

Patenting: The Innovator's Most Important Tool

Prof. Dr. Mohamed Ragab Bayoumi

Vice - President of Assiut University

**For Postgraduate Studies and
Research Affairs**

Outlines

- W W W Patenting:
 - (W^hat – W^hy – W^here)
- Patenting Search Tools
- Patent Format
- Where to apply

Patenting: What?

- A Legal Monopoly right to prevent others from making, using ,offering for sale, selling or importing a product that infringes the patent in the country that issued the patent.
- The rights can sold or transferred to another party through assignments or licensing.
- The rights last for up to 20 years from the date of filing of the patent application.

Patenting: Why?

- IP monopoly protection
- Innovator's personnel and institution benefits
- University Ranking



Patenting for the University Rank

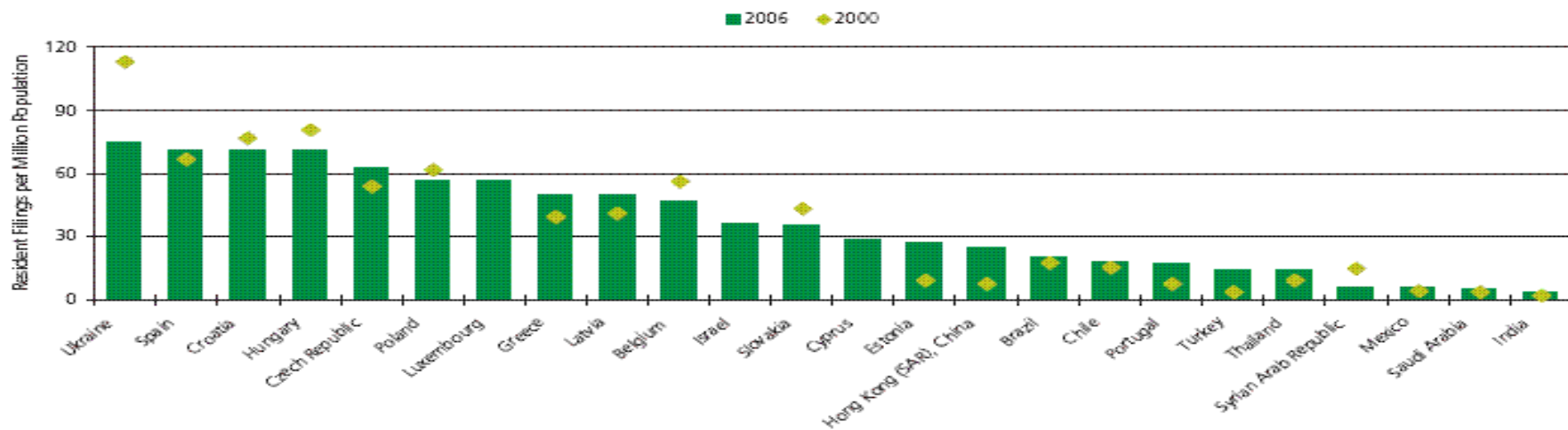
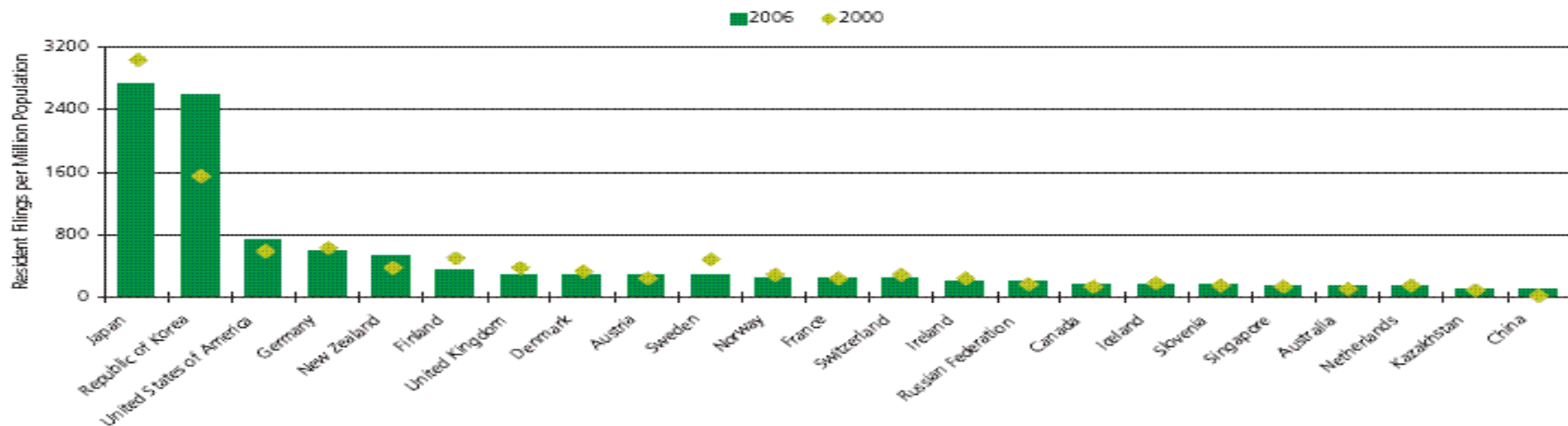
- **Academic Ranking of World Universities** uses the following formula:
 - Alumni winning Nobel Prizes and Fields Medals (10%)
 - Staff winning Nobel Prizes and Fields Medals (20%)
 - Highly-cited researchers in 21 broad subject categories (20%)
 - Articles published in Nature and Science (20%)
 - The Science Citation Index and Social Sciences Citation Index (20%)
 - The per capita academic performance (on the indicators above) of an institution (10%)
 - Ref: N.C. Liu and Y Cheng 2005 “Academic ranking of world universities - methodologies and problems”, Higher Education in Europe, Vol. 30, No 2., and earlier in the proceedings of Meeting of the International Rankings Expert Group 2004.

