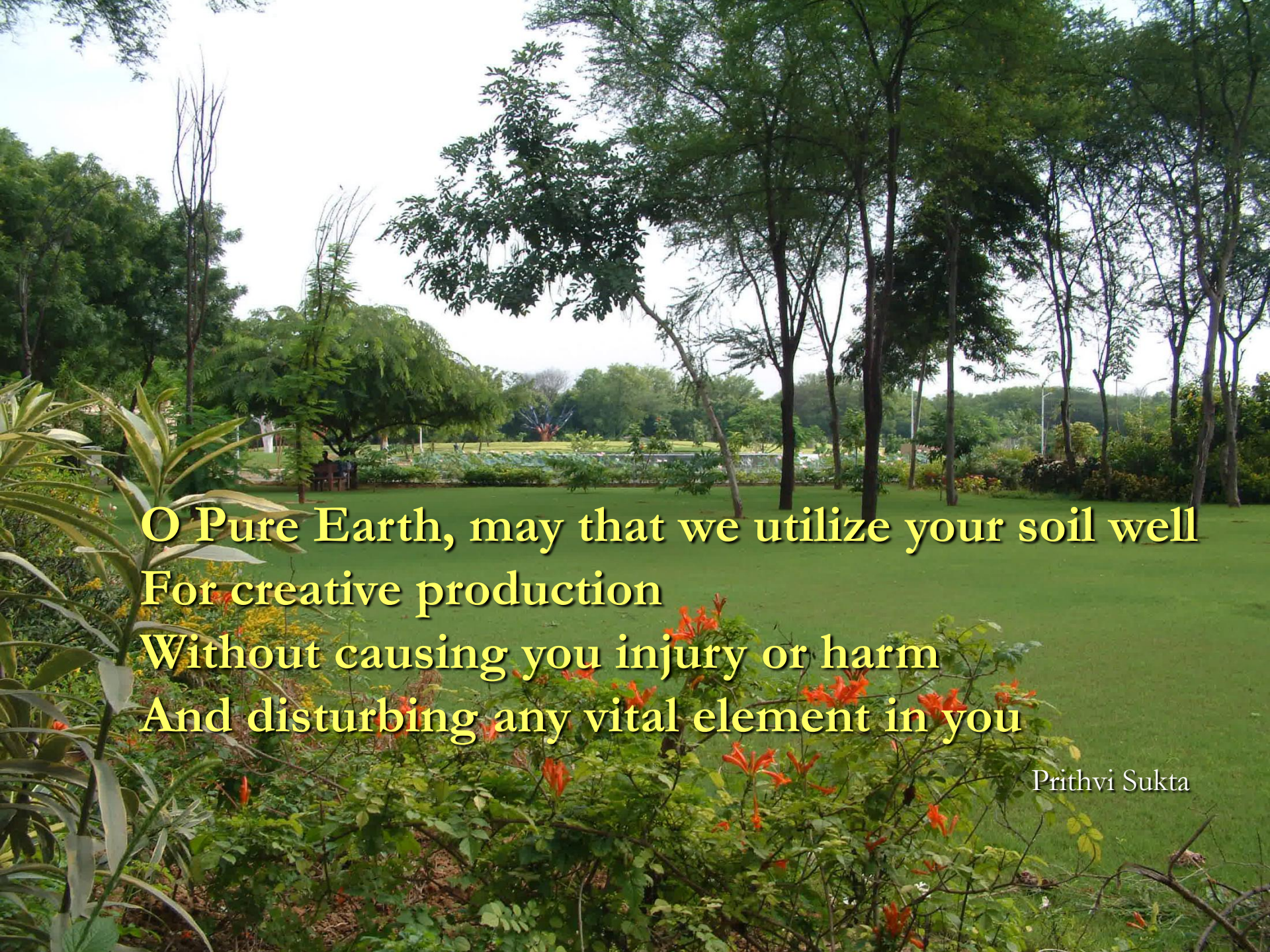


Indian Political and Socio-Economic Environment



Arvind P Kudchadker, PhD
Professor Emeritus, IIT Bombay
August 2011

A photograph of a lush green park. In the foreground, there are various plants, including some with bright orange flowers. The middle ground is a wide, green lawn. In the background, there are several tall, leafy trees and a few people walking. The sky is overcast.

