

# Knowledge of Environmental State and Its Characterization Through the Description of Environmental Elements (Use of Indicators)

**Ms. Marilena Flori**

APAT

Agency for Environmental Protection and Technical Services

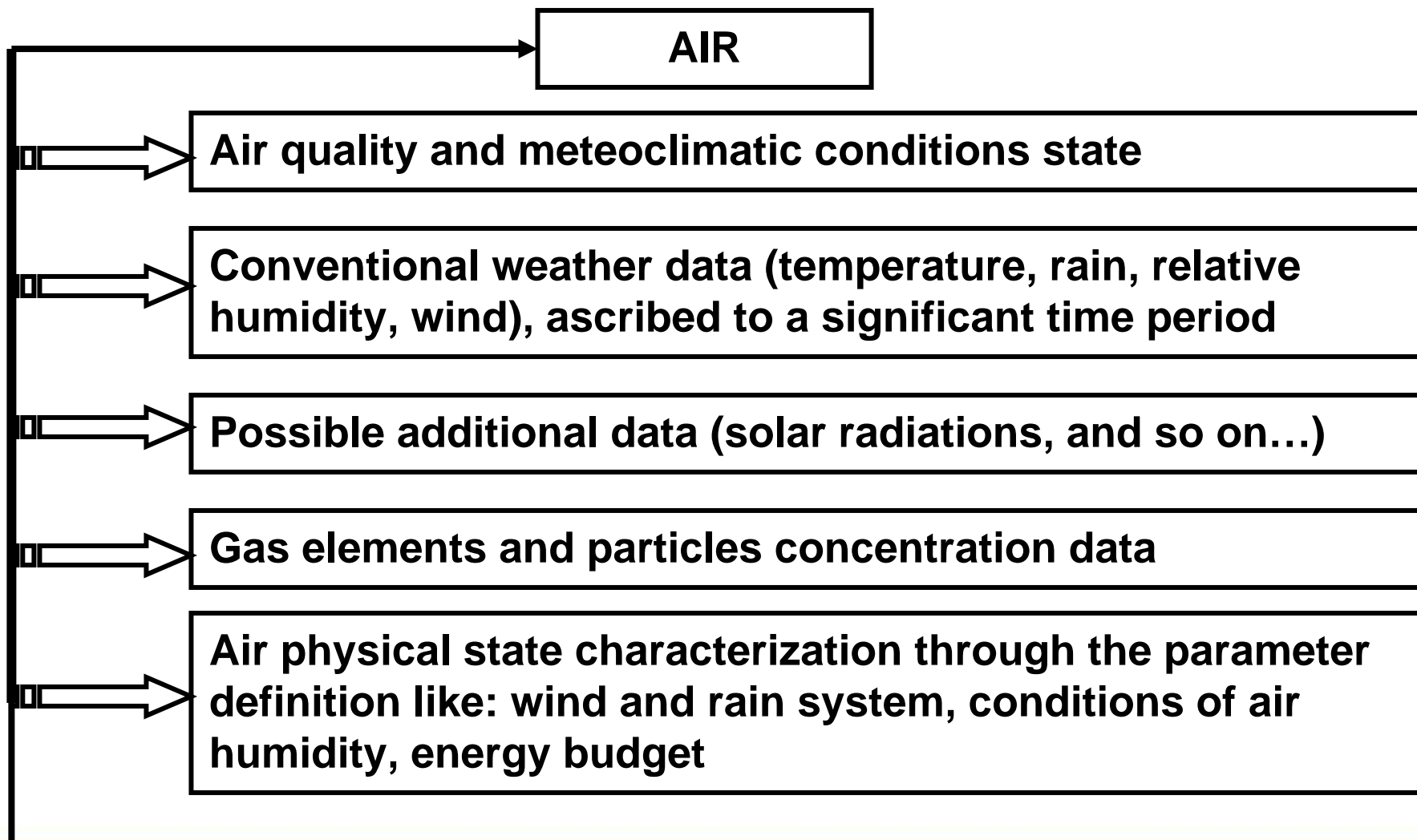
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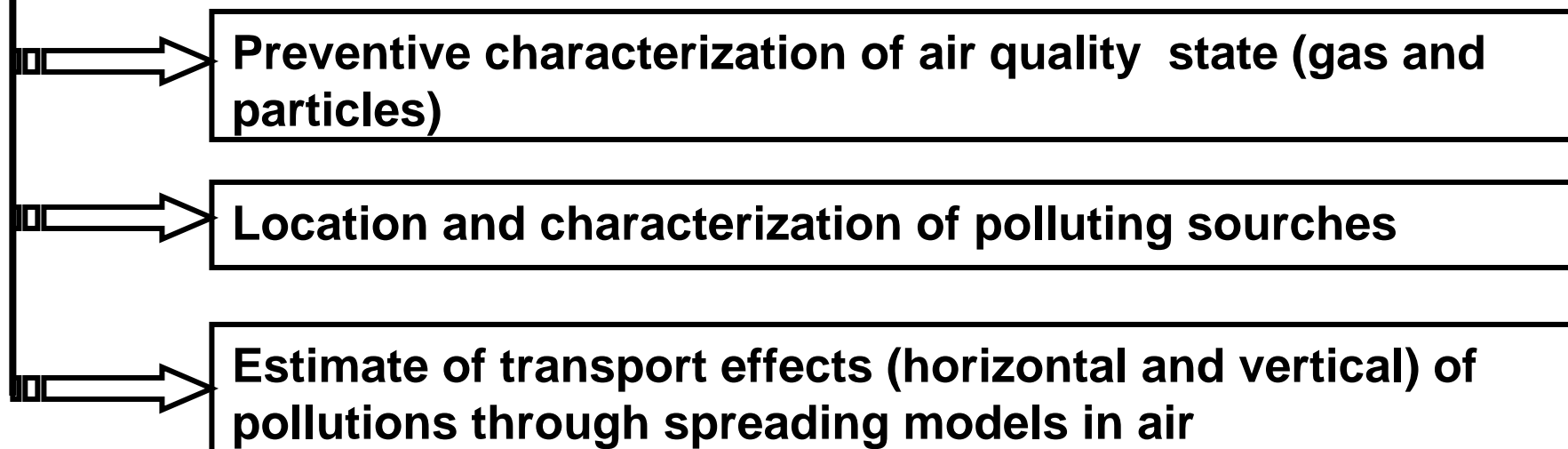
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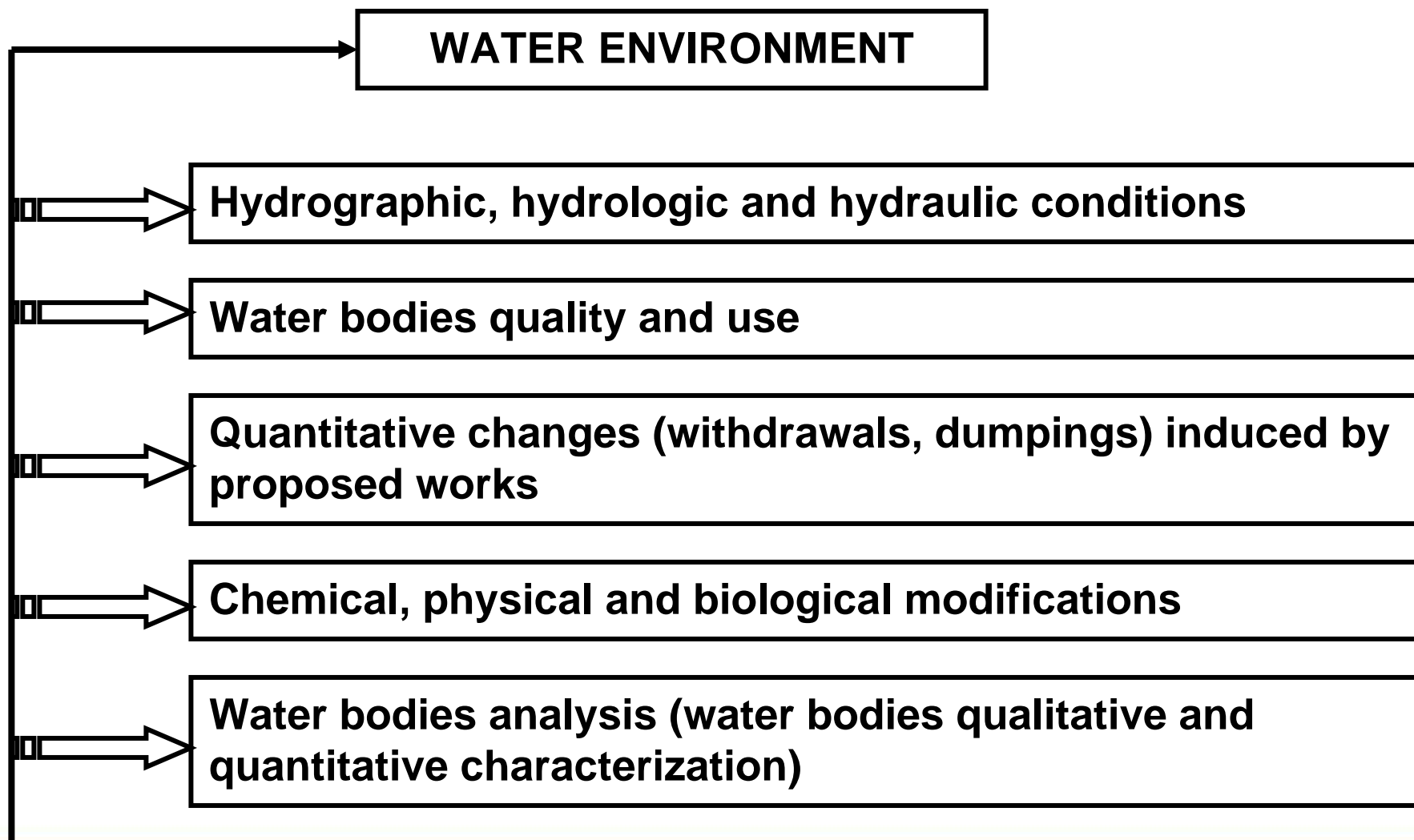
# 1. Characterization and analysis of environmental elements – Air (a)



