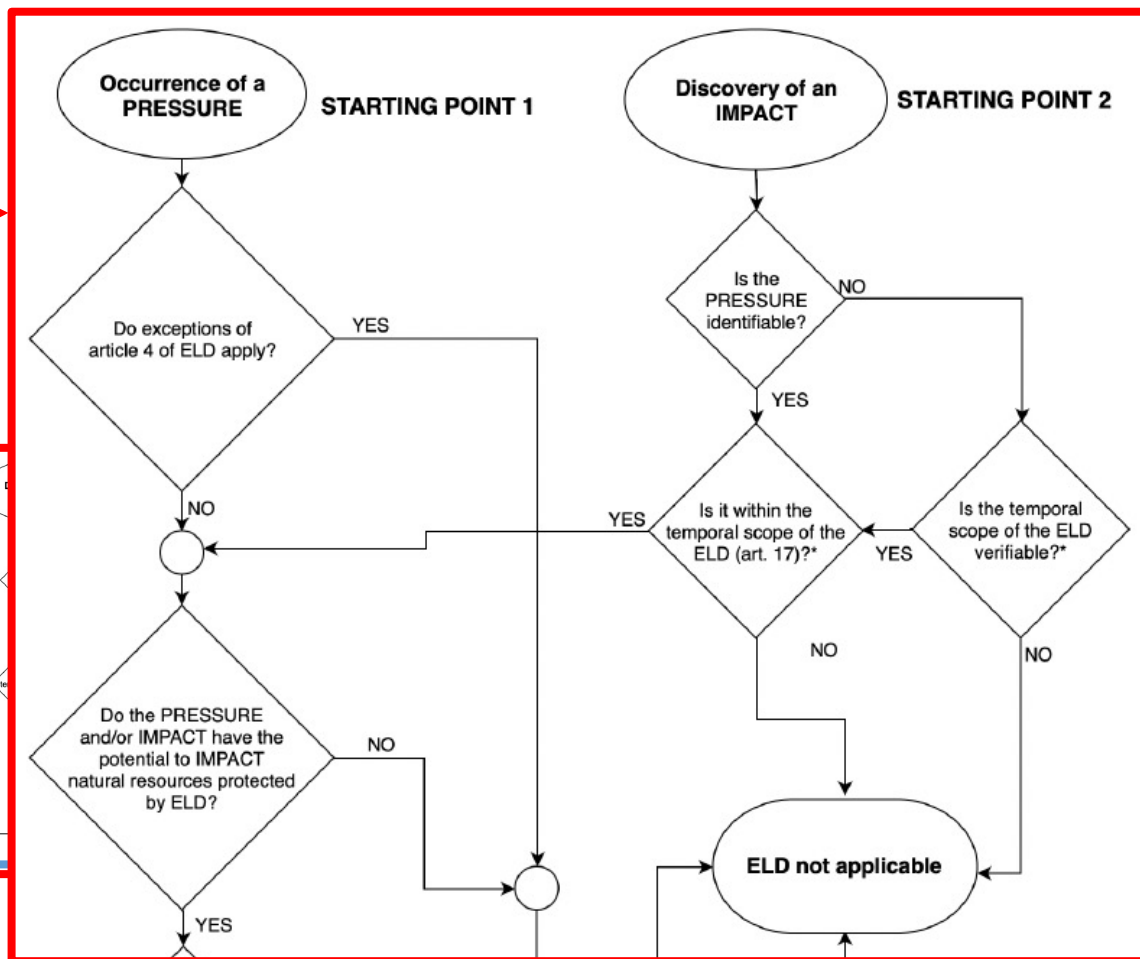
Decision-making flowcharts General

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Practical tables

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Practical Tables - NATURAL HABITATS PROTECTED SPECIES

IMPACT

OBJECTIVE	INDICATORS	DESCRIPTION/THRESHOLDS	NOTES	EVALUATION	OVERALL JUDGEMENT
Precondition for the use of the tables for NHPS	IMPACT ON "PROTECTED SPECIES AND NATURAL HABITATS", namely (par. 3, art. 2 of ELD): (a) the species mentioned in Article 4(2) of Directive 79/409/EEC (Birds Directive) or listed in Annex I thereto or listed in Annexes II and IV to Directive 92/43/EEC (Habitat Directive); (b) the habitats of species mentioned in Article 4(2) of Directive 79/409/EEC or listed in Annex I thereto or listed in Annex II to Directive 92/43/EEC, and the natural habitats listed in Annex I to Directive 92/43/EEC and the breeding sites or resting places of the species listed in Annex IV to Directive 92/43/EEC; and (c) where a Member State so determines, any habitat or species, not listed in those Annexes which the Member State designates for equivalent purposes as those laid down in these two Directives;	NOTES	EVALUATION	OVERALL JUDGEMENT
		LARGE SCALE ASSESSMENT			
		LOCAL SCALE ASSESSMENT			
		Only Natura 2000 Site			
		Inside or outside Natura 2000 Sites			