O Pure Earth, may that we utilize your soil well
For creative production
Without causing you injury or harm
And disturbing any vital element in you

Prithvi Sukta

Birth of India, August 15, 1947



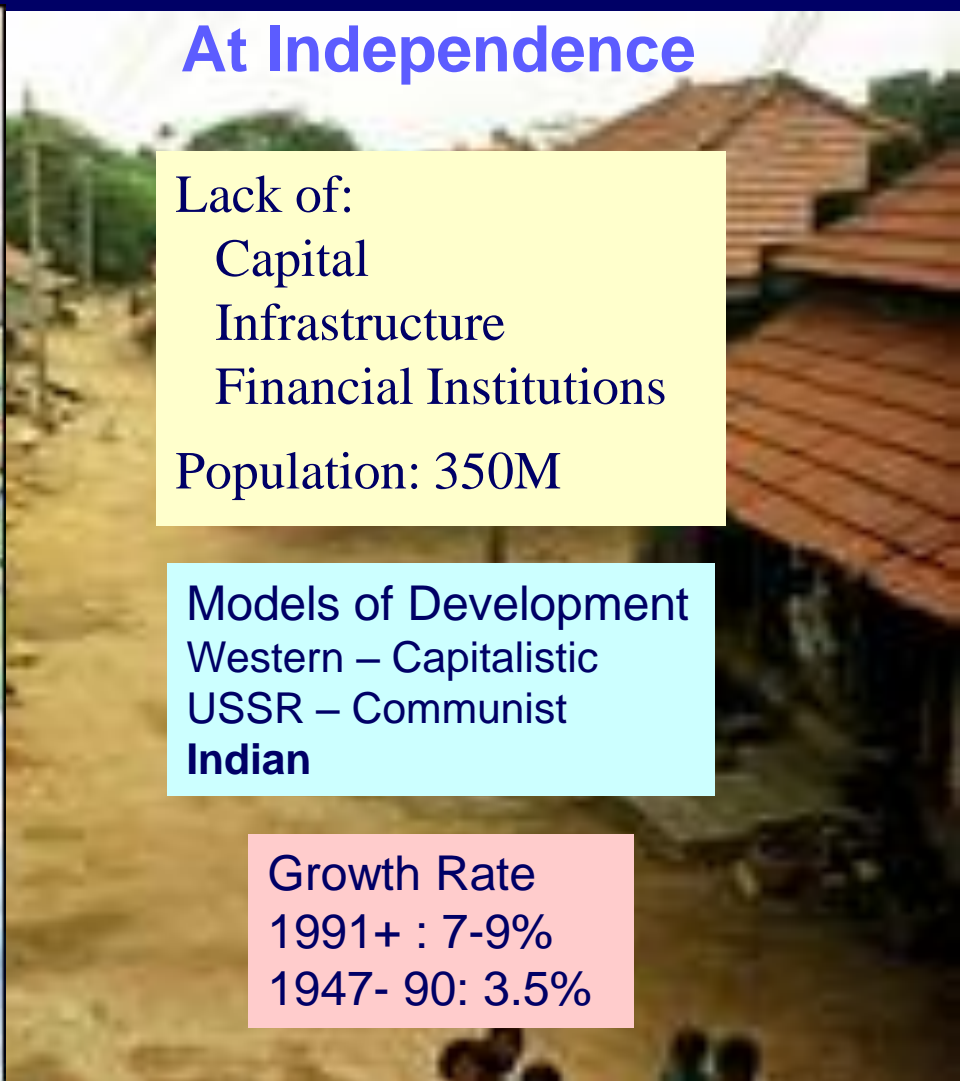
At Independence

Lack of:
Capital
Infrastructure
Financial Institutions
Population: 350M

Models of Development
Western – Capitalistic
USSR – Communist
Indian

Growth Rate
1991+ : 7-9%
1947- 90: 3.5%

Tryst with destiny



Gandhian Model of Development

- ❖ Swadeshi
- ❖ Economic Equality
- ❖ Non-Exploitation
- ❖ Non-possession
- ❖ Trusteeship
- ❖ Decentralized
 - Political & Economic Powers

Panchayati Raj
Cooperatives
Village Industries
Wholistic Living
New Technology
with a difference
Manual labour focus
Purchasing power

No Unemployment
No Homelessness
Full Recycling
Self-sufficiency
Local Energy Production
Free Education &
Healthcare

Truth and non-violence.

Nehruvian Model of Development



Public (State Financed) +
Private Industry
(Mixed Model)
Heavy Industry
(Strong Foundation)
Small, Medium, Large Scale
Import Substitution

IITs, RECs
(Best Global Models)
National & Regional Labs
(R&D for Self-sufficiency)
Atomic Energy
Space
Major Dams
(Agriculture & Power)

Mixed Model.

