Environmental Impact Assessment Professor Harshit Sosan Lakra Department of Architecture and Planning Indian Institute of Technology, Roorkee Lecture 09

EIA Origin in USA and World Wide Development

Welcome to the course Environmental Impact Assessments. Today we see that EIA is almost in all the countries across the world in various forms. In the previous lectures, we also saw that EIA is a process and a legal tool. However, you may note that you may see how an EIA system is, for example, it is compulsory or flexible in a country, what level of engagement people will have? What type of action EIA would require, and how effectively it will be implemented on the ground will differ from country to country.

So, the USA had a key role to play in formally setting it up, setting up the EIA process, and eventually, the process eventually spread across to many more countries. In the USA it was established in 1969 and in India in 1994. Reviewing the journey of EIA as a legal tool helps us to understand its potential limitations and challenges. So today, we will see the evolution of EIA in the context of the USA.

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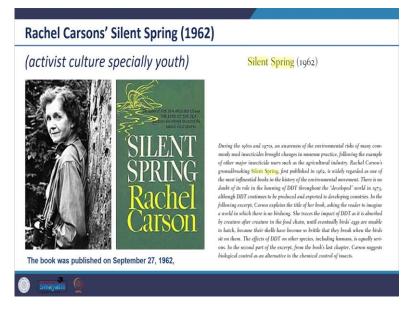
Therefore in this session, we will look into how EIA evolved and the experience of EIA in the USA. What is the current status of EIA worldwide? What factors influence the form or the format of the EIA system? What role key international organizations have played in the IEA procedures and adaptation?



Accordingly, the learning outcomes will include that you should be able to review the evolution of EIA and experience in the USA and understand its scope, limitations, and challenges. You should be able to describe the current status of EIA worldwide and reflect upon why it is different. Identify and evaluate the factors influencing the state of EIA, and its format in different contexts, and explain the key role of international organization.

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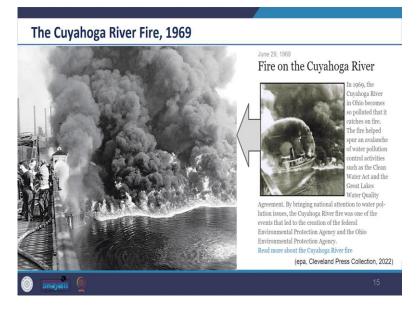
For this section, our key reference is chapter two from the book Introduction to EIA, by Glasson and Terrible. So you may recollect that from our very first lecture, we talked about Rachel Carson, who strongly brought up environmental risk through her writing on Silent Spring in 1962. She highlighted the environmental risk of commonly used insecticides.

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The Population Bomb: B	ook by Paul F	R. Ehrlich	
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its 50th anniversary, we revisit "The Population Bomb" with Paul Ehrlich. This program was recorded at Stanford University.		Corporate Net Zero Piedges: Ambitious	(Climate One, 202
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So in addition, there was a writing by Paul Ehrlich, The Population Bomb in 1968. He warned of the dangers of overpopulation, mass starvation, societal problems, and environmental deterioration, as we reviewed in the first week of our lectures. At that time, the book was criticized for projecting a darker picture. And Think of it like where we are right now what kind of problems you are facing? I have given you the link to this particular talk you can, if you are interested, you can see it further.

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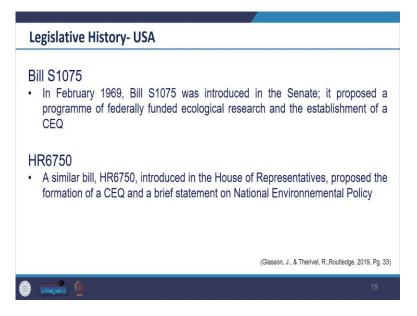


Then, there was a fire incident on the Cuyahoga River in Ohio, The river in Ohio became so polluted that it caught fire, and the fire shooted avalanche falling water pollution control activities such as the Clean Water Act and the Great Lakes Water Quality Agreement was aligned with the entire process.

So this led to increasing concerns in the USA result of that was the formation of the US National Environmental Policy Act. NEPA of 1969. NEPA was the first major environmental law in the USA and is often referred to as the Magna Carta as a key document of the US federal environmental laws.

