

UNECE INTERNATIONAL CONFERENCE
GENEVA, SEPTEMBER 28-29, 2009



BEST PRACTICES TO ENHANCE INNOVATION

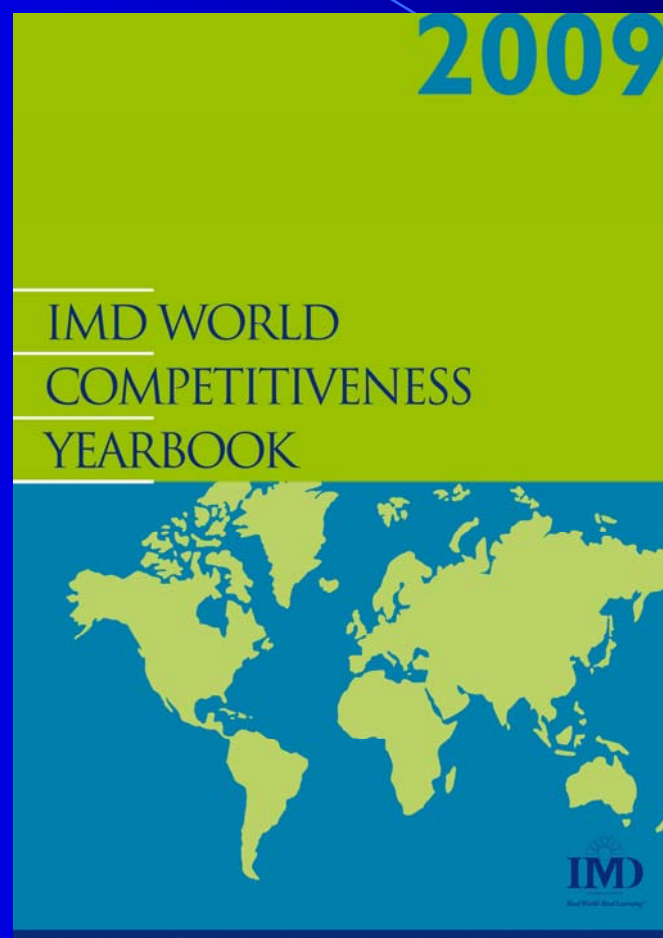
INTERNATIONAL INSTITUTE OF MANAGEMENT DEVELOPMENT - IMD



IMD WORLD COMPETITIVENESS YEARBOOK

**57
COUNTRIES**

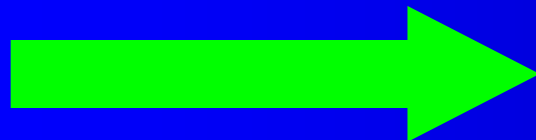
329 CRITERIA



**54
PARTNER
INSTITUTES**

WCY DEFINITION

Competitiveness is how a nation or region manages the *totality* of its competencies to increase the *prosperity* of its population



COMPETITIVENESS MINDSET!

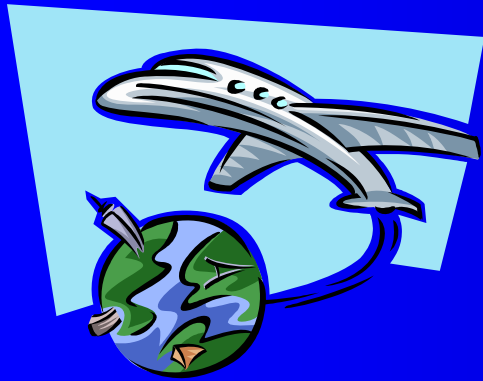
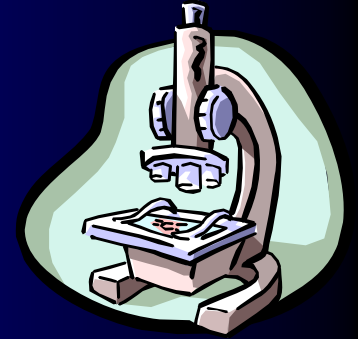


A STRONG INNOVATIVE CAPACITY HELPS DRIVE COMPETITIVENESS

- Education – Human capital
- Science curriculum
- R&D expenditure
- Development & Application of technology
- Access to capital
- Legislative framework
- IP protection



