

DYP,COE, Akurdi Online Course



## Silicon Valley Overview

# Environmental Sustainability



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## Environmental Information System

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**Crucial Role of Environmental Engineer/Architect in Sustainable Development**



**Focus  
Forward** >

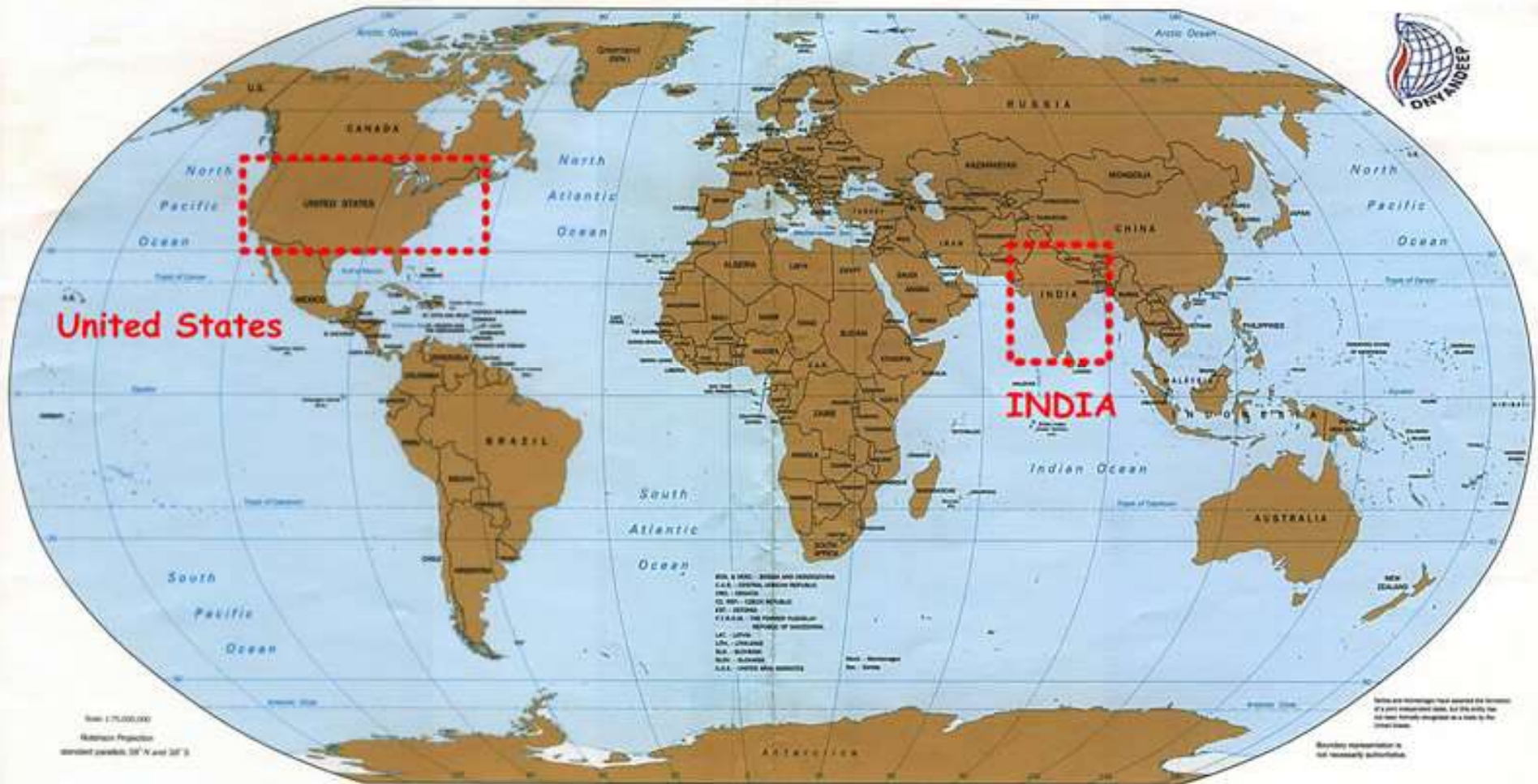
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# Location of my stay in USA



