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Economic Growth, National Competitiveness and Education

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Main Theme of the Conference

“To reconsider the role of education for democratisation, stability and economic development in the region as well as for its inclusion into an Enlarged Europe”



Focus of This Presentation

“To situate the discourse on education and human capital formation in the context of national competitiveness”



Changing Landscape

21st Century Is Driven by 2
Complementary “Revolutions” --

- ✚ Globalisation of world economy
- ✚ Proliferation of Information
and communication technology

And by 2 economic realities –

- ✚ Intensified competition
- ✚ Growing economic power of
China, Brazil, India



Microeconomic Foundations of Prosperity

“It is well understood that sound fiscal and monetary policies, a trusted and efficient legal system, a stable set of democratic institutions, and progress on social conditions contribute greatly to a healthy economy. However, these broader conditions are *necessary but not sufficient*”.

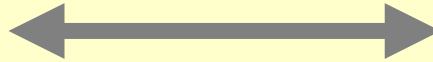
(Michael E. Porter, Harvard University, 2004,
Global Competitiveness Report)



Determinants of Productivity and Productivity Growth

Macroeconomic, Political, Legal, and Social Context for Development

**Sophistication
of company
operations
and strategy**



**Quality of the
microeconomic
business
environment**

Microeconomic Foundations of Development



Changing the Rules of the Game



(David Ricardo)