Policy Effects

License Raj

Functioning under severe controls

Policy Effects

Small
Scale

Small Businesses

Medium
Scale

Medium Businesses

Large
Scale

Large Businesses

'Bottled' individual enterprise

1991

Liberalisation

Economic Freedom

Post-Liberalization

License Raj

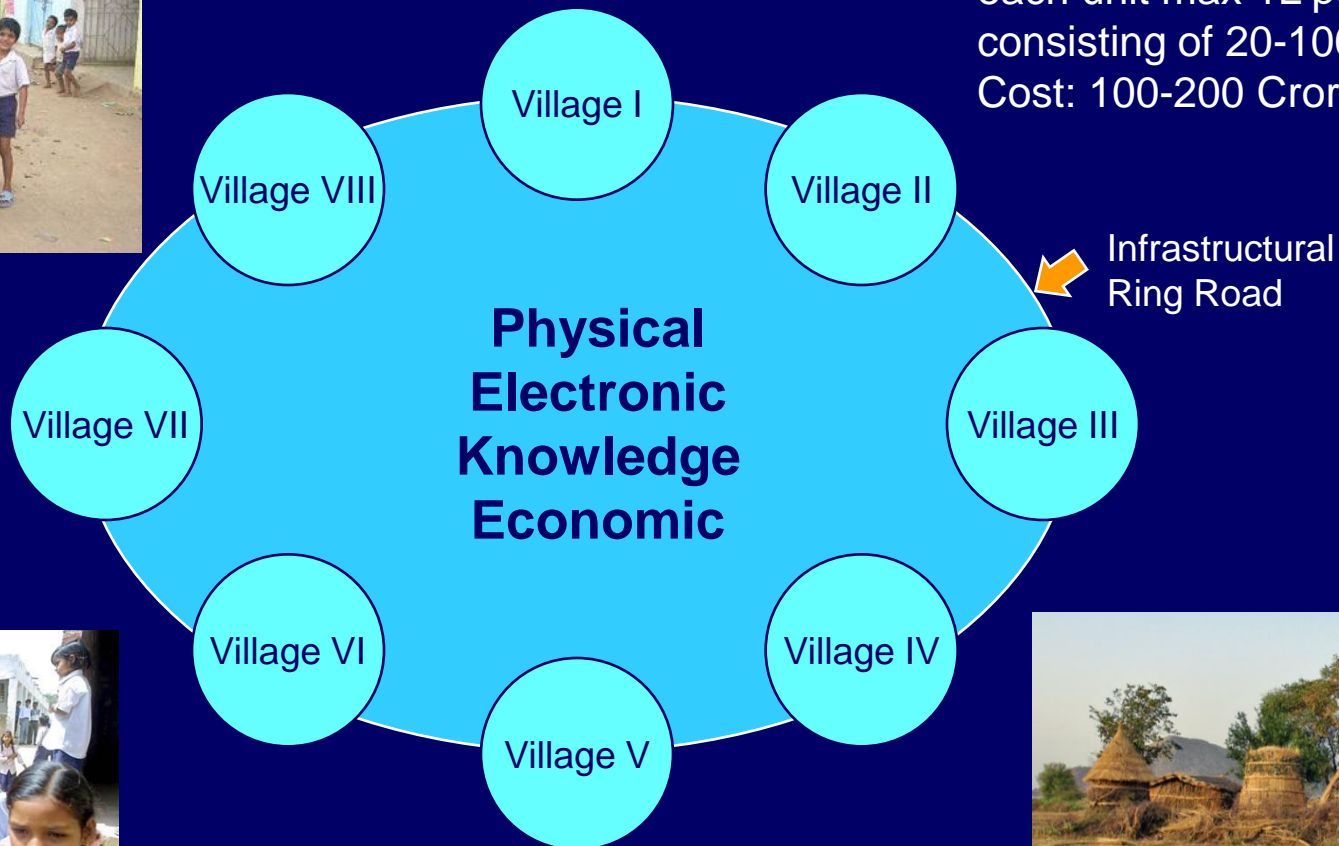


Inspector Raj

Unethical Practices

Kalam's PURA Model of Development

Need 7,000 PURA complexes
each unit max 1L people,
consisting of 20-100 villages
Cost: 100-200 Crores



A P J Abdul Kalam

PURA (Providing Urban Amenities in Rural Areas)

India a developed Nation by 2020.

Paradigm Shift



Be the change you want to see in the world.

Mahatma Gandhi



Transformation in thinking needed.