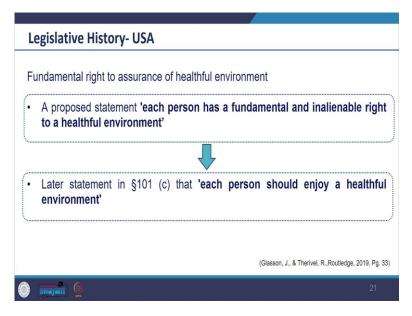
So, NEPA was the first legislation that required EIA. So it was, in this document, the legislative document you find EIA. EIA in the USA became a reference point for learning for other countries based on its experiences and developments of the process, everyone was watching them.

You may also know that any legislation also has the challenge of failing into a range of lawsuits, litigation based on its functions and interpretation, because of this case series of litigation falling NEPA's, so there were a lot of court cases, many other countries were careful about creating law and implementing it related with environment.



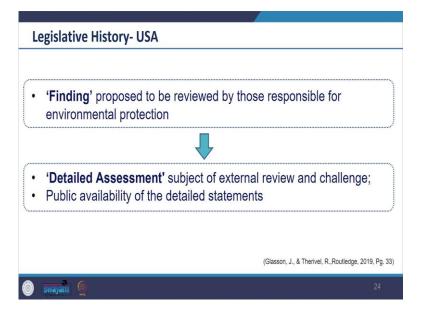
So following several proposals, like when all this was happening, there were several proposals were made the formation of Council on Environmental Quality happened and was established as a high-level committee. The National Environmental Policy Act NEPA was a form of unified environmental policy. This came into existence in February 1969 through a series of bills, you can see the series of bills here.

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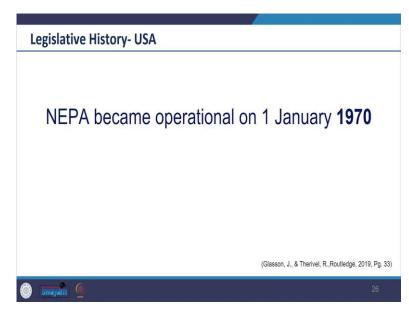
There were a series of discussions also to declaring a National Environmental Policy which is NEPA, they proposed the statement that the attention to statement that each person has a fundamental and inalienable right to a healthful environment, which would put environmental health as the fundamental right, it was later. So first, they claimed it to be fundamental, then later, it was slightly diluted by saying that each person should enjoy a healthful environment.

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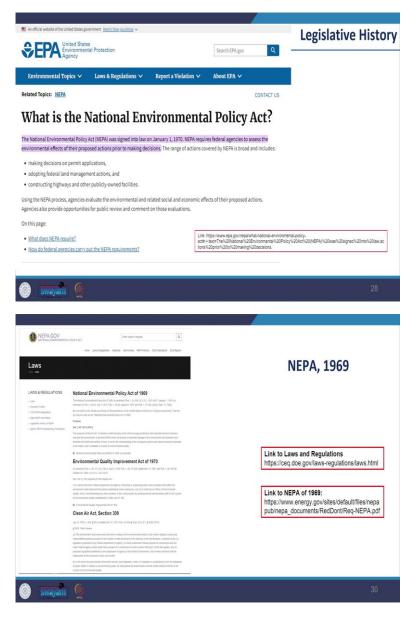
In the initial form of the proposal. It was also seen that it is required that the proponent provide the findings, the word findings was used, which would be further reviewed by the environmental protection body, reviewed by the Environmental Protection body by a proponent here remains the one who is proposing the development activity, we refer to them as proponent. The literature suggests that this innate had intended to weaken the bills, the bill which was being processed by requiring only a detailed statement.

So instead, a detailed assessment was required. Rather, it became much stronger. This statement was required to be evaluated by the external reviewer. So earlier it was in by the internal agency, but then it became an external reviewer, and could also be challenged, meaning can be taken to court as well. So it would be reviewed by the external review, as well as it can be challenged. It also required that the detailed statement be made available to the public. So the entire information should be shared with the public.



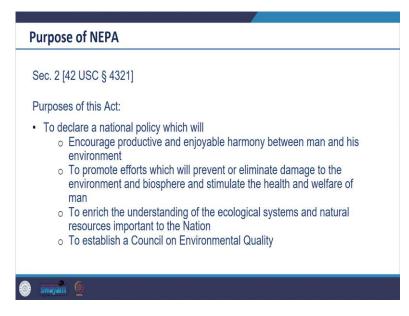
With all these discussions, dilutions, and strengthening NEPA became operational on 1st January 1970.

