

# International Workshop on Dairy Science Park, Peshawar, Pakistan

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# Pakistan economic growth during 2007-08


- The commodity producing sector, agriculture and manufacturing could not show targeted growth.
- The service sector surpass the target and proved the main force driving economic growth
- Agricultural sector suffered by:
  - natural calamities
  - pricing policy
  - lack of regulations and standards
  - quality of inputs
  - and weak infrastructure

# Global trends

## The Finland story:

- Finland is at the frontier of knowledge economy.”
- A world-class infrastructure and infostructure
- A center for world-class research and knowledge economy and knowledge society.
- 5 m population produces more than 1,500 PhD's/year
- Firms develop products and services with superior value-added qualities
- The first economically, socially and ecologically sustainable social model for this century

(Arab News, 6 June 2008)

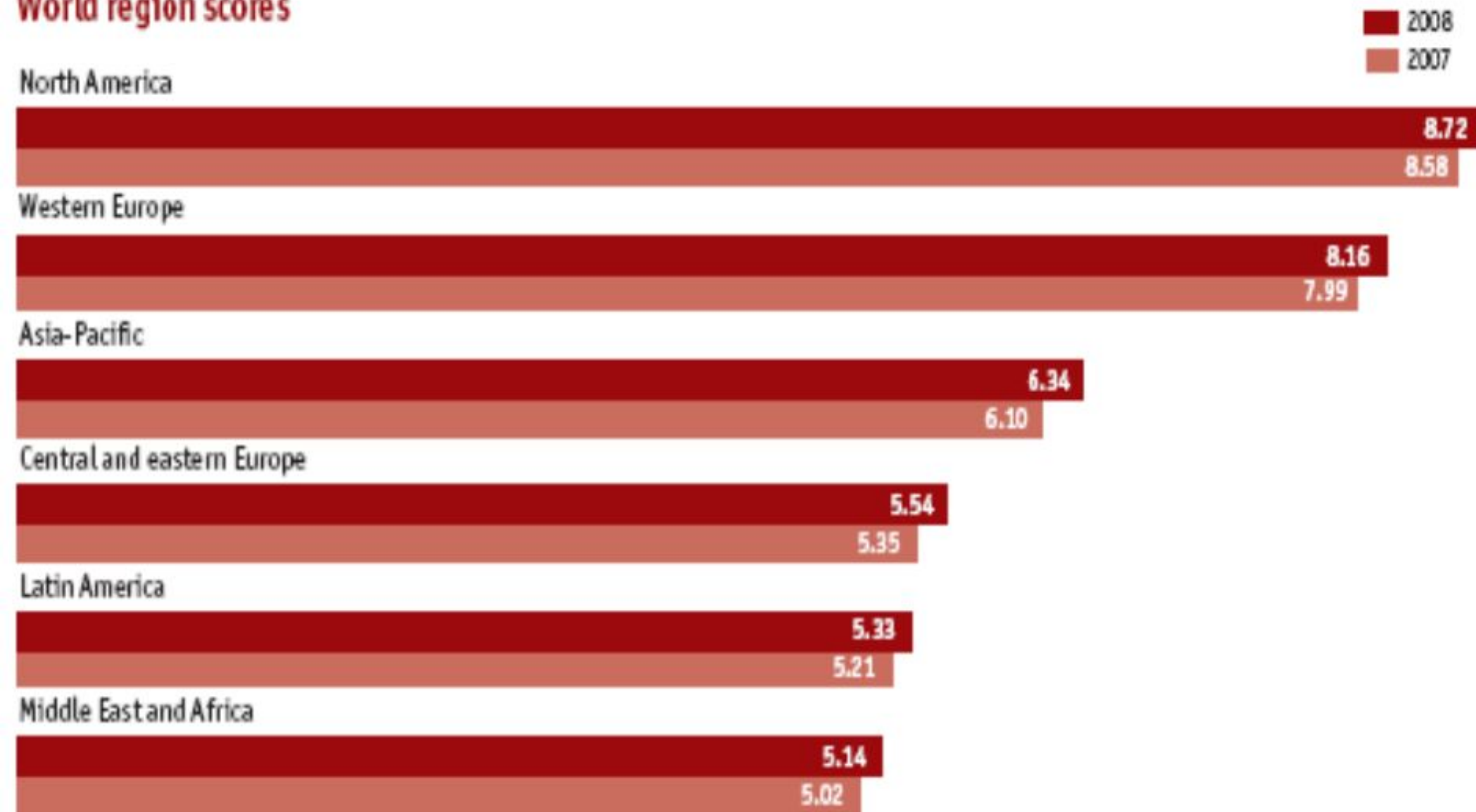


# The 7 i framework for knowledge-based economy

- Infostructure
- intellectual capital
- incentives
- interaction
- institutions
- Integrity
- innovative capital

## Economist Intelligence Unit e-readiness rankings, 2008

### World region scores



Each region's score is based on the e-readiness scores for each of that region's countries covered in our rankings.

