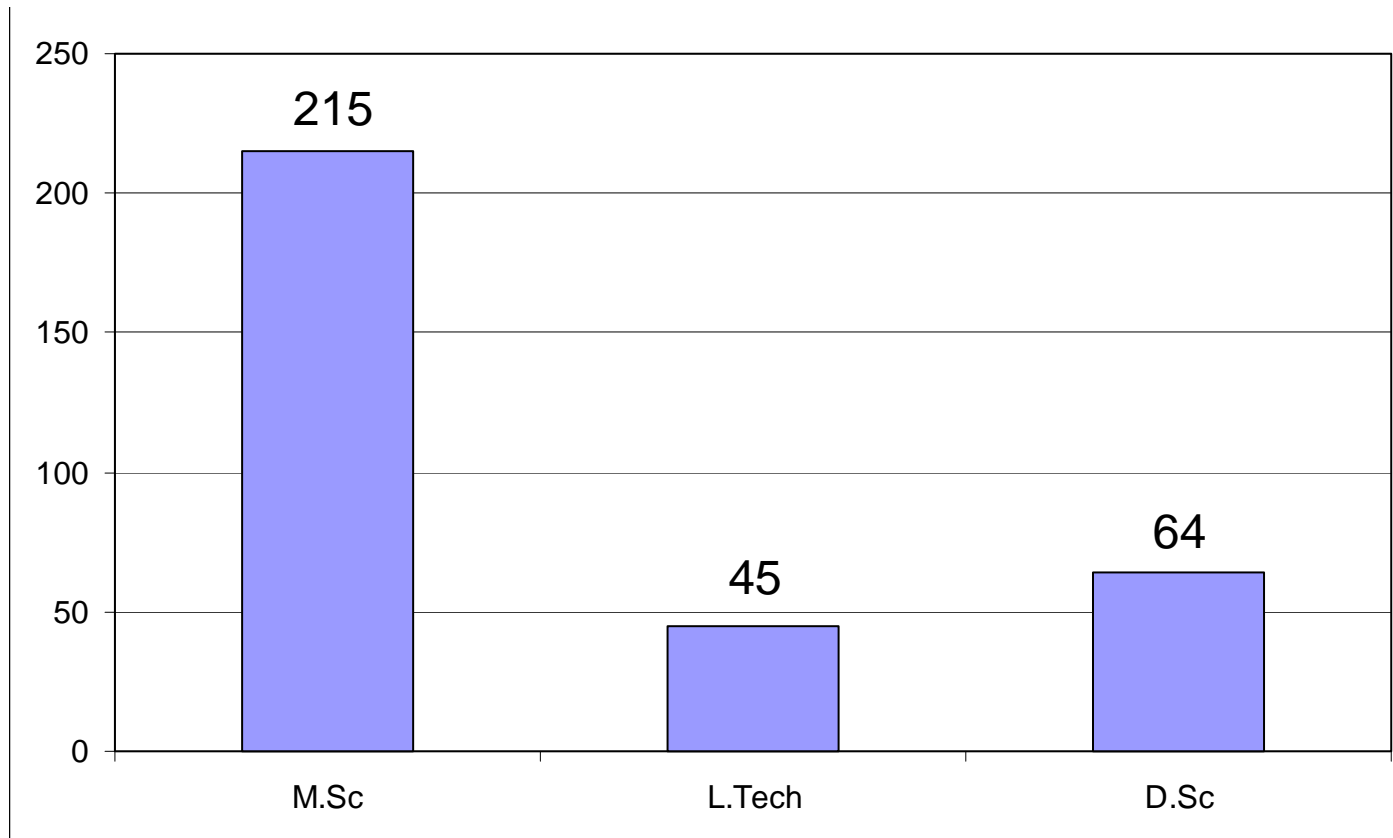


# International Otaniemi (INTO)

developing TKK International Strategy

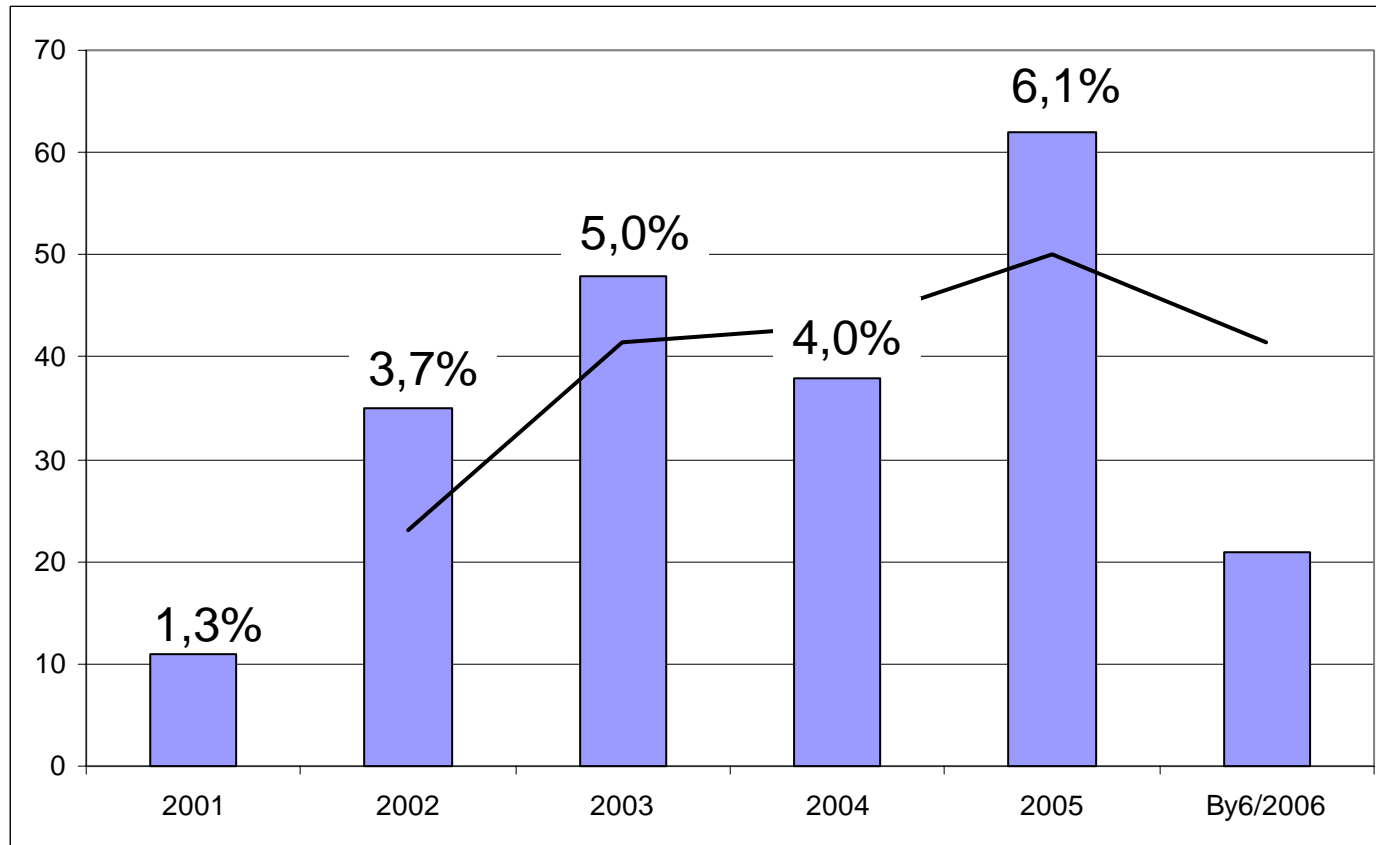
Raimo.Kantola@tkk.fi

# English speaking Graduates 2001 – 6/2006



Total of 308 people of whom 16 has more than one degree.  
Most M.Sc's from International Programs (master's or linkage).  
Share of English speakers among all D.Sc varies 9...18% during the period.

