



 International Centre Educational, Scientific and • for Technical and Vocational Cultural Organization • Education and Training

First BIBB Global Partners Meeting

The role of UNEVOC Network in Advancing Greening TVET **Agenda**

Shyamal Majumdar

Head, UNESCO-UNEVOC



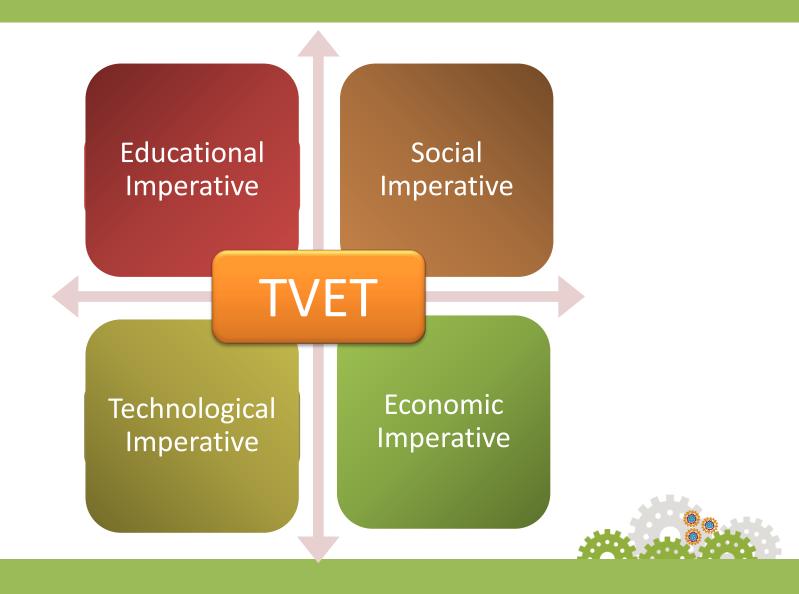


Promoting learning for the world of work

Worldwide Network of TVET Institutions



Time is Changing: TVET at Centre Stage



TVET and ESD become High Priority within UNESCO

Core Area 3

 Acting as a clearinghouse and informing the global debate.

Core Area 1

 Provision of upstream policy advice & related capacity development;

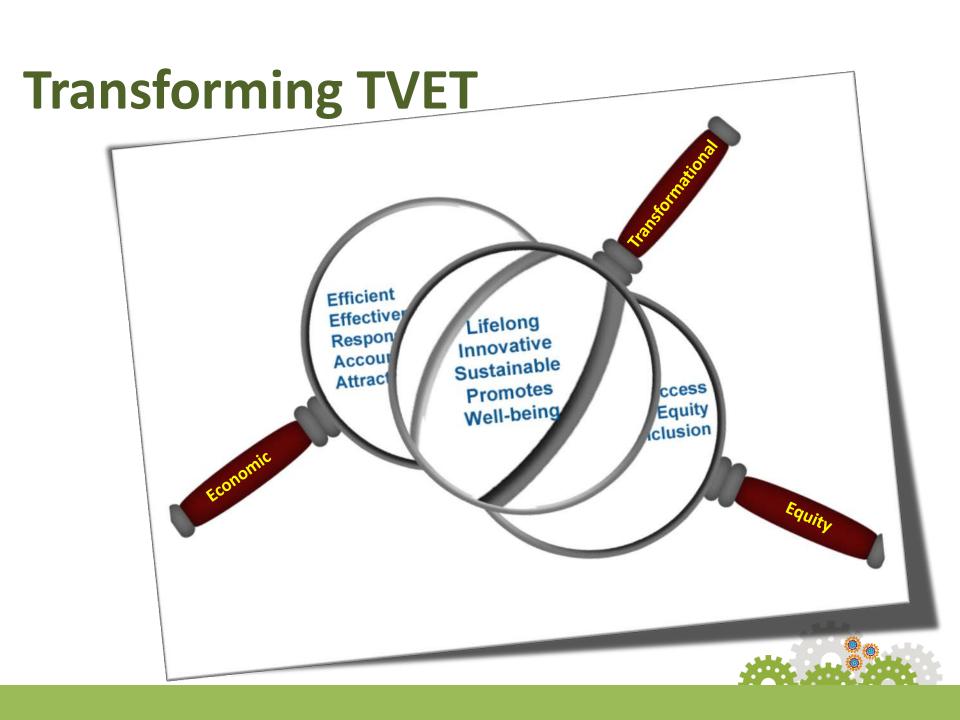
Core Area 2

 Conceptual clarification and monitoring of skills;

3rd International TVET Congress

 Transform TVET first, then scale up.