Science Citation Index (SCI)

- Produced by the [Institute for Scientific Information](#) (ISI) in 1960, which is now owned by [Thomson Reuters](#).
- It is made available online through the [Web of Science](#) database, a part of the [Web of Knowledge](#) collection of databases
- The database includes the following:
 - 23,000 academic and [science journals](#) (Including [Web of Science](#) journal listings)
 - **23,000,000** [patents](#)
 - 110,000 [proceedings](#)
 - 9,000 websites
 - Coverage from the year [1900](#) to present day (with Web of Science)
 - Over 40 million source items

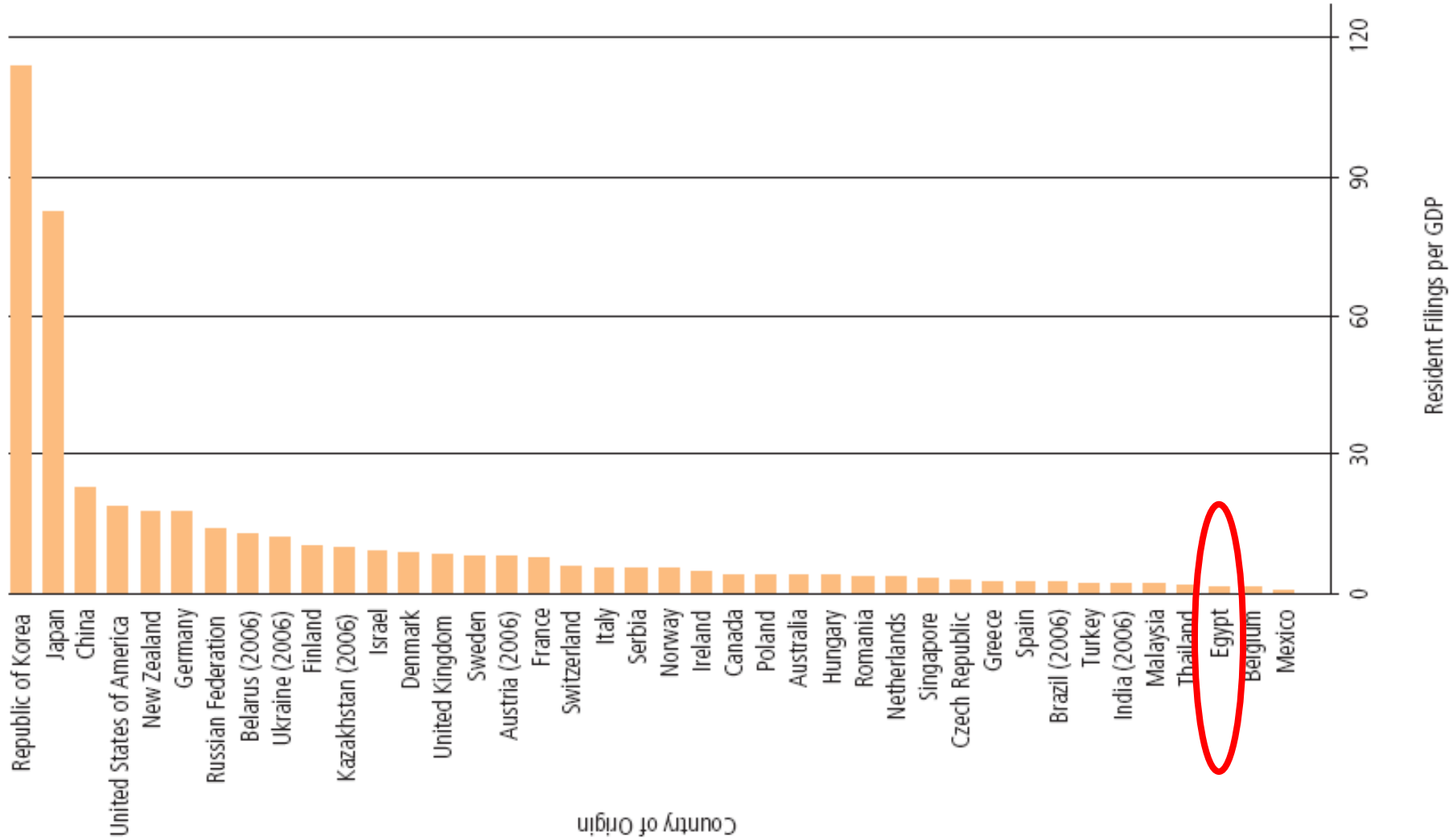
Patenting: Where?

Resident filings per million population: selected countries / territories, 2006



Source: WIPO Statistics Database and World Bank (World Development Indicators)

Resident patent filings per \$billion GDP, selected countries, 2007



Patents Search Tools

- PATSTAT by EPO
- MIMOSA for patent statistics and mapping (EPO)
- WIPO's Patent information portal and Patentscope
- Thomson Reuters Analytical Tools
- Orbit.com

Patenting – Where Can Patents be Applied for?

- **National Patent Office**

- National patent only valid in that country
- Foreigners can apply for a patent
- One year of priority for international applications

- **Regional Patents (e.g. European patent office)**

A European patent is equivalent to National patents in the countries for which it was granted (the application chooses the countries; each country attracts additional fees)