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So looking at the key points of NEPA, what we were coming up here with, that the NEPA requires federal agencies to assess the environmental effects of their proposed actions before making decisions, the range of actions are covered by NEPA, key to our concerns, there are a range of actions, but key to our concern is making decisions or permit applications that means allowing them giving permit and adopting federal land management actions. So, how the land should be managed? So, the link is provided to you in this you can see here to the official website. So, you can see all those provisions here.

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The purpose of this act was to declare a national policy, which would like to encourage productive and enjoyable harmony between man and his environment. So, that balance was looked up to and to promote efforts that will prevent or eliminate damage to the environment and biosphere stimulate the health and welfare of man enrich the understanding of ecological systems and natural resources important to the nation, and establish the Council of Environmental Quality.

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TITLE I, Congressional Declaration of National Environmental Policy
Federal Vision and Commitment
1.Longterm: Fulfill the responsibilities of each generation as trustee of the environment for succeeding generations
2. QOL: Assure for all Americans safe, healthful, productive, and aesthetically and culturally pleasing surroundings
3. Sustainable use of resources: Attain the widest range of beneficial uses of the environment without degradation, risk
to health or safety, or other undesirable and unintended consequences
4. Preserve important historic, cultural, and natural aspects of our national heritage, and maintain, wherever possible,
an environment which supports diversity, and variety of individual choice
5.Achieve a balance between population and resource use which will permit high standards of living and a wide
sharing of life's amenities
6.Enhance the quality of renewable resources and approach the maximum attainable recycling of depletable resources
Right: Each person should enjoy a healthful environment and
Responsibility: Each person has a responsibility to contribute to the preservation and enhancement of the environment
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So you see what was the target and what they were trying to promote, and then how it was also leading to like better understanding as well as the creation of a body that will take care of this. So looking at the federal vision behind it, the commitment behind this was long-term, that is to fulfill the responsibility of each generation as trustees of the environment for succeeding generations. So the idea and vision were long term, plus it was of assuring the quality of life, ensuring all Americans safe, healthful, productive, and aesthetically and culturally pleasing surroundings.

Then it is the vision was about the sustainable use of resources like were used. Likewise, you see, there was the importance given to the preservation of important historic cultural and natural aspects of the national heritage. As well as you see there was a target to achieve a balance between population and resources as well as enhance the quality of renewable resources and approach maximum attainable recycling of depletable resources.

And you will also see that it talked about in part C, it talked about right. At the same time, it also talked about responsibility. And right was also Congress here recognized that each person, so it was not just the government, but the right was also for individual, citizen person should enjoy a healthful environment at the same time not only having rights, but they also had a responsibility that each person has a responsibility to contribute to the preservation and enhancement of the environment.

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Section 102 in Title I of the Act requires federal agencies to incorporate environmental considerations in their plannin making through a systematic interdisciplinary approach. Specifically, all federal agencies are to prepare detailed state the environmental impact of and alternatives to major federal actions significantly affecting the environment. These are commonly referred to as Environmental Impact Statements (EIS) and Environmental Assessments (EA). Title II of NEPA established the President's <u>Council on Environmental Quality. (CEQ)</u> to oversee NEPA implementation. include: • Ensuring that federal agencies meet their obligations under NEPA	ements assessing statements
include:	The duties of CEC
Ensuring that federal agencies meet their obligations under NEPA	
 Overseeing federal agency implementation of the environmental impact assessment process 	
 Issuing regulations and other guidance to federal agencies regarding NEPA compliance. 	
Learn more about the National Environmental Policy Act.	
Learn more about the <u>National Environmental Policy Act.</u>	(Epa, 20

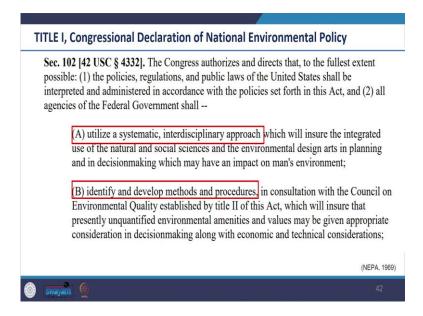
So looking at what NEPA requires, and what you need to do so, title One NEPA, there are two titles this title one of NEPA contains the declaration of national environmental policy. This policy requires the federal government, you may see here the federal government to use all practicable means, so all the practicable, which are, which one can implement to create and maintain conditions under which man and nature can exist in productive harmony. So, you may note that it makes the federal government, the central government responsible for creating and maintaining conditions under which man and nature can exist in productive harmony. So and then also press, it takes care of the requirement of the future generation of Americans.

