

ENVIRONMENT IMPACT ASSESSMENT

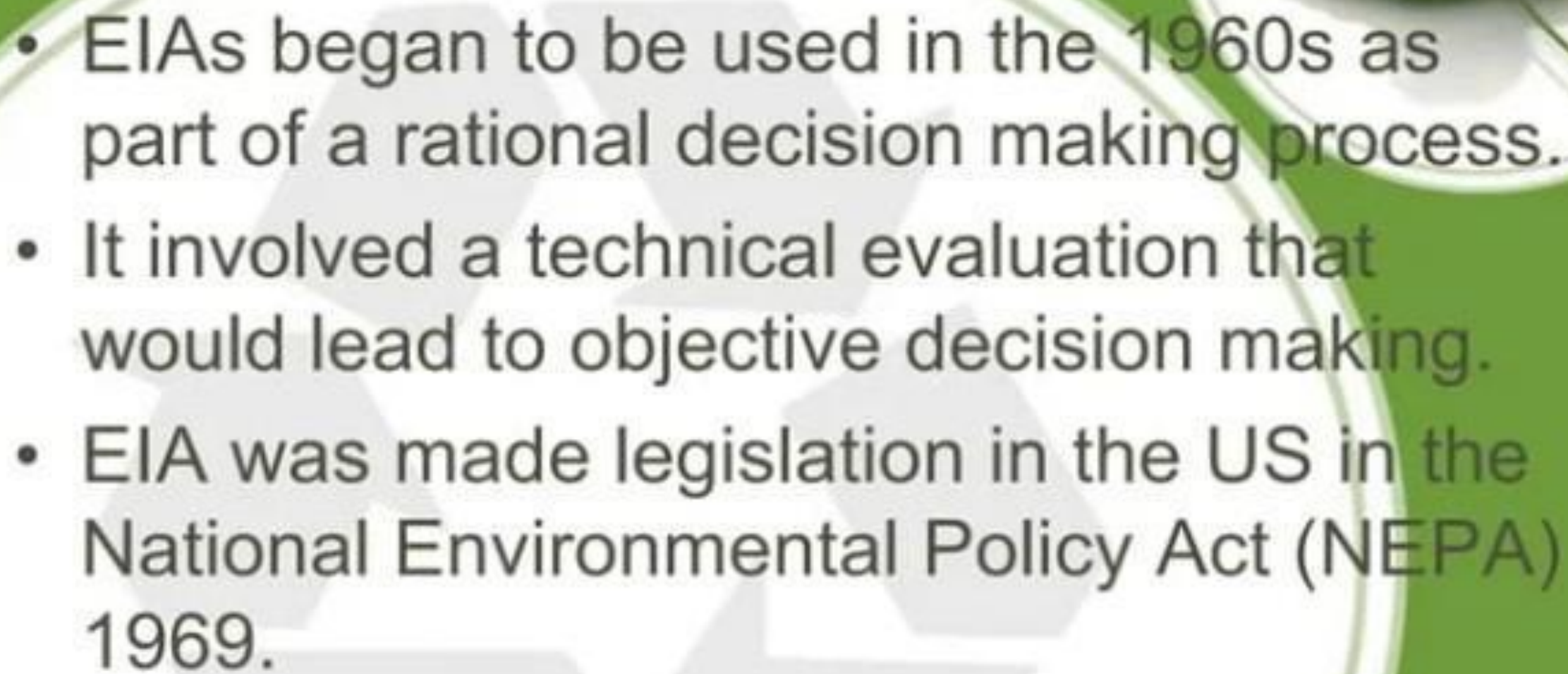


INTRODUCTION

- An environmental impact assessment (EIA) is an assessment of the possible positive or negative impact that a proposed project may have on the environment, considering natural, Social and Economic aspects.