DRIVERS



Technological
& Scientific

Skills & Training

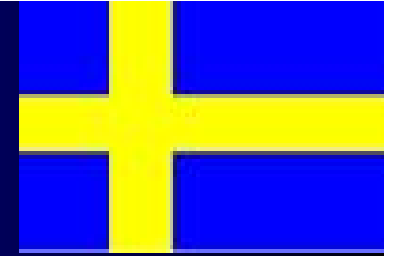
Knowledge Transfer

Science Culture

Legislation

Funding

THE “SWEDISH” MODEL



- High levels of R&D expenditure in companies
- No 1 – availability of IT skills
- Strong technological cooperation b/n companies
- Successful public-private ventures
- Funding for technological development
- Strong emphasis on basic research
- Legislative framework
- Culture – acceptance of risk & failure

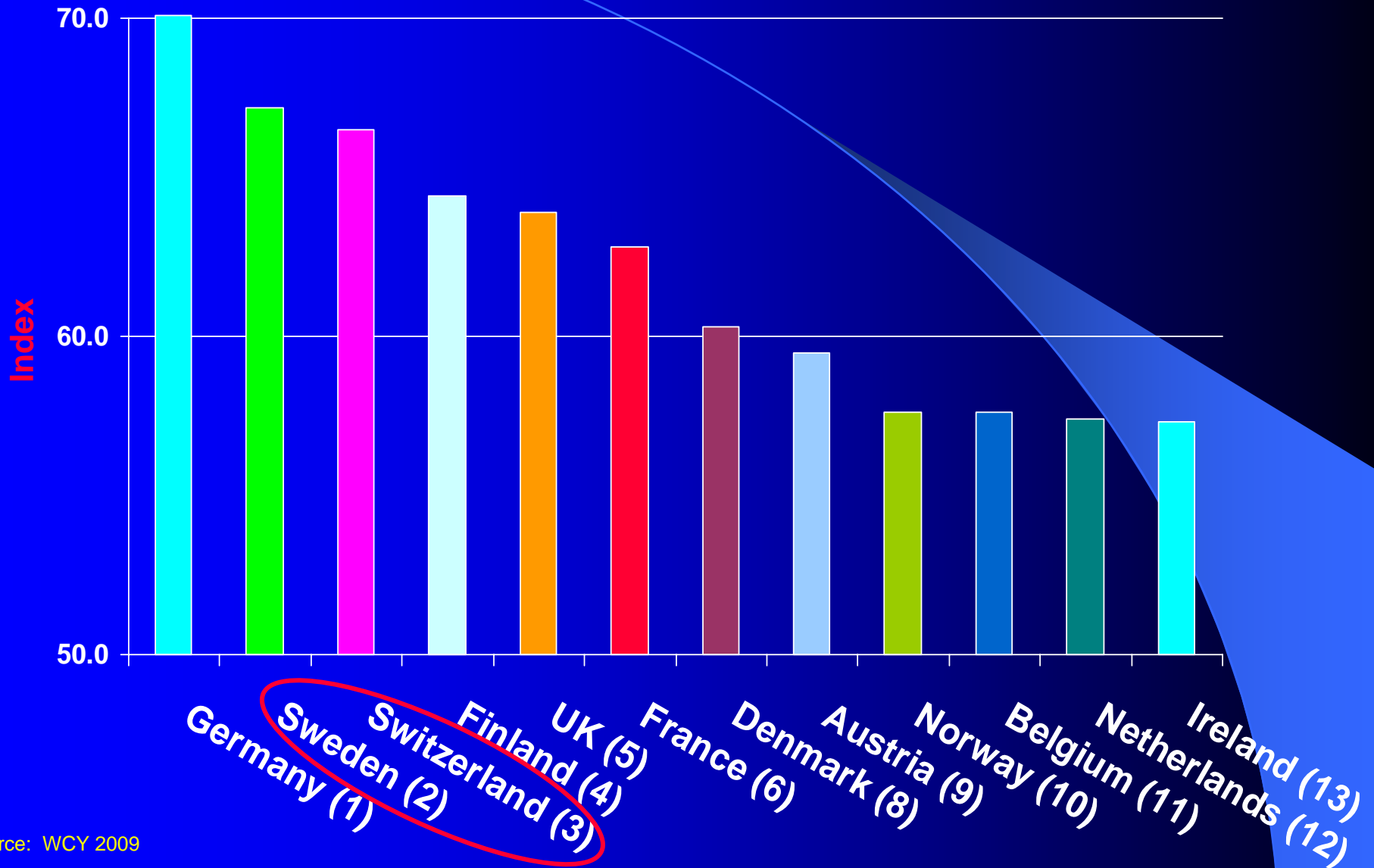
THE “SWISS” MODEL



- **R&D expenditure and personnel**
- **Excellent universities & research institutes**
- **Highly skilled workforce**
- **Strong attractiveness to investments & talents**
- **Companies - innovative & global**
- **No 1 – Knowledge transfer**
- **Strong IP protection (3rd)**