Indian Constitution

Selected Articles of the Indian Constitution

- ❖ Article 14. Equality before law
- ❖ Article 15. Prohibition of discrimination on grounds of religion, race, caste, sex or place of birth.
- ❖ Article 16. Equality of opportunity in matters of public employment
- ❖ Article 17. Abolition of Untouchability
- ❖ Article 21. Protection of life and personal liberty
- ❖ Article 24. Prohibition of employment of children in factories, etc
- ❖ Article 44. Uniform civil code for the citizens
- ❖ Article 243D. Reservation of seats

Fundamental Rights for Every Citizen.

Great Books

- **'An Autobiography: The Story of My Experiments with Truth' by M K Gandhi**
- **'Discovery of India' by Pandit Nehru**
- **The Complete Works of Swami Vivekanand**

Enjoy reading

Changing World

Political domination

Economic domination

Knowledge domination

Software

Design

India's greatest advantage.

The Haves and the Have-Nots

The GAP

Inclusive growth

Education for the Future

❖ Computer, Mobile & Internet

- ❖ changed our world
- ❖ ultimate impact?
- ❖ driving force??
- ❖ ubiquitous!

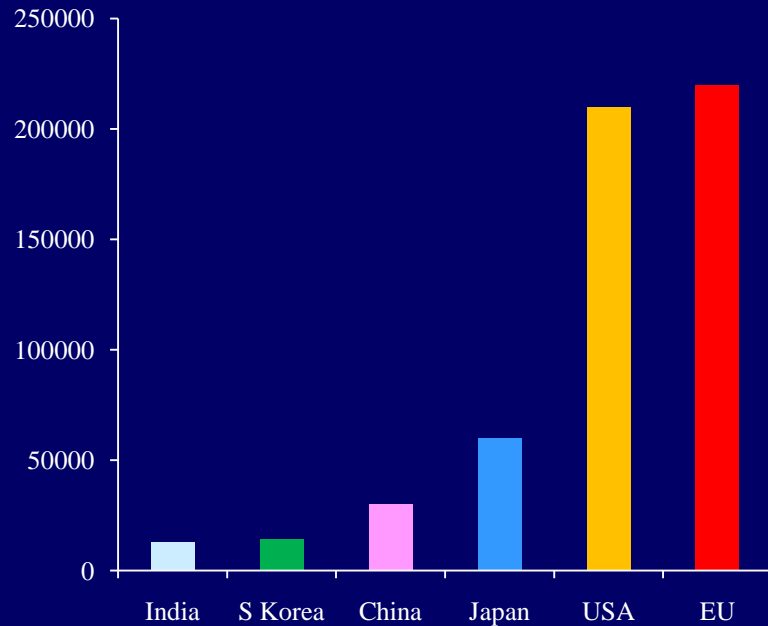
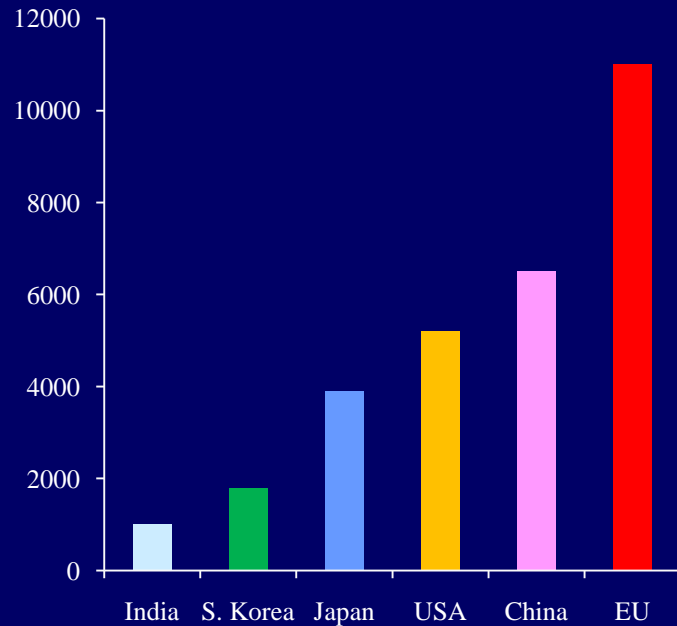
❖ Technology Role