Source: Economist Intelligence Unit, 2008.

# Pakistan's Livestock Resources

- Share in Agric GDP: 1996: 25.3%;  
2006: 49.6%
- Rural people engaged 35%, income share 40%
- Annual milk and meat production exceeds Rs.1000b
- Scope exists for more than 200%, with US\$ 10 b export

# Table 1. Livestock population of Pakistan

Unit Cattle Buffaloes Sheep Goats

*Population (million heads)*

1976 14.9 10.6 18.9 21.7

1986 17.1 15.7 22.6 29.0

1996 20.4 20.2 23.5 41.2

2006 29.6 27.3 26.5 53.8

% ↑ 10 yrs 45.0 35.0 13.0 31.0

*Industrialization status (% population)*

Commercial 59.3 32.9 59.0 50.3

Non-com 40.7 67.1 41.0 49.7

## Table 2 Annual milk production in Pakistan during 2006

**Animal Milk prod Value % ↑ (Bln Liters)  
(Rs. b) (10 yrs)**

Cattle 13.3 333 42.4

Buffaloes 25.0 626 32.5

Total 38.4 959 35.6

*(Pakistan 4<sup>th</sup> in global ranking)*

## Table 3 Animals slaughtered in Pakistan during 2006

Animal Slaughtered Value % ↑

(m) (Rs.b) (10 yrs)

Cattle 3.6 71.2 63.3

Buffaloes 3.3 66.8 53.2

Sheep 4.7 11.8 6.5

Goats 11.0 27.5 40.3

Total 22.6 177.3 40.8

**Total value of milk and meat Rs.1136.6 b**

*(Source: Statistics Division, Agricultural Census Organization).*

# The global status of livestock resources

- Some countries utilized livestock resources wisely
- Commercialisation and Industrialization
- Developed and developing countries differed
- Coops/Multinational companies served as growth engines
- Subsistence production system replaced by commercial
- International trade system developed
- Quality standards and prices difference
- Future awaits developing countries

# The status of Pakistan LS

## resources

Recent past

- Depended upon opportunity cost under subsistence system
- Provincial government stereotyped approach for disease prevention
- Universities focused on producing graduates with limited scope
- SMEDA experiments in CMLDP, could not break the ice
- Quality control, export oriented productivity, consumer's preferences lacked in production system
- Investors could not explore the business opportunities

