



COMMONWEALTH *of* LEARNING

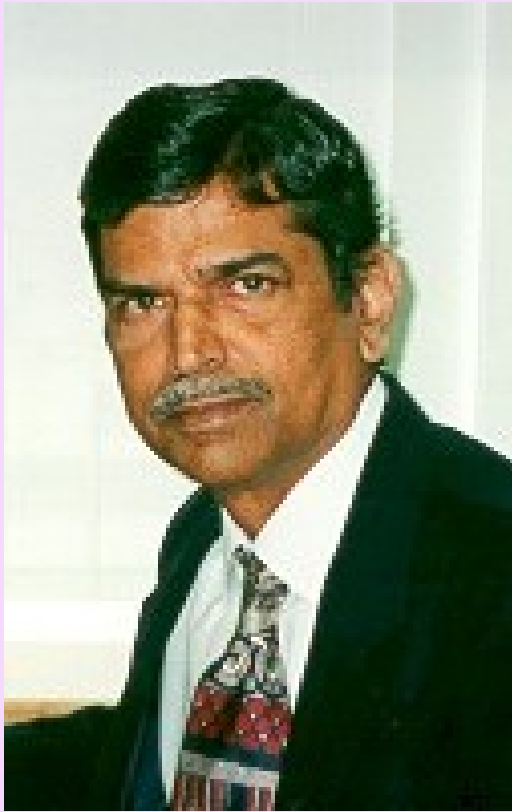


# The Nehru Foundation, Ahmedabad

16 February 2006

The Dr. Vikram Sarabhai  
Memorial Lecture

# Commonwealth of Learning



Krishna  
Alluri



Mohan  
Menon



John  
Daniel

# Commonwealth of Learning



Krishna  
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# The Nehru Foundation, Ahmedabad

16 February 2006

## Technology, Education and Sustainable Development

The Dr. Vikram Sarabhai

Memorial Lecture



# Education for Sustainable Development

# Education for Sustainable Development

- Its importance is overwhelming



# Sustainable Development

Definitions:

*“improving the quality of human life while living within the carrying capacity of supporting ecosystems.”*

# Sustainable Development

Definitions:

*“to meet the needs of the present without compromising the ability of future generations to meet their own needs.”*



A  
global  
tragedy  
of the  
commons

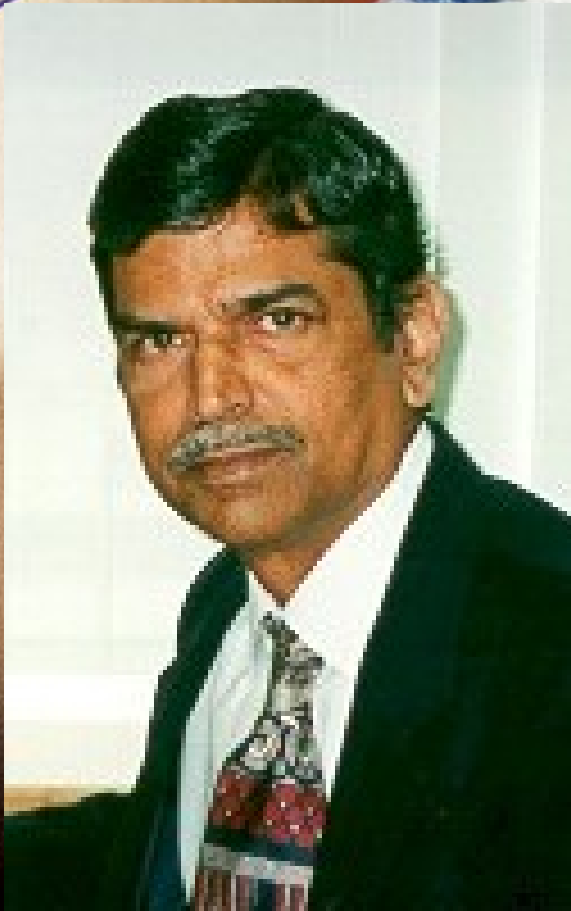
# Education for Sustainable Development

*“Human history is a race  
between education and  
catastrophe”*

H.G. Wells



# COMMONWEALTH *of* LEARNING



# Sustainable Development

Definitions:

