



Online Conference

Bridging Asia-Pacific and Europe: New Qualifications and Competencies in TVET

27-28 April 2021



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National Council of
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ADVANCING VOCATIONAL EDUCATION & TRAINING IN INDIA

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Presentation Outline

1

Background

2

Advancing Vocational Education & Training in India

3

GREENING TVET: New Initiatives

4

Key Factors of Success and Major Challenges Faced

5

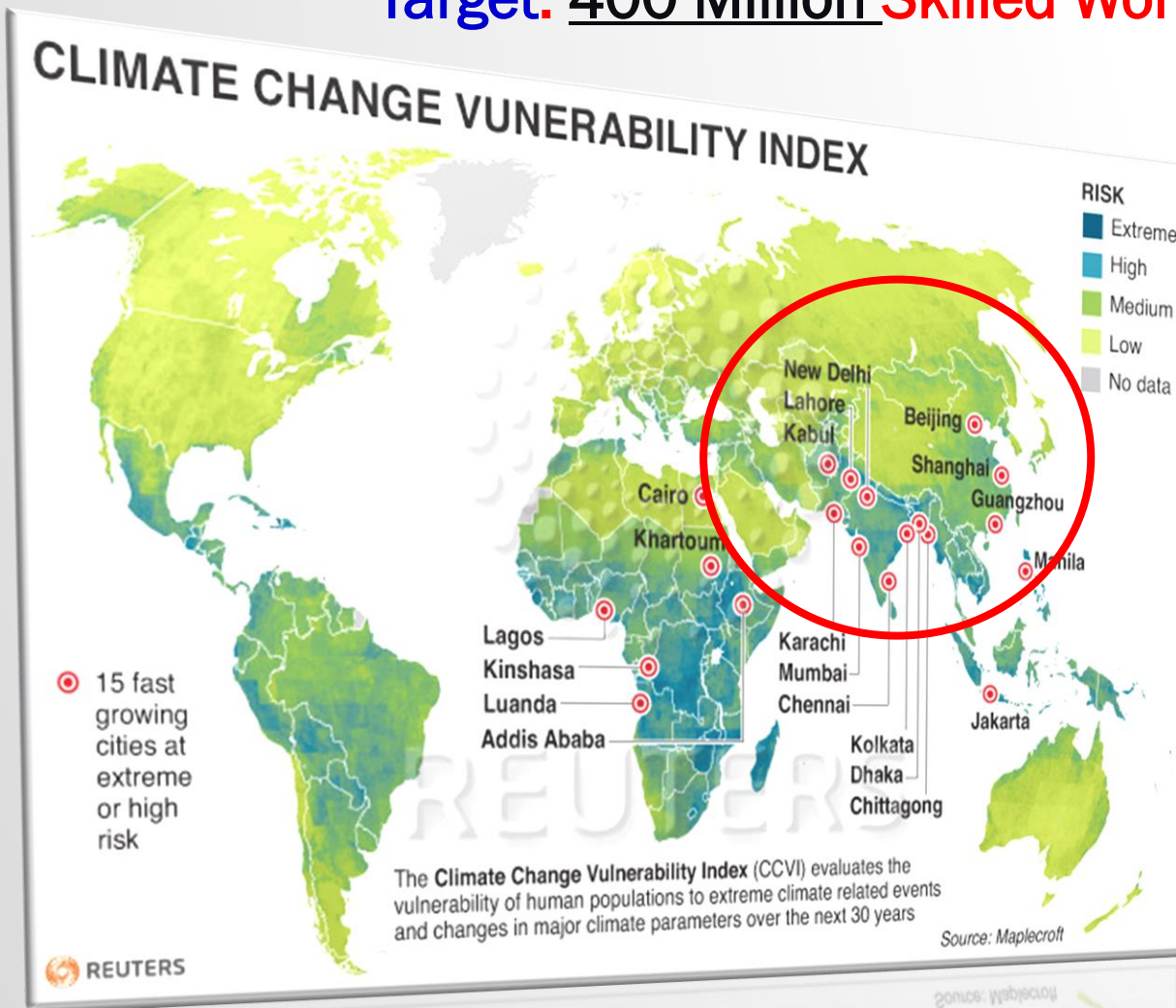
Concluding Remarks



CLIMATE CHANGE & VULNERABILITY



INDIA: 1.39 Billion Population & Average Age 27.9 yrs.
Target: 400 Million Skilled Workforce by 2022; 5 Trillion by 2024



