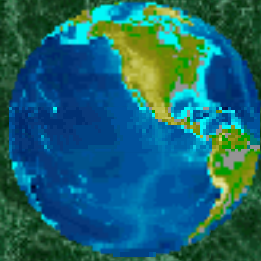


Working together to



protect the environment



Environmental Education & Training

Environmental Management & Pollution Control

Global pollution
Climate change

Urgent change to ensure a
sustainable environment for
our children's children

Depleting
natural
resources



- Management and good use of the environment
- Protection of natural resources
- Stakeholder support and investment
- Legislation, regulation & standards
- Leadership, responsibility & accountability
- Contingency planning

Q. How?

A. Environmental education for ALL

Effective Environmental Education

A national approach

- To promote environmental understanding & participation
- To develop & utilise community talents and commitment
- To encourage long-term thinking & solutions
- To compliment government policies & legislation
- To educate in both formal & non-formal settings
- To coordinate activities & best practices

A sustainable future depends on environmental protection becoming automatic in our everyday lives

Objectives

- To raise awareness
- To promote new perspectives & values
- To develop knowledge & skills
- To change processes & behaviour



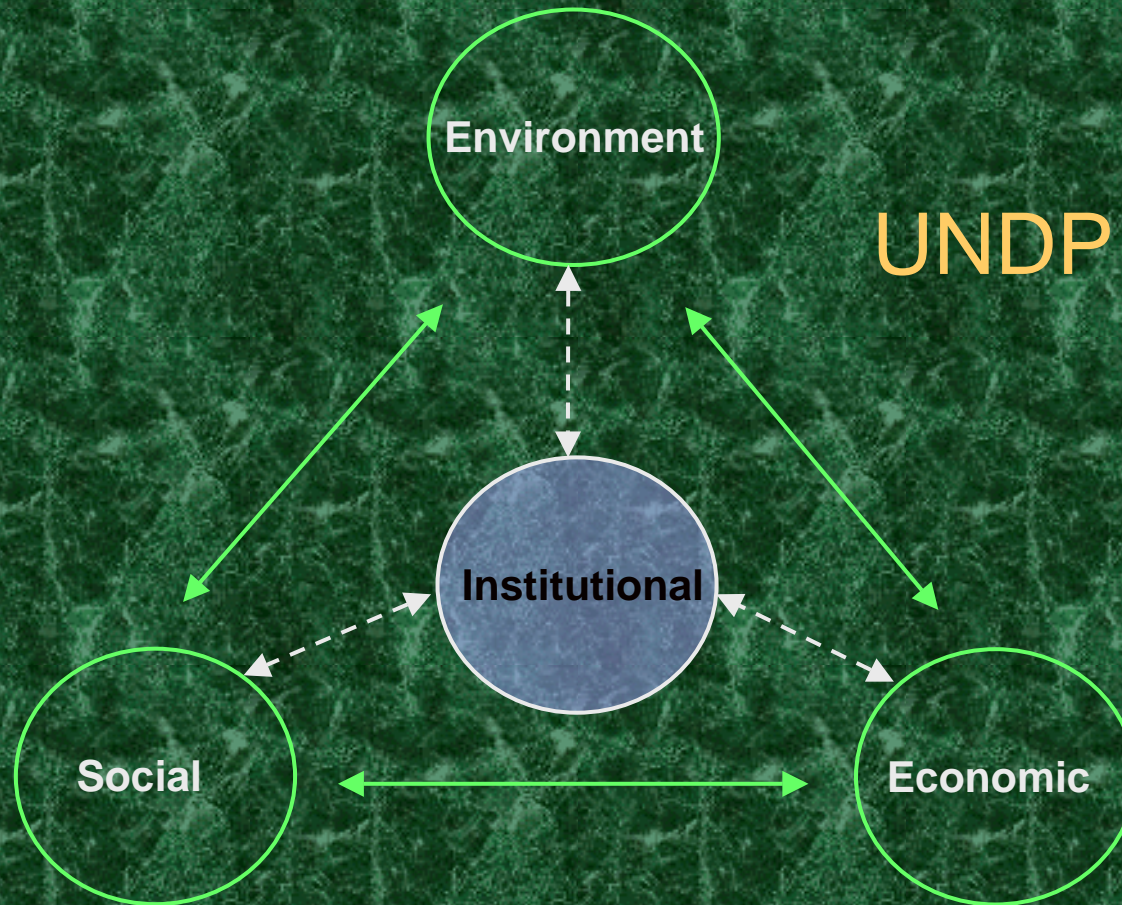
An environmental culture for ALL

Key Requirements

- To involve everyone
- To improve environmental outcomes
- To meet new challenges with ongoing education policies and programs
- To acknowledge and incorporate the environment with social & economic needs

A nation's environmental objectives should be accorded the same priority as its social and economic objectives

Sustainable Development



UNDP Model

An Enduring Environmental Culture

There is no prescriptive cure; all countries & situations are different

Communicate
Urge
Lead
Team work
Understand
Recognise
Empower

High standards of environmental awareness
=
more efficient and more effective performance

Managing the Future

Leadership for a Sustainable Environment

The cornerstones for
effectiveness in
Environmental Protection
and
Sustainable Development