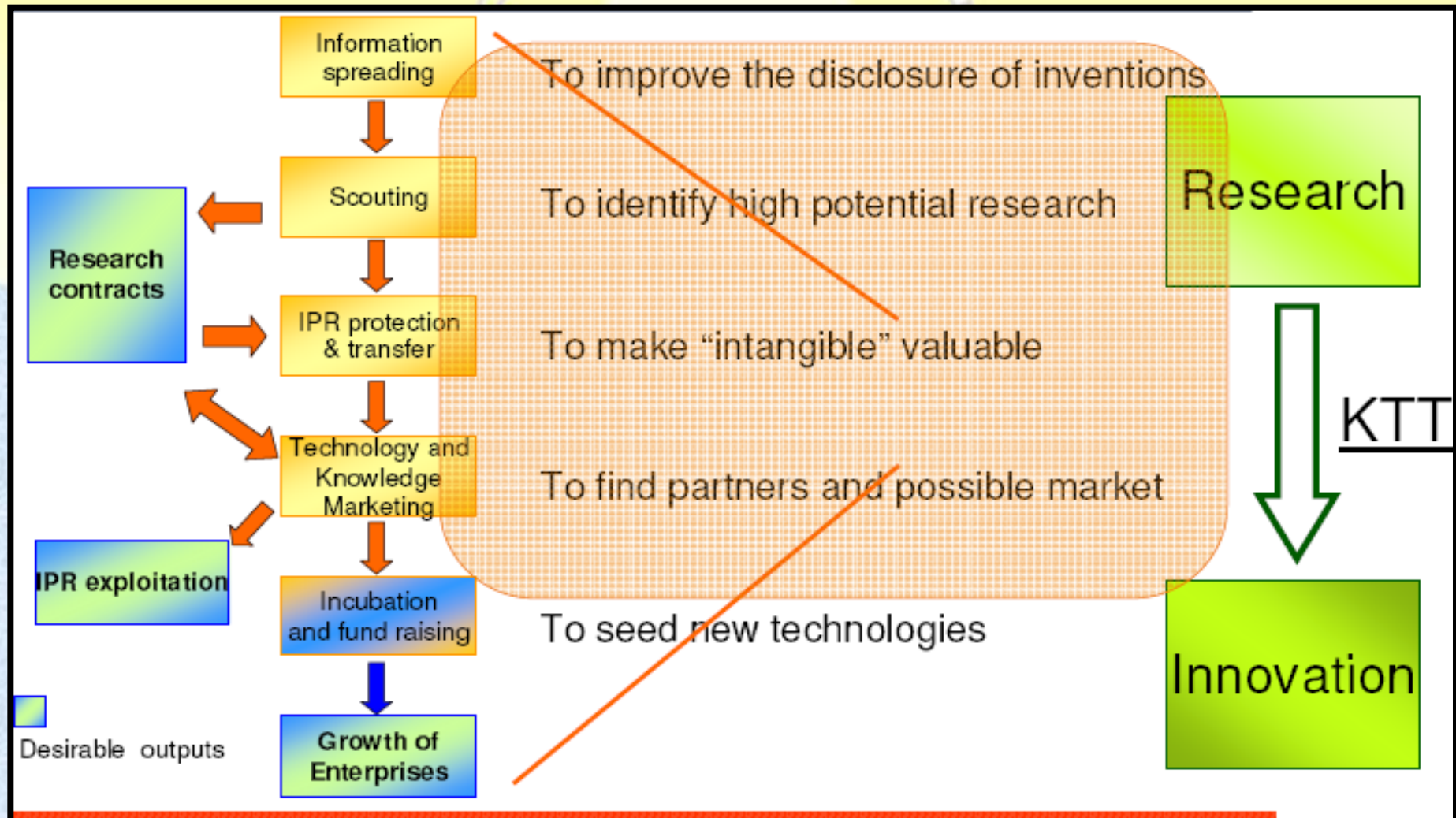
- **Patent Cooperation Treaty**

Just one application covers over 100 countries.

After the initial application phase, the international application leads to one or more national phase applications.

There is no international patent!

A Simple Model for Innovation Pathway



From Idea to Product

Raising the awareness of entrepreneurship

- Undergraduate students study entrepreneurship and get five points.
- PhD students have to know something about innovations and patent by taking courses helping them to understand what can be patent, branding, etc.

Ideas scouting and Coaching

- **Scouting:** this done by contacting newly hired faculties and researchers to get to know what they are doing.
- **Coaching:** helping the scientist to take their ideas and do the licensing, filing patent application.