*“to meet the needs of the present without compromising the ability of future generations to meet their own needs.”*

# Millennium Development Goals

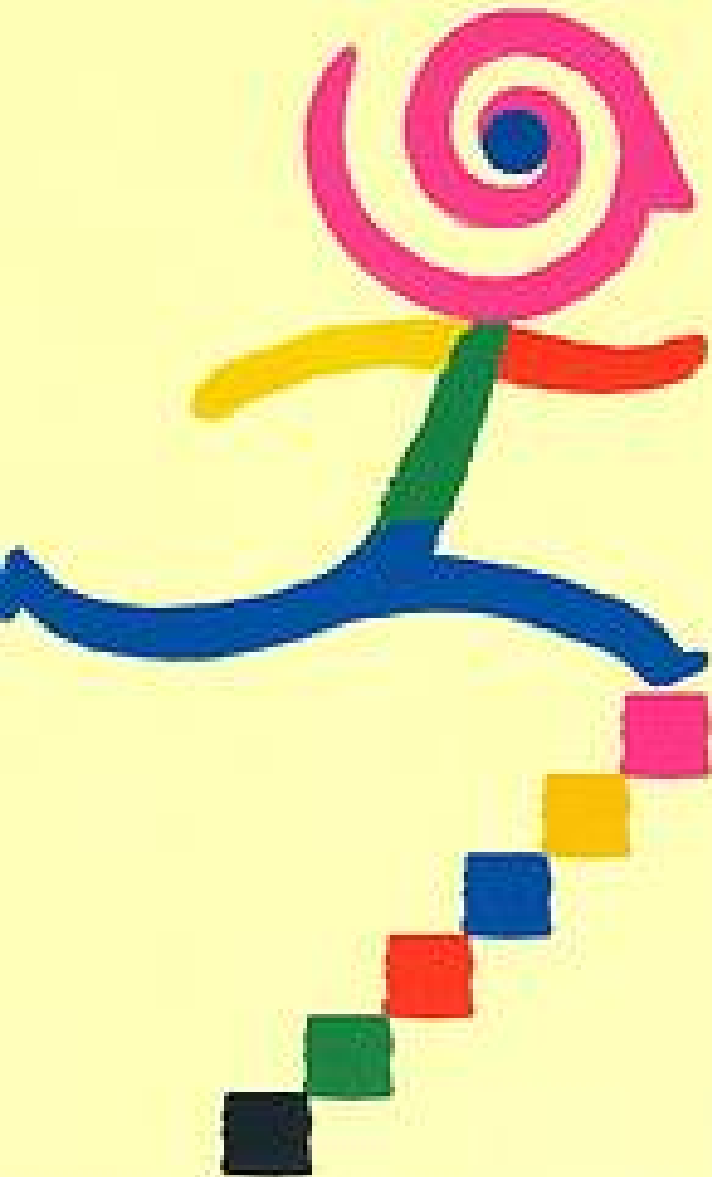
- Poverty and hunger
- Primary education
- Gender equality
- Health
- Environment
- Partnership



# Millennium Development Goals

- Poverty and hunger
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**Education for All by 2015**  
An international commitment