# Earth – USA and India

Political Map of the World



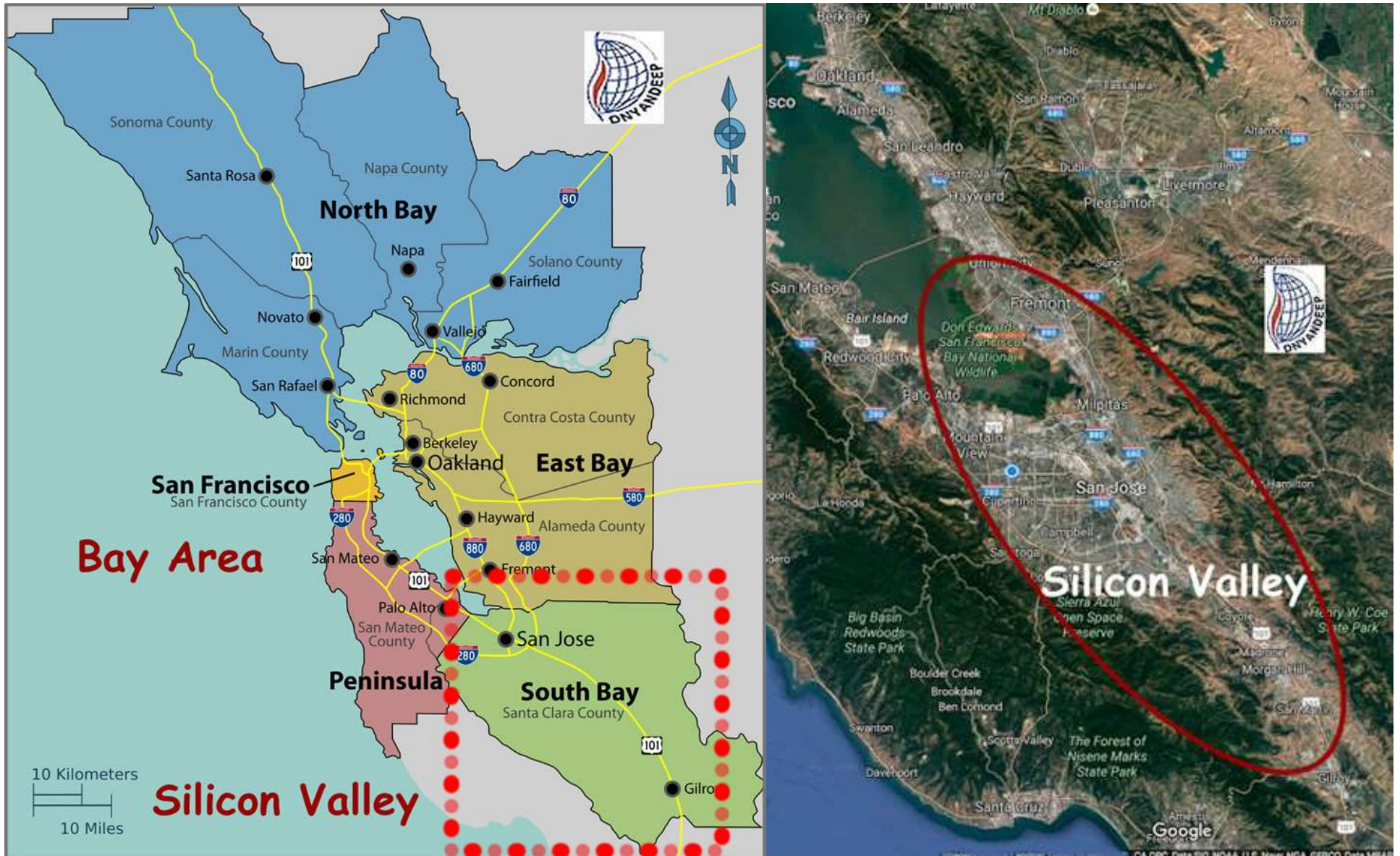
# California State in USA



# California State



# South Bay Area – Silicon Valley



# Roads and Bridges



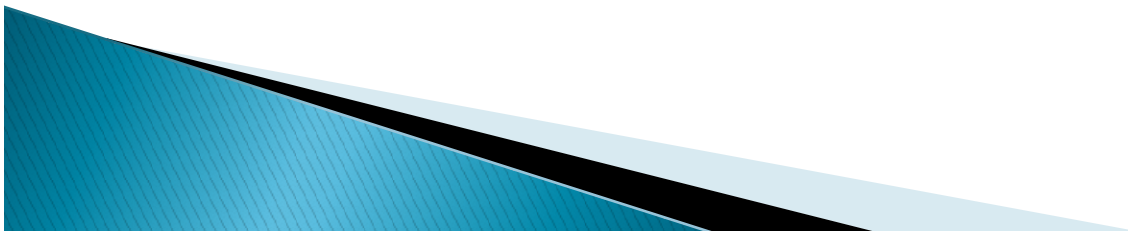


# OverView of Silicon Valley



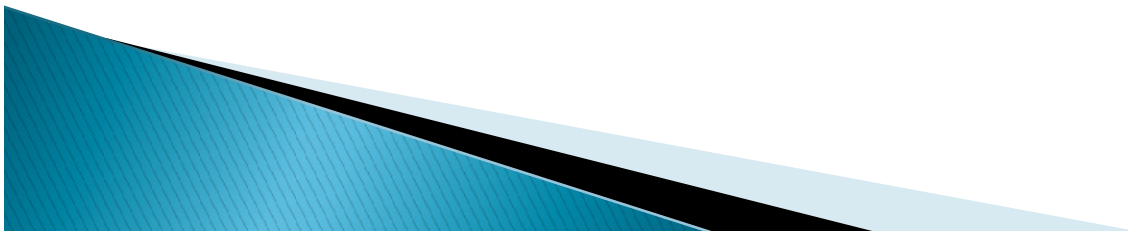
# History of Silicon Valley

- – Gold Rush– Inflow of Chinese, Spain, France
- Grape Wineries and Archers Oranges. Peach, Cherry
- Missionary occupation of Mexican church
- Inflow of labour from central America
- Growth of IT Industries with Y2K problem
- ‘Good weather and International culture gave rise to Global business leaders



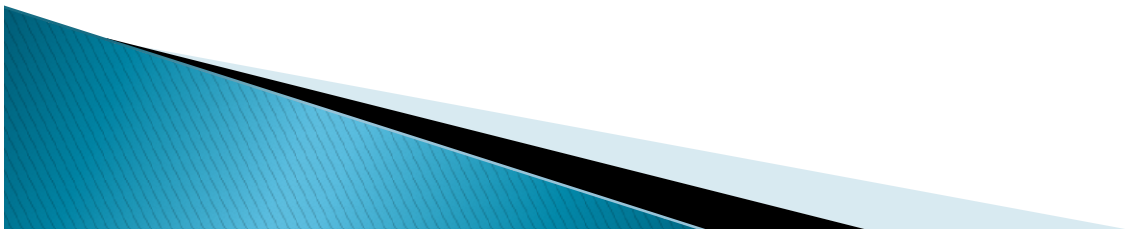
# IT Industries

- ▶ IT Companies – Google, Yahoo, Apple, Microsofty, Oracle, LinkedIn, Adobe, Autodesk
