

Workshop on project preparation process  
with reference to EU and WBI requirements

# Approach to the preparation of Pre-feasibility Studies and Feasibility Studies

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# Topics to be discussed

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- Approach to the preparation of Pre-feasibility Studies (PFS) and Feasibility Studies (FS)
- Scoping of PFS and FS – typical contents and requirements regarding:
  - Relevance of planning documents
  - Terrain studies (investigation works)
  - **Identification and comparison of alternatives**
  - **Climate change vulnerability and risk assessment**
  - **Qualitative risk assessment**
  - **Demand analysis**
  - Environmental analyses
  - CBA (and cost-effectiveness)
  - Design work
  - Cost estimates

# Contents of today's presentations

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- **Session 2:**
  - Approach to the preparation of Pre-feasibility Studies (PFS) and Feasibility Studies (FS)
  - Qualitative risk assessment
- **Session 3:**
  - Climate change vulnerability and risk assessment
- **Session 4:**
  - Identification and comparison of alternatives
  - Demand analysis

# Stages of project preparation

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- Pre-feasibility studies
- Feasibility studies (often with preliminary design)
- Detailed design
- Environmental and Social Impact Assessment (ESIA)
- Other administrative activities

# Pre-feasibility Study

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- Project context and study scoping
- Definition of **objectives**
- Study of the constraints
- Definition of **alternatives**
- Comparison of alternatives

**Problems:** limited time and resources devoted to this stage; poorly defined objectives; poorly performed comparison of alternatives

# Feasibility Study (1/2)

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- Definition of objectives and study scoping
- Terrain studies
- Environmental study
- Climate change vulnerability and risk assessment
- Road safety impact assessment
- Qualitative risk analysis
- Design of alignment options
- Cost estimates

# Feasibility Study (2/2)

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- Demand forecast
- Option analysis
- Preliminary design of preferred option
- Road safety audit
- Cost-benefit analysis (preferred option)
- Environmental procedures

**Problems:** limited time and resources devoted to the stage (hence **poor terrain studies**); poorly defined project objectives; **poorly performed comparison of alternatives**