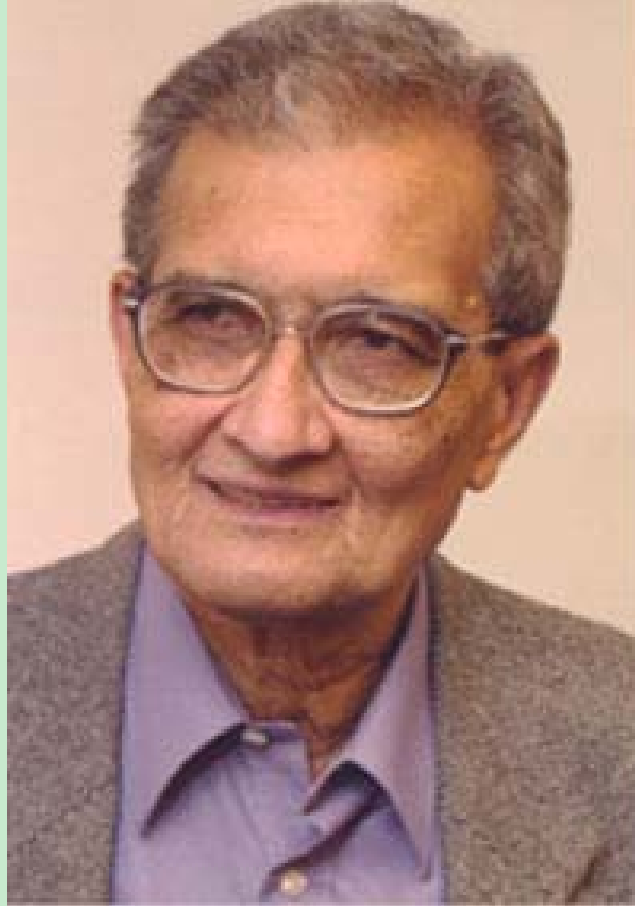


**The Dakar Goals**

# DEMOCRACY



# GOOD GOVERNANCE



“There has never been a famine in a democracy with a free press”

*Amartya Sen*



COMMONWEALTH *of* LEARNING



Learning

is the

Master Key

DEVELOPMENT

IS

FREEDOM

DEVELOPMENT

IS

FREEDOM

‘From’ & ‘To’

FREEDOM

IS THE

MEASURE

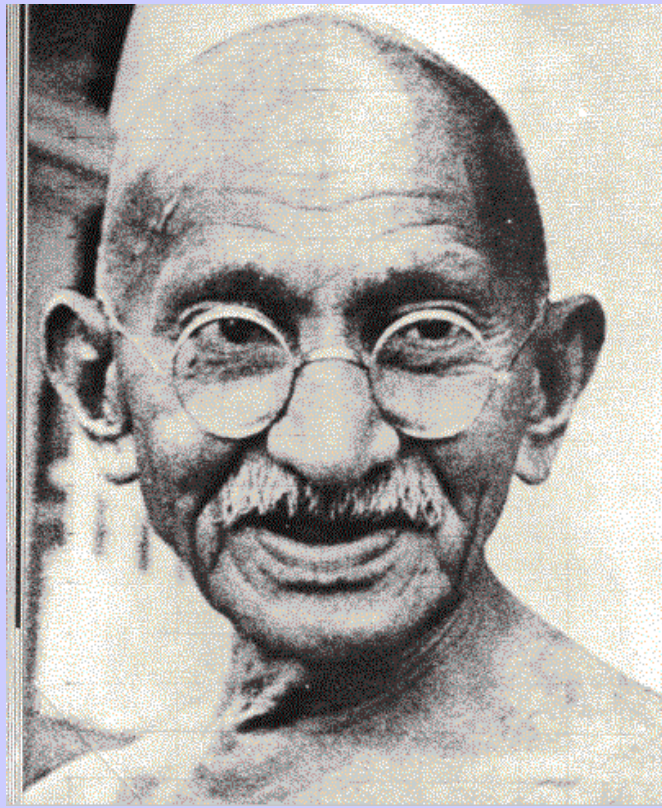
AND THE

MEANS

# Sustainable Development

Definitions:

*“to meet the needs of the present without compromising the ability of future generations to meet their own needs.”*