# 1. Characterization and analysis of environmental elements – Air (b)



## 2. Characterization and analysis of environmental elements – Water Environment (a)



## 2. Characterization and analysis of environmental elements – Water Environment (b)

River systems, waves phenomena and sea stream characterization

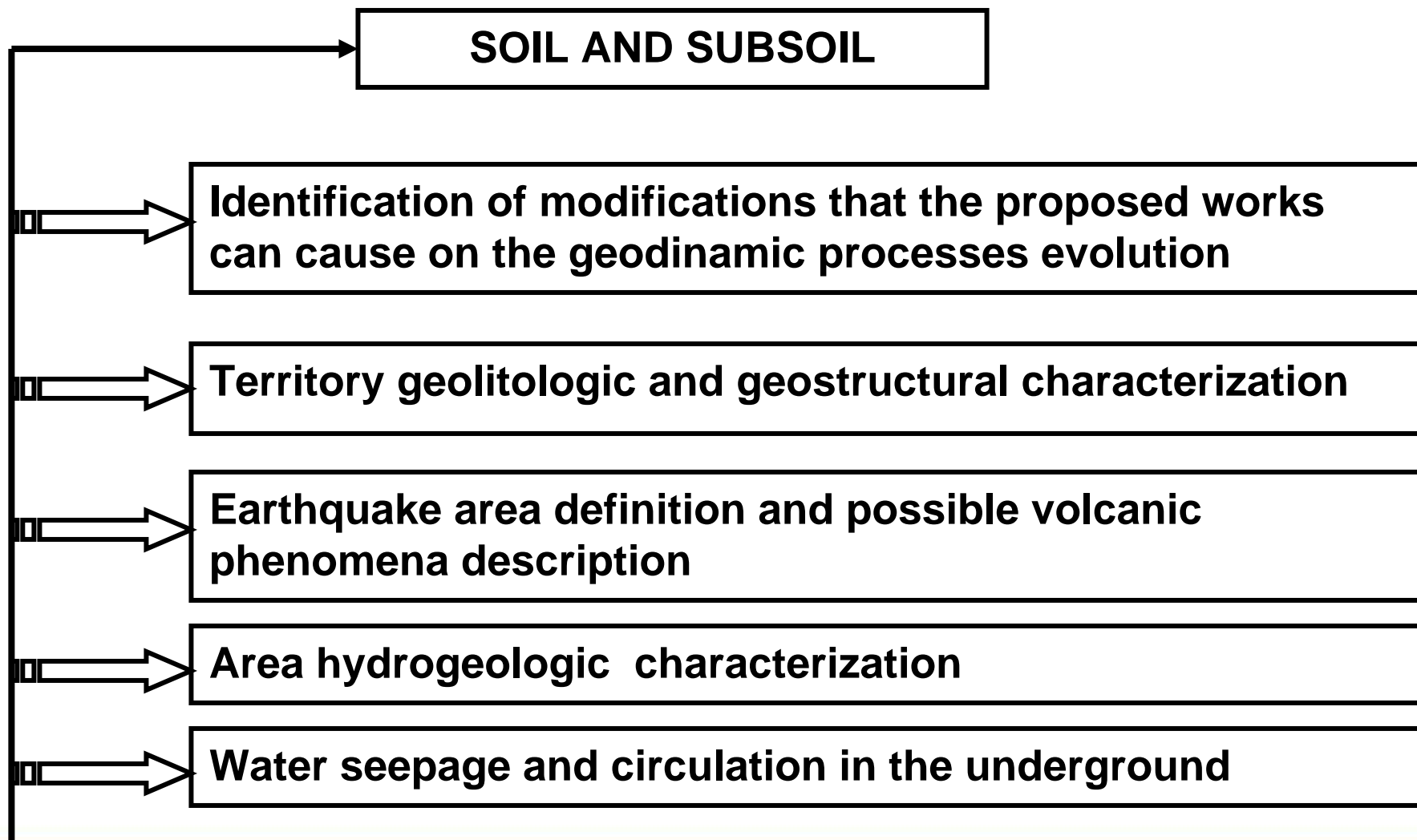
Naturale solid transport, also with regard to the coasts wash