It also made them responsible for adapting all practical means. And by this, it was important that it everything was consistent with the other essential considerations of national policy. It should be consistent so that the negative environmental impact can be reduced and not only to reduce the negative impact but also preserve and enhance the environment through federal plans and programs.

So, they had to make policies consistent for the reduction of the negative impact, as well as they were supposed to take other steps to preserve and enhance the environment through plans and programs. So NEPA has two parts set as titles, so title one sets national policy on the protection and restoration of Environmental Quality.

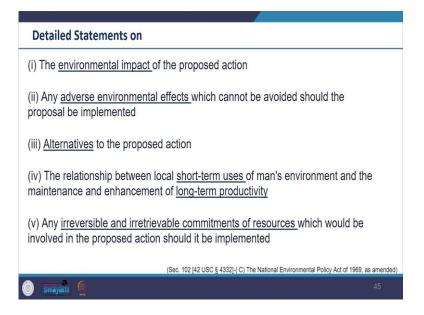
Title two sets up a member Council of Environmental Quality, so there is a set of laws and then the other is the body that will take care of it. So the Council of Environmental Quality, CEQ would review environmental programs and progress and would advise Presidents on these matters. And then the Presidents would be required to submit an annual environmental quality report to Congress.

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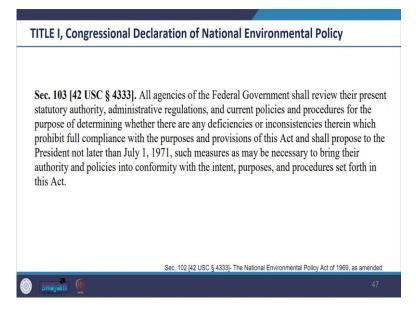
So, we see that in section one naught two requirements are procedural. So it talks about the process that has to be followed and you will see that the federal agencies are required to undertake a very systematic interdisciplinary approach, identify and develop methods and procedures. So you can see here what all the details statement should contain.

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So what all should be there like you can see here in the image, the detailed statement should provide the environmental impact of the proposed action, it should identify adverse impact environmental effects, it should provide alternatives as well, so the proposed action, and it should indicate the relationship between short term users and the long term productivity, plus decision on implementation of any irreversible and early tribal commitments. So what decision has been made and which are of what nature and in the proposal?

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Sections one naught three require federal agencies to review their regulations and procedures to identify any deficiencies, or inconsistencies, As we said, they were responsible for identifying this so they would be taking care of it and this section gives those instructions here.

So the NEPA is generally worded law. So it is all in words, and it depends considerably on the interpretation. So to assess the CEQ-prepared guidelines for assisting in interpretation, CEQ would come up with all the guidelines and standards.

So, a lot of strengthening of the act has happened, falling court decisions. So we see that because it was open for interpretation. As soon as it was implemented a lot of legal litigation came into the picture and a court ruling came and that somehow allowed to strengthen the EIA process.

So, the guide of court cases came was like, one of the studies, it showed that some challenged proponents, so the proponents of the development projects or agencies decided to not prepare EIA. So like how were they deciding when to prepare EIA and when not to prepare EIA which meant interpretation of whether the project was major or by government or related project activities that had insignificant or significant environmental impact? So, how do they come to that judgment? So that kind of court case came in.

Some of the objectives were related to the quality of EIA. So they were also questioning the quality of EIA, which raised concerns about the completeness of the assessments if it covered all ranges. Like was it adequate? Did it address all the concerns of the environment or not? So that kind of court case also came up, and whether the alternatives were considered or not by the proponents? So even the adequacy of the report was also, of the assessment was also challenged.

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Petitioners, v. United States	Tide:	Calvert Cliffs: Coordinating Committee, Inc., et al., Petitionens, x United States Atomic Energy Commission and United States of America, Respondents
	Party:	United States of America
Atomic Energy Commission	Region: Type of document:	North America Others
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America, Respondents	Justice(s):	Weget Tamm Robition
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So, as you can see here in the court case of 1971 of this is the case of Calvert Cliffs, the Coordinating Committee brought this action against the Atomic Energy Commission. So it was the project of the Atomic Energy Commission. This Calvert Cliffs charged Atomic Energy Commission, that its recently adopted procedural rules, what they were adopting, failed to satisfy the demands of NEPA, it was not as per the law that this Commission considered environmental factors.