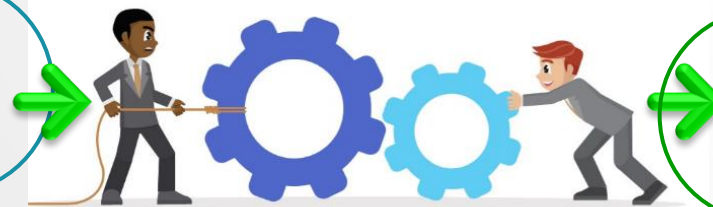
“The crisis of un-sustainability can not **be** solved by the kind of education that helped create the problem”.



■ Developed Market ■ Developing Market ■ Undeveloped Market

We need a new way of thinking, new methodologies of teaching & new content to create Sustainable Future!

Business as Usual Approach



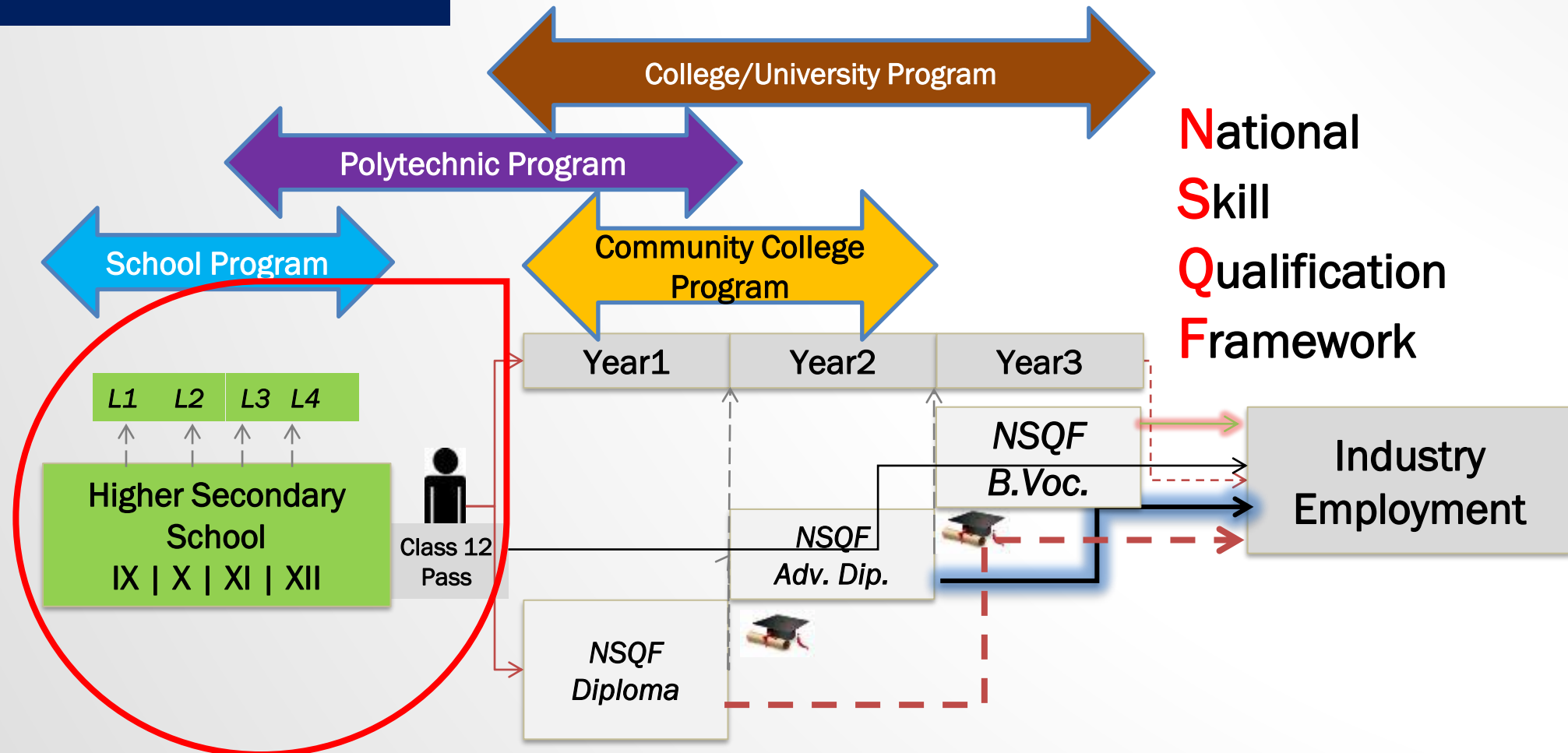
Sustainable Development Approach

INDIA: STRATEGIC ACTION AGENDA

National Skill Development & Entrepreneurship 2015

Skilling on a large Scale at Speed with high Standards

National Education Policy, 2020