*“education for life, education through life and education throughout life”*

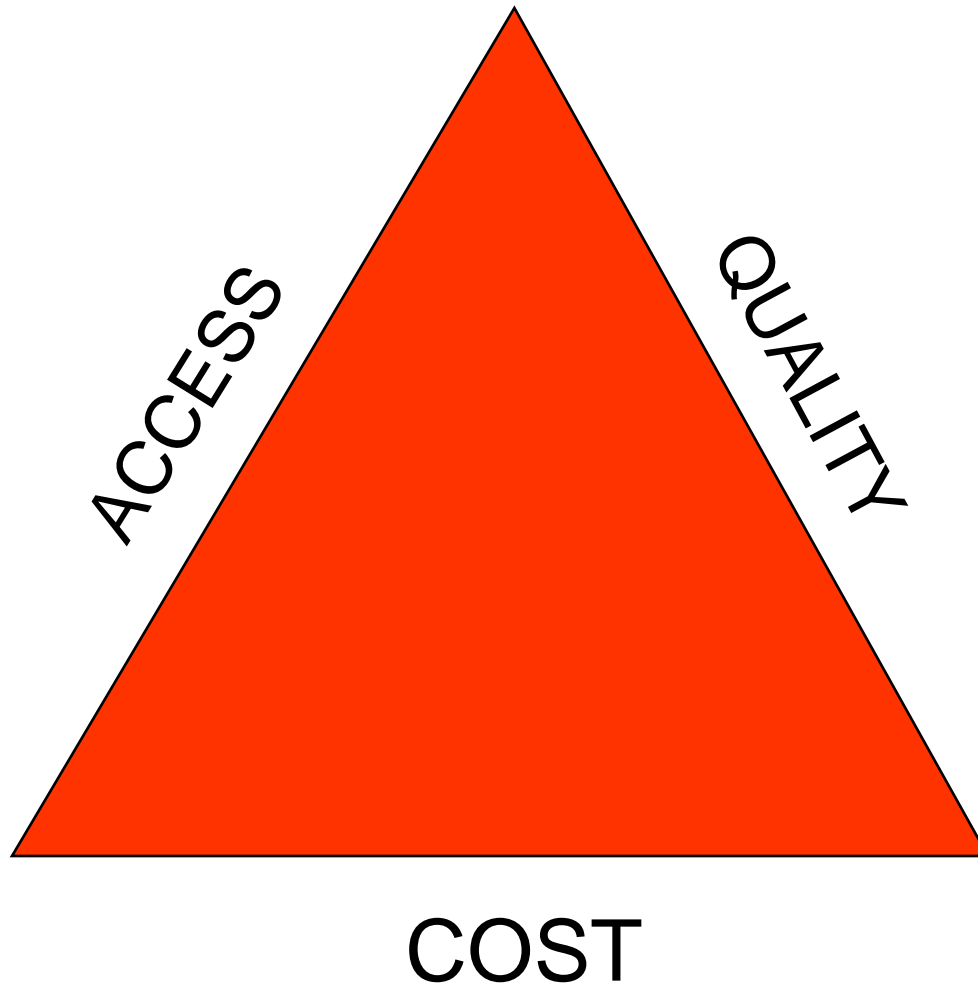
**Mahatma Gandhi**

conventional methods

cannot

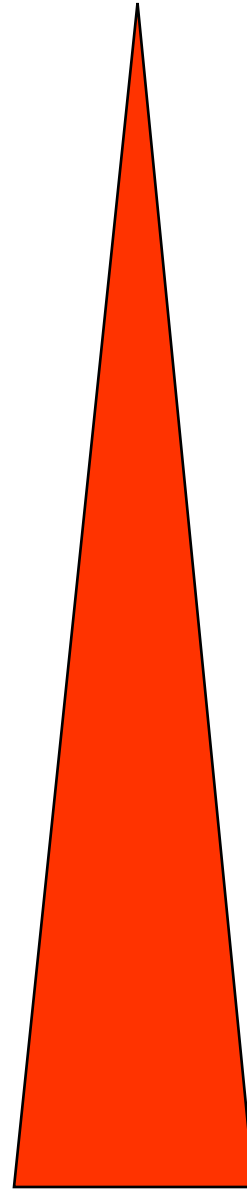
cope

# The Iron Triangle



**ACCESS**

**QUALITY**



**COST**

in

**education**

**quality**

is defined by

**exclusivity**

in

**education**

**quality**

is defined by

**exclusivity**

# QUALITY

is fitness for purpose

at

minimum cost to society

# FINLAND'S EDUCATION

- Top performer
- Average spender
- High equity

The example

of the

OPEN

UNIVERSITIES

# BRITAIN'S TOP NINE UNIVERSITIES

## Quality Rankings of Teaching

based on all subject assessments 1995-2003  
(*Sunday Times University Guide 2003*)