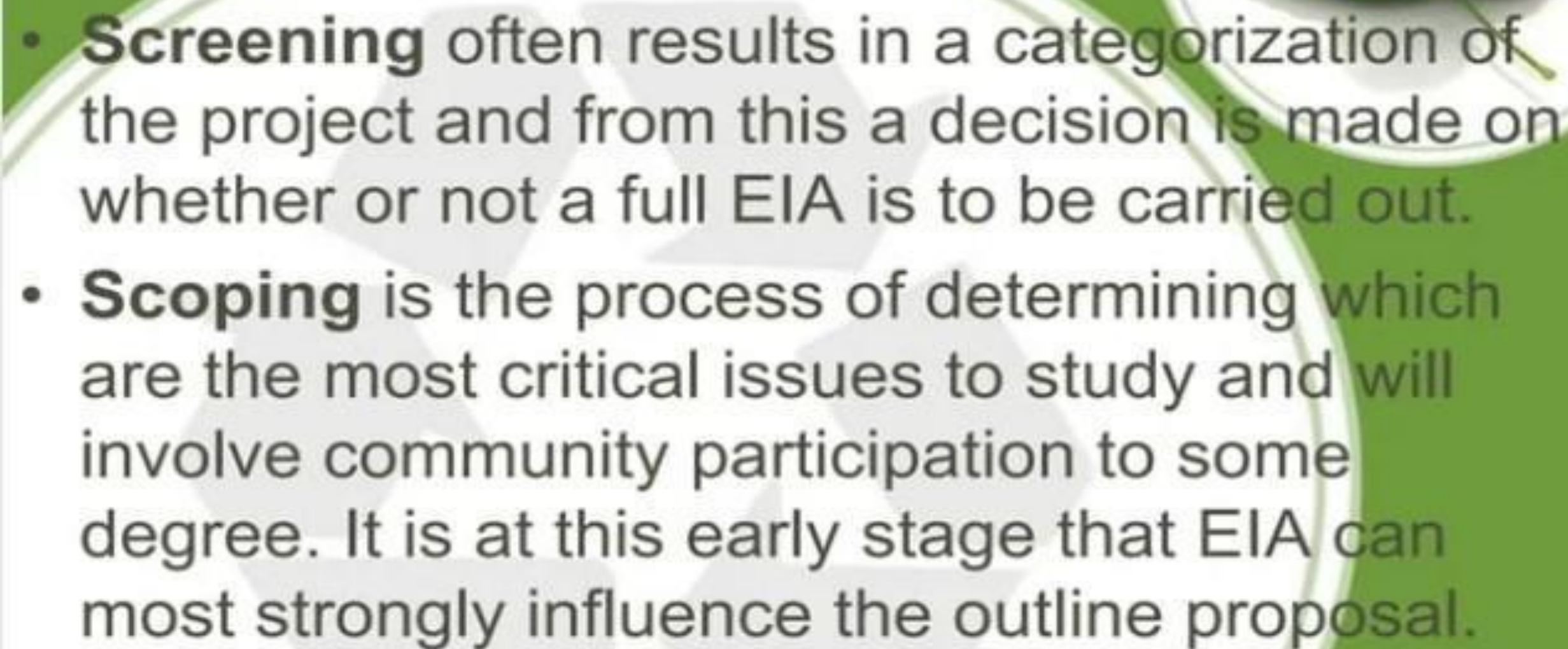
According to **The International Association of Impact Assessment (IAIA)**-

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.

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- EIAs began to be used in the 1960s as part of a rational decision making process.
 - It involved a technical evaluation that would lead to objective decision making.
 - EIA was made legislation in the US in the National Environmental Policy Act (NEPA) 1969.

➤ The main steps in EIAs process:-


- Screening
 - Scoping
 - Prediction and Mitigation
 - Management and Monitoring
 - Audit
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- **Screening** often results in a categorization of the project and from this a decision is made on whether or not a full EIA is to be carried out.
 - **Scoping** is the process of determining which are the most critical issues to study and will involve community participation to some degree. It is at this early stage that EIA can most strongly influence the outline proposal.