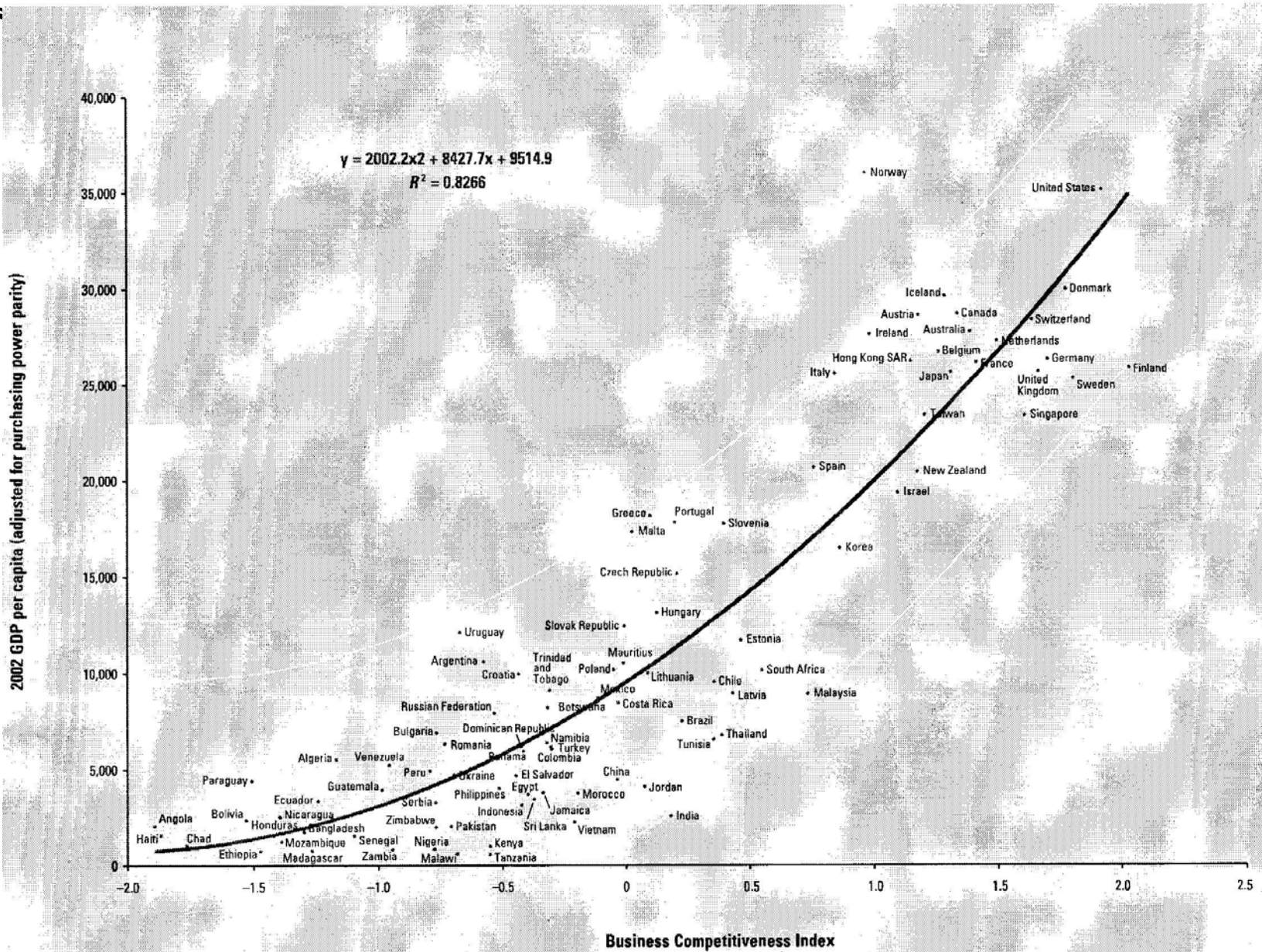


*Competitive
Advantages
(Michael Porter)*



Result?

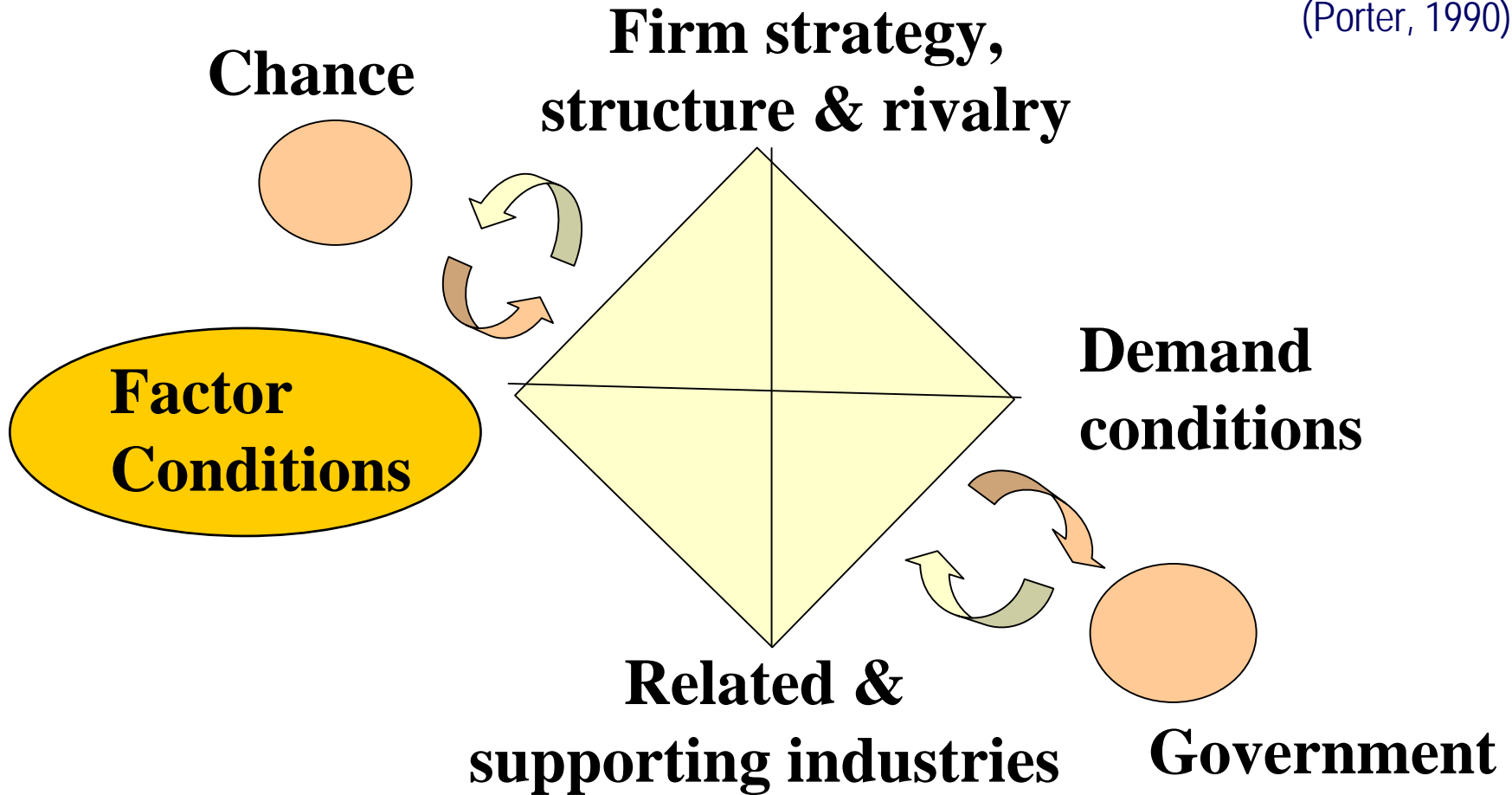
**Eroding the cost advantage
that has been long enjoyed
by newly industrialised
and developing countries!**