1	CAMBRIDGE	96%
2	LOUGHBOROUGH	95%
3=	LONDON SCHOOL OF ECONOMICS	88%
3=	YORK	88%
5	<b><u>THE OPEN UNIVERSITY</u></b>	<b>87%</b>
6	OXFORD	86%
7	IMPERIAL COLLEGE	82%
8	UNIVERSITY COLLEGE LONDON	77%
9	ESSEX	77%

# BRITAIN'S TOP NINE UNIVERSITIES

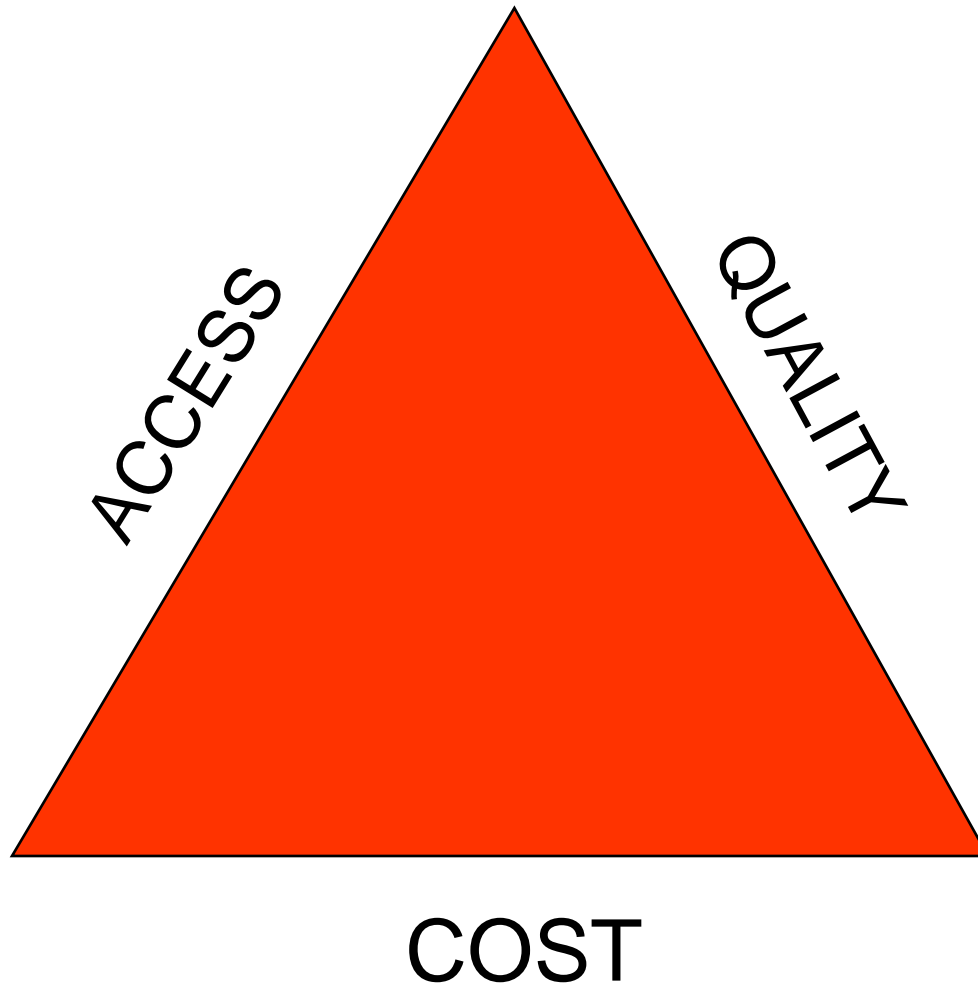
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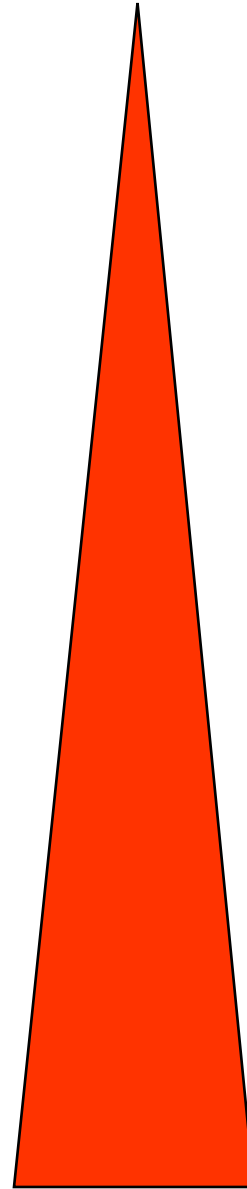
(\*\*\* and top in a 2005 survey of student satisfaction)