PROMOTING GREENING TVET AT PSSCIVE, BHOPAL

Part 1

Introducing
Green Skills
in VET
Curriculum

Part 2

Greening
Institution



Vocational Education & Training in School Curriculum

(CLASS 9 & 10 : 200 HRS) (CLASS 11 & 12 : 300 HRS)

Part 1



Employability Skills (37%)

Communication Skills

ICT Skills

Self-management

Entrepreneurial Skills

Green Skills

Vocational Skills (63%)

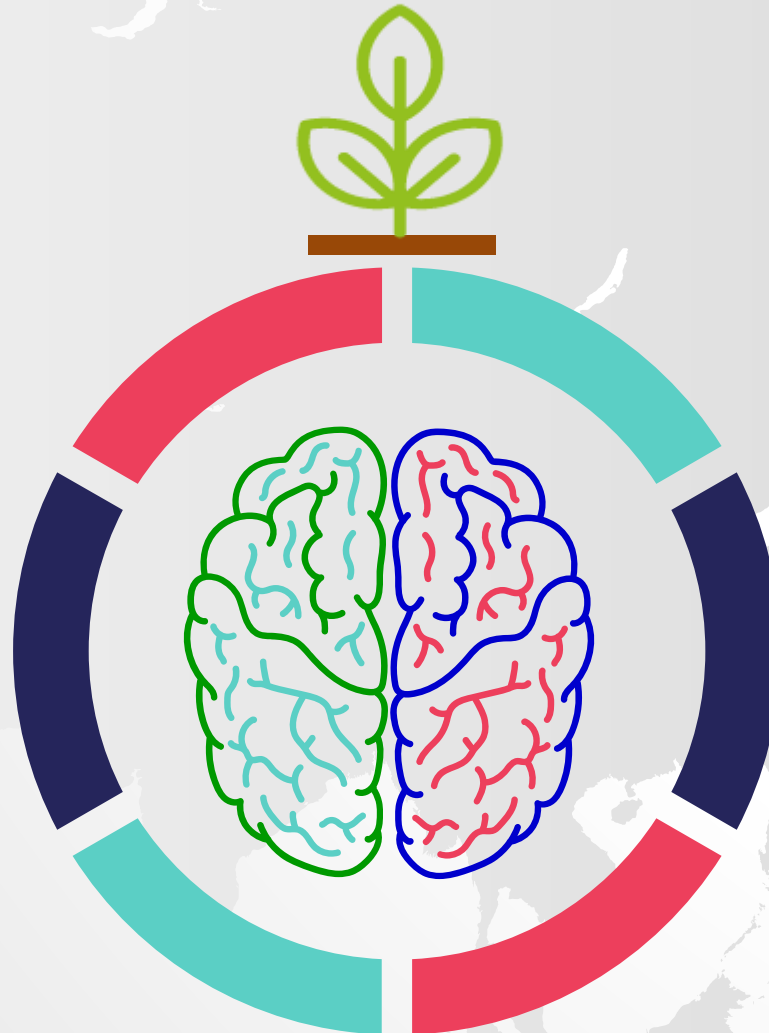
Sector &

Job Specific Skills

CATCH THEM YOUNG: FOR SDG 2030

- VET is **developing** a **significant** no. of **workforce** for creating, re-creating & transforming resources, often with environmental implications.

