



Mawlamyine University

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Module Name: Environmental Impact Assessment (EIA)

Module Number: BioCEP-612

Unit (1)

GENERAL PROCESS OF ENVIRONMENTAL IMPACT ASSESSMENT (EIA)

By

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Outlines

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graph LR; A[Outlines] --- B[I. Objectives and learning outcomes]; A --- C[II. General procedure of EIA]; A --- D[III. Summary];
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I. Objectives and learning outcomes

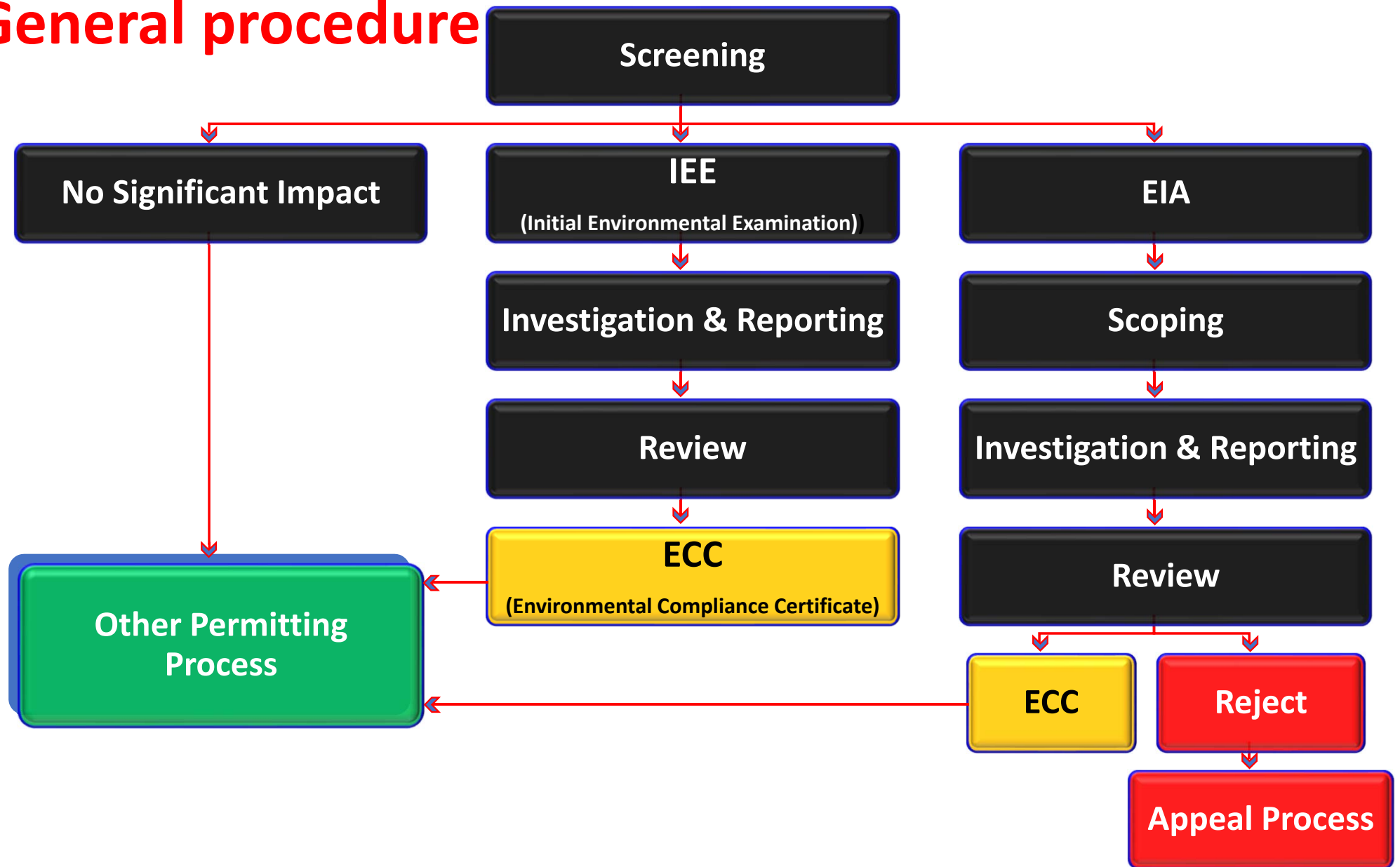
II. General procedure of EIA