So, it was challenging the process, the court decided that the Atomic Energy Commission's procedure rules did not comply with Congressional policies spoken in NEPA, so it was not aligning and it was inadequate. So the court did come to that ruling.

Some cases charged that agencies' decision, one of the early court decisions guided the review of the decision. So like EIA reports, and EIA assessments, the decision was made in favor or against, where there was a case, there were cases which were challenging the decisions.

So, here the court noted that the court's function is to ensure the agency has taken a hard look. So it has looked well into the thing. Whereas the court is not going to supplement their decision but only going to check whether they have considered it substantially or not.

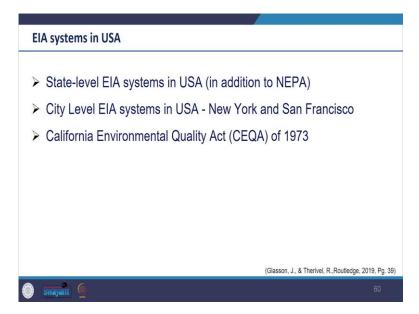
So, many initial litigation. These are the kinds of litigation court cases that the US after the implementation of NEPA, they were facing so many initial litigation and court decisions that helped to improve the entire system. So there were also delays and execution of the project, making the project unfeasible.

So, you think of the period it would take for a court case to resolve and the project to see the light. So there were also declarations of protected areas. Some projects did not work, and then the areas were protected, such as National Park and wildlife areas.

As suggested due to many court cases at the beginning of the EIA system, many countries had their learning about the processes, challenges, and possibilities, so they were learning from the case of the US. So, later many guidelines were set up to ease the interpretation.

So within the US system, various other guidelines were set up to easily interpret help others to interpret well, and then implement. Well, further efforts were made to reduce paperwork also and reduce delays targeting significant environmental issues only, and look at the whole alternatives as well.

So, USA policy has led to the formation of the EIA process and legal system and also reduced the cost and also by improving the system they could do this, number of EIA reports has considerably improved, the design of projects has also improved. So the targets of overall having a sustainable development was like really, the projects were much more environmentally aligned.



So many, we also see that many state-level EIA systems have been established in the USA, in addition to NEPA, so, every state, most of the states has its own EIA system. As they require EIA for state actions, actions that require state funding or permissions, and other projects, in particularly sensitive areas, every state can have its sensitive areas. So some cities, such as New York and San Francisco also have their own EIA system. So that also, it is interesting to see that cities also have.

It is particularly like it is considered one of the exemplary is the California Environmental Quality Act, which like provides it have exemplary it is considered exemplary for its scope, and procedure requirements that ensure state and local agencies engagement.

So, they work together to adapt feasible mitigation measures, they come together and then see how the environmental impact can be mitigated, and mitigated and alternatives can also be reviewed. So, they have also added greenhouse gas emissions to the list of environmental impacts for analysis under the California Environmental Quality Act.

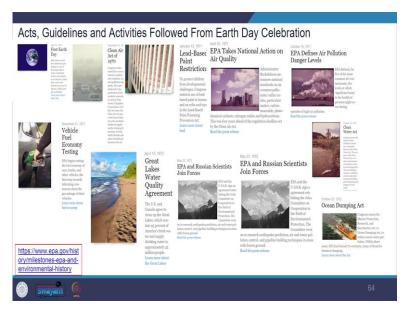
So, the strength of this system and its evolution in the USA includes the early inclusion of EIA in the project planning. So, we see that they engage in the EIA process in the early stage and it is said to be more comprehensive planning, there have been cases of changes in locations of the project and there have been also cancellations of projects.

So, there has been the avoidance of the EIA process like a reconsideration of, like if you look at the negative points, there has been a reconsideration of socio-economic and environmental justice, then also cumulative impact has been not very well implemented. Monitoring and auditing and the relationship between EIA and environmental management systems still stand some right, but some of the literature still stands weak.