- Vocational education reforms most important tool in realising **SDG 2030** & **Sustainability**



- Increase **environmental awareness**
- Aware @ **environmentally friendly technologies**,
- Change the **mind-set** and prepare for **new green occupations**.

Class 9: UNIT 5: GREEN SKILLS – I

Learning Outcome	Theory (07 Hrs)	Practical (03 Hrs)	Duration (10 Hrs)
1. Demonstrated the knowledge of the factors influencing natural resource conservation	1. Introduction to environment 2. Relationship between society and environment ecosystem and factors causing imbalance 3. Natural resource conservation 4. Environment protection and conservation	1. Group discussion on hazards of deteriorating environment 2. Prepare posters showing environment conservation 3. Discussion on various factors that influence our environment	05
2. Describe the importance of green economy and green skills	1. Definition of green economy 2. Importance of green economy	1. Discussion on the benefits of green skills and importance of green economy 2. Prepare a Poster showing the importance of green economy with the help of newspaper/ magazine cuttings	05
		Total	10

Class 10: UNIT 5: GREEN SKILLS - II

Learning Outcome	Theory (07 Hrs)	Practical (03 Hrs)	Duration (10 Hrs)
1. Demonstrate the knowledge of importance, problems and solutions related to sustainable development	1. Definition of sustainable development 2. Importance of sustainable development 3. Problems related to sustainable development	1. Identify the problem related to sustainable development in the community 2. Group discussion on the importance of respecting and conserving indigenous knowledge and cultural heritage 3. Discussion on the responsibilities and benefits of environmental citizenship, including the conservation and protection of environmental values 4. Preparing models on rain water harvesting, drip / sprinkler irrigation, vermicompost, solar energy, solar cooker, etc.	10
		Total	10