# The status of Pakistan LS

## resources

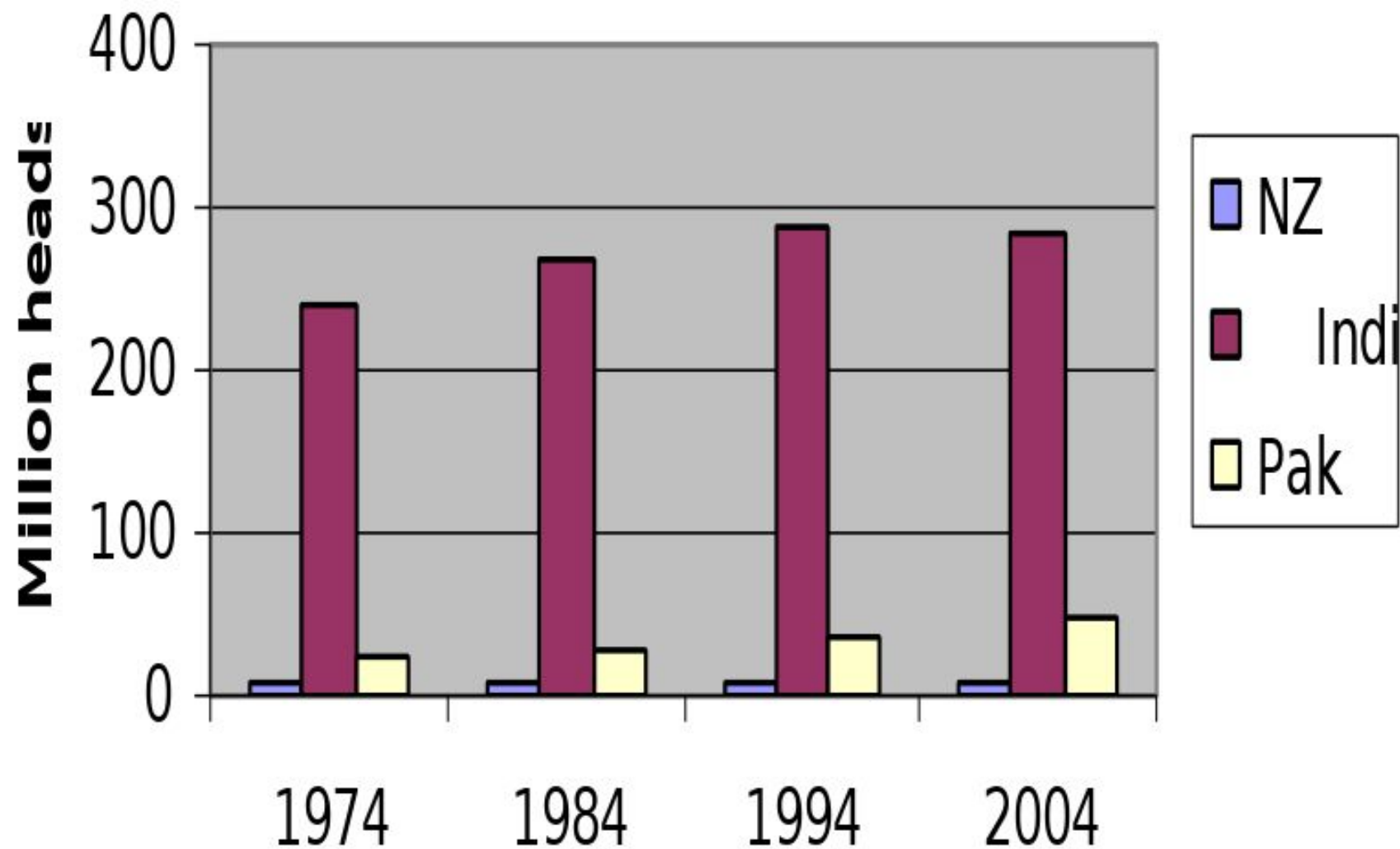
### Current trends

- President and PM issued directives to bring the sector at par with Australia and New Zealand; delegations exchanged; programs launched
- **Bigger farmers:** Agribusiness SF, Dairy Pak,
- **Smaller farmers:** Livestock Board, SLSP-EU
- Herd size in livestock increased → SME
- Pak Vet Med Council Act 1996 implemented; education standardized; syllabus updated
- First Vet Univ at Lahore, CompDVM at Peshawar etc.
- Universities introduced new programs in QC under WTO guidelines, analytical facilities, business and marketing, products processing, outreach services