- ▶ Electronic Industries – IBM, Intel, CISCO, Applied Materials, Hewelett– Packard, Dell,
- ▶ Tesla, NASA
- ▶ Two International Airports and Network of Freeways and Expressways, Bart Train links



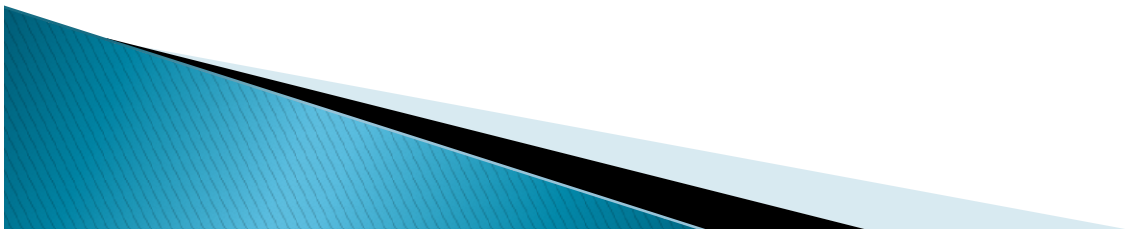
# California Environmental Quality Act (CEQA)

- ▶ The CEQA is California's broadest environmental law.
- ▶ CEQA helps to guide the Department during issuance of permits and approval of projects.
- ▶ As per Law, CEQA provides fullest protection of the environment within the reasonable scope of the statutes.
- ▶ CEQA applies to all discretionary projects proposed to be conducted or approved by a California public agency, including private projects requiring discretionary government approval.