Class 11: UNIT 5: GREEN SKILLS - III

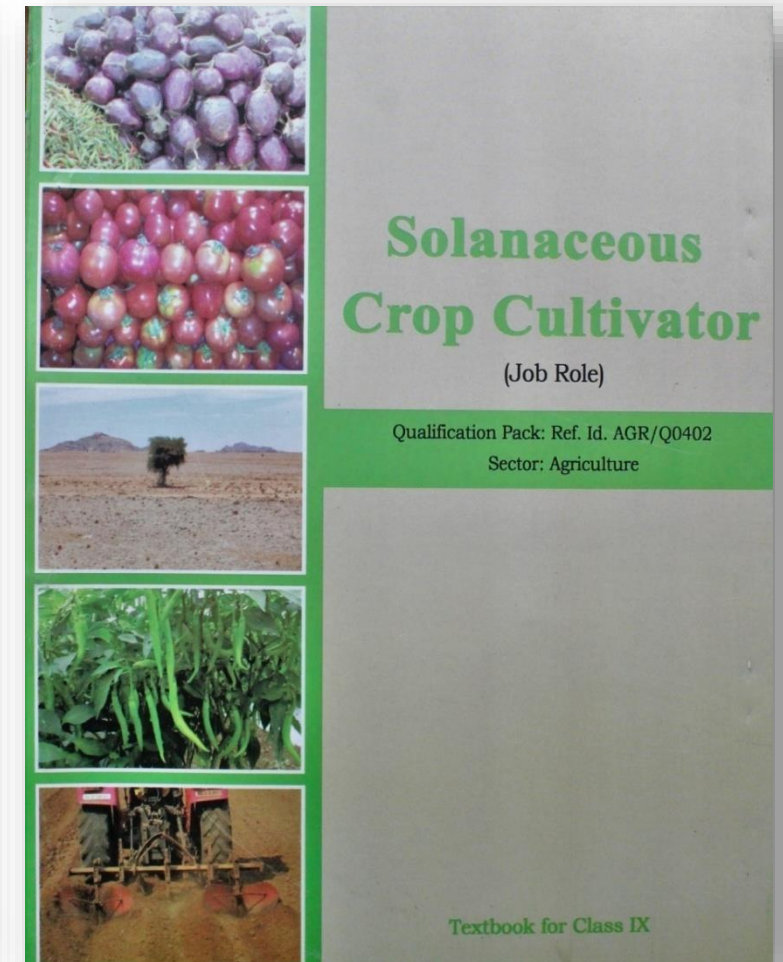
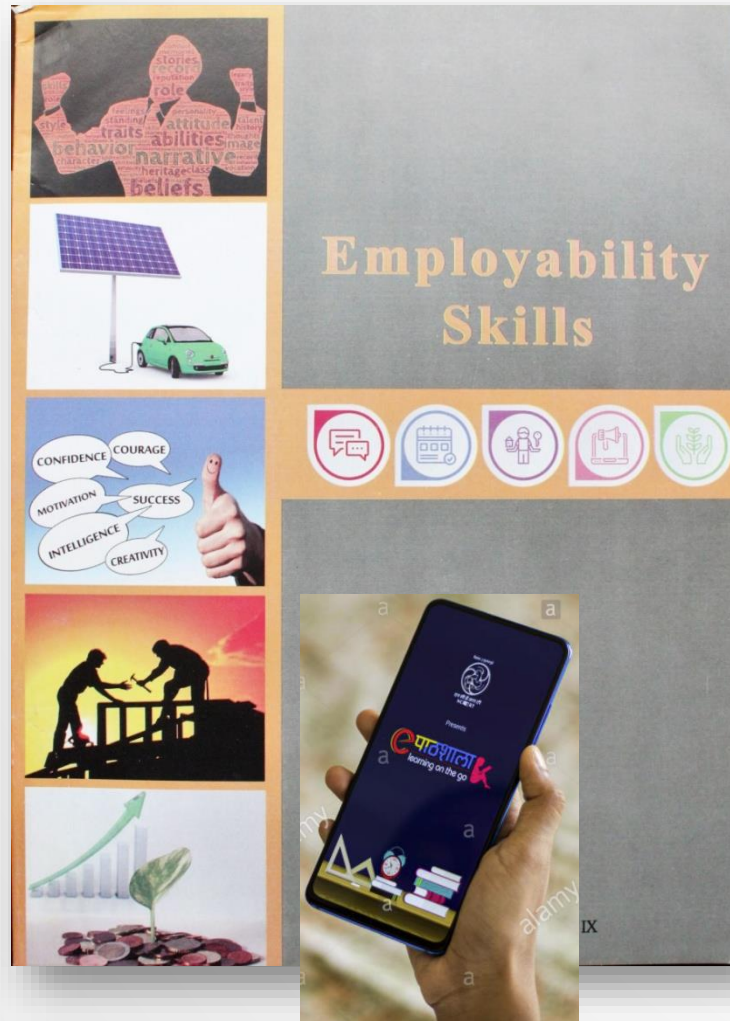
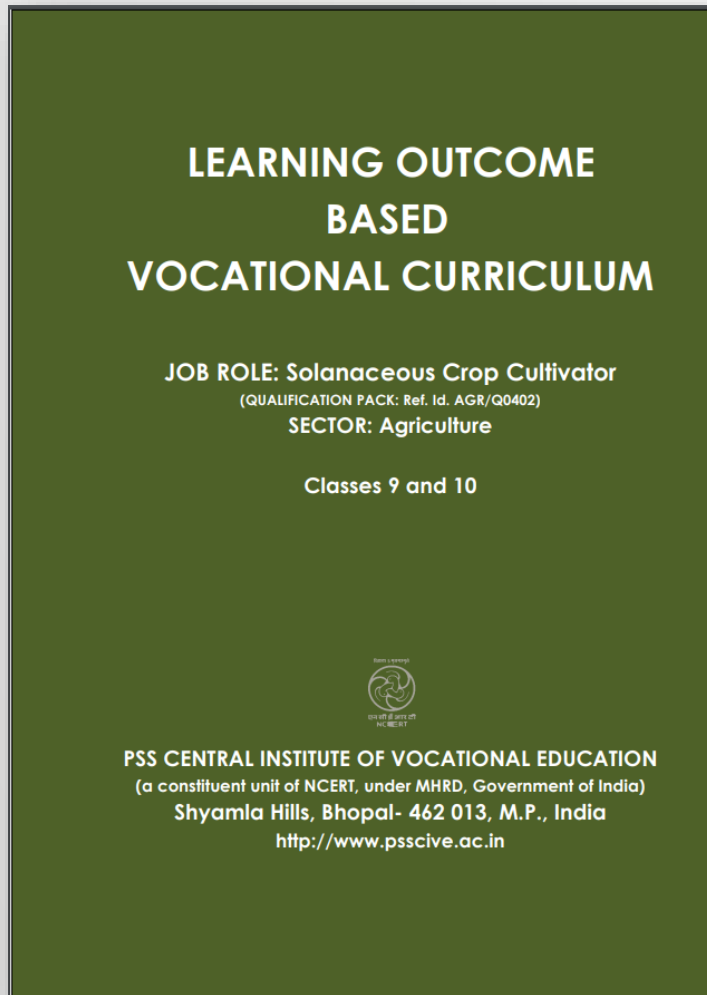
Class 12: UNIT 5: GREEN SKILLS - IV