- ❖ education
- ❖ business
- ❖ economy
- ❖ government
- ❖ society

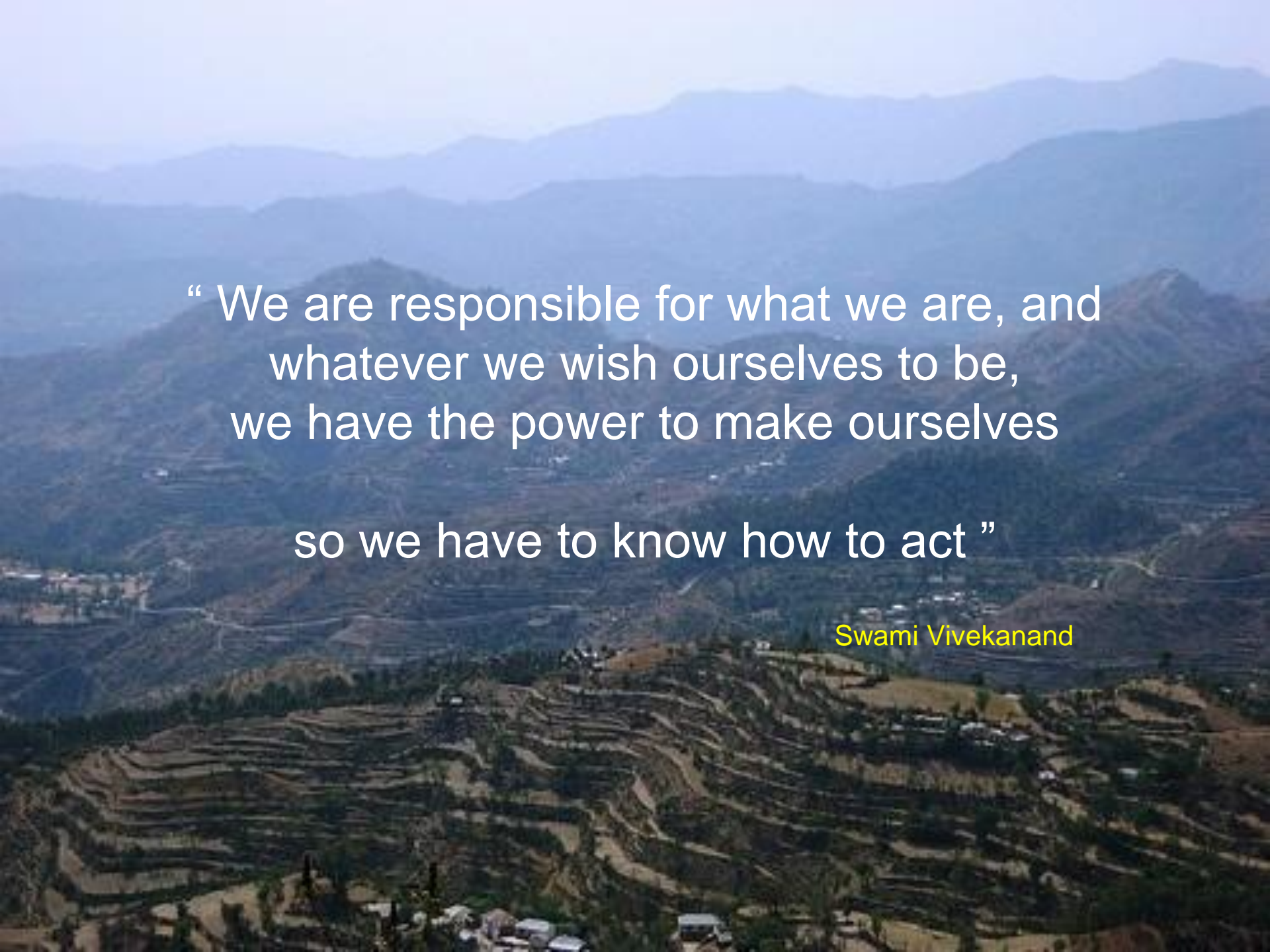
khanacademy.com

Paradigm Shift.

India: PhDs & Publications in Engineering



Research-led Teaching Institution.

A scenic view of a mountain valley. In the foreground, there are terraced fields on a hillside, some with small buildings. The middle ground shows a valley with more fields and a few small settlements. In the background, there are layers of mountains, some covered in greenery and others appearing more barren, under a hazy sky.

“ We are responsible for what we are, and
whatever we wish ourselves to be,
we have the power to make ourselves
so we have to know how to act ”

Swami Vivekanand

Mind Without Fear

Where the mind is without fear and the head is held high;
Where knowledge is free;
Where the world has not been broken up
into fragments by narrow domestic walls;
Where words come out from the depth of truth;
Where tireless striving stretches its arms towards perfection;
Where the clear stream of reason
has not lost its way into the dreary desert sand of dead habit;
Where the mind is led forward by thee into ever-widening
thought and action---
Into that heaven of freedom, my Father, let my country awake.

Rabindranath Tagore

The Beginning