SCIENTIFIC INFRASTRUCTURE - EUROPE

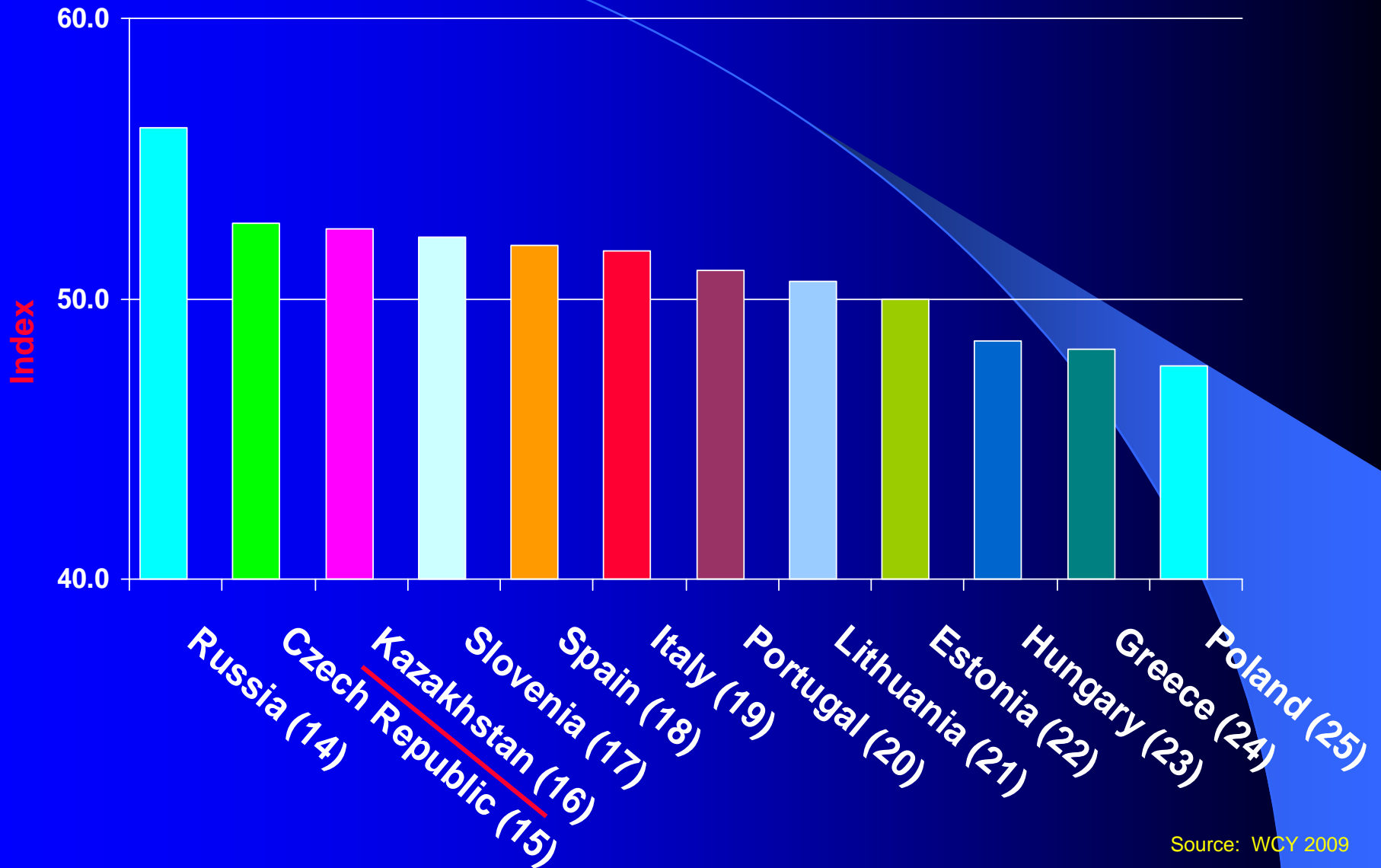
2009



Source: WCY 2009

SCIENTIFIC INFRASTRUCTURE - EUROPE

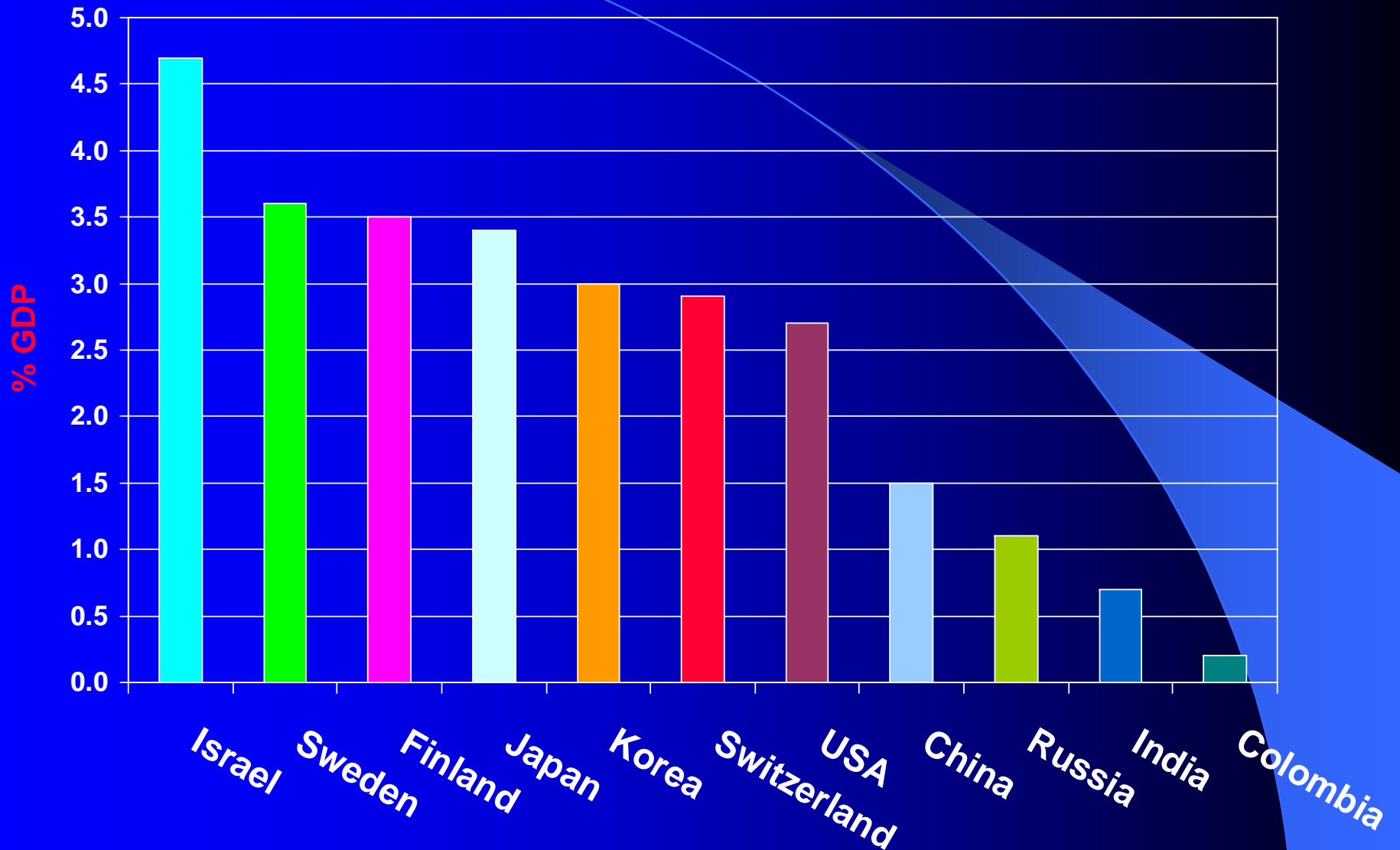
2009



Source: WCY 2009

BENCHMARKING R&D EXPENDITURE (% OF GDP)

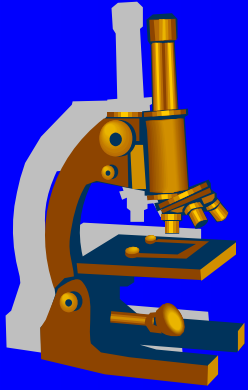
2007



EDUCATION



Source: WCY 2009



SCIENCE CULTURE

- Emphasis on sciences in education and increased knowledge transfer between academia, research centers and business

- Science curriculum in schools**
- Technical colleges**
- National Science Foundation**
- Joint ventures & private-public partnerships**
- Transfer of foreign technology & skills**
- Support of SMEs to upgrade**