Pre-incubation

- researchers act as if they have a company (a virtual company)

Go to the market Lab

- **Prototyping;** show prototypes to market the product

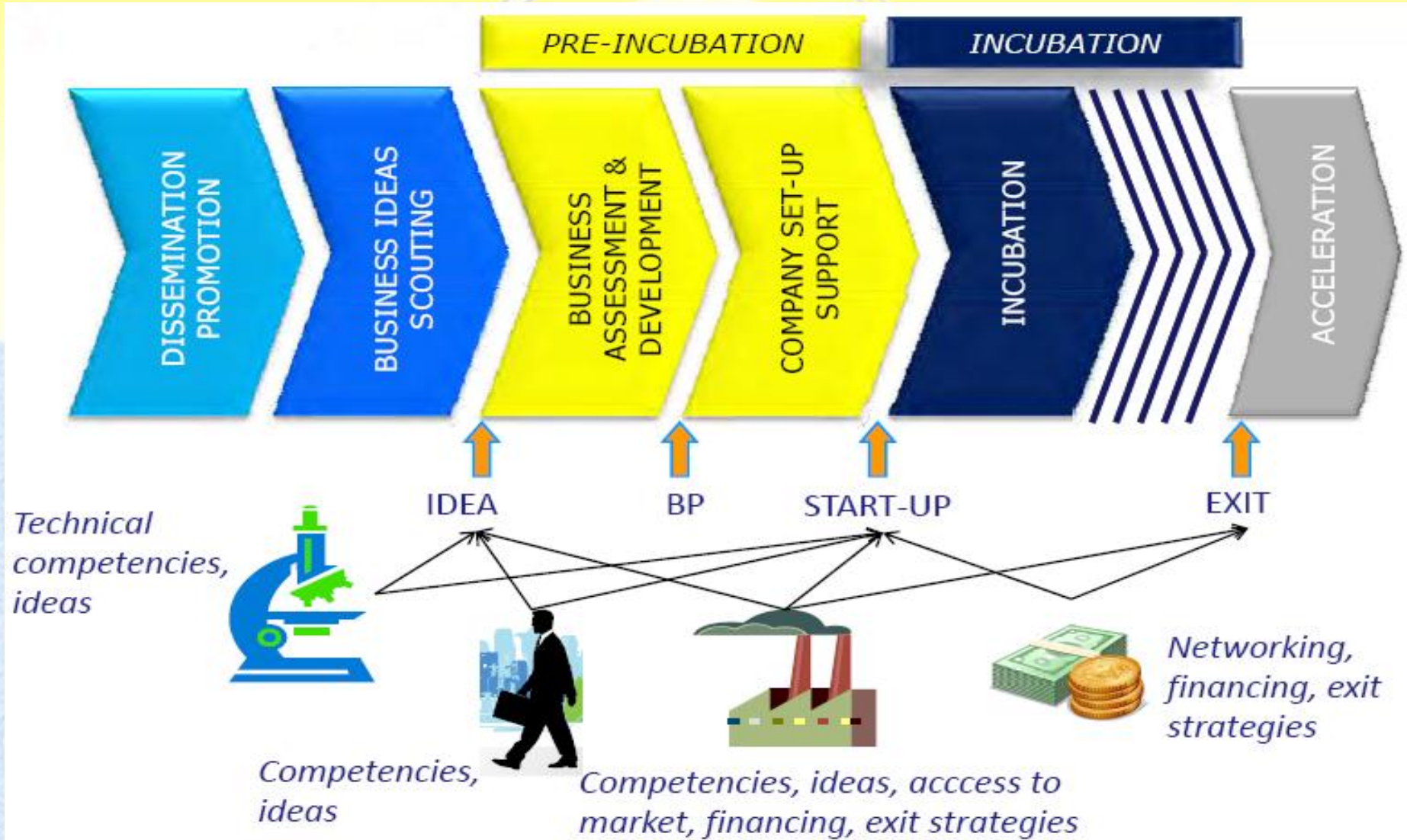
The holding company

- If the university should own something, the ownership has to the holding company as LiU can not own any rights over the innovation and product by law

Business incubator

- **LEAD**(Linköping Entrepreneur and Acceleration Development). LEAD takes over the innovation center job when a research group knows that they want to start up a company and they are approximately six months from starting that company.

Business Incubation Services





**Thank
You**

**For your
attention**

شكراً لحسن الاستماع مع خالص
الأمنيات الطيبة لحضراتكم بكل التوفيق
فى جميع الجهود البناءة الصادقة والمخلصة