Learning Outcome	Theory (07 hrs)	Practical (08 hrs)	Duration (15 Hrs)	Learning Outcome	Theory (05 hrs)	Practical (10 hrs)	Duration (15 Hrs)
1. Describe importance of main sector of green economy	1. Main sectors of green economy- E-waste management, green transportation, renewal energy, green construction, water management Policy initiatives for greening economy in India	1. Preparing a poster on any one of the sectors of green economy 2. Writing a two page essay on important initiatives taken in India for promoting green economy	08	1. Identify the role and importance of green jobs in different sectors	1. Role of green jobs in toxin-free homes, 2. Green organic gardening, public transport and energy conservation, 3. Green jobs in water conservation 4. Green jobs in solar and wind power, waste reduction, reuse and recycling of wastes, 5. Green jobs in green tourism 6. Green jobs in building and construction 7. Green jobs in appropriate technology 8. Role of green jobs in Improving energy and raw materials use, limiting greenhouse gas emissions, minimizing waste and pollution, protecting and restoring ecosystems and in support adaptation to the effects of climate change.	1. Listing of green jobs and preparation of posters on green job profiles 2. Prepare posters on green jobs.	15
2. Describe the major green Sectors/Areas and the role of various stakeholder in green economy	1. Stakeholders in green economy 2. Role of government and private agencies in greening cities, buildings, tourism, industry, transport, renewable energy, waste management, agriculture, water, forests and fisheries	1. Preparing posters on green Sectors/ Areas: cities, buildings, tourism, industry, transport, renewable energy, waste management, agriculture, water, forests and fisheries	07				
Total			15	Total			15