1

2

3

STATE

OBJECTIVE	INDICATORS	DESCRIPTION/THRESHOLDS	NOTES (European Level)	NOTES (National Level)	NOTES (Local/Site Level)	EVALUTATION	OVERALL JUDGEMENT

Practical Tables - WATER

IMPACT

OBJECTIVE	INDICATOR	DESCRIPTION	NOTES	EVALUATION	OVERALL JUDGEMENT
Precondition for the use of the tables for Water	IMPACT ON "Water Bodies" (or areas of water included in the water bodies) delineated by a Member State for the purpose of implementing the Water Framework Directive and the Marine Strategy Framework Directive (for coastal and territorial marine waters)	ALL WATERS	NOTES	EVALUATION	OVERALL JUDGEMENT
SURFACE WATERS **(skip this section only in case of groundwater)**					
COASTAL and MARINE WATERS **(skip this section only in case of inland surface waters and groundwater)**					
GROUNDWATER **(skip this section only in case of surface waters)**					

1

2

STATE

OBJECTIVE	INDICATOR	DESCRIPTION	NOTES	EVALUATION	OVERALL JUDGEMENT
		ALL WATERS	NOTES	EVALUATION	OVERALL JUDGEMENT
COASTAL and MARINE WATERS **(skip this section in case of inland surface waters and groundwater)**					
GROUNDWATER **(skip this section in case of surface waters)**					

3

Practical Tables - <u>LAND</u>

IMPACT

OBJECTIVE	INDICATORS	DESCRIPTION / THRESHOLDS	NOTES	EVALUATION	OVERALL JUDGEMENT
Precondition for the use of the tables for Land **1**	IMPACT on "Land" that potentially "contaminate" it by the introduction of substances, preparations, organisms or micro-organisms.				
Evaluate the existence (actual or theoretical) of a pathway between the source of potential damage and the human receptors					
Evaluate the existence of a Source-Pathway-Receptor linkage	**2**				
Evaluate the existence of harm to human health (independent of the number of people) and the relevance, reliability and quality of data / information on the impacts					

STATE

OBJECTIVE	INDICATORS	DESCRIPTION / THRESHOLDS	NOTES	EVALUATION	OVERALL JUDGEMENT
Know the baseline of land use, land type and substances/parameters					
Evaluate whether known baseline data are useful to demonstrate adverse effects on land	**3**				
Know the pre-existing pressure level on land					

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Practical Tables - PRESSURE (ALL)

OBJECTIVE	INDICATOR	DESCRIPTION	NOTES	EVALUATION	OVERALL JUDGEMENT
Precondition for the use of the tables for PRESSURE	**PRESSURE which complies with the temporal application of ELD (art. 17)**				
		LAND **(this section refers only to Land)**			
Describe the general characteristics and evaluate relevance, reliability and quality of data/information on the damaging occurrence and/or damage factors	Type of damaging occurrence *E.g. forest cuts, wood/plant fires, collection or removal of fauna/flora, water/groundwater withdrawals, civil works, extraction of quarry material, beach nourishment, discharges/spillages into surface waters/groundwater/land, abandoned/buried hazardous waste, unregulated/uncontrolled landfill, creation of road structures and setting up of renewable energy production plants, etc.*	Data/information not available			
		Non-compliance with obligations/emission limits, illegal activity (specify it)			
		Accident/Incident (specify it)			
		Other (specify it)			
	Timeline of the damaging occurrence	Data/information not available			
		Ceased			
		On-going – continuous			
		On-going – intermittent			
	Natural resource impacted by the damaging occurrence	Data/information not available			
		Data not relevant for the type of pressure identified			
		Air (specify it)			
		Water (specify it)			
		On, in, under land (specify it)			
		Protected habitats or species			
		Other (specify it)			
	Location of the damaging occurrence	Data/information not available			
		(Specify geographical coordinates and any useful information to demonstrate a connection with the site or route of the occupational activity: e.g. onshore/offshore, upstream, upwind, adjacent with, overlying, etc.)			
	Spatial extent of the damaging occurrence and damage factors	Data/information not available			
		Localised/Point source (specify it)			
		Widespread/Diffuse (specify it)			
	Type of adverse effect to the natural resource	Data/information not available			
		Direct (specify it)			
		Indirect (specify it)			
	Accuracy and reliability of data including sampling and analysis, procedures and quality assurance	Data/information not available			
		Adequate (Specify why: e.g. sampling and analysis of substances compliant with ISO/IEC 17025, sampling and analysis of hazardous wastes pursuing national/international standards, etc.)			
		Not adequate (specify why)			

