



# Institutional Uplift & Quality Enhancement of Higher Education

*Prof. Dr. Atta-ur-Rahman (NI, HI, SI, TI)  
UNESCO Science Laureate*

*Chairman  
Higher Education Commission*

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[www.hec.gov.pk](http://www.hec.gov.pk)



“To Facilitate Institutions of Higher Learning to serve as an Engine of Socio-Economic Development of Pakistan”

# Higher Education & Poverty Alleviation

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- Ms. Manphela Amphele (Co-Chairperson of UNESCO/World Bank Task Force) stated that
  - ‘there is no way we can succeed in the eradication of poverty if the developing world is not a part of knowledge creation, its dissemination and utilization to promote innovation’.

# Challenges for Higher Education

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## ■ Access

- Low enrollment in higher education

## ■ Quality

- Poor standard of faculty and lack of training / capacity building
- Low quality of teaching & research and lack of relevance to national needs
- Poor governance of universities

## ■ Relevance

- Minimal relevance of higher education to national needs

**50 Years of Neglect**

# Targets for Development of Higher Education

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## ■ Faculty Development

- 20,000 Ph. D Level faculty members to be trained over next 10 years.
- The existing faculty needs 1 – 3 month training in pedagogical skills, communications skills and information technology usage skills

# Achievements: Faculty Development

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## ■ Human Resource Development

■ Indigenous PhD	2004
■ Foreign MS/PhD	402
■ Post doctoral	127
■ In-service training by HEC	733

## ■ Reverse Brain Drain

■ Visiting/Foreign Faculty Hiring	260
■ Long Term Faculty Hiring	70

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## ■ Improving Access

- Enhance enrollment in Universities and Degree Awarding Institutions from the present 0.27 million to 0.5 million in five years, excluding distance education programs
- Enhance enrollment from the present 0.16 million to 1.0 million students in distance education programs
- Ensure that any student obtaining admission on merit is able to obtain higher education regardless of his/her financial condition

## ■ Promoting Excellence in Learning and Research

The target for research related activities in 5 years is to:

- Increase the current level of 120 scientists / million to 300 scientist/ million in R & D.
- Increase production of Indigenous Ph.D.s inside the country from 250 per year to 1,500 per year over next seven years.
- Introduction of Ph.D. programs in at least 50% of the departments in Universities and Degree Awarding Institutions.
- Have a 40% per annum growth in the number of International publications of faculty members.
- Have a 25% per annum growth in External Research grants won by Institutions from sources other than Government sources



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## ■ Ensuring Relevance to the Economy: Industrial Linkages

- Establish 10 Technology Incubation Parks
- Enhance patent applications from Engineering Universities to at least 20 per year per Institution
- Enhance the number of joint University-Industry projects being undertaken at Universities to at least 5 per Institution
- Entrepreneurship courses to be included in all Engineering programs as well as Science and Technology advanced programs



# Relevance to National Priorities

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- Industry Involved in Curriculum Review
- Encourage Internships
- University-Industry Collaborative Research Support Program
- Focus on Applied Research
  - Agriculture Sector: Food Technology
  - Petroleum Sector: Geology & Mining
  - Engineering Sector: Automotive, Manufacturing
  - Information Technology
  - Technology Incubators



# Good Governance and Management

- Uniform standards and Charter framework for opening of New Universities
- Appointment of Vice Chancellors
- Criteria Appointment and Promotion of Faculty Members
- e-HEC
- Project Monitoring



# Quality Assurance

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- Accreditation Councils
- Degree Program Standardization
  - 4 – year Undergraduate, MPhil, Ph.D.
- Quality Enhancement Cells
- Quality of Faculty
  - Appointment Criteria
  - Tenure Track
  - Training and Research Opportunities
- Curriculum Review
  - Industry Collaboration
  - International Standards

# Technology Infrastructure: Leveraging Information Technology

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- University Computerization & Networking
  - Computer Laboratories
  - Campus wide high-speed LAN
  - Computerization of Administration
- PERN
- Digital Library
- PAKSAT – 1
- Distance Education
  - Virtual University
  - Educational TV Channels
  - Video Lecturing
- Information Management System
  - HEC External Website
  - PERN Website
  - HEC Workspace Portal

# Planned Mega Projects

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## ■ New Universities

- Engineering Universities to be established in collaboration with
  - Germany
  - Austria
  - France
  - Others.

## ■ Strengthening of Existing Universities

- Perspective Plan
- Targets
  - Doubling of Enrollment every 3-5 years
  - World Class Research / Academics
  - Responsiveness to Industry
  - Infrastructure Rehabilitation & Development

# Additional Funding Requirements



Faculty Development	US\$ 200 Million
Digital Infrastructure Support	US\$ 100 Million
Focus Area Support	US\$ 100 Million
New Universities	US\$ 200 Million
Industrial Linkages	US\$ 150 Million
Existing University Strengthening	US\$ 250 Million
<b>TOTAL</b>	<b>US\$ 1 Billion</b>

**Timeframe: 3-4 years**

# Conclusion



- Higher Education is key to
  - Sustainable poverty reduction
  - Building Pakistan's Human Capital
- There is a strong revival of the Higher Education Sector
- HEC Focus on
  - Efficient implementation of Programs
  - Good Governance and Management
  - Capacity Building
  - Relevance to National Priorities
- Medium Term Development Framework
  - Objectives, Strategy, Programs and Performance Targets
  - Additional Funding Required to Achieve Targets
- Additional Funding Requirement: US\$ 1 Billion



**Higher Education Commission**

**Fuelling National Growth**