

# Why does IP matter at universities?

*"A EUROPEAN PERSPECTIVE"*

**Eray Kulak**

patent examiner, DG1,1522  
European Patent Office, Berlin

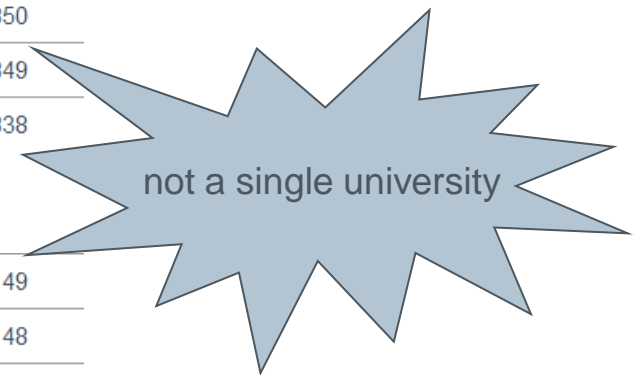
Istanbul, April 14-15 2011  
Boğaziçi Üniversitesi





# Top 100 Patent Applicants of EPO\*

Rank	Company	Count
1.	PHILIPS	2556
2.	SIEMENS	1708
3.	BASF	1699
4.	SAMSUNG	1337
5.	ROBERT BOSCH	1284
6.	LG CORP.	1221
7.	PANASONIC	1020
8.	QUALCOMM	969
9.	TOYOTA	926
10.	SONY	913
11.	ALCATEL-LUCENT	850
12.	MITSUBISHI	849
13.	BAYER	838
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98.	YAMAHA HATSUDOKI KABUSHIKI KAISHA	149
99.	INTERDIGITAL TECHNOLOGY CORPORATION	148
100.	XEROX CORPORATION	146



\* 134 542 applications received by the EPO in 2009

# The first patent system in Europe

Senate of Venice, 1474:

*"Any person in this city who makes any new and ingenious contrivance, not made heretofore in our dominion, shall, as soon as it is perfected so that it can be used and exercised, give notice of the same to our State Judicial Office, it being forbidden up to 10 years for any other person in any territory of ours to make a contrivance in the form and resemblance thereof".*

Knowledge Base

Human Resource

Industry and Trade

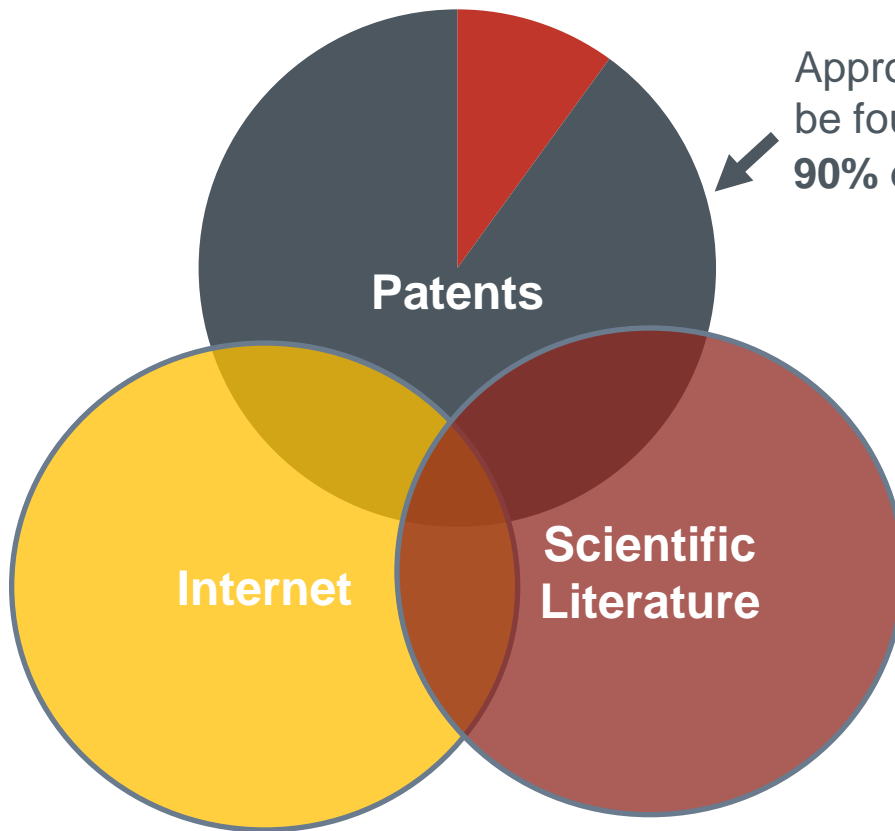


# Knowledge Base

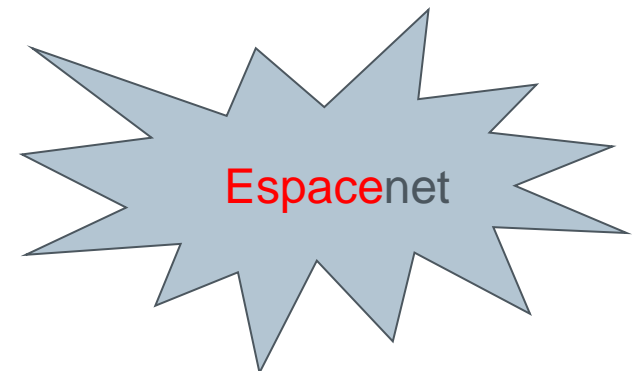
**25% of all R&D efforts ...**

... are wasted each year on inventions that have already been invented.