Current Production and Consumption System is Unsustainable We simply can not grow like this and clean up later

TVET for Sustainable Development, Employability & Citizenship

 Greening TVET is crucial for making transition from emission intensive to cleaner production and services



Factory operation in an industrial city (Pollution source: mining, processing | Source: www.time.com (2007)

There is no S. D. without Education

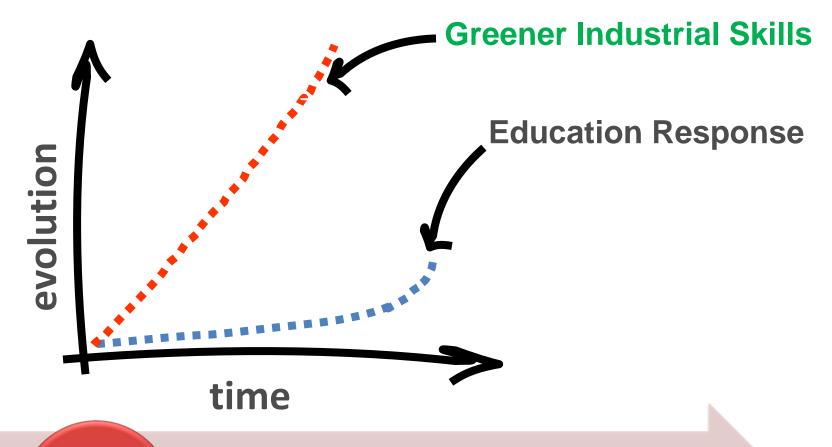




"The crisis can not be solved by the same kind of EDUCATION that helped in creating the problem".

We need a change in the way people think and act





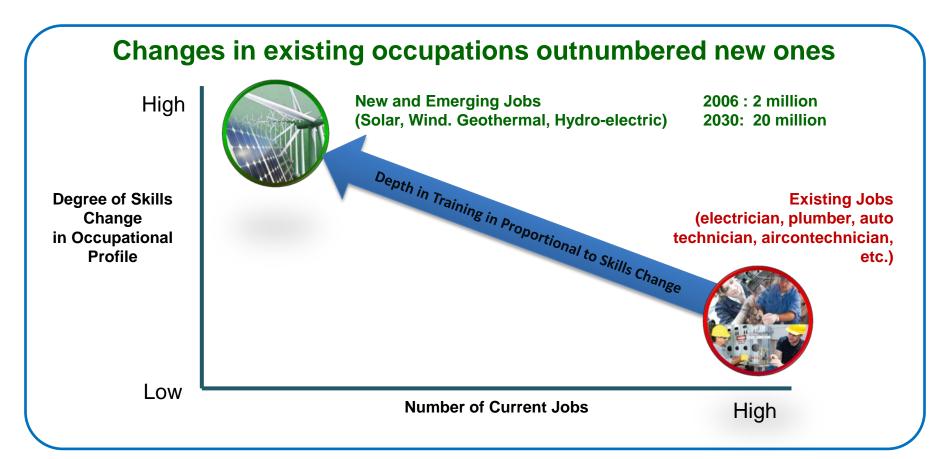
Adaptation

HOWEVER, the DESD campaign penetrated media faster than in education sector/ schools (that are notoriously slow to incorporate scientific, social and environmental problems into mainstream curriculum and pedagogy)

Sahlberg, P et al. Pedagogy for Competitiveness and SD, 2010, European Journal of Ed. Vol. 45 No 2



Key Global Human Resource Challenges in Greening Transition

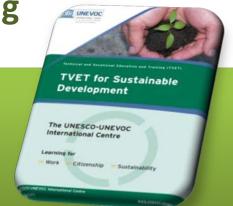


Key Message: Shortage of skill manpower is severe in greening industry (UNEP) (Even in USA & Germany)

How UNEVOC is shaping the Greening TVET Agenda since 2004

1st Bonn Declaration (2004)

"If education is the KEY to any successful development strategy, TVET is the MASTER KEY that can alleviate poverty, improve the quality of life for all and help achieve sustainable development."