III. Summary

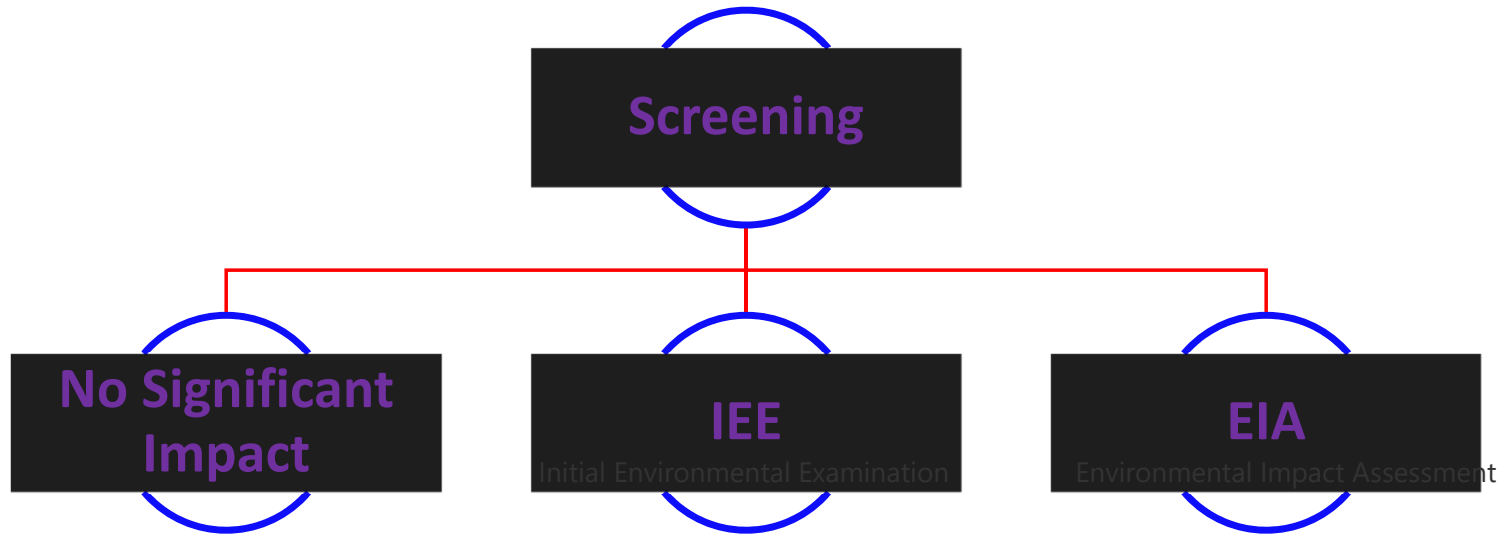
I. Objectives and Learning Outcomes

- To understand general concept and procedure of EIA
- Students can distinguish between initial environmental examination (IEE) and EIA
- Students should be able to describe the fundamental processes of EIA and ability to evaluate some issues associated with EIA procedure.

II. General procedure



1. Screening



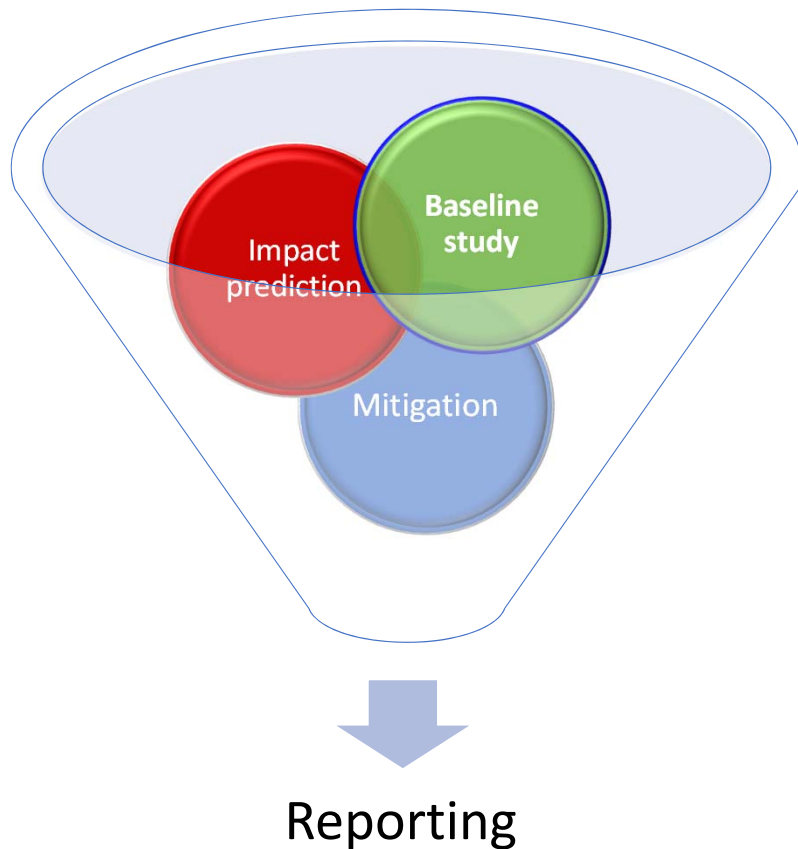
- First stage of EIA
- Key decision- conduct the assessment or not
- Level of impact
- Identify type of project, size and potential impact (Central America)
- Standardized & Customized approaches