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- Detailed **prediction and mitigation** studies follow scoping and are carried out in parallel with feasibility studies.
 - The main output report is called an *Environmental Impact Statement*, and contains a detailed plan for **managing and monitoring** environmental impacts both during and after implementation.

- Finally, an **audit** of the EIA process is carried out some time after implementation. The audit serves a useful feedback and learning function.

Data Requirements



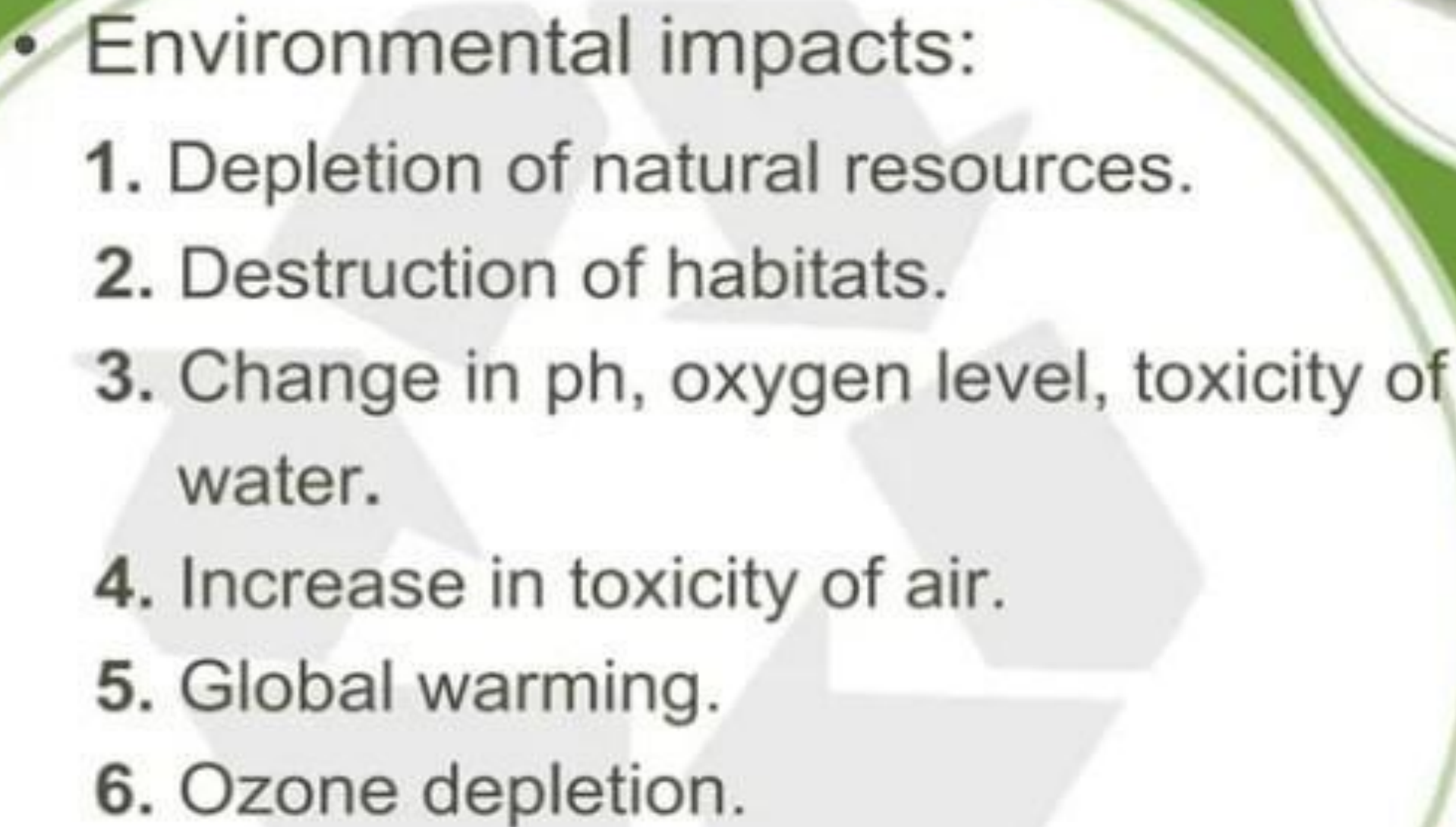
- Project
 - » Type
 - » Size
 - » Location
 - Area of potential impact
 - » Physical resources
 - » Biological resources
 - » Economic development resources
 - » Quality of life
 - » Other existing and planned projects
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➤ **Positive Externalities:**