ESD: Advocacy, Networking, and Knowledge Sharing

2nd Bonn Declaration (2009) [Mid-Term Review]
Call for Action at Policy Level

- Promote ESD to all of Education: Formal & Non Formal
- Reorient Education & Training to address SD through coherent policies
 Call for Action at Practice level
- Integrate ESD in curriculum and teacher education
- Develop mechanism to transform institution towards greening

Follow up: International Experts Meeting: 2011

- Transforming TVET institutions (Whole Institutional Approach)
- Greening TVET framework and Interagency initiative

International Meeting on

"Extending ESD: Greening TVET Initiative" UNESCO-UNEVOC, Bonn, 2011

What extent of re-thinking and actions are needed at:

- **Institutional Level?**
- **National Level?**
- **III**International Level?
- **III**Industry Level



Three Tier Approach and Strategic Strands to Greening TVET

Three-Level Approach plus one

Institutional Level

- Transforming institution into greening TVET
- Education & Training for SD framework
- Capacity development

National Level

- Coherent and Coordinated Policies for green growth
- Integration of Greening TVET
- Enhancing the profile of TVET

Global Level

- Sharing evidence based policy & practices
- Facilitating multi-directional dialogue
- Forging new partnerships towards
 supporting capacity building and research

+Industry

- Integrating S.D components in all occupations
- Training for greening workplace practices and processes
- Sectorial greening skills development strategies

Strategic Strands for Actions





Transforming institutions for greening TVET

Transforming TVET: A Whole Institute Approach



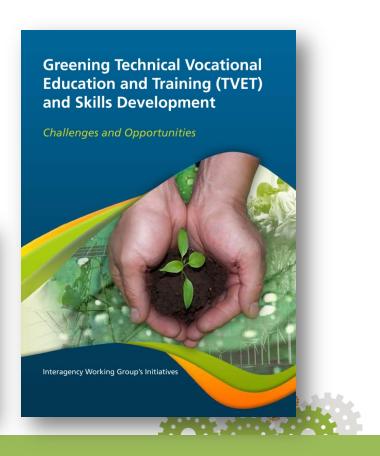


Recent UNEVOC Network Initiatives

- Promising practices
- e-Forum discussion
- Greening TVET framework
- KM and capacity building











Greening Skills Development is a Global Challenge

Requires Global Response

Inter-Agency Working Group







European Centre for the Development











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Main Objectives of IWG

- Awareness raising and advocacy
- Information and knowledge sharing
- **Development of knowledge and learning resources**
- **Capacity building and skill development**



Key concerns

- C0: Incorporating greening skills strategies in national greening policy
- C1: Cascading greening TVET policy into practice
- C2: Capacity development at all levels
- C3: Strengthening SD principles in occupations: Training & Retraining
- C4: Multi Stake holder partnership at all levels
- C5: Knowledge sharing and clearing house functions
- C6: Curriculum and teacher development
- C7: Integrating generic and higher order thinking skills





Without **Education**, there can be NO Sustainable Development



Innovations and skills requirement

Dematerializing products

Developing new products that require less materials and energy over their lifecycle



Increasing process - efficiency

Developing new products that require less materials and energy over their lifecycle



Minimizing process emissions

Adopting clean technologies to minimize the generation of nonenergy greenhouse gases



Switching to low-carbon inputs

Using renewable and low – carbon sources of energy and materials



Closing the carbon loop

Recovering organic wastes for reuse as feedstock for energy and materials