So, there have been also recently, in the recent past, there has been radical change with changes in the government with a reduction in the environmental protection measures, and clean energy programs and then

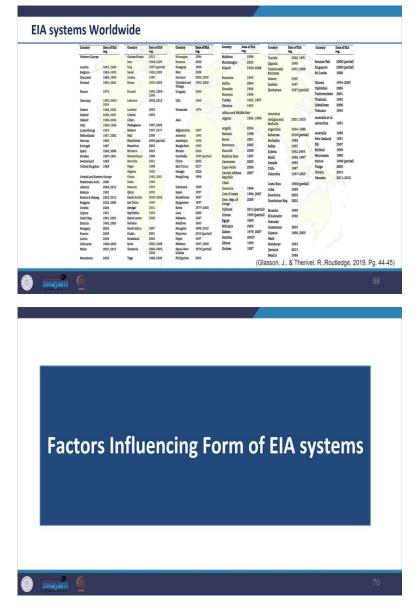
pulling out of the Paris Climate Change Agreement and loosening of regulations on toxic air pollution and wildlife protection and so on. So, they had been changes in the recent past.

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So, many acts, guidelines, and activities followed like after NEPA, we would see that many of activities followed a long list you would see like Earth Day celebration, the Clean Air Act, lead-based paint restrictions, defining of air pollution danger levels regulations on vehicles, protection of lakes, and many more changes came as per the requirements and technology development, you may follow the timeline the link is also provided for your reference here.

So, now EIA has been implemented in many countries. So, since NEPA now, there are nearly 180 countries that have EIA systems. So that is a large number we are looking and we can see how it is being adopted in various contexts.



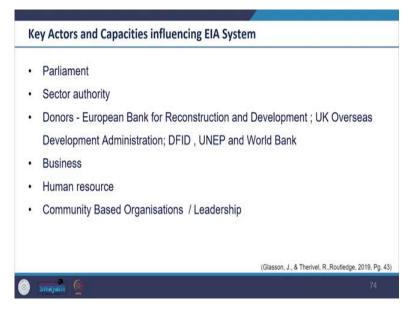
So, looking at the current status of EIA worldwide, in the image table, you can see the EIA systems worldwide here. So, now looking at the factors that influence the structure of EIA.



So, the literature identifies contextual factors, something that is specific to the place we are talking about such as political systems. So, regarding how the EIA is we cannot generalize how he is, will depend a lot on the political system, and environmental status of that particular place.

International Convention is what they have signed to, civil rights, the culture of public participation, so even if the in the EIA how much the public participation would also depend upon how much public is aware, how engaged it is, and how much even the government opens up. So, all these infants have the EIA system in each country.

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So, we also see actors and the capacity at different levels influence the form of EIA in a country such as rulemaking bodies, the parliaments, the sector authority, different, different sector energy, and infrastructure. So we see that sector authority also, how they, what rules they lay out would also influence the EIA.

Then the donors, some of the international funding, say funding agencies have set up EIA guidelines including the European Bank of Reconstruction and Development, UK Overseas Development Administration, DFID, UNEP, and World Bank, so they have all set the guidelines for EIA, so which makes people applying for funding to adopt the format.

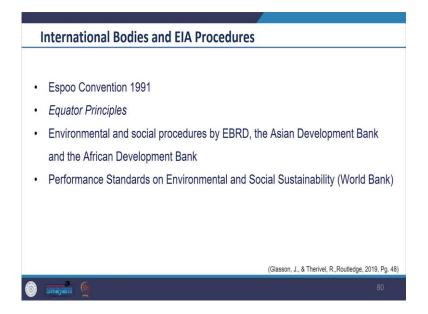
A business that can influence also has a role to play experience in EIA and human resources which is already there in the context and the civil society community-based organization their activities also play a role.



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So looking at now, now looking at the key role of international organizations. So in Europe, the United Nations Economic Commission for Europe has been doing considerable work. One of the notable ones is in 1991 Convention on EIA in the trans boundary context Espoo convention, it is primarily to assess the negative environmental impact across borders. So it is till now we have been talking about the country context, but this convention, talking about infrastructure, which would affect different countries.

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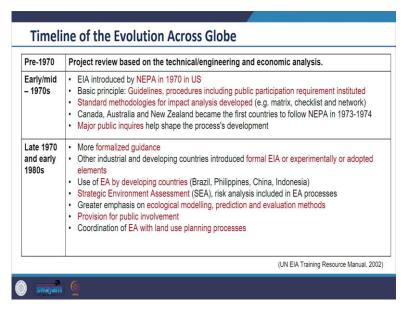
You will also find Equator Principles of private sector initiative, which provides EIA guidelines for financial institutions about funding decisions on major projects over a financial threshold of 10 million Dollars. By 2017, there were 92 signatories to Equator Principles in 37 countries. So international banks such as ABRD, the Asian Development Bank, African Development Bank have introduced environmental and social procedures. So you see that they have an influencing rule here.