# English speaking M.Sc degrees by year

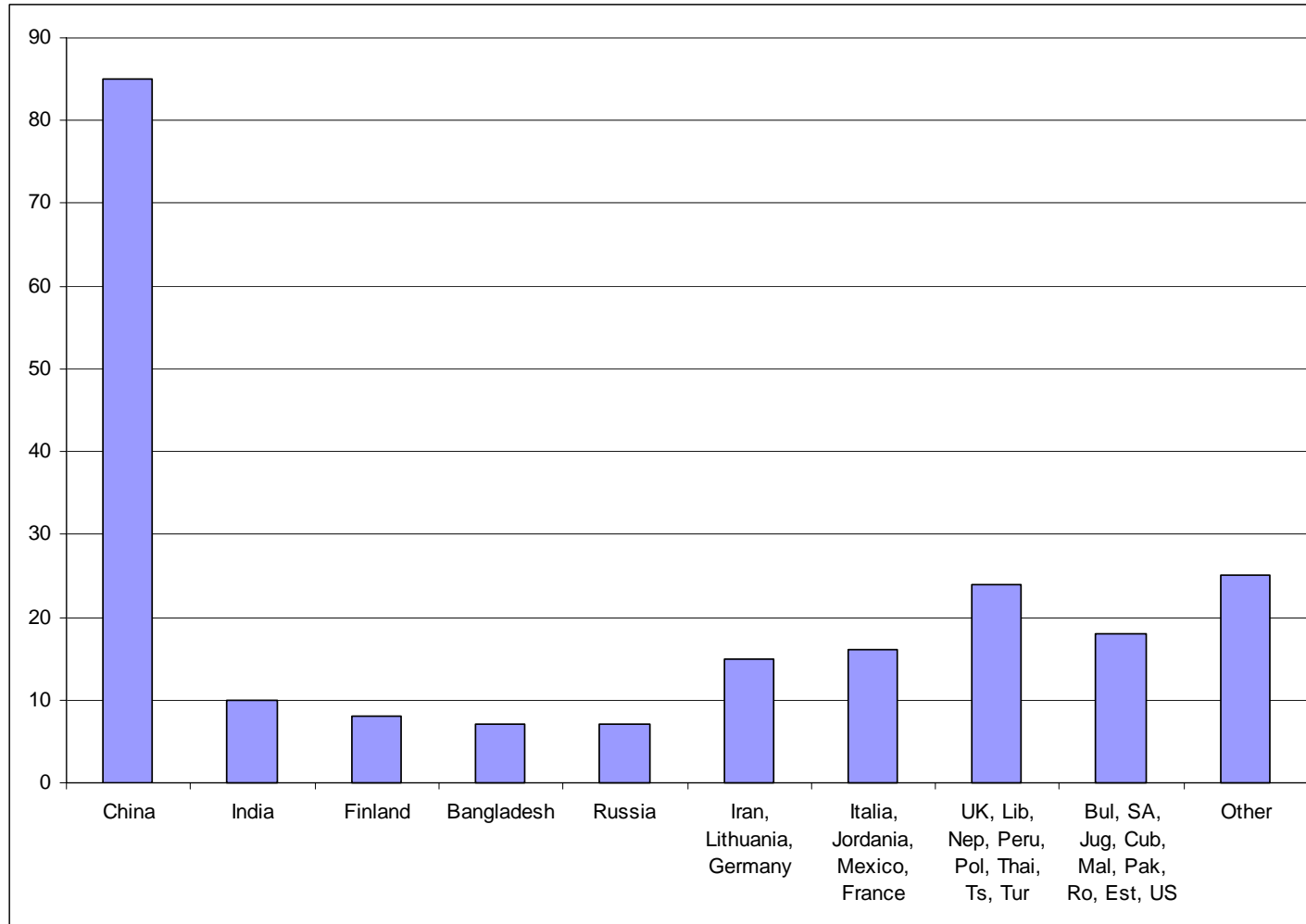


Line is moving average over 2 years.

Percent show the share of Engl speakers among all graduates.