Polluting weight assessment

Polluting souches location and characterization

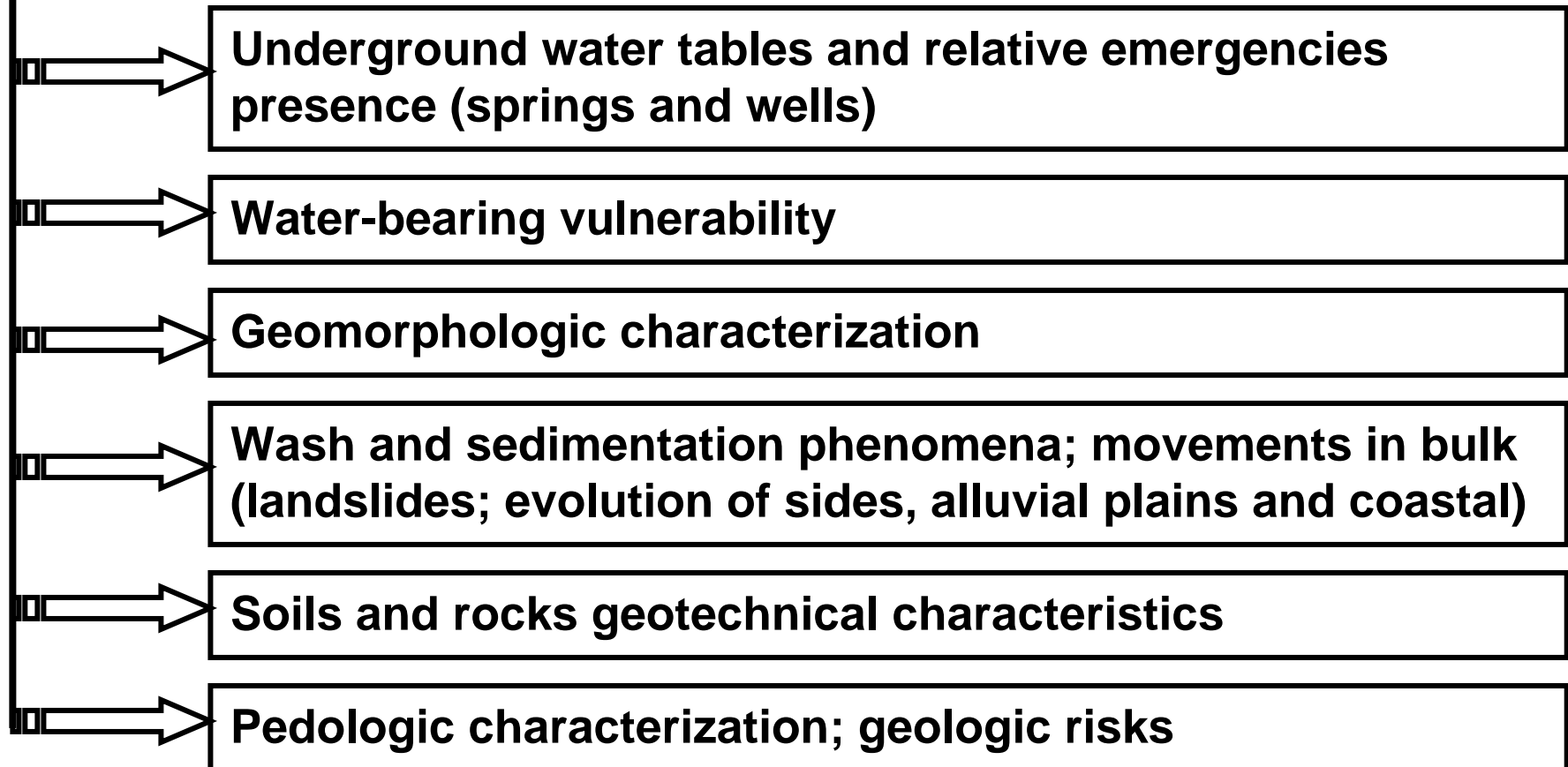
Present and foreseen uses definition

### 3. Characterization and analysis of environmental elements – Soil and subsoil (a)

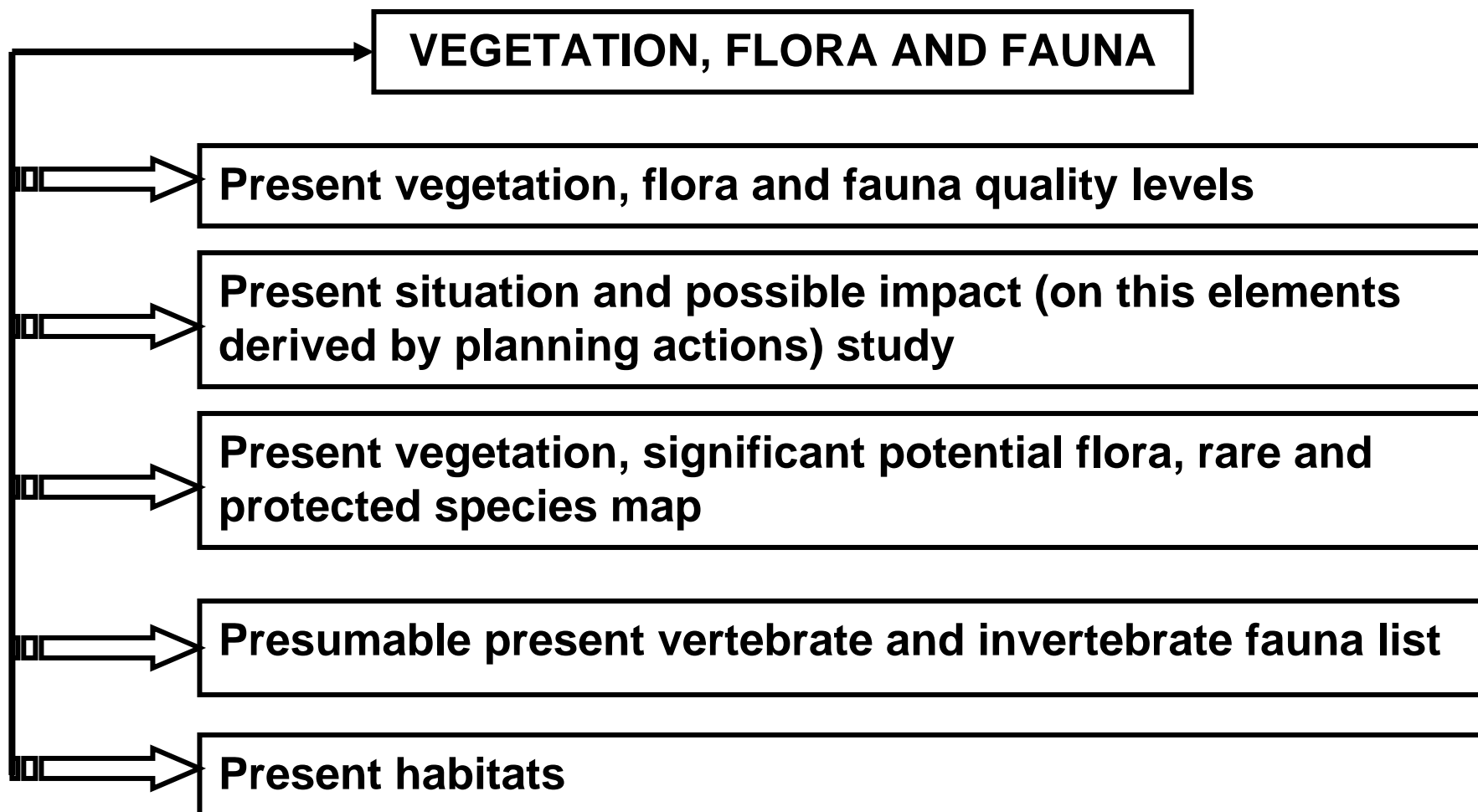