11

12

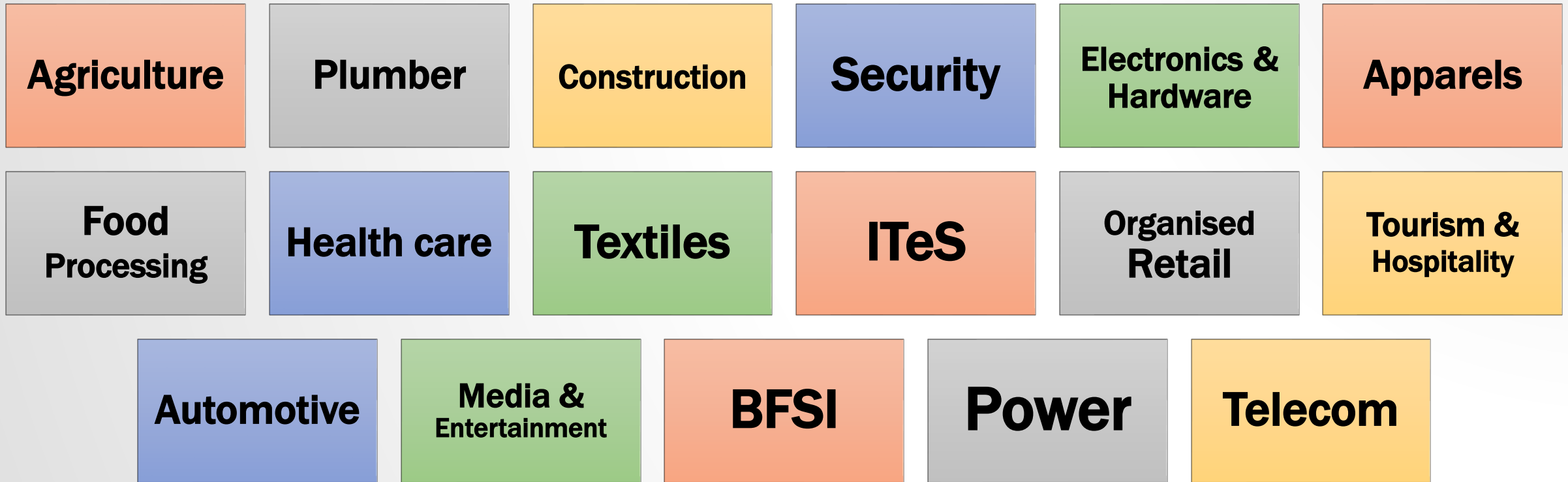
17 JOB SECTORS & 152 JOB ROLES



http://www.psscive.ac.in/stud_text_book.html

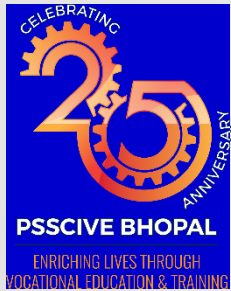
http://www.psscive.ac.in/Employability_Skills.html

17 JOB SECTORS & 152 JOB ROLES

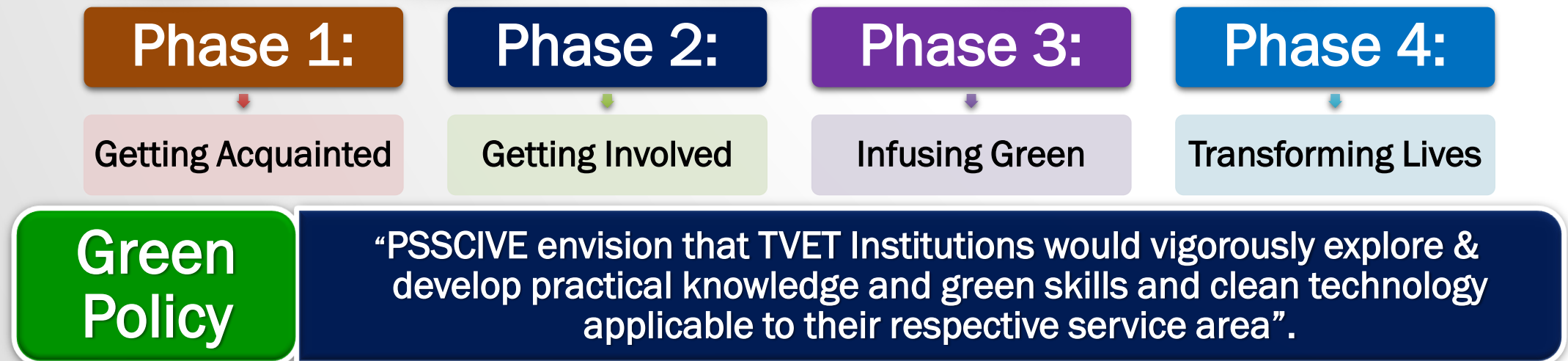


KEY DIMENSIONS OF GREEN PSSCIVE MOVEMENT

Part 2



Source: Dr Majumdar 2010



Major Challenges Faced

- Inertia, and Lack of Understanding @ SDG
- Willingness to Learn & Experimentation
- Attitude- Status quo maintain, Inflexibility
- Lack of Passion/ Commitment/Teamwork

Key Factors of Success

- Strategic Focus
- Collective Decision making & Transparency
- Emphasis on building Green Culture and Professional Ethics
- Care & Value Environment



We ourselves feel that what we are doing is just a drop in the ocean. But the ocean would be less because of that missing drop.

Mother Teresa

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