Success Factors of National Competitiveness - Porter's Concept

(Porter, 1990)





Factors with the most decisive influence on comparative advantages of a region with a future
(Ch. Koellreuter, BAK, 1997)

(1)

Ranking

Factors



Factors with the most decisive influence on comparative advantages of a region with a future
(BAK survey, 1997)

(2)

Ranking

Factors

- 8 Telecommunication
- 9 Quality of life
- 10 Access to EEA (EU) market
- 10 Working Hours
- 10 Predictability of the politico-legal environment
-
- 25 Price/performance of unskilled labour



Factor Conditions

- ⊕ Physical Infrastructure
- ⊕ Administrative Infrastructure
- ⊕ **Human Resources**
- ⊕ Technology Infrastructure
- ⊕ Capital Markets



Factor Conditions (2)

Human Resources

- Quality of management schools
- Quality of public schools
- Quality of the educational system
- Quality of math and science education



Factor Conditions- Human Resources

(WEF, Global competitiveness Report, 2003)

	Low-Income Countries (<\$4,000, N=28)	Middle-Income Countries (>\$4,000 & <\$17,000, N=39)	High-Income Countries (>\$17,000, N=27)
Quality of Mgmt Schools	3.34	4.19	5.34
Quality of Public Schools	2.30	3.69	5.46
Quality of the educational system	2.41	3.42	4.85
Quality of Math & Science Education	3.21	4.16	5.19