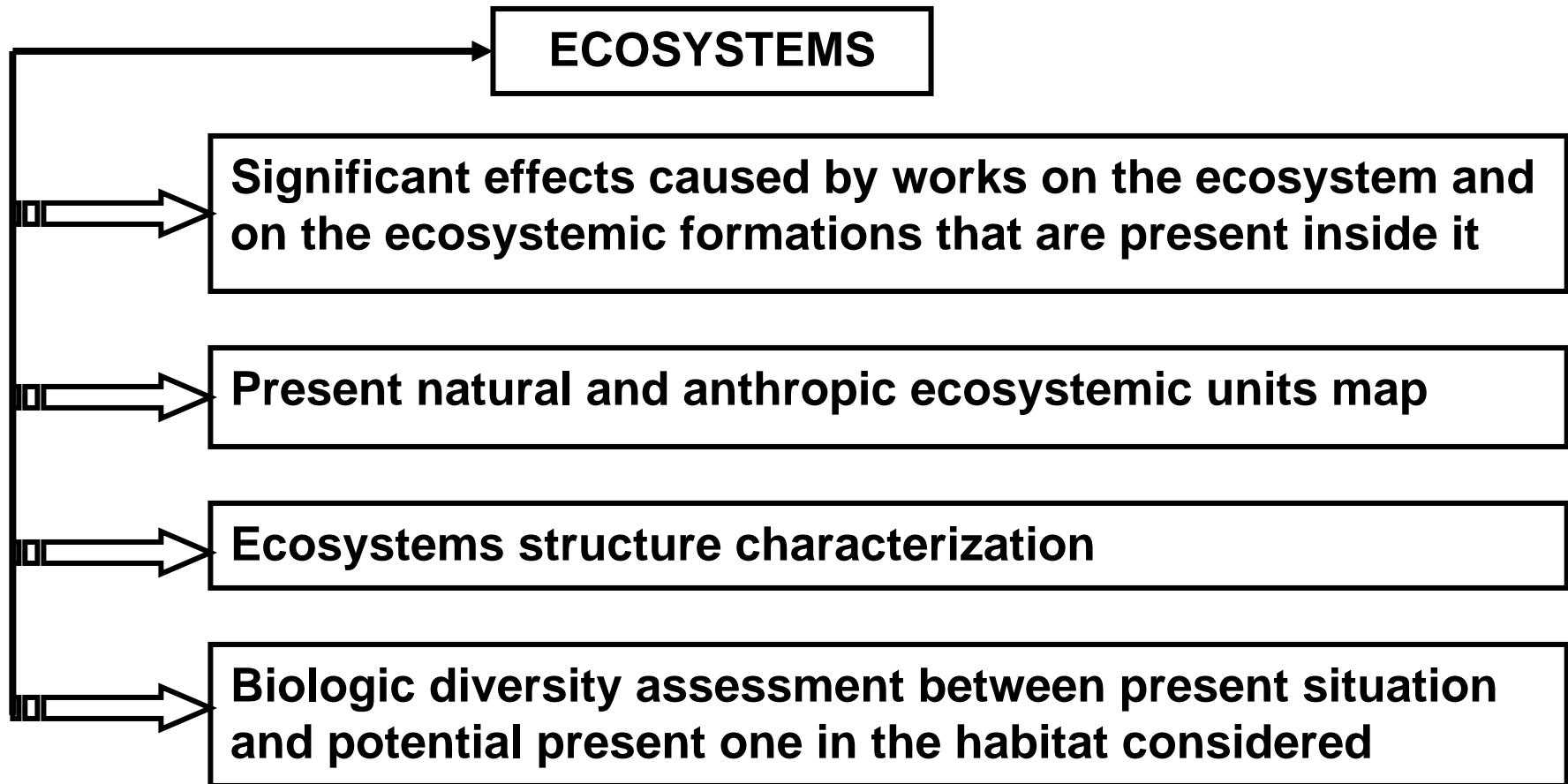
### 3. Characterization and analysis of environmental elements – Soil and subsoil (b)



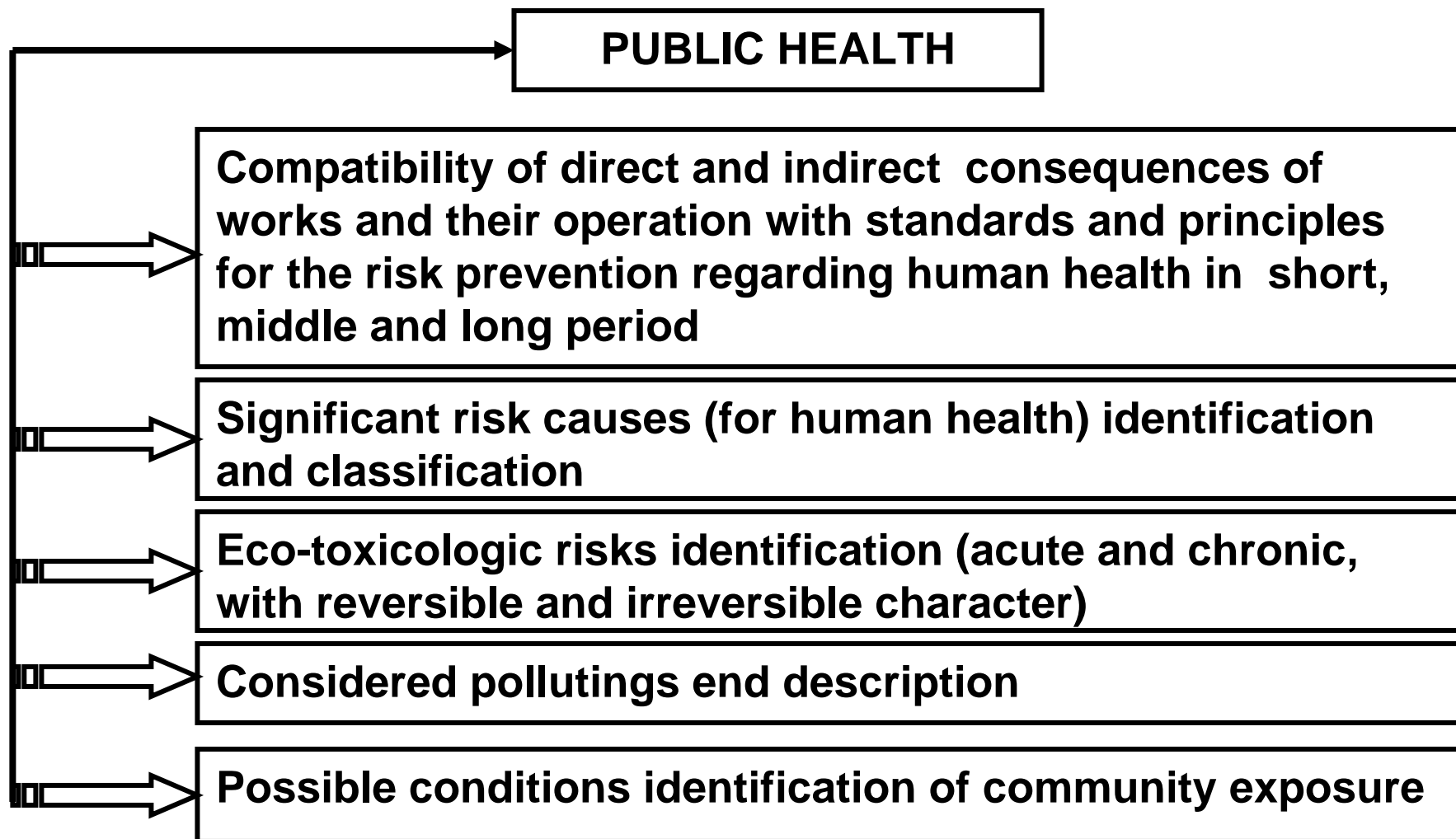
## 4. Characterization and analysis of environmental elements – Vegetation, flora and fauna