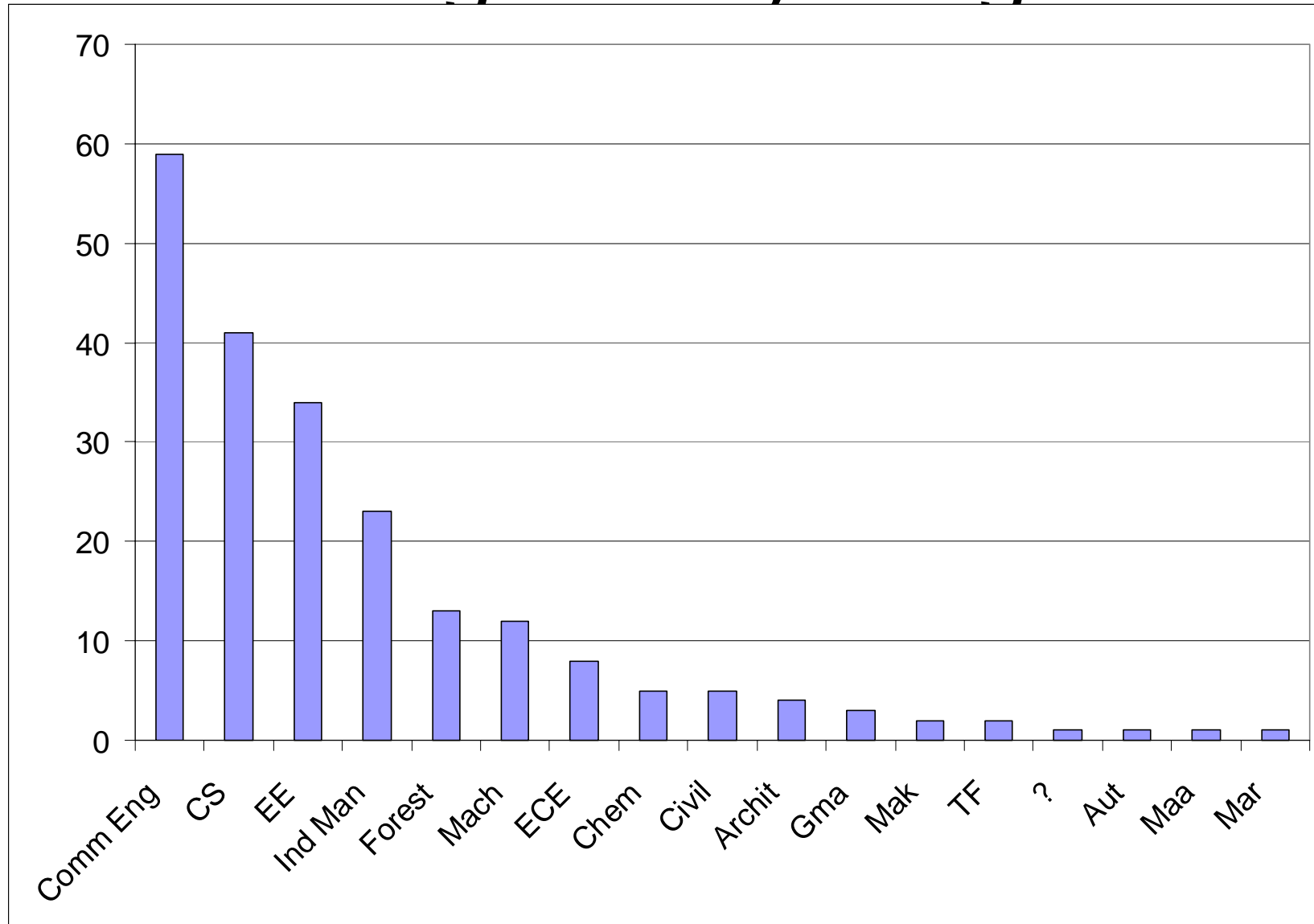
Percents of graduates of Foreign origin are a bit higher (e.g. 2005: 6,9%).

# M.Sc Graduates by country 2001-6/2006



Total of 54 countries. China takes 40%.

# M.Sc Degrees by Program



# International Applications to TKK Master's Programs – on-line 2006

<b>On line Applications to TKK DL 30.1. 2006</b>	2006		v2005
Communications Engineering	750		462
Electrical Engineering	163		
Micro-and Nanotechnology	105		
Electrical and Comm Engineering total		1018	53 %
Mobile Computing - Services and Security	411		220
NordSecMob - Security and Mobile Computing	307		
Computer Science total		718	37 %
Forest Products Technology	75		
Process Systems Engineering	121		
Other		196	10 %
<b>Total</b>	<b>1932</b>		

*The number of Applications is growing. The Web based Applications Process is now fully at use the first time. Year 2005 the on-line Applications process Was piloted.*