- ability to lead
- environmental awareness
- commitment to the challenge

The Way Forward

- Raise the profile of environmental education
- Coordinate education activities at national level
- Provide funding and support for environmental education organisations
- Create and provide access to quality education media & materials
- Train the trainers & provide career incentives
- Create initiatives for sustainable development projects & training

Introduce processes & practices that deliver a sustainable future for your nation and humanity

It's a Challenge

Environmental education is a vast area, involving:

- The entire population
- All aspects of environmental impact
- Differing sectors with their own specific needs and environmental problems & issues
- Diverse audiences with different levels of ability to absorb and apply information

***Change cannot happen overnight
This is a starting point; there is no end date***

Environmental Aspects include:-

- **Water** – quality & quantity of drinking water, waste water, sewage systems, water table, rivers, seas
- **Air** – indoor, outdoor
- **Noise** – industry, roads, airports
- **Food** – food chain contamination, hygiene
- **Waste** – solid, hazardous & non-hazardous, sludges, slurries, treatment/transportation/disposal
- **Land** – contamination, pollution, urban/rural interfaces
- **Radiation** – natural/man-made sources
- **Nature** – wild life, plants, trees, animals, birds
- **Quality of life** – housing, urban/rural communities, living/working conditions, health & safety, cultural heritage

Some Sectors & Issues ...

- **Industry** – environment needs to be a business issue, schemes to encourage voluntary effort, collective actions to take the lead in meeting environmental challenges
- **Construction** – energy efficient, greener buildings, sustainable development
- **Energy** - secure, diverse, sustainable & affordable energy, alternative & renewable energy, energy efficiencies, reduced emissions
- **Transport** – reduced emissions, greener motoring
- **Agriculture** – forests, erosion, land use
- **Tourism** – water resources, waste, wild life

All need an awareness of the balance between economic growth and long-term environmental protection

Who needs training?



Children



Adults



Companies



Organisations

- School, college & university students
- Government departments
- Local authorities
- Industry regulators
- Industrial, construction & commercial corporations and businesses
- Professions; medical, legal, etc



Private Sectors



Public Sectors

EVERYBODY!

**** from the CEOs to the cleaners ****

Catalysts for Change

- Goals for schools, at all levels; from the very young to college & university students
- Vocational & professional training
- Industrial and commercial corporations & businesses taking the lead
- A national environmental education body
 - community leaders, environmental experts, education leaders, industry representatives, etc
- A national centre of excellence, e.g. a university
 - with links to educational, business, community & government organisations

Mobilise and focus the nation's intellectual resources

Communication & Resources

- Working group
 - environment, education & media experts
- Popular media
 - non-formal education - newspapers, magazines, TV, etc
- Events & promotions – e.g. target awareness days
- Education website
 - as a resource for quality environmental education materials
- Resources from the Internet & other countries
- e-Learning
- Currently available environmental education resources
- Network of resource centres to share knowledge & promote best practices

Formal Education

- Specific environmental qualifications, e.g. GCSE, B.Sc., M.Sc.
- Integration of environmental education into diverse mainstream curricula

To ensure all children leave school with:-

- *an understanding of & a concern for the protection of our natural environment*
and
- *the knowledge & skills to contribute to ecologically sustainable development*

Needs of Teachers

- Professional development opportunities
- Training
- Quality resources & materials
- Leadership
- Support from government & the education system

Higher Education

- University courses & environmental qualifications
- Research & development facilities – to investigate impacts, fill gaps, etc
- External links with industry & international experts
- International academic links

Technical & Vocational Training

Examples include:

- Improve the teaching of environmental issues in technical and vocational education
- Establish environmental competency standards
- Link with any National training organisations
- Concept of environmental managers in business
- Conservation and environment skills

As well as awareness it is important to provide the knowledge, value and skills to really make a difference

Training includes ...

- General environmental awareness
- Significant environmental aspects
- First responder, all levels
- Environmental management systems
- ISO14001 accreditation training
- Environmental auditing
- Train the trainer & interpersonal skills
- Waste management
- Water treatment
- Contaminated land assessment
- Health & safety
- And lots more ...

For continual improvement and prevention of pollution

Next Steps

- Identify priority environmental education issues for national action
- Provide strategic advice on environmental education activities
- Draw up a detailed 5-year Environmental Education Action Plan
- Assign roles & responsibilities
- Set up a national body & working groups

MPCEE Services

- Provision of initial consultancy
- Assistance with the creation of a national action plan
- Ongoing consultancy, advice and support
- Reviews, monitoring and reports
- Ongoing changes, in response to ever changing circumstances & new knowledge
- Wide range of training courses, which can be tailored to specific needs
- Seminars, conferences, director briefings, workshops, etc
- Sourcing of international expertise and technologies

***“Protect the environment;
give your children’s children the right to a pollution free planet!”***

Martin Parr

Coming Soon ...

We had the Industrial Revolution



then the computer-based revolution



NOW, the next revolution is beginning!



A future in which business and environmental interests will increasingly overlap

Businesses of Tomorrow

- Clean sustainable energy
- Carbon free fuel from renewable sources
- Micro-biorefineries
- Biotechnology
- Waste not: **R**ecover, **R**ecycle, **R**euse
- Waste to energy
- Water treatment

The technologies are already here to get started today

Discussion & Questions