# Objectives

- ▶ Disclose to the public the significant environmental effects of a proposed discretionary project, through the preparation of
  - An Initial Study (IS),
  - Negative Declaration (ND),
  - or Environmental Impact Report (EIR).
- ▶ Prevent or minimize damage to the environment through development of project alternatives, mitigation measures, and mitigation monitoring.
- ▶ Disclose to the public the agency decision making process utilized to approve discretionary projects through findings and statements of overriding consideration.
- ▶ Enhance public participation in the environmental review process through scoping meetings, public notice, public review, hearings, and the judicial process.
- ▶ Improve interagency coordination through early consultations, scoping meetings, notices of preparation, and State Clearinghouse review.



# California Public Resources Code

## Sections 21000–21004

- ▶ State agencies shall regulate the activities of private individuals, corporations, and other public agencies whose activities may affect the environment shall regulate to prevent environmental damage.
- ▶ Government agencies shall develop standards and procedures necessary to maintain, protect, rehabilitate and enhance environmental quality, including fish and wildlife populations and plant and animal communities.
- ▶ Projects carried out by public agencies shall be subject to the same level of review as private projects requiring approval by public agencies.
- ▶ No projects which would cause significant environmental effects should be approved as proposed if there are feasible alternatives or mitigation measures that would lessen those effects.



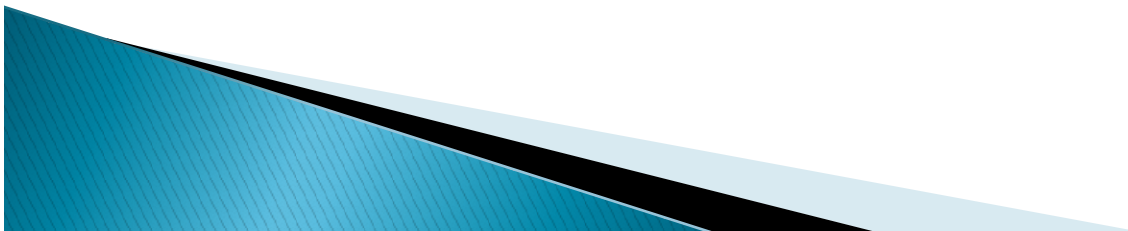
# Environmental Impact Reports (EIRs)

- ▶ EIRs shall be used to provide full public disclosure of the environmental impacts of a proposed project.
- ▶ EIRs shall include identification of all significant effects, alternatives, and potential mitigation measures.
- ▶ Local agencies should integrate CEQA with other environmental review, planning, and information gathering so as to cut costs and time and to apply the conservation of financial, governmental, physical, and social resources towards better mitigation.
- ▶ Identification of significant effects, alternatives and mitigation measures, as well as comments from the public and public agencies, and relevant information about significant effects should be made as early as possible in the process.
- ▶ Failure to comply with CEQA to provide full disclosure of information during the CEQA process, which would result in relevant information not being presented to the public agency, would constitute prejudicial abuse of discretion leaving the project proponent open to possible lawsuits.



# Environmental Awareness

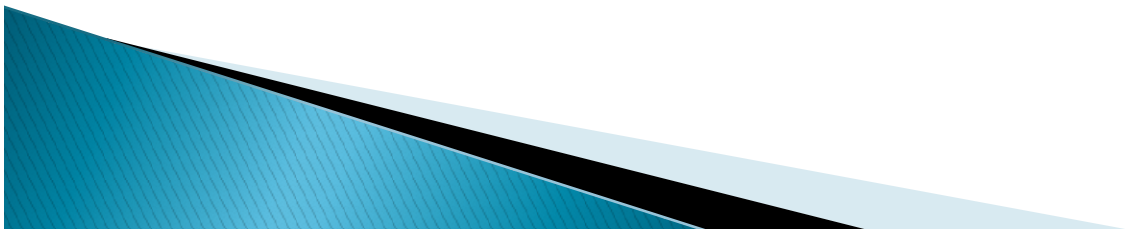
- ▶ Public resistance through discussions, heated arguments but no agitations, strikes or disruption of works.
- ▶ People fight through legal actions
- ▶ The decision of grant of permission is vested with counties and not state.
- ▶ Most of the people being immigrants do not have much knowledge or say in policy decisions





# Indian Environmental Secenario

- ▶ More public awareness about Environmental Conservation and Pollution Control through Social, political and Environmental Organisations
- ▶ Environmental Scientists lead social groups
- ▶ Environmental Engineers should play an active role in educating people and Industries
- ▶ Sustainable Development with Environmental Conservation can be achieved by effective monitoring and legal controls.