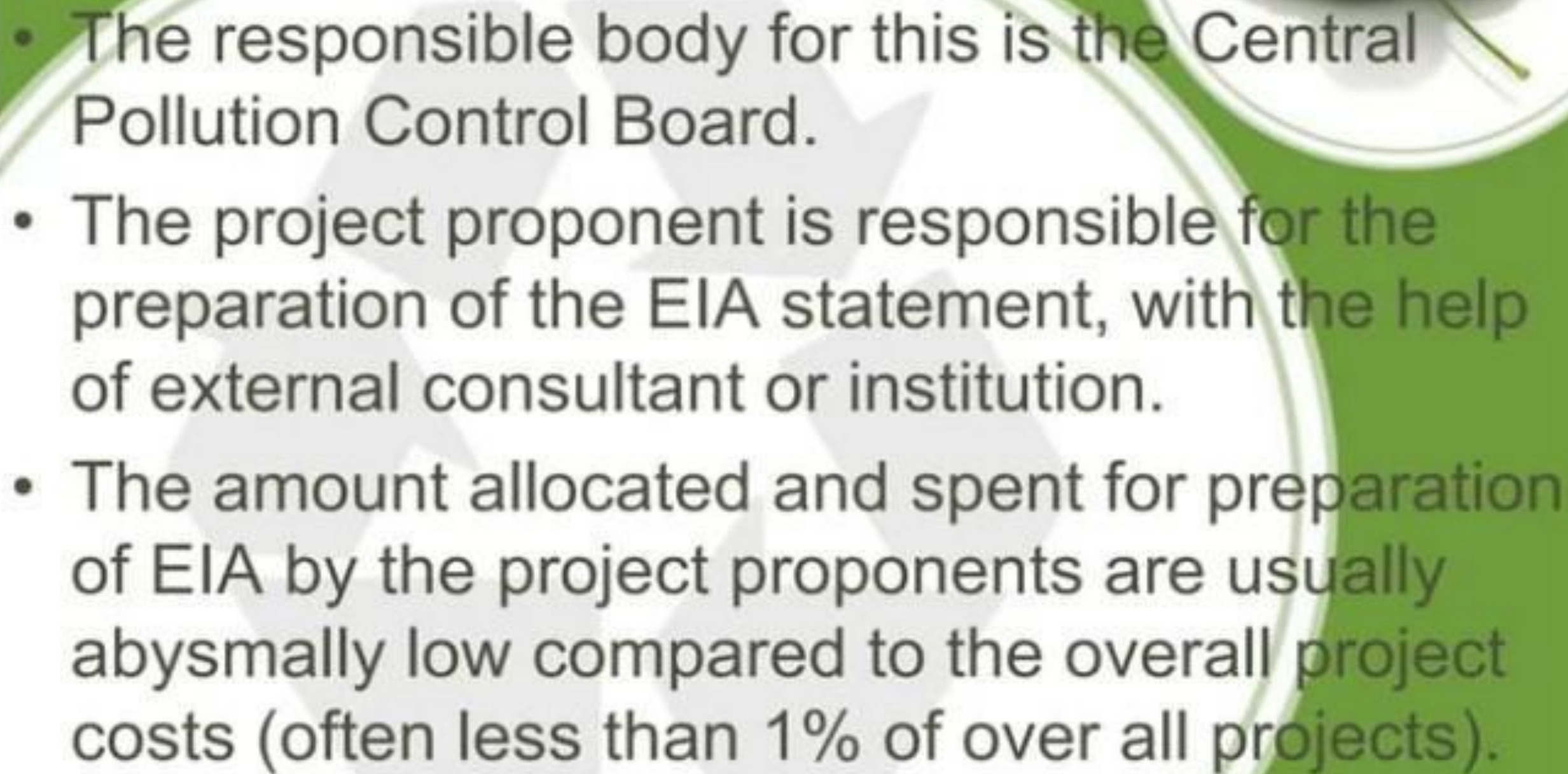
1. New jobs generated, economic growth stimulated.
2. Growth of local business enterprises supported.
3. Development of supporting and complementary industries.
4. Influx of capital and disposable income.