# The Iron Triangle



**ACCESS**

**QUALITY**



**COST**

# How to use technology successfully

- Disassemble and reassemble  
(division of labour)

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- Economies of scale (quality of scale)  
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- Logistics

# How to use technology successfully

- Disassemble and reassemble  
(division of labour)
- Economies of scale (quality of scale)  
(materials and student support)
- Logistics
- Create community

# EDUCATION FOR SUSTAINABLE DEVELOPMENT

- Education of individuals as members of communities
- Education of communities

**EDUCATION**

**Human capital**

**EDUCATION FOR SUSTAINABLE DEVELOPMENT**

**Social capital**

**EDUCATION FOR SUSTAINABLE DEVELOPMENT AT**  
**COL**

**CEE- Green Teacher**

**IISC- Environment Education**

**KSOU- Environment Education**

**L3 Farmers- Consortium for Farmers**

**L3 Teachers (I-CONSENT)**

**MATE-I- Upgrading Teacher Educators**

**NCCE/NTI- Networking for Teacher  
Education**

**Regional Consortia- Teacher Education**

**EDUCATION FOR SUSTAINABLE DEVELOPMENT AT**  
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Materials for  
Environmental Education  
1990s

**EDUCATION FOR SUSTAINABLE DEVELOPMENT AT**  
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# Poverty and hunger

Target (2015):

Halve the proportion of people living on less than a dollar a day and those who suffer from hunger

# EDUCATION FOR SUSTAINABLE DEVELOPMENT AT COL

CEE- Green Teacher

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**L3 Farmers- Consortium for Farmers**





# Improving Farming

## Lifelong Learning for Farmers

1. Mobilise farmers to define their vision
2. Link them to those with useful information
3. Using ICT kiosks, etc.
4. Get banks and business involved

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**Regional Consortia-** Teacher Education

# Teacher Training



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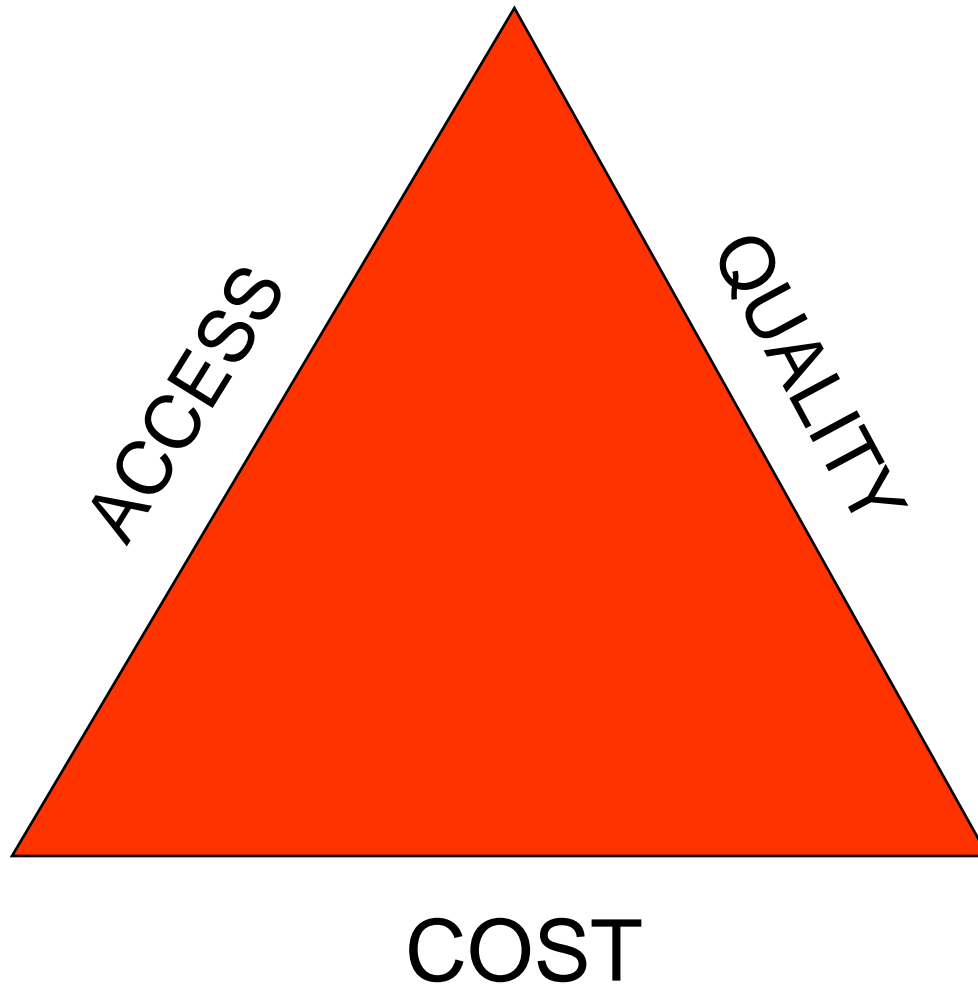
**Regional Consortia-** Teacher Education