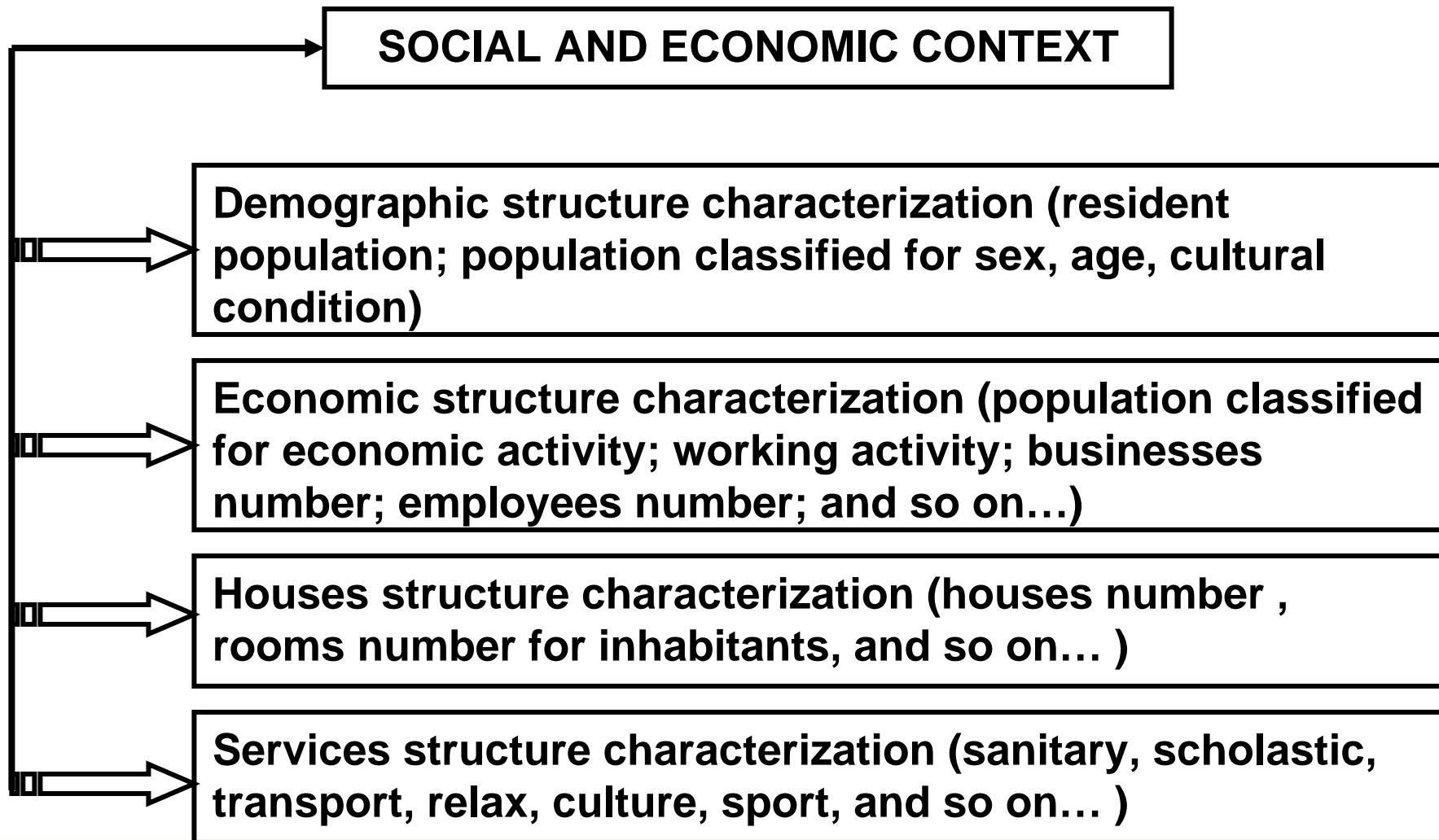
## 5. Characterization and analysis of environmental elements – Ecosystem



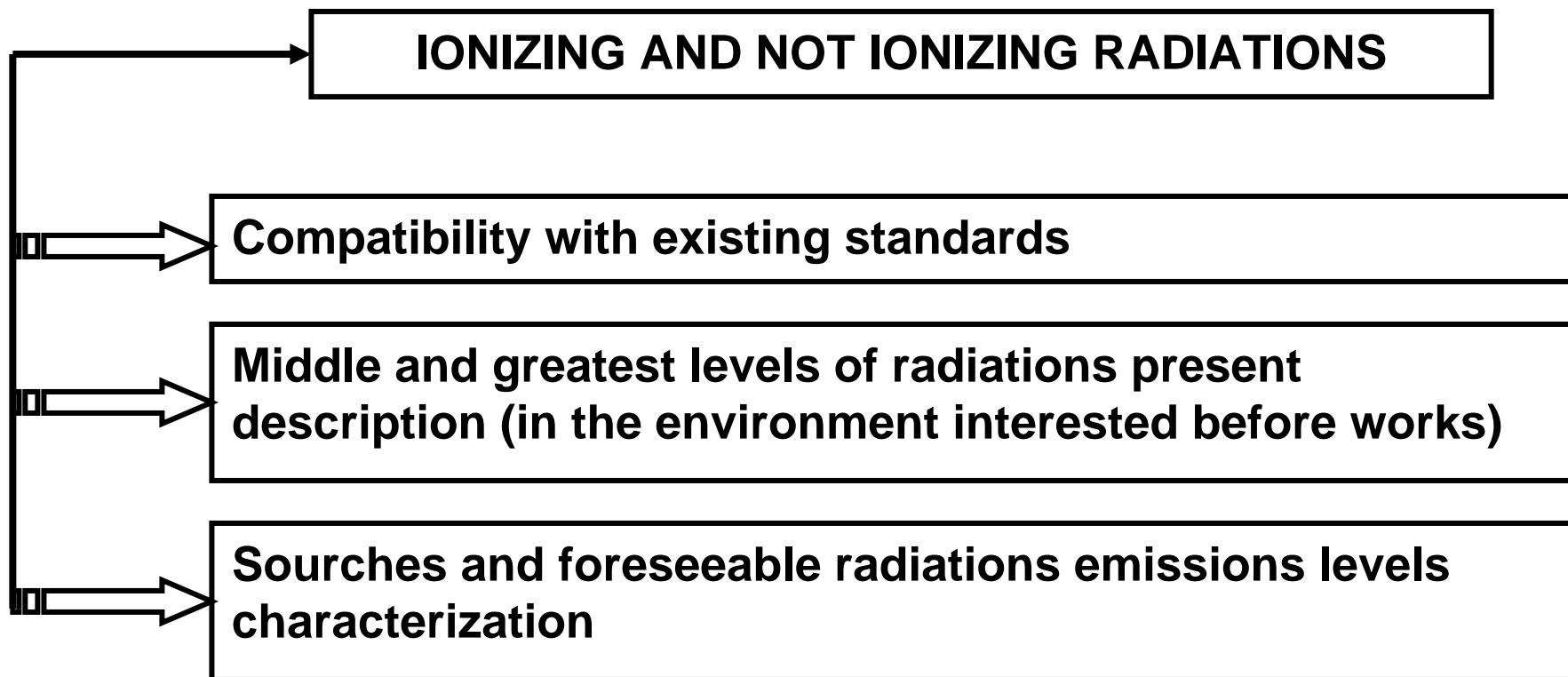
## 6. Characterization and analysis of environmental elements – Public health