➤ **Negative Externalities:**

- Social impacts:
 1. Impacts on health of local population.
 2. Increase in crime and deviant behaviour.
 3. Additional pressure on the existing physical infrastructure (sewage, water supply etc.).
 4. Decline in community cohesion.
 5. Changed cultural values.

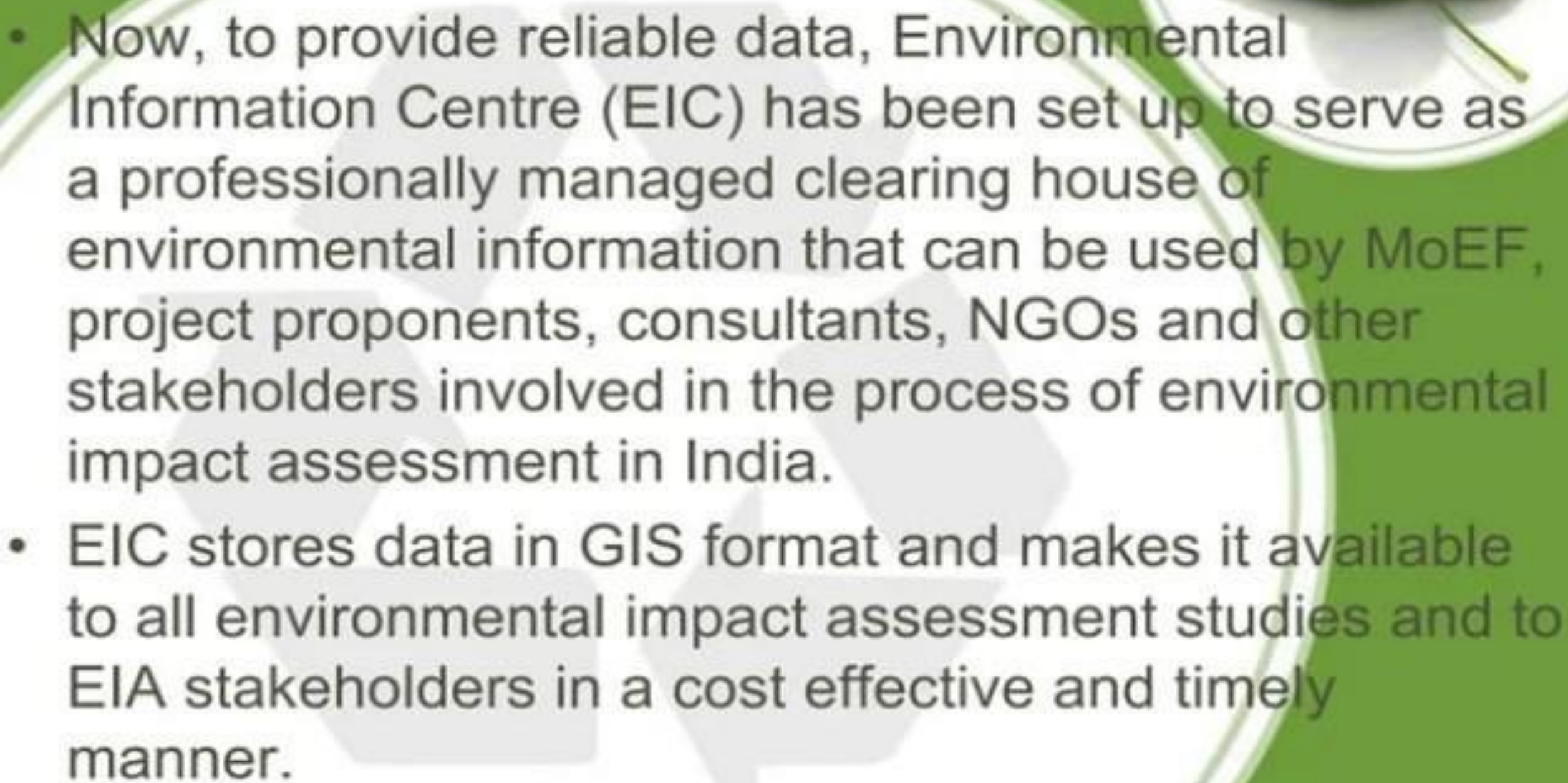
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- Environmental impacts:
 1. Depletion of natural resources.
 2. Destruction of habitats.
 3. Change in ph, oxygen level, toxicity of water.
 4. Increase in toxicity of air.
 5. Global warming.
 6. Ozone depletion.