SCIENCE IN SCHOOLS



Source: WCY 2009

SUCCESSFUL PRACTICES

- ❖ **Benchmark international educational rankings (PISA, TOEFL)**
- ❖ **Identify top performers for “Science in Schools”**
- ❖ **Legislation to support scientific research**
- ❖ **Public funding for promoting science culture**
- ❖ **Joint technology institutes (foreign & domestic)**





LEGISLATION

- Foster and support innovation, develop new skills, attract talents and encourage entrepreneurship

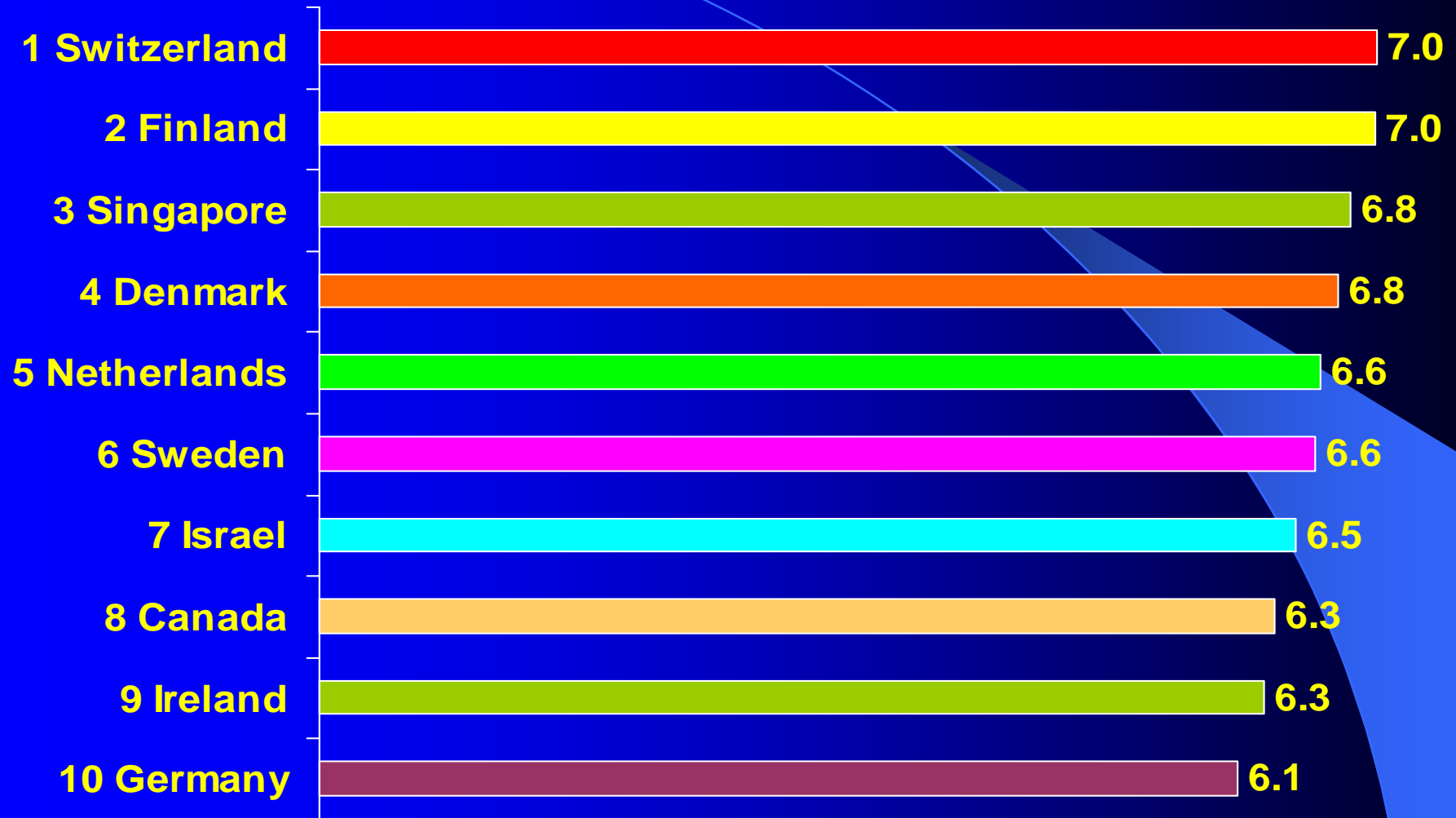
- **Transparency & simplicity**
- **Investment incentives**
- **Start-ups**
- **Entrepreneurship**
- **Foreign investors**
- **Protectionism**
- **Competition legislation**
- **Immigration laws**
- **Intellectual property protection**