**Don't start your R&D until you have done a search!**



Approximately 80% of the information which can be found in patents is not available anywhere else  
**90% of patent disclosures is free to use**



# The skilled person in the art

A **fictional** person (a team for some advanced fields)

- posses **all the common general knowledge** of the art in question.
- acts as an **ordinary practitioner** who has at his disposal:
  - **all prior art** known to the date of filing.
  - **normal means and capacity** for routine work and experimentation.
- has a **conservative attitude**, does not enter unpredictable areas or take incalculable risks

# European Patent Examiners

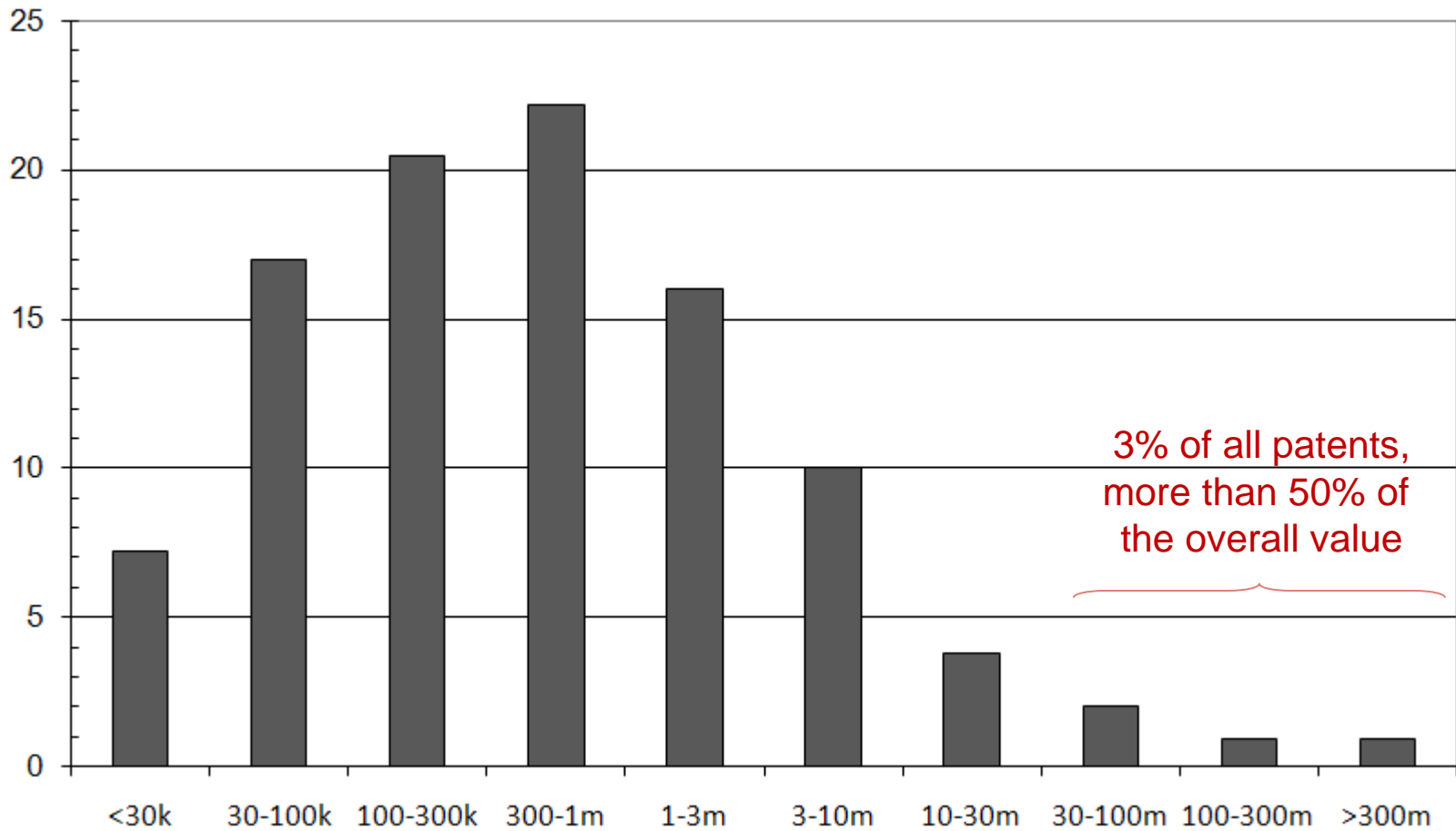
- full university degree (MSc or PhD) in physics, chemistry, engineering or natural sciences
- the degree should be relevant to the technical field of work applied
- an excellent knowledge of one official language (English, French and German) and the ability to understand the other two.