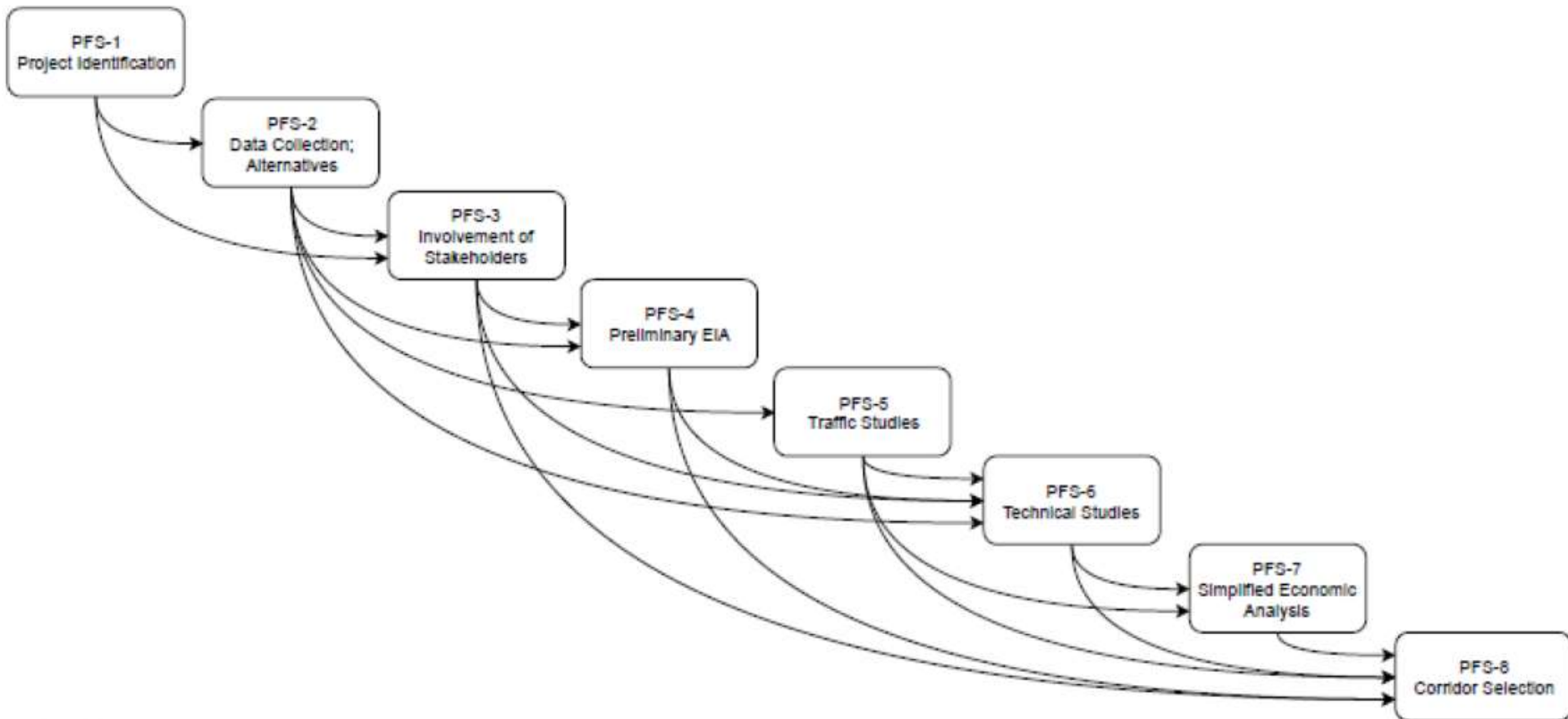
# PFS and FS – a comparison

	<b>Prefeasibility Study (PFS)</b>	<b>Feasibility Study (FS)</b>
<b>Definition</b>	An <b>overview study</b> aimed at studying the objectives	<b>Detailed analyses</b> of economic and technical feasibility of options
<b>Policy Analysis</b>	Examination of macro aspects of the project	Not applicable in most cases
<b>Economic Analysis</b>	<b>Simplified analysis</b> to determine the scope of detailed FS	<b>Precise and detailed analysis</b> of two or more options; demonstrates the feasibility of the preferred option
<b>Technical feasibility analysis</b>	Mostly based on existing <b>literature</b> and studies	Detailed technical analyses, e.g. topographical, geotechnical, hydrogeological, hydraulic; costs estimation; environmental impacts
<b>Options</b>	<b>Fundamentally different</b> ; should be possible to differentiate between them using mostly <b>qualitative</b> criteria.	The options should be similar enough to allow comparison using <b>quantitative</b> criteria