2. Scoping



- Relevant issues and factors, including cumulative effects, social impacts, and health risks
- Public engagement and review
- Time and space boundaries of the EIA
- Important issues to be considered in the EIA, such as setting the baseline and identifying alternatives.

3. Investigation and reporting



- **Baseline study** – original status of environment
- **Impact prediction** - detailed evaluation of the environmental and social impacts
 - Qualitative and quantitative descriptions
- **Mitigation** - minimizing or avoiding the described impacts
 - Preventive measures
 - severity and the duration of the impacts
 - Compensation mechanisms
- **Report** - outcomes of the assessment and proposed mitigation actions

Some EIA - Terms of Reference

European Union

- Contact details
- Characteristics
- Location
- Potential impact
- Nature of the impacts
- Extent of the impact
- Risk analysis
- Mitigation options
- Monitoring plan

World bank

- Alternatives
- Baseline data collection
- Formulation of environmental management plan
- Resettlement action plan

International development bank

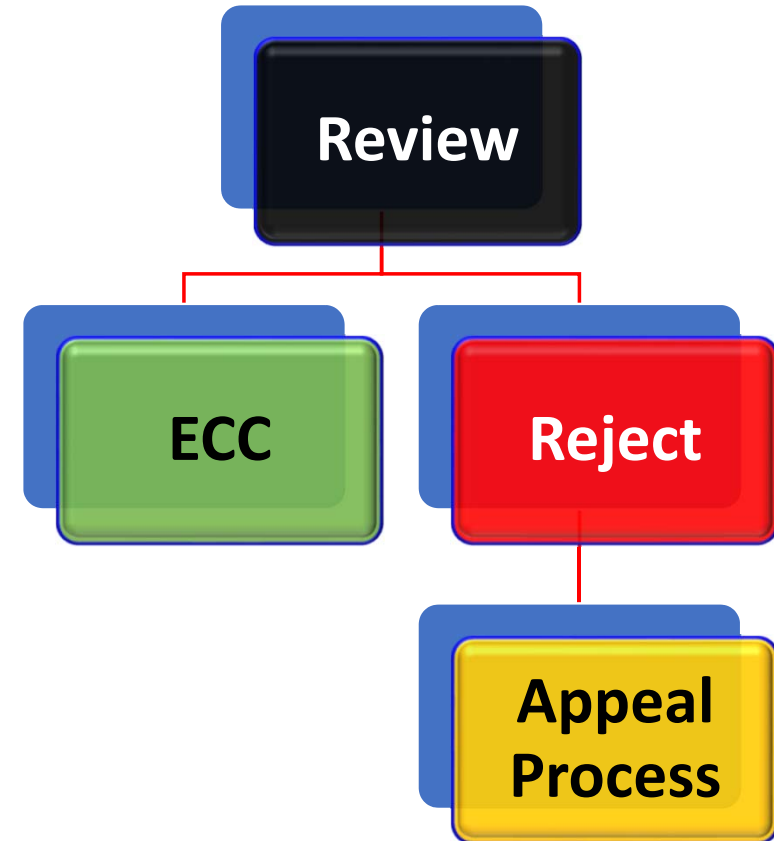
- Legal and regulatory framework
- Disaster risk summary
- Economic analysis

Source: [IDB, 2011; World Bank, 1999; European Union, 2011](#)