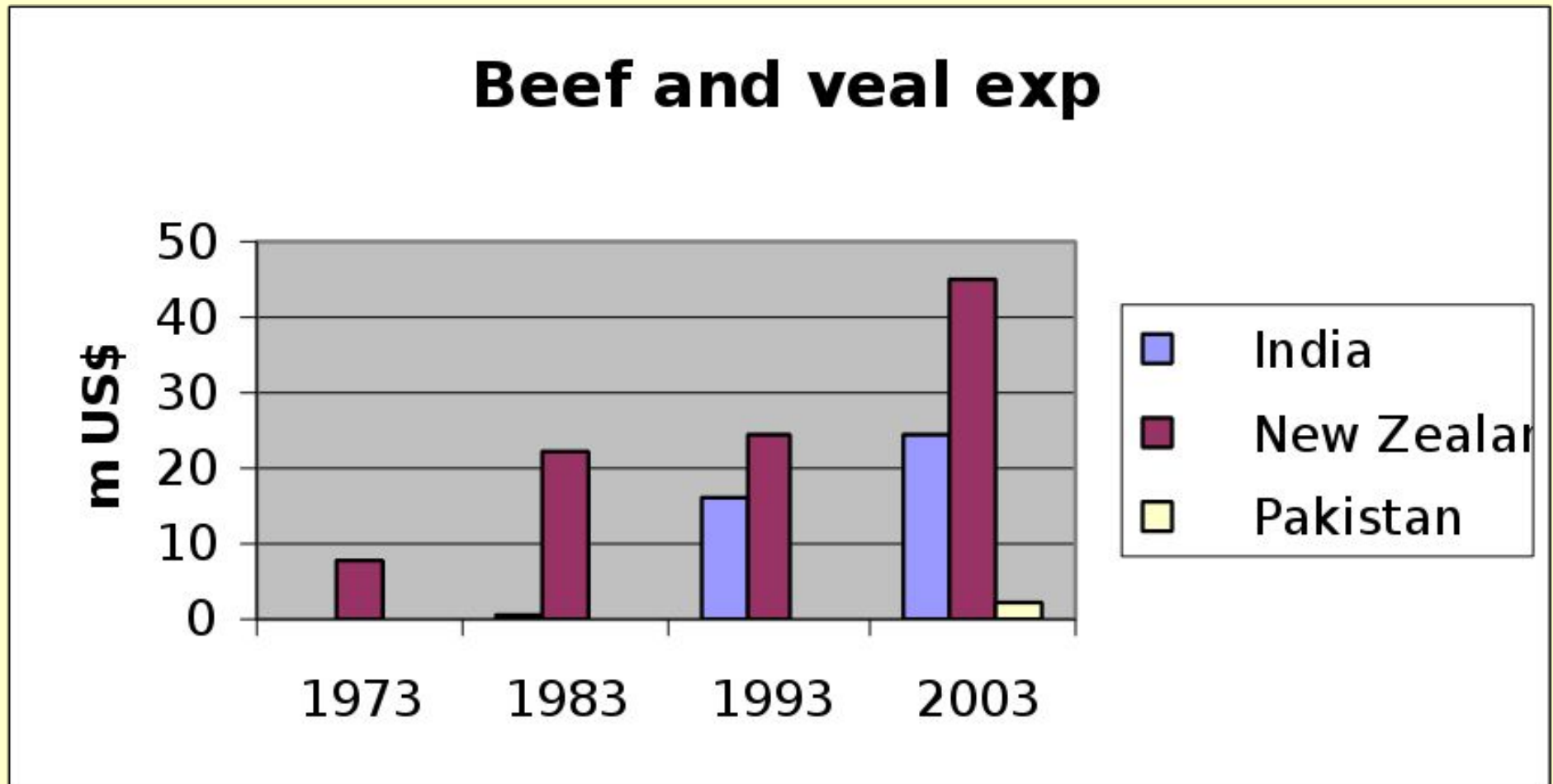
# The Challenges

- Sensitization of investors for production, processing and services
- Underutilized labour, burden on natural resources, zoonosis
- Bigger herds kept with no proper breed, no source exists
- Poorly managed health make the products unfit for human consumption, locally and abroad
- Poorly managed reproduction results in drain of buffaloes from Punjab
- Poorly managed feeding results in depressed fertility, milk production and farm costs
- Creates threat to environment, leading to farms eradication by LG
- Industry lacks to handle production of RS.+1000 billion
- Public support for financing, technical and marketing lacking