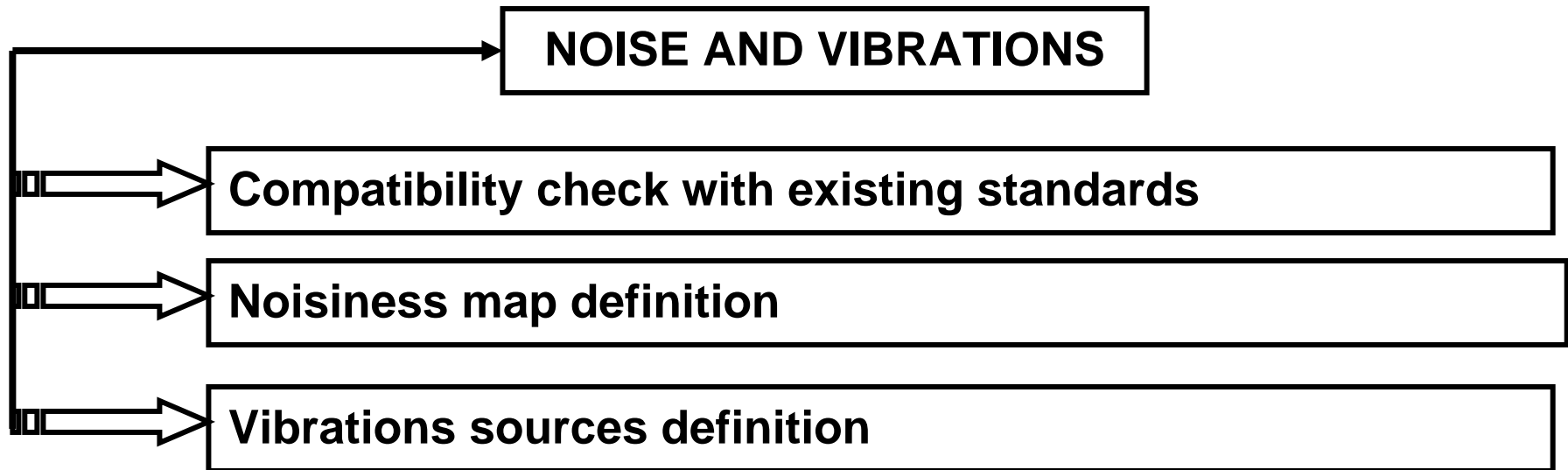
## 7. Characterization and analysis of environmental elements – Social and economic context



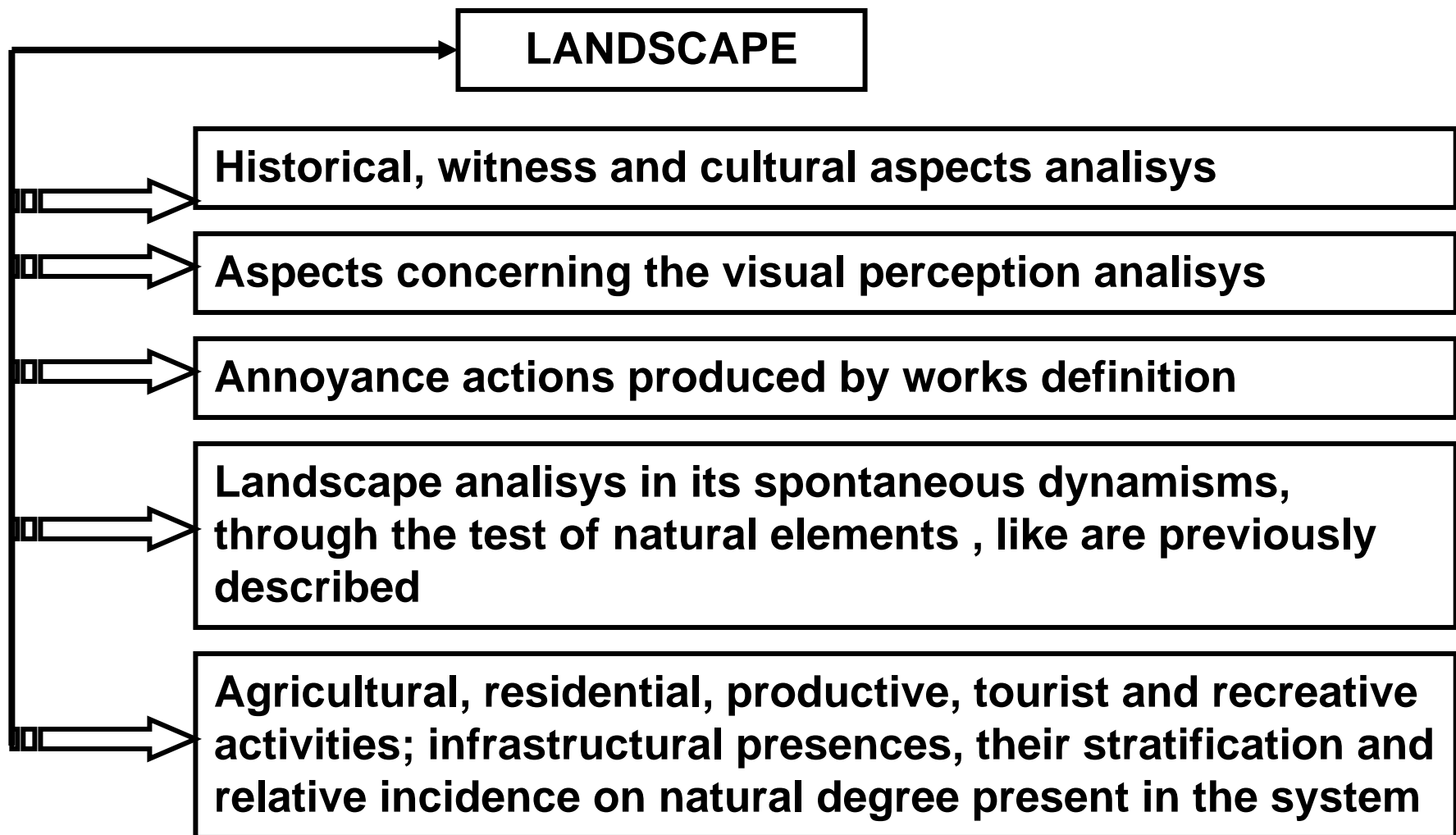
## 8. Characterization and analysis of environmental elements – Ionizing and not ionizing radiations