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Practical Tables - DRIVER (ALL)

OBJECTIVE	INDICATOR	DESCRIPTION	NOTES	EVALUATION	OVERALL JUDGEMENT
Evaluate the link between the occupational activity and the adverse effects	Consistency of substances and quantities used / handled / produced by the occupational activity with the damage factors/adverse effects	Consistent with the characteristics of the damage factors/adverse effects			
		Not consistent with the characteristics of the damage factors/adverse effects			
		No substances used/handled/produced			
		Not relevant			
		Data/information not available			
	Consistency of operations carried out at the occupational activity with the damage factors/adverse effects	Consistent with the characteristics of the damage factors/adverse effects			
		Not consistent with the characteristics of the damage factors/adverse effects			
		Not relevant			
		Data/information not available			
	Consistency of waste type, composition and quantities managed / produced with the damage factors/adverse effects	Consistent with the characteristics of the damage factors/adverse effects			
		Not consistent with the characteristics of the damage factors/adverse effects			
		No waste managed/produced			
		Not relevant			
		Data/information not available			
	Consistency of pumping / diversion/or other surface or groundwater flow modification with the damage factors/adverse effects	Consistent with the characteristics of the damage factors/adverse effects			
		Not consistent with the characteristics of the damage factors/adverse effects			
		There are no pumping / diversion / or other water flow modifications			
		Not relevant			
		Data/information not available			
	Consistency of type, composition and quantities of discharges to water or land with the damage factors/adverse effects	Consistent with the characteristics of the damage factors/adverse effects			
		Not consistent with the characteristics of the damage factors/adverse effects			
		There are no discharges to water or land			
		Not relevant			
		Data/information not available			
	Potential exposure of natural habitats and protected species, surface waters, groundwater or land to adverse effects (only affected resources have to be considered)	Yes (specify why)			
		No (specify why)			
		Data/information not available			
		Not relevant			
	Presence of other activities which could be associated with the damaging occurrence/damage factors or the type of damage factors/adverse effects	Yes (specify why)			
		No (specify why)			
		Data/information not available			
		Not relevant			

Objective — *Indicator* — *Description/ threshold of the indicator* — *Values of Indicators* — *Evaluation on the single objective* — *Judgement on the DRIVER component*

1

2

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Colour Code – Notes, evaluation, Overall Judgement

Colour code for the "Notes" and "Evaluation" columns
Favourable to the identification of the clue (text box)
Unfavourable to the identification of the clue (text box)
Data/information not available (express the possibility/legitimity/needs/benefits of collecting/requiring further data/information) (text box)
Auxiliary data/information (text box)
Not available data/information (empty box)
Not relevant data/information (empty box)

Colour code for the "Overall Assessment" column
Clues of environmental damage (text box)
Absence of clues of environmental damage (text box)
Data/information to identify clues of damage not sufficient (express the possibility/legitimity/needs/benefits of collecting/requiring further data/information through further investigations) (text box)

Practical Tables - OUTPUT

DESCRIPTION and JUDGEMENT OF THE CASE	
Site/location	
Damaging Occurrence	
Damage Factors	
Natural Resources Impacted	
Adverse Effects on Reference Concepts	
Other Available Data/information	
Overall Judgement	
Further Investigations Required	

In the overall judgement box the types of clues determined - *CLUES OF NATURAL RESOURCE (CNR) or CLUES OF DAMAGING OCCURRENCE AND DAMAGE FACTORS + NATURAL RESOURCE (CDODF+NR)* - should be indicated and a brief description of the outcomes should be provided

IMPEL CAED Project

Training Session
BREAK of 15 minutes UNTIL
11:52 CET

Francesco Andreotti

Italian National Institute for the Environmental Protection and Research (ISPRA), Italy

IMPEL CAED Project Manager