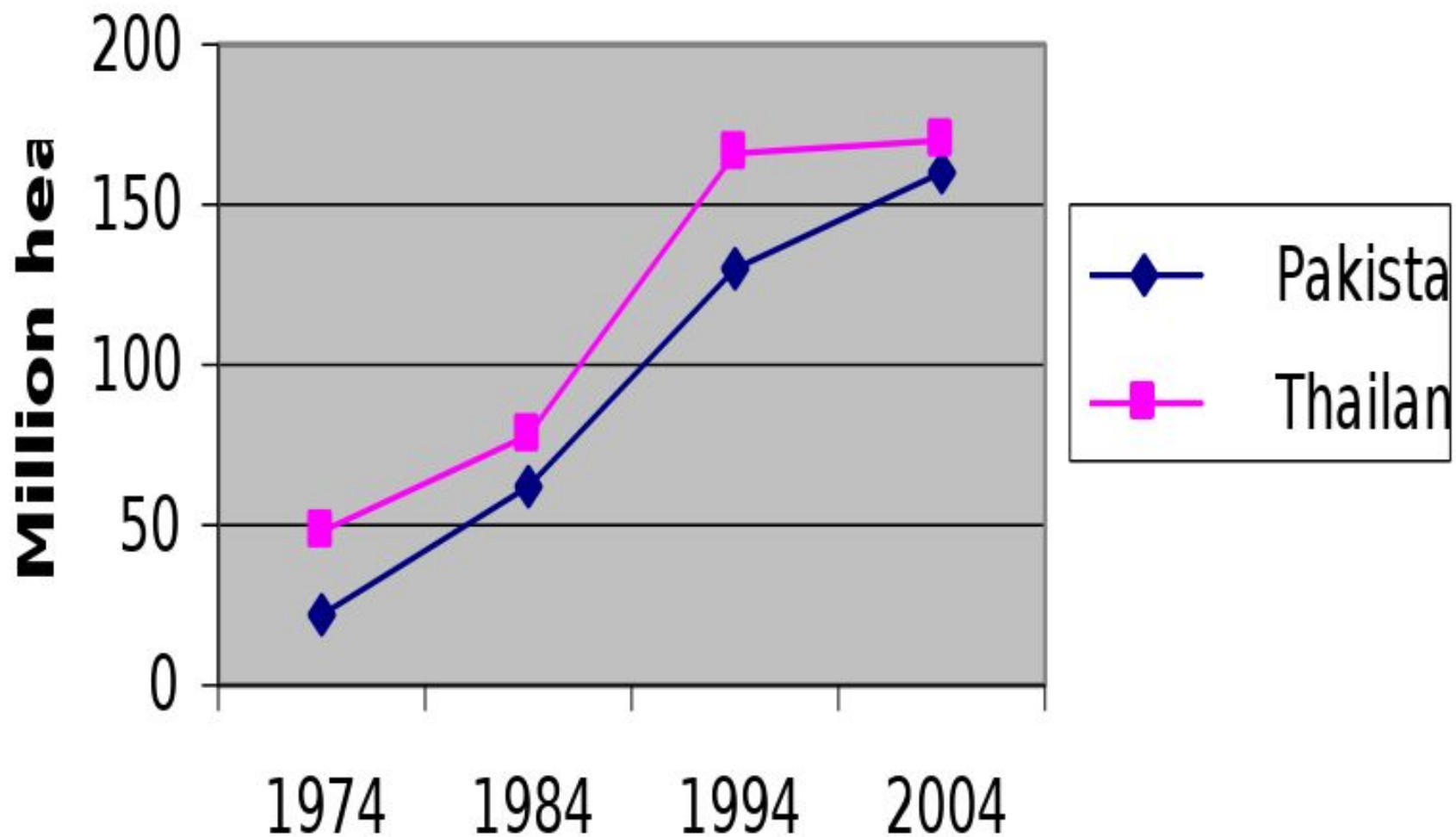
# Cattle and buffalo



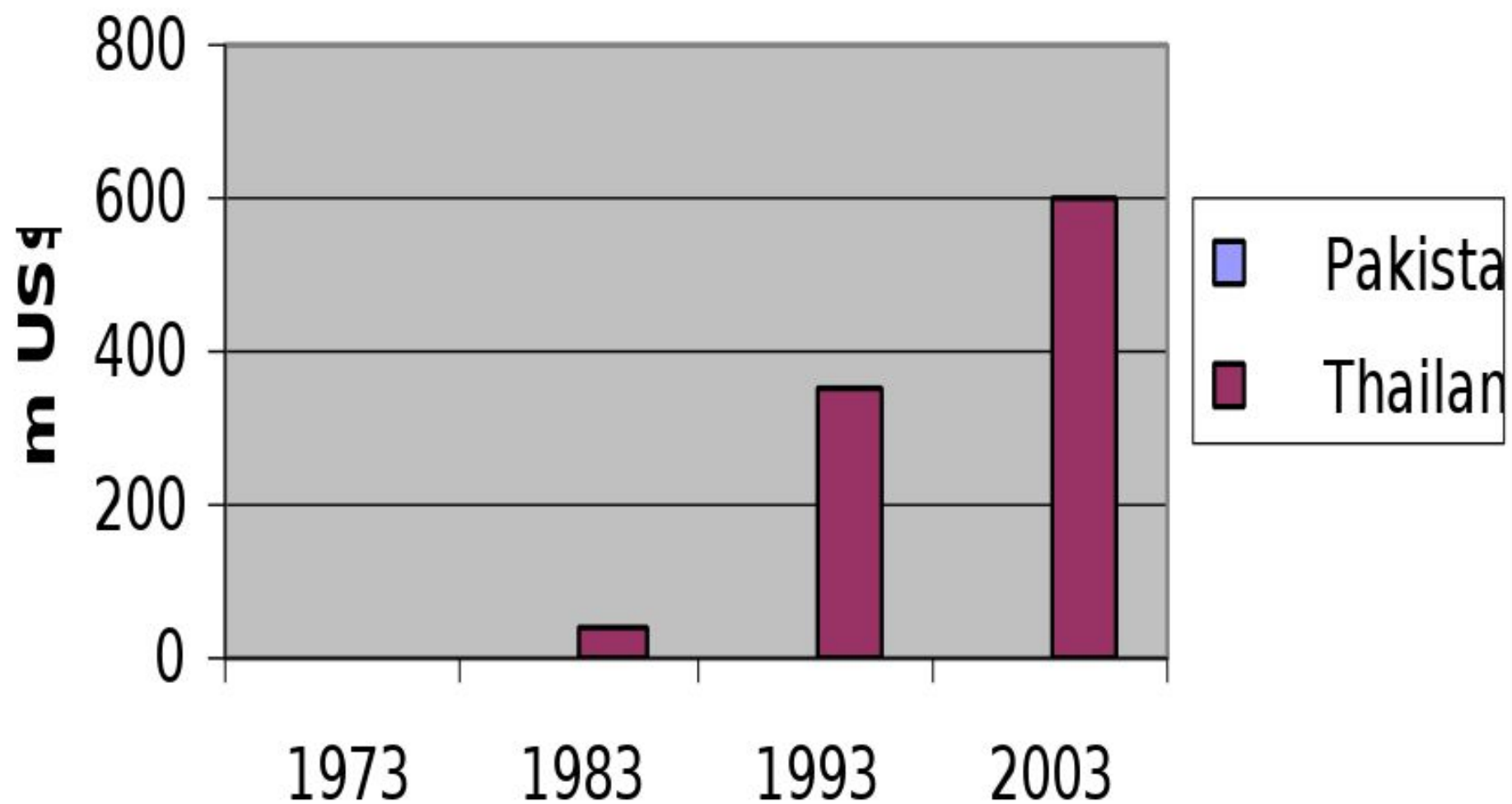
# The comparative scenario



# Poultry populat



# Poultry meat exp



# Scope of livestock sector

- Improved quality and enhanced productivity

Improved human health

Food security

Political stability

- Products processing and marketing

Poverty reduction by 50%

US\$ 10 b export

# The workshop

- Prof MS Qureshi visited Egypt for attending Industrial Biotech Conf
- Discussed with Mr Abdur Rahman Ilyas, ICRISAT, India; got coop offer for:
  - Developing a business model
  - Attracting international investors
- The idea was approved by VC, AU Peshawar
- Supported by:
  - National Vocational and Technical Education Commission (NAVTEC)
  - Global Dairy Health Limited, India
  - Pakistan Veterinary Medical Council
  - Higher Education Commission
  - SMEDA
  - Livestock and Dairy Development Department
  - Livestock Trainers and Consultants

# Progress

- Welcomed by the national and international scientific and business organizations
- 10 scientists have so far submitted technical papers for presentation
- Scientists from Iran, Nigeria, India and Malaysia have shown interest in participation
- Expected participants 250 national; 20 international
- Duration: Three days
- Sessions: Six

# Progress

- The event has been placed on websites of:
  - [Agricultural University Peshawar](#)
  - [WorldVet.org](#)
  - [ConferenceAlerts.com](#)
  - [Livestock Trainers and Consultants](#)
  - [LinkedIn.com](#)
  - [GoingToMeet.com](#)
  - [TheCattleSite.com](#)
  - [PUTF Digest](#)
  - [Engormix.com](#)
  - [Follow Science](#)

# Cost estimate

- Traveling/accommodation  
of invited speakers Rs.700,000
  - Conference bags/stationary Rs.250,000
  - Printing of proceedings Rs.150,000
  - Entertainment Rs.600,000
  - Miscellaneous Rs.200,000
- Total Rs.1,900,000

# Investment areas

- Model dairy farms
- Health services
- Artificial insemination services
- Training and extension services
- Dairy processing
- Milk and products marketing
- Feed production
- Meat processing and marketing
- Production and marketing of medicine and vaccines

Thank you