## 9. Characterization and analysis of environmental elements – Noise and vibrations

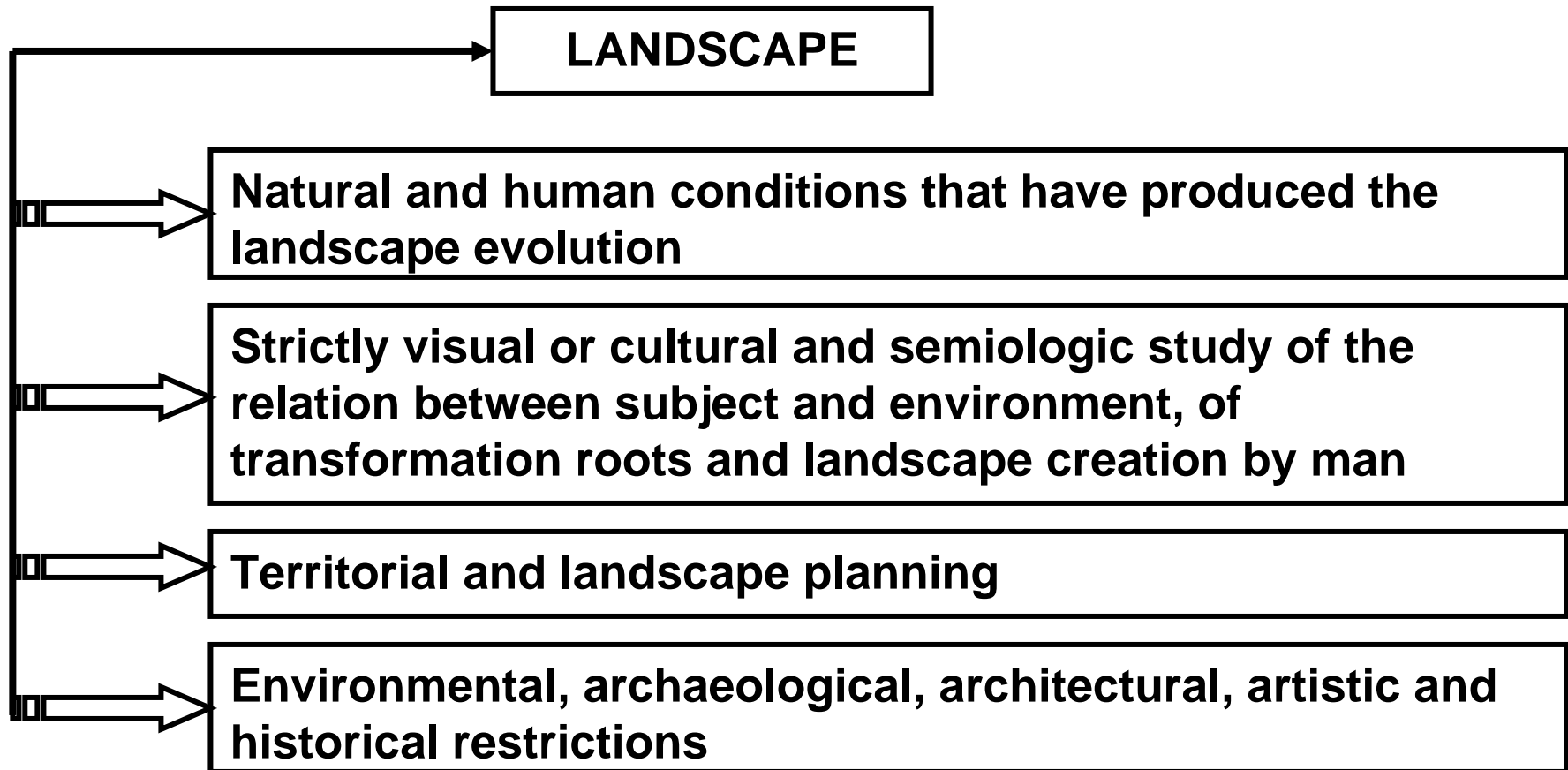


## 10. Characterization and analysis of environmental elements – Landscape (a)



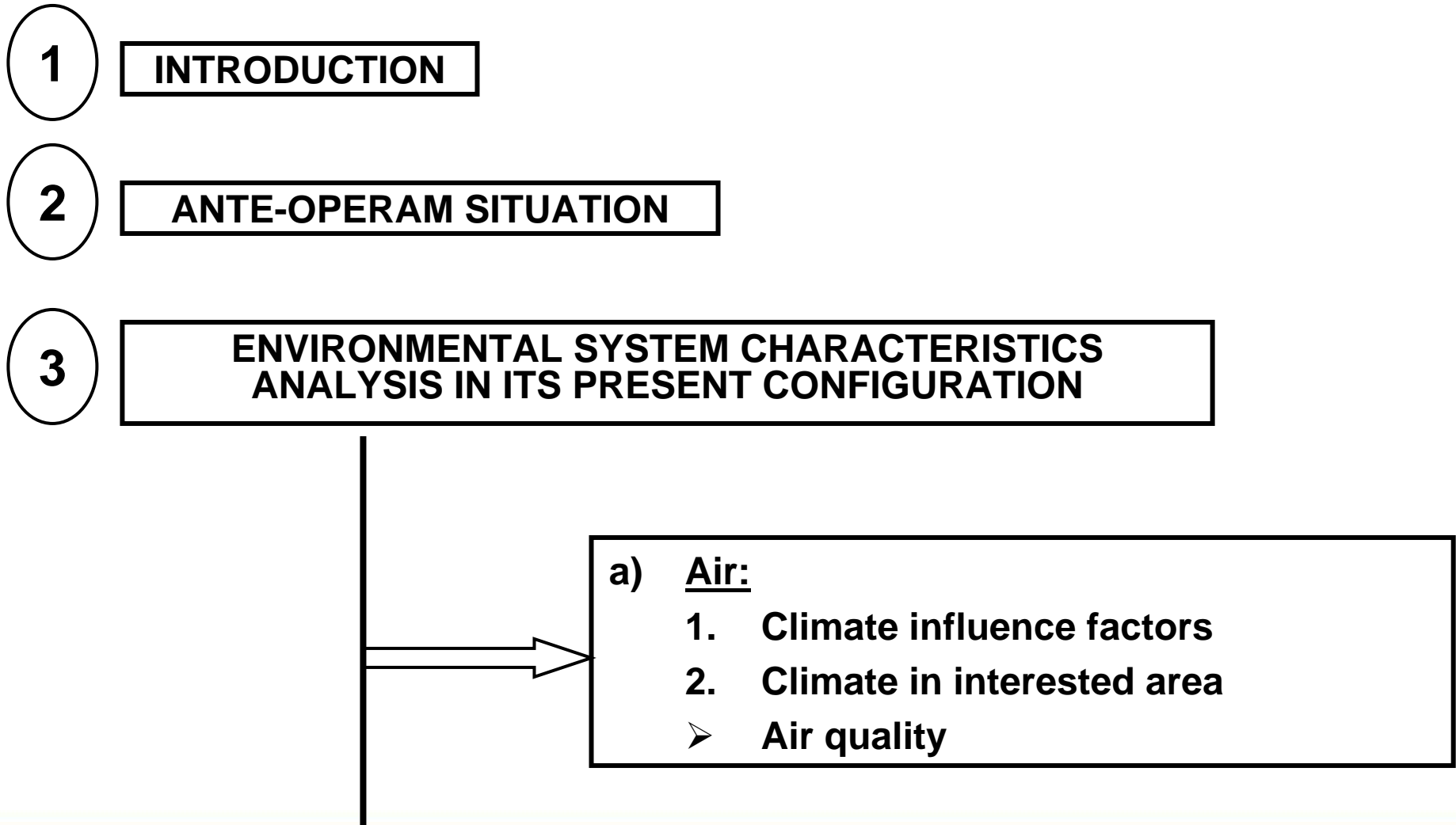


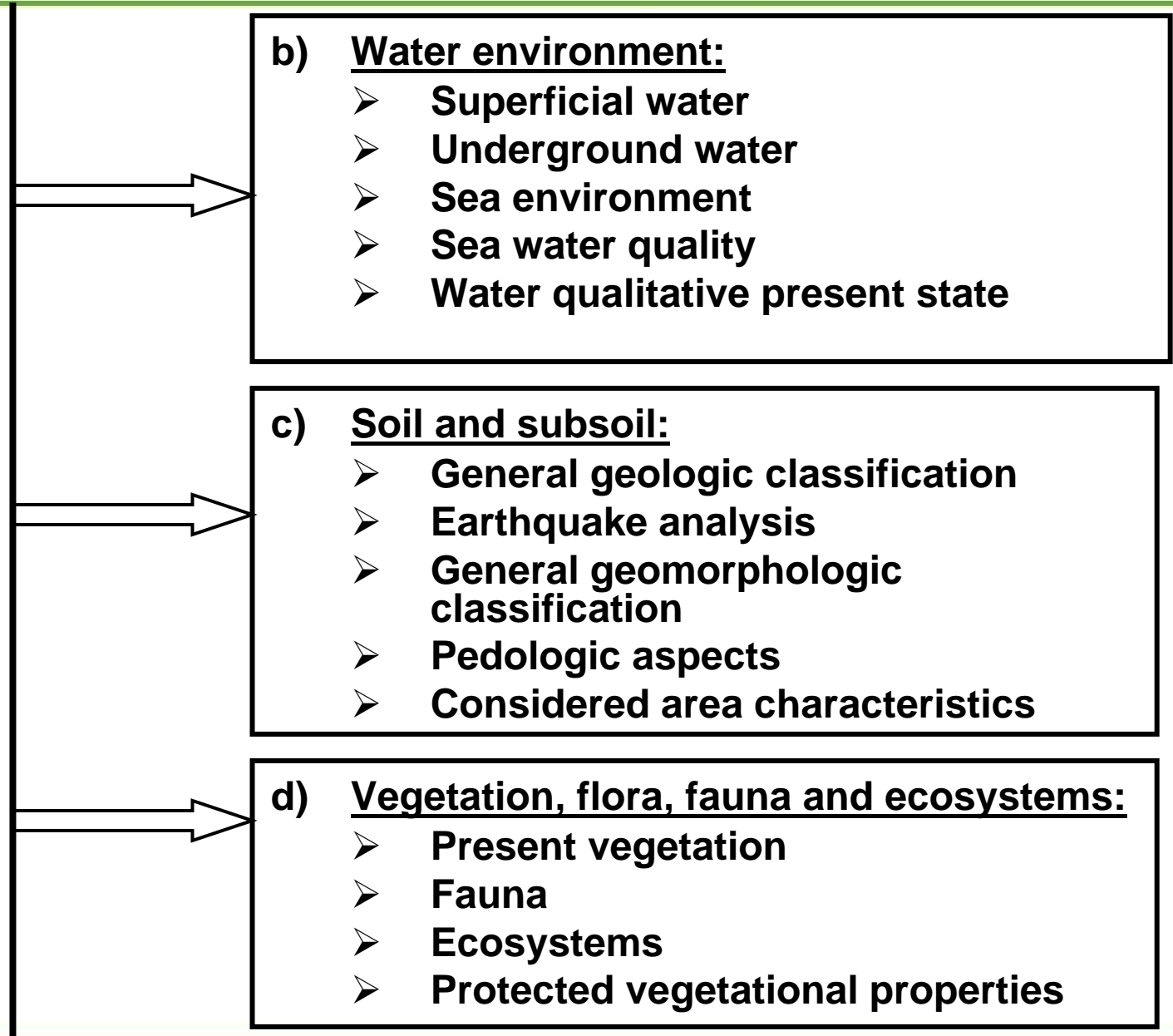
## 10. Characterization and analysis of environmental elements – Landscape (b)