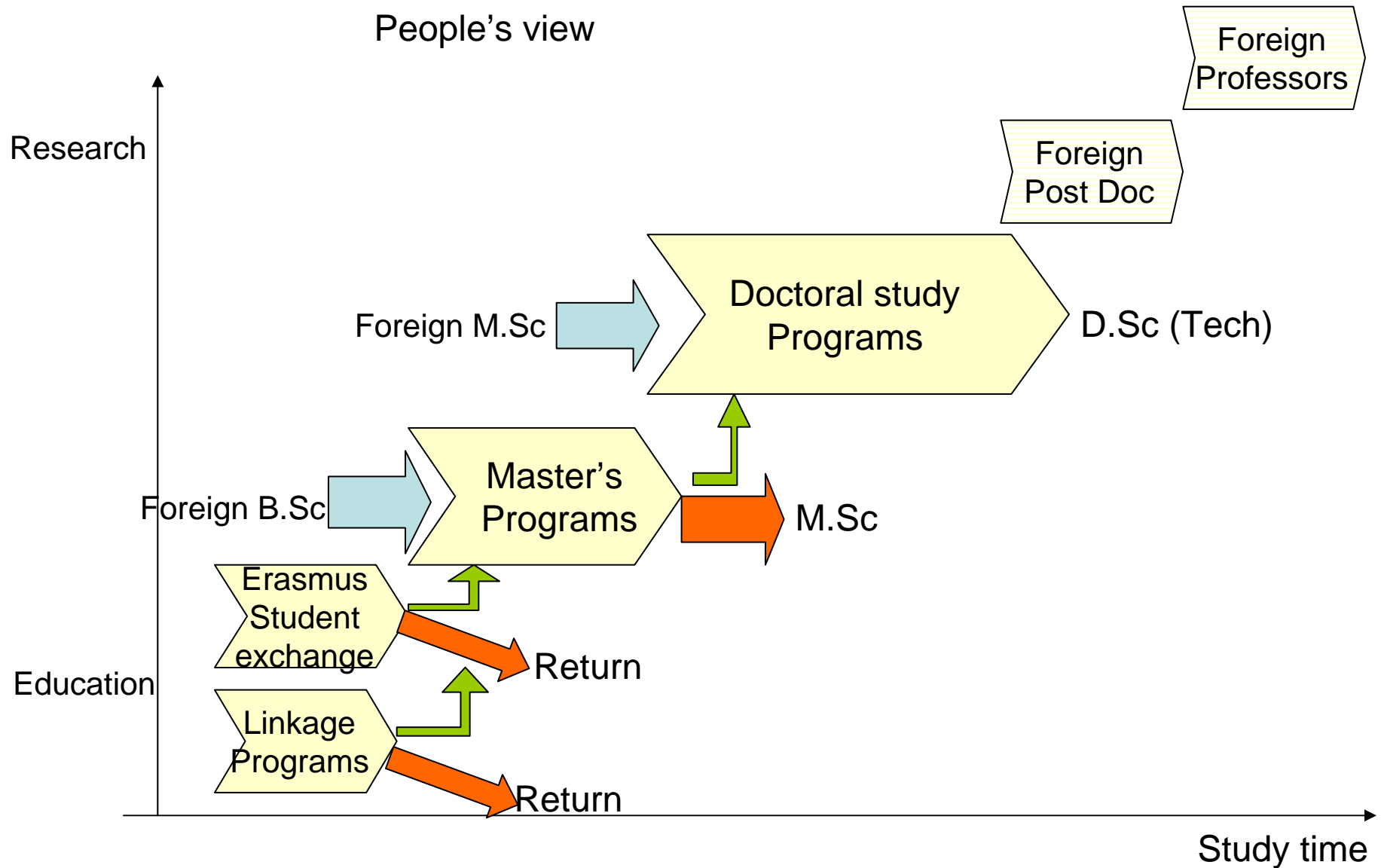
*At least Space Master program DL is at a different time.*

# Milestones achieved

- We have learned to run International Education Programs
- New International Master's and doctoral programs are emerging
- Breadth of activity: TKK is as international as Helsinki Metropolitan Area (5...7%)