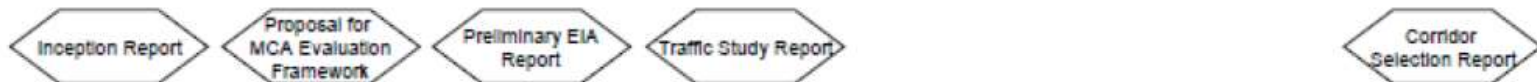


# Pre-feasibility Study Workflow

## Workflow

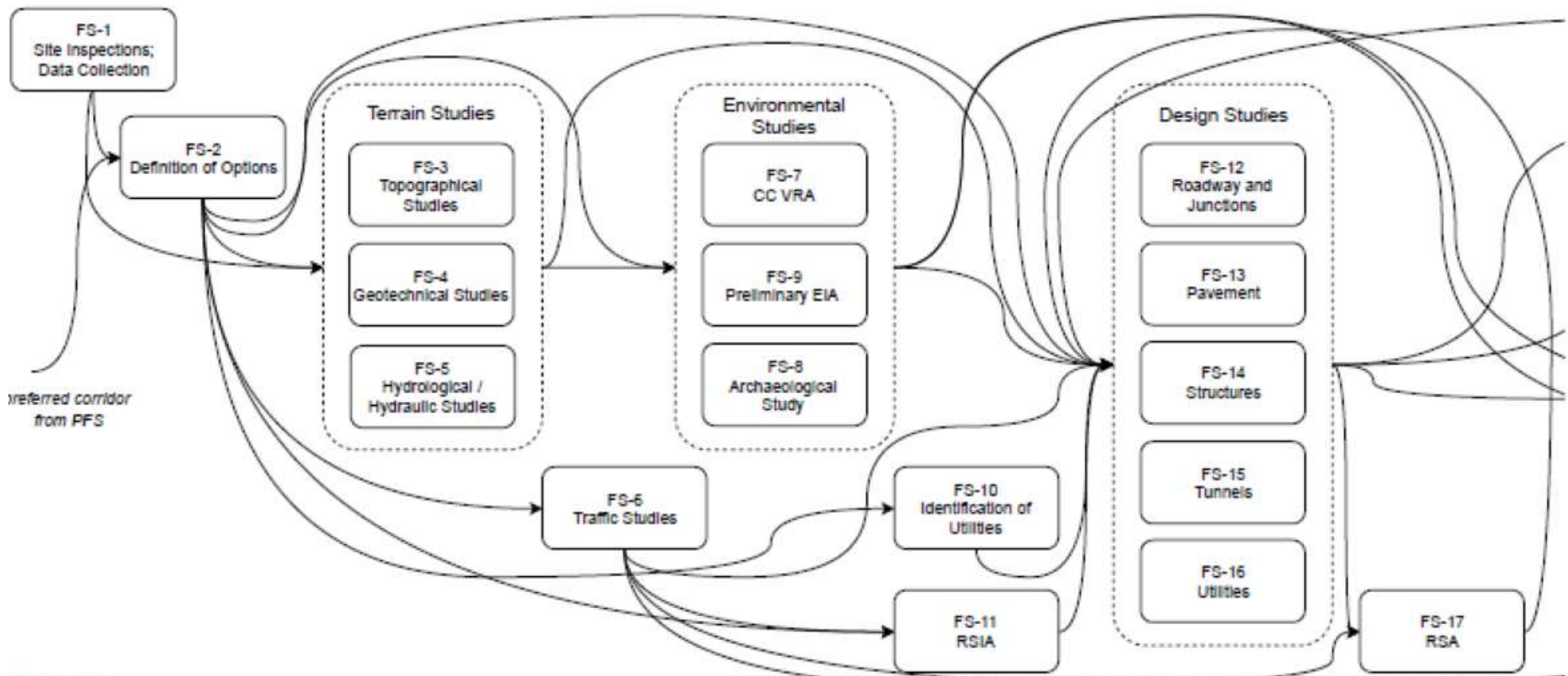


## Deliverables

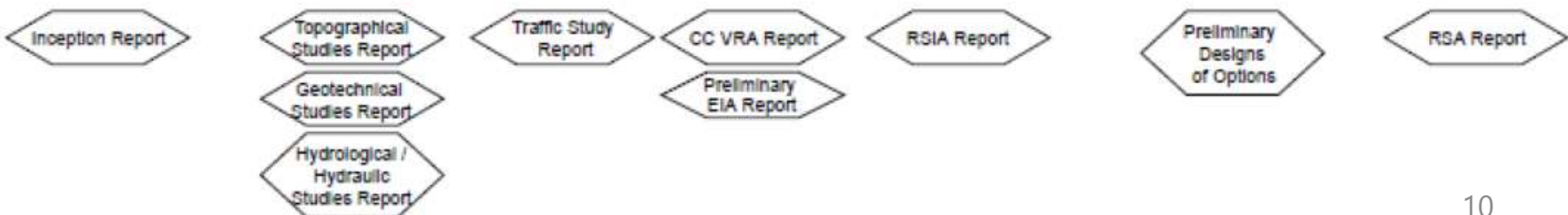


# Feasibility Study Workflow (1/2)

## Workflow



## Deliverables



# Feasibility Study Workflow (2/2)