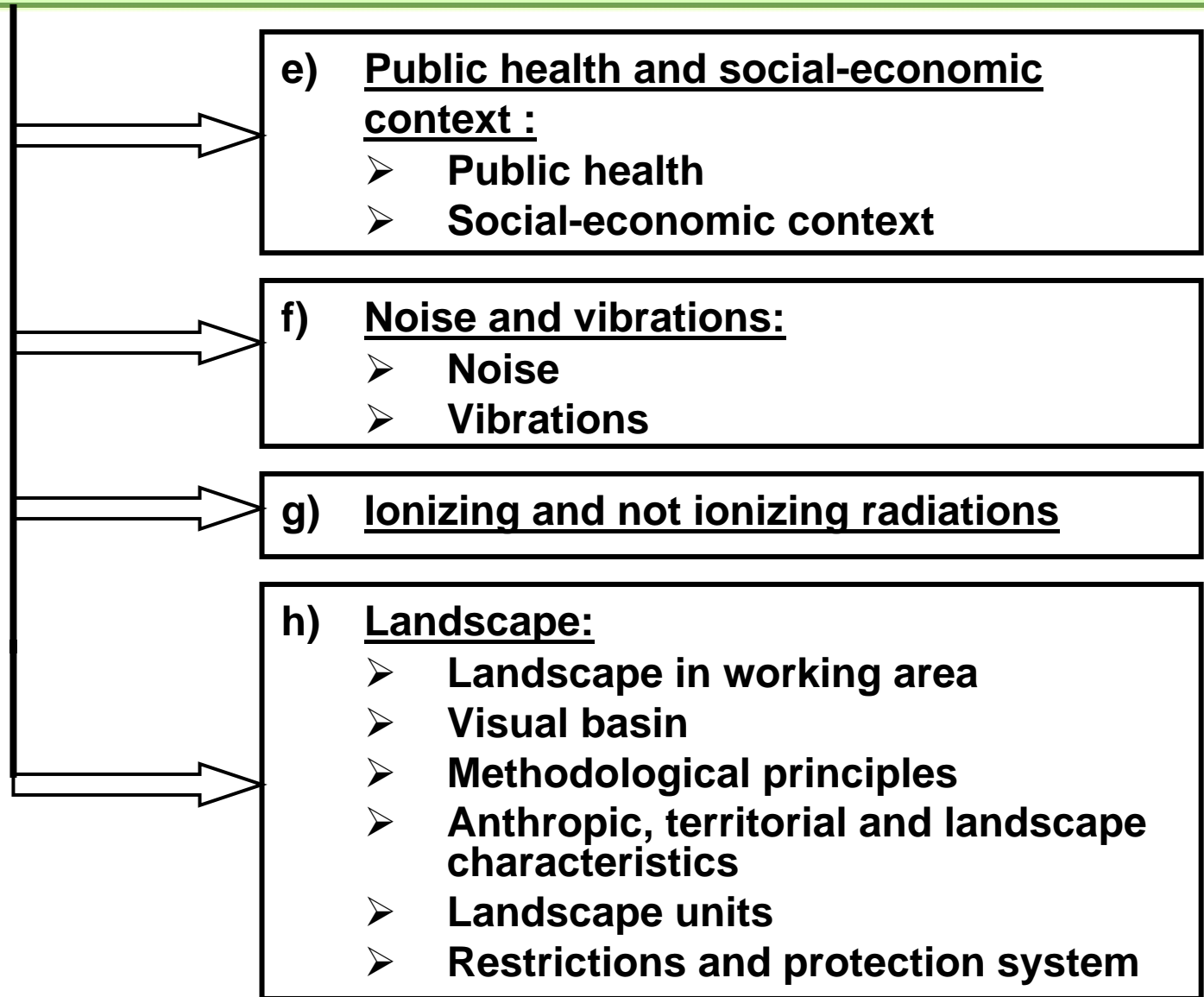


# 11. Example of environmental phase report contents

## First part (cognitive phase)







## 12. Contribution to Working group n. 1

In the previous slides I have synthesized :

- Environmental elements characterization  
and I have described:
- An example of report contents about the environmental phase  
(specific for all the single elements)

These informations let us give the second contribution to Working Group n. 1\_“Perform an environmental sensitive analysis for a defined project of a port using EIA methodology” :

Characterization of environmental elements by means of indicators

## 12. Contribution to Working group n. 1

The following form (concerning the environmental phase) will be assigned and compiled by participants (associated in groups)

ELEMENTS	FACTORS	INDICATORS
AIR	Climate	
	Air quality	
WATER ENVIRONMENT	Underground water	
	Superficial water	
	Sea water	
SOIL AND SUBSOIL	Soil	
	Subsoil	
VEGETATION, FLORA AND FAUNA	Vegetation and flora	
	Fauna	
ECOSYSTEMS	Ecosystems	
PUBLIC HEALTH	Human health	
	Social-economic context	
NOISE AND VIBRATIONS	Noise	
	Vibrations	
IONIZING AND NOT IONIZING RADIATIONS	Not ionising radiations	
	Ionising radiations	
LANDSCAPE	Natural heritage	
	Anthropic heritage	
	Visual and perceptive context	

## 12. Contribution to Working group n. 1

EIA PHASES (knowledge)	DOCUMENTS		
	REPORTS (*)	MAPPINGS (**)	TABLES, GRAPHS, and so on...
AIR			
WATER ENVIRONMENT			
SOIL AND SUBSOIL			
VEGETATION, FLORA AND FAUNA			
ECOSYSTEMS			
PUBLIC HEALTH			
NOISE AND VIBRATIONS			
IONIZING AND NOT IONIZING RADIATIONS			
LANDSCAPE			

Application of EIA methodological scheme concerning the environmental phase (knowledge) to some possible planning typologies of works in coastal areas (a port, an industry and a tourist-hotel or residential centre....)

(\*) To indicate typical contents

(\*\*) To indicate the type of mappings, the description scale, a typical legend