# European Patent Attorneys

- a scientific or technical qualification - for example, in biology, biochemistry, chemistry, electronics, pharmacology or physics.
- trained under the supervision of a professional representative or as an employee dealing with patent matters in an industrial company established in one of the contracting states.
- EQE exam
- implicit requirement: an excellent knowledge of one official language (English, French and German) and the ability to understand the other two.

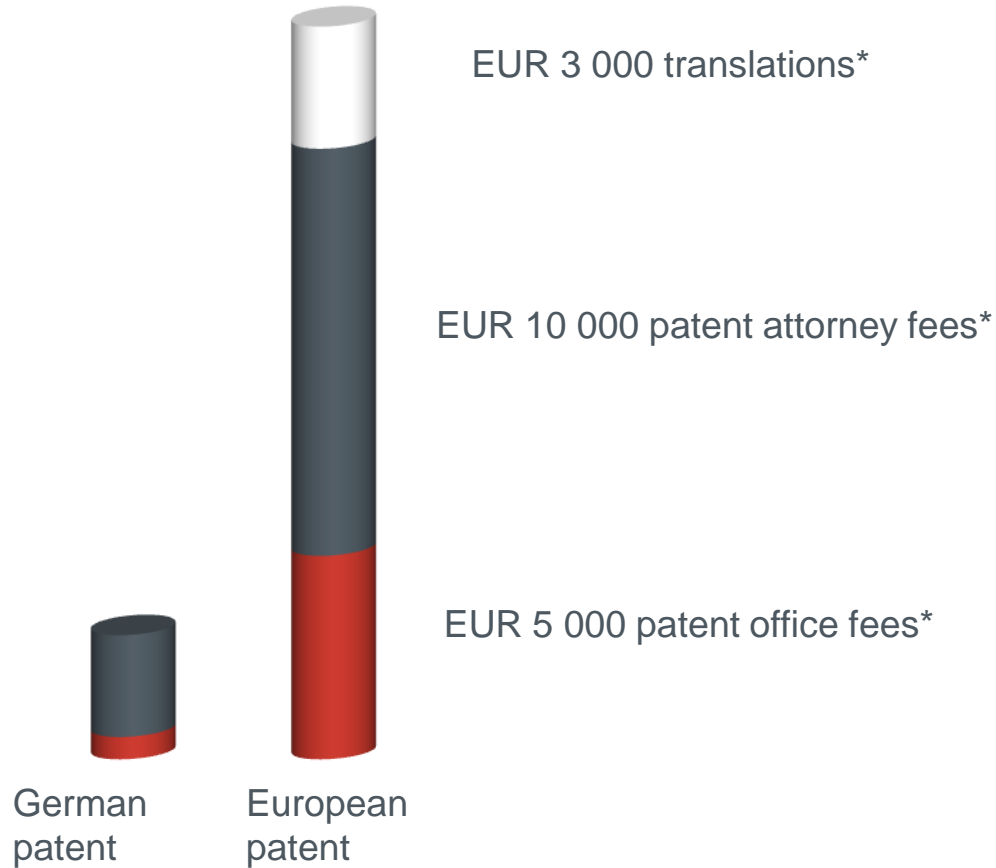
# The value of European patents



# Cost of a European Patent

Protection in (e.g.):

- Germany
- United Kingdom
- France
- Italy
- Spain
- Switzerland



\* Estimated cost. Actual cost depends very much on the specifics of the individual case.

# Trilateral Classification System: CPC

- Trilateral Co-operation since 1983: EPO, USA(USPTO), Japan(JPO)
- Current Classification Schemas: ECLA, USPC, FI&FT, IPC
- European Classification (ECLA), 135 000 classification entries
  - G:** PHYSICS
  - G06:** COMPUTING; CALCULATING; COUNTING
  - G06T:** IMAGE DATA PROCESSING OR GENERATION
  - G06T15:** 3D Image Rendering
  - G06T15/04:** Texture Mapping
- Common Classification System CPC in 2013, first trilateral, as next IP5
- China (SIPO), Korea (KIPO) > IP5: The world's five largest IP offices
- SIPO-2015: 9000 Examiners (EPO 4500); 2m application/year (EPO: 135k)

# EU Patent

- EU Regulation , unified procedure (search, publication, examination) just like the EPC system
- Proposed EU Regulation on translation arrangements: language regime based on the 3 EPO languages (DE, EN, GB) supported by machine translation services in relation to other EU languages
- Final patent granted as a single right for all participating countries – just like the Community trade mark and design systems
- Litigation system through separate European and EU patents court (EEUPC) Agreement

# Machine Translation:

- Today, patent applications are translated in one of the EPO's official languages and patent grants into the languages of all