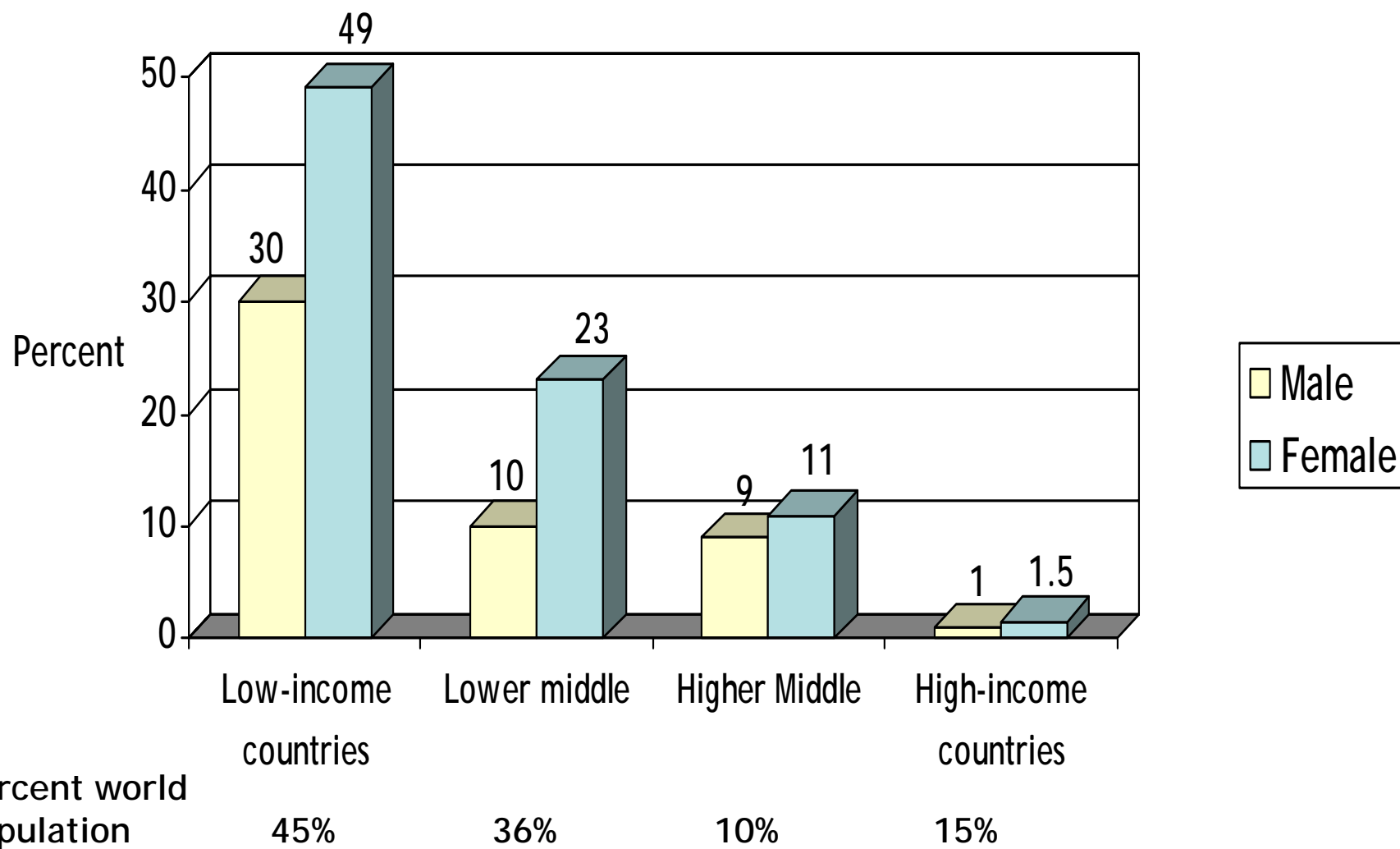


Lester C. Thurow on Quality of Education

“In today’s economic world, countries without educated work forces simply cannot set sails economically – whatever their desires..... If countries cannot organise good education systems, there is no such thing as catching up economically.” (March, 2001)