# Models for International Education & Research

People's view





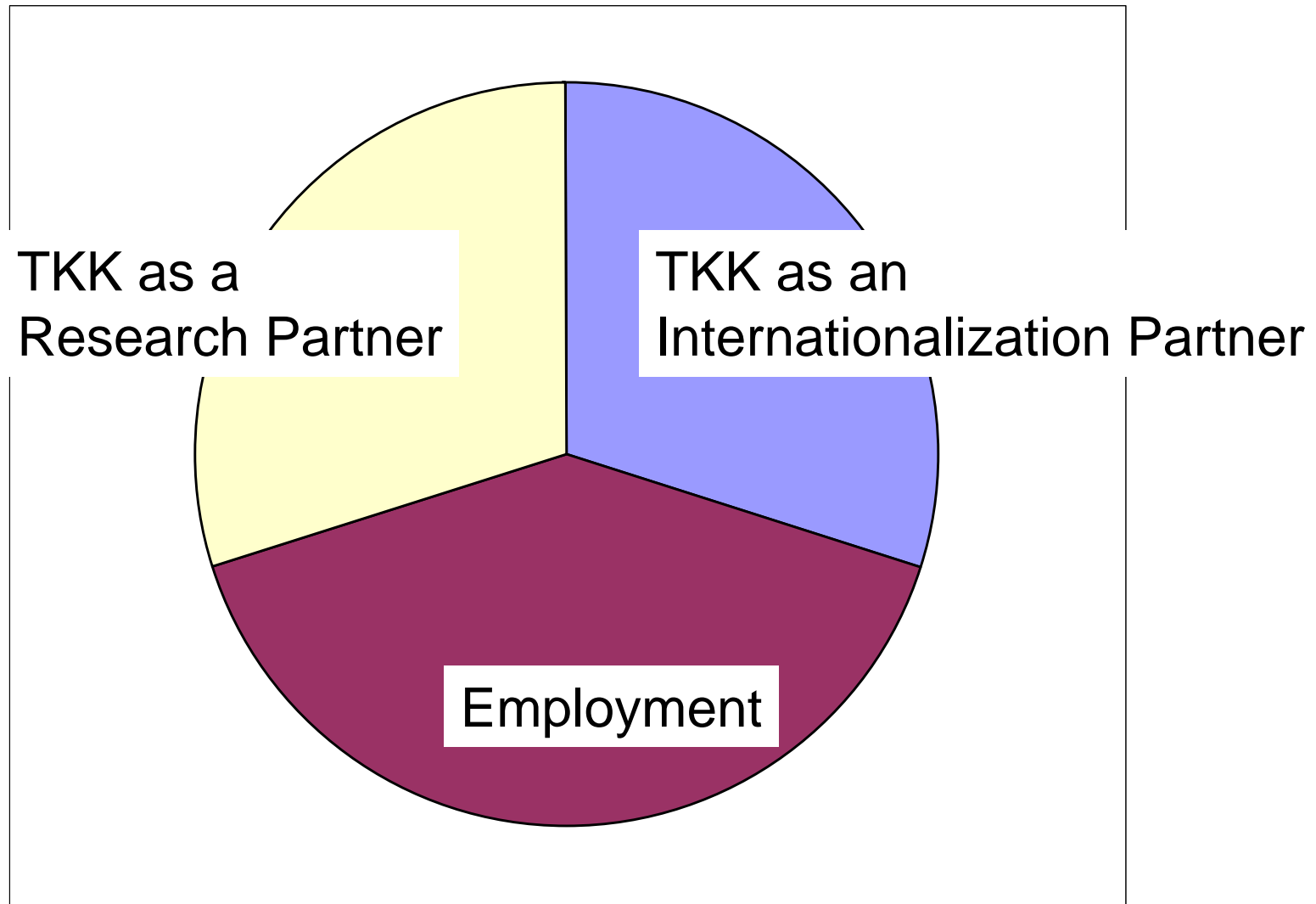
# Notes on models

- International Student Exchange is in balance (even a bit intake than what we send) – 300...400 per year
  - Master's programs have attracted also exchange students
- Master's Programs (7...9 programs) about 6% of graduates
- Doctoral study – a well working model for research centric labs
- Very few post docs and profs

# TKK International Challenges

- As a research partner, TKK is competing among all the best technical Universities in the world for the attention of companies that are in global business.
- International Education markets are emerging – we are encumbered by the no-fees policy
  - E.g. request to run an M.Sc program for a Central Asian country for money had to be turned down
- Are we a **Finnish University** with some international activity or **a University that happens to reside in Finland but that operates in a global framework.**

# TKK/Industry Collaboration Areas



# Data gathering themes from companies

- Employability of graduates (M.Sc and D.Sc (Tech))
- TKK as a Research partner
  - Foreign profs, post docs
  - Competition among Tech Universities from Company point of view
- TKK as a partner in Internationalization
  - Company needs for TKK focus areas
    - on education vs research axis,
    - in terms of areas of engineering and
    - In terms of business functions: R&D, Customer process, Management
  - Volume of International education and research activity
  - Company needs of TKK collaboration in large International Projects with multiple partners
  - Development collaboration in 3rd world countries
  - TKK participation in 3rd task International Activities (Standardisation, Policy: e.g. EU platforms...)