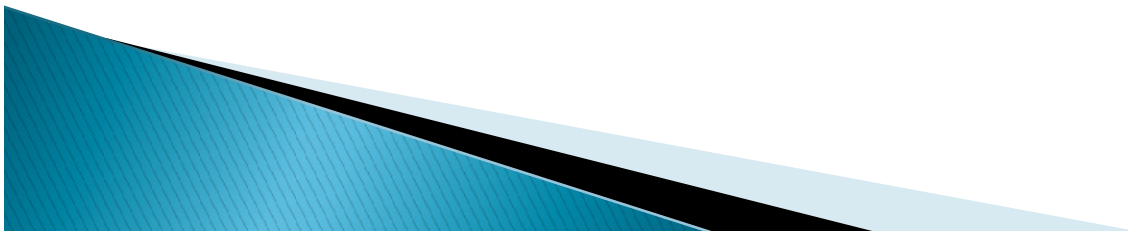
# Role of Educational Institutes

- ▶ Better Industry – Institute Interaction
- ▶ Field experience and Application based projects for students
- ▶ Research in developing economical but effective control technologies for pollution control.
- ▶ Acting as a facilitator for Industries and educator for social awareness
- ▶ Playing a central role in Environmental Sustainability



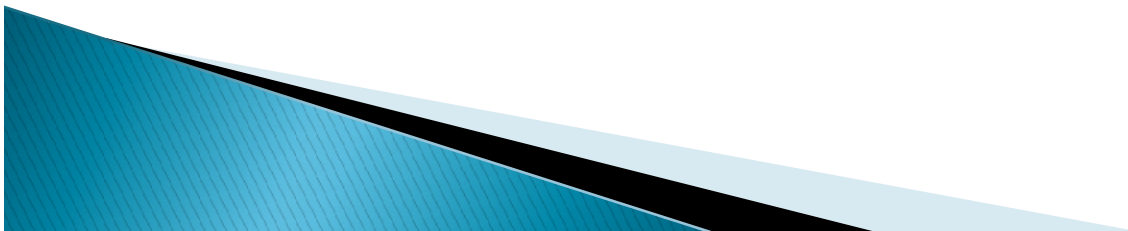
# Dnyandeep initiative

- ▶ Dnyandeep Infotech Company has started Environmental Consultancy Division.
- ▶ Dnyandeep Foundation is conducting Seminars and Conferences in Green Technology
- ▶ A new branch of Dnyandeep Infotech is started at Nagpur under leadership of Dr. N. S. Raman, Retd. Dy. Director, NEERI, an international authority in EIA.



# Dnyandeep Infotech– DYPCOE

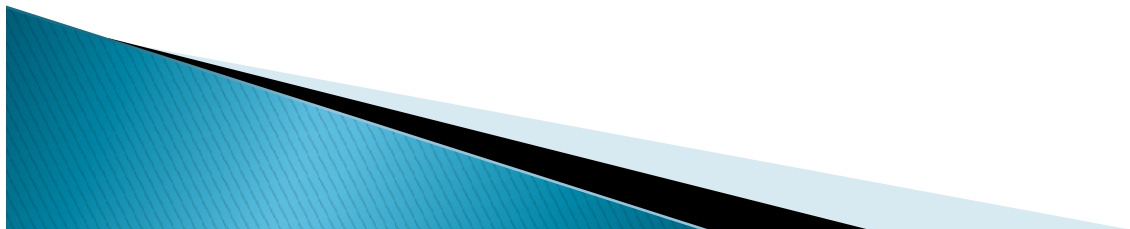
- ▶ Dnyandeep wishes to have mou with DYPCOE for joint collaboration in
  - ▶ Environmental Education
  - ▶ Research and Development
  - ▶ Environmental Consultancy
- 
- ▶ We can achieve the goals by pooling our resources and empowering students to become leaders in this task.



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*Thank You*