ATTRACTIVENESS – FOREIGN TALENTS



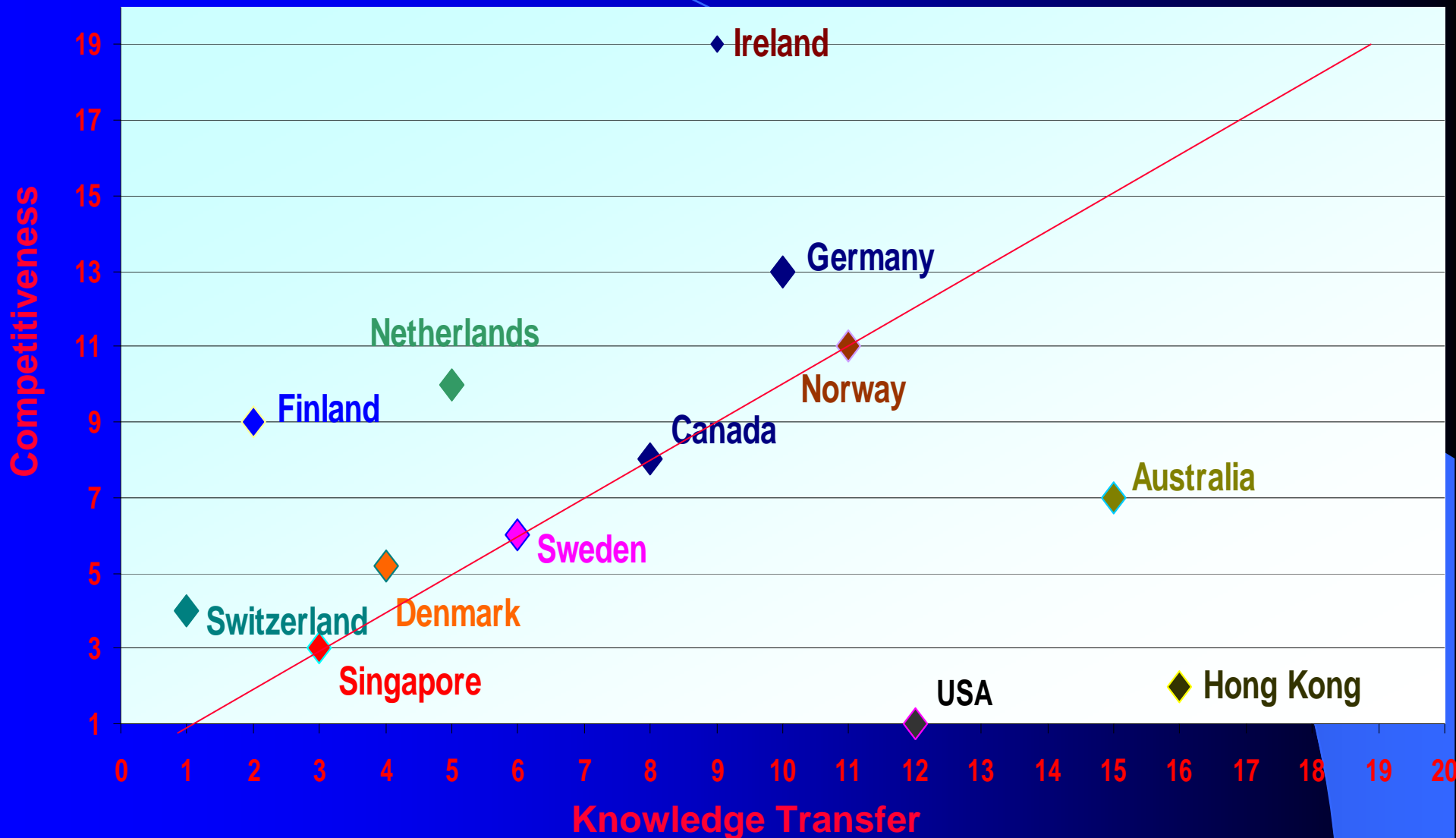
Source: WCY 2009

KNOWLEDGE TRANSFER



Source: WCY 2009

KNOWLEDGE TRANSFER & COMPETITIVENESS



ROADMAP FOR MOVING TO THE NEXT WAVE