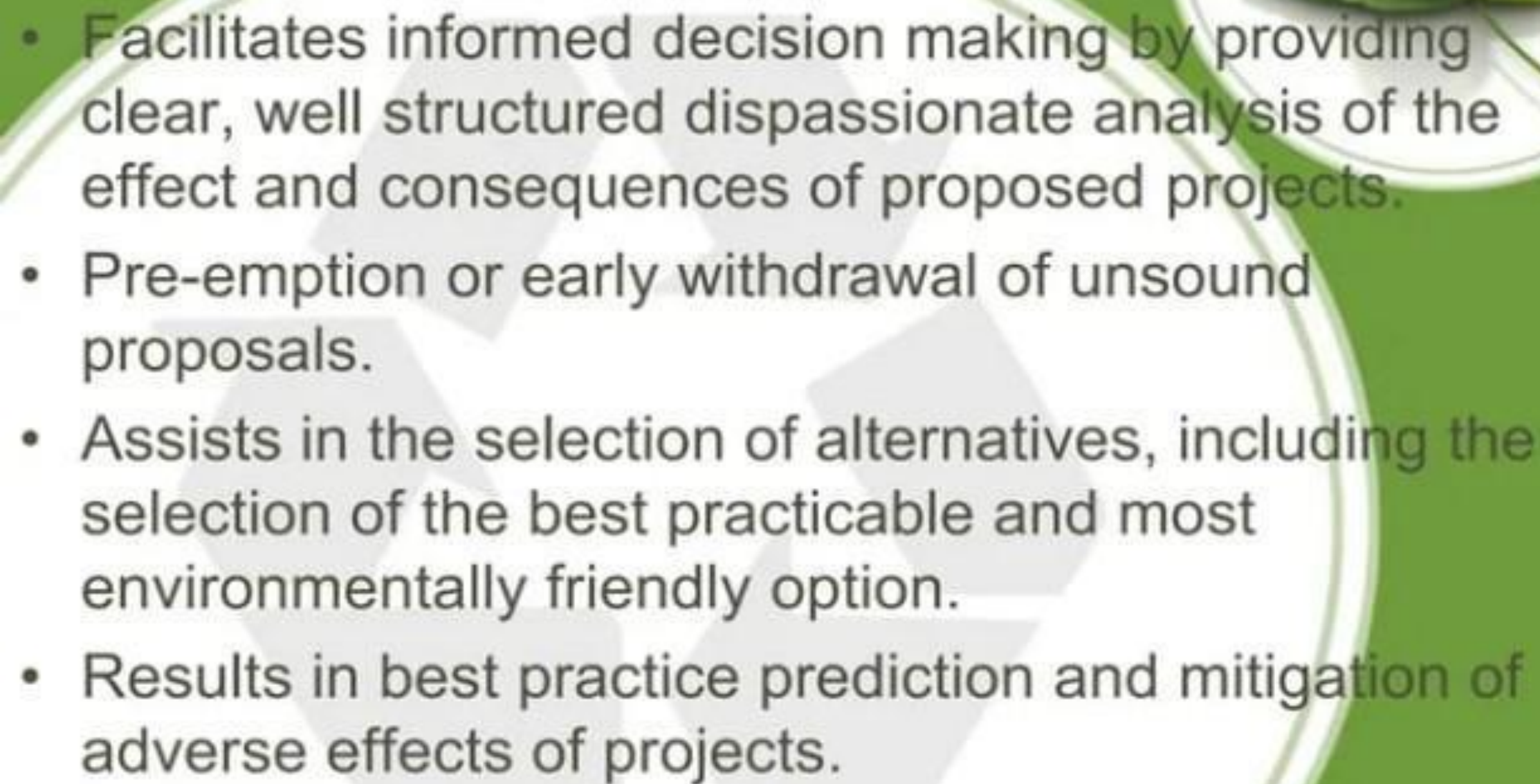
- The MOEF (Ministry of Environment and forests) is the agency for environmental clearance. If necessary, it may consult a committee of experts with a composition specified in schedule III of notification.
- The main laws in India:
 1. Water Act (1974)
 2. Indian Wildlife Protection Act (1972)
 3. Air (Prevention and control of Pollution) Act (1981)
 4. Environment (Protection) Act (1981)