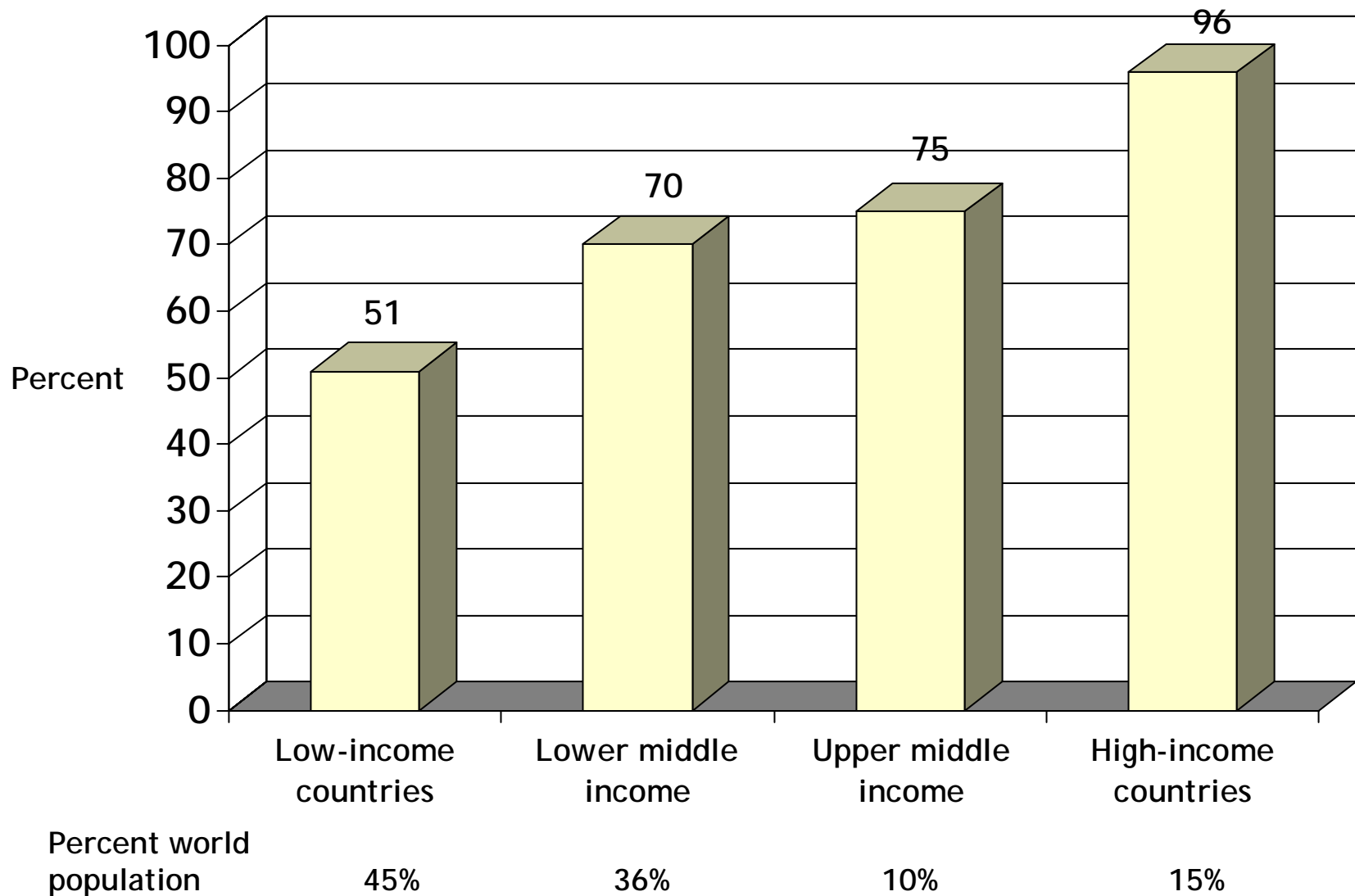
Adult Illiteracy Rate (Percent of People Age 15 & Over in 1998)



(Source: World Bank, 2000/Andrew H. Van de Ven, 2002)



Secondary School Enrollment Ratio (Percent of Relevant Age Group)



(Source: World Bank, 2000/Andrew H. Van de Ven, 2002)



Tension: past, present & future for Transition Economies

● Past:

- High literacy rates & mandatory education

● Present:

- Decreased budgets & labour market mismatch

● Future:

- Knowledge and skills acquisition through life long learning, basic & applied education and in-service training (investment in learning)



Past-Present-Future: Strategies

- Peer Reviews of HES/FH (CH)
- Higher Education Review (OECD, e.g. China)
- Educational Reforms (UNESCO-OECD joint project on quality assurance, accreditation, recognition of degrees)



Past-Present-Future:Switzerland

Peer Review of Universities of Applied Sciences (Polytechs) 2001-2003

- 200+ Peers assessing teaching, quality assurance, training, consulting to SMEs, research, publications
- Parliament (new law re: subsidies, programmes)

Universities

- OAQ (accreditation)
- New law in preparation



Past-Present-Future: Example China

- “ The deepening imbalance between labour supply and labour demand needs to be overcome by massive investment in human resource development and the expansion and upgrading of vocational training. ”
- “Link education and training more closely to economic and employment growth strategies and thus overcome skill mismatches.”

(Source: An Employment Agenda for China, background paper for the China Employment Forum, 2003)



Implications?

- Even greater demand on high quality human resources
- Accepted need and practices for life long learning and continuing education
- Increased cross-border mobility for talents (greater brain drain)
- Greater commitment for development of human capital by the countries and by the world class corporations
- Pursuit of intellectual capital formation
- Defending of intellectual property rights



Conclusion

- Competition of the 21st century is a race of knowledge creation and application
- Knowledge society requires knowledge workers which in turn demands quality education and training at ALL levels
- Companies are embedded in the countries/regions that they operate in. Available human resources are constrained by the quality of existing education and training services





Thank You!!