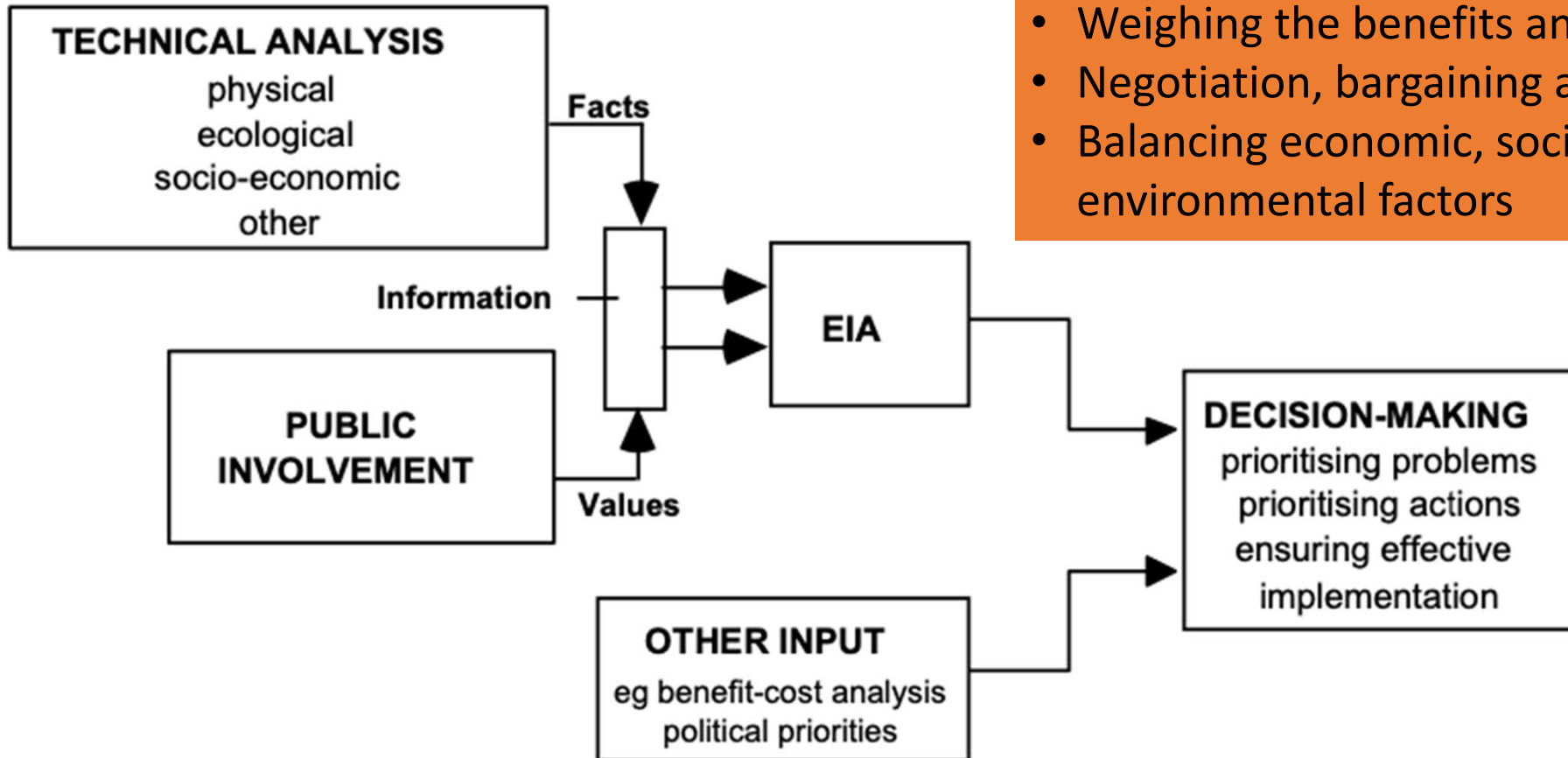
4. Reviewing

The key objectives

- Assess the adequacy and quality
- Take into account public comments
- Determine if the information is sufficient for a final decision to be made
- Identify any deficiencies that must be addressed before the report can be submitted



5. Decision-making



Process of:

- Political choice between alternative directions
- Weighing the benefits and costs
- Negotiation, bargaining and trade-offs
- Balancing economic, social and environmental factors

6. Monitoring

- ensuring the fulfillment of all the commitments
- keeping track of any changes
- The key steps in creating a monitoring plan are:
 - Identify the focus areas
 - Select of a long list of indicators for the focus areas
 - Prioritize a core set of indicators based upon agreed criteria
 - Identify data collection protocols
 - Develop data interpretation methods and create a reporting template
 - Schedule activities, evaluate program and personnel costs, define personnel responsibilities

III. Summary

Screening	- level of EIA
Scoping	- important issues and TOR
Impact analysis	- evaluate significance impacts
Mitigation	- prevent, reduce or compensate for impacts
Reporting	- information for decision-making
Review	- quality of the EIA report
Decision-making	- to approve or reject
Public involvement	- to inform and consult with stakeholders
Monitoring	- audit impacts of project implementation

Procedure in EIA

Further reading: 6. Reporting

- <https://www.elaw.org/eialaw/myanmar>
- <https://www.era-comm.eu>
- <https://www.iaia.org>
- <https://www.iisd.org>
- <https://www.yumpu.com>

- Environmental impact assessment procedure of Myanmar, 29 December, 2015

1. Screening

2. Scoping

7. Decision making

3. Baseline study

4. Impact prediction & assessment

8. Monitoring