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- The responsible body for this is the Central Pollution Control Board.
 - The project proponent is responsible for the preparation of the EIA statement, with the help of external consultant or institution.
 - The amount allocated and spent for preparation of EIA by the project proponents are usually abysmally low compared to the overall project costs (often less than 1% of over all projects).

➤ **Drawback in India system:**

- The lack of timely availability of reliable and authentic environmental data has been a major bottle neck in achieving the full benefits of EIA.
- The environment being a multi-disciplinary subject, a multitude of agencies is involved in collection of environmental data.

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- Now, to provide reliable data, Environmental Information Centre (EIC) has been set up to serve as a professionally managed clearing house of environmental information that can be used by MoEF, project proponents, consultants, NGOs and other stakeholders involved in the process of environmental impact assessment in India.
 - EIC stores data in GIS format and makes it available to all environmental impact assessment studies and to EIA stakeholders in a cost effective and timely manner.

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- Facilitates informed decision making by providing clear, well structured dispassionate analysis of the effect and consequences of proposed projects.
 - Pre-emption or early withdrawal of unsound proposals.
 - Assists in the selection of alternatives, including the selection of the best practicable and most environmentally friendly option.
 - Results in best practice prediction and mitigation of adverse effects of projects.

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- The background of the slide features a green gradient with a large, faint circular arrow graphic. In the top right corner, there are several green leaves, some of which are partially cut off by the edge of the frame.
- Influences both project selection and design by screening out environmentally unsound projects, as well as modifying feasible projects - Mitigation of negative environmental and social impacts.
 - Guides formal approval, including the establishment of terms and conditions of project implementation and follow-up.
 - Mitigation of negative environmental and social impacts.
 - Serves as an adaptive, organizational learning process, in which the lessons of experience are feedback into policy, institutional and project design - Enhancement of positive aspects

Conclusion

- Environment Impact Assessment is a very beneficial step to check, whether the project is environment friendly or not.
- Since economic development is result of interaction between natural resources and technology supported by designed for people, so all human activity should be economic, social and environment friendly.



THANK YOU