Education

is the

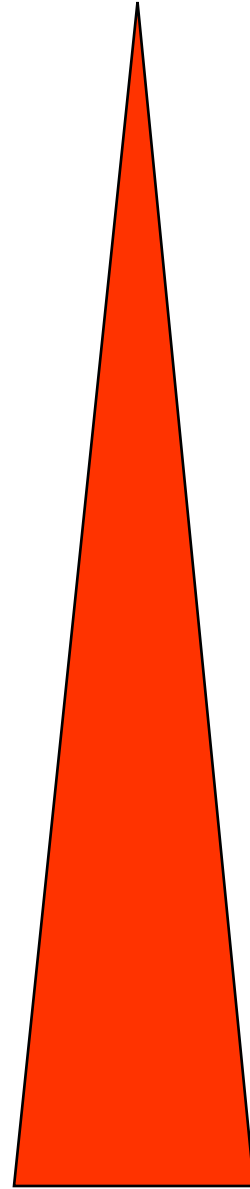
Master Key

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**EDUCATION FOR SUSTAINABLE DEVELOPMENT**

**Social capital**

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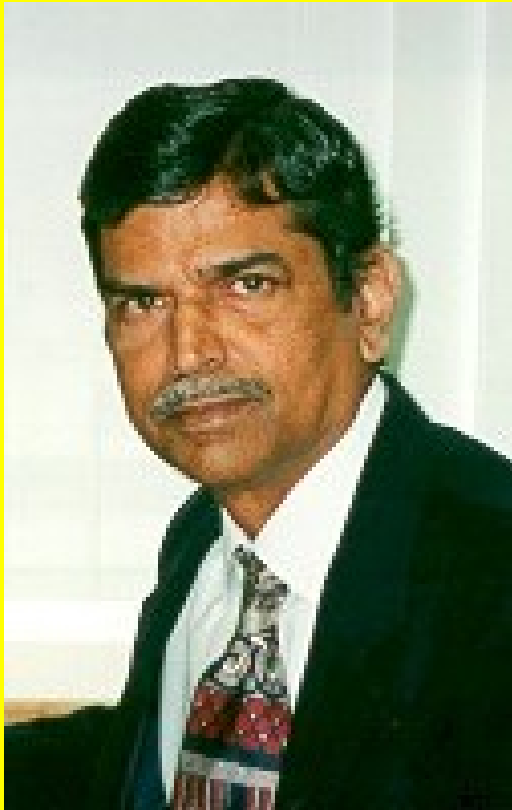
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# THANK YOU



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