An important one, that we will come across often in the course is the performance standards on environmental and social sustainability, introduced by the World Bank Group, through the International Finance Corporation IFC on which the Equator Principles are based and the World Bank's environmental and social standards are based.

So World Bank emphasizes so like moving EIA upstream, meaning taking it at the very initial level of the project, designing like having more effective public consultation, and then integrating EIA into the program, project programming and then learning from the implementation, learning from other cases, having a feedback loop, engaging with the private sectors, and especially defend their financials and project sponsors, and then looking at how the EIA's quality is.

So there is a lot of emphasis. We reviewed the development of EIA in the USA and across the world, EIA has become an important tool, but there is variation on how the EIA system exists in a context. There is a lot of support and push from the international agency.

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So looking at the timeline of evolution across the globe taken from the UN training manual, we see here that in the like, it is a little bit of a recap here. So early-mid in 1970 you see that EIA was introduced. And then it established basic principles, standards were coming in. And then you see that developed countries are working on it.

And then later in the 1970s and early 1980s, you see that more of the formalized, guidelines were developed and then other industries and developing countries introduced formal EIA in this particular period. Then you will see that there was also a coming of Strategic Environmental Assessment SCA, which we will learn about, and then the greater emphasis was on ecological modeling, prediction, and evaluation methods.

So we see that in this particular segment, methods were evolving. And then there was also emphasis and provision for public involvement and engagement and also coordination of environmental assessment with land use planning process also was emphasized here.

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 In Europe, EC Directive on EIA establishes basic principle and procedural requirements for all member states Increasing efforts to address cumulative effects World Bank and other leading international aid agencies establish EA requirements Spread of EIA process in Asia
 Requirement to consider trans-boundary effects under Espoo convention Increased use of GIS and other information technologies Sustainability principal and global issues receive increased attention. India also adopted the EIA formally Formulation of EA legislation by many developing countries. Rapid growth in EA training

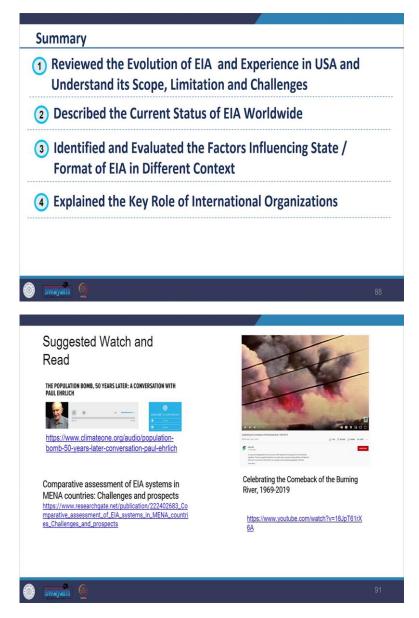
Then we see in 1980 and end of that decade, we see that there were EC directors, and EAI established basic principles and procedural aspects. Then there were increasing efforts to address cumulative effects. So here

you see the cumulative effects, which we have spoken about in previous classes as well. And then the World Bank, it is important here, World Bank and other leading international agencies, aid agencies, they established EAI requirements. So that made a major shift that most of the countries started adopting it.

And this period it spread in Asia. So here we see that at the same time, our system was also formalized. 1990 onwards, we see that here, there is more development in the transboundary effects we are looking at the Espoo convention here increased use of GIS and other techniques we see here.

And the sustainability principles came here. India also adopted the EIA formally in this period, and the formation of EIA legislation happened in many developing countries. And the rapid growth of EIA training also took place, so part of which you are also like going through this training here.

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So summarising today's session. So we reviewed the evolution of EIA and its experience in the USA and understood its scopes, limitations, and challenges. We describe the current status of EIA worldwide, we will try to identify and evaluate factors influencing state format, state, and format of EIA in different contexts and explain the key role of international organization.

So our coverage has been limited as for the scope of the subject, additional resources to read and watch are provided to you. These were the references for this particular class. Please feel free to ask questions. Let us know about any concerns you have, and do share your opinions, experiences, and suggestions looking forward to interacting and co-learning with you in our discourse of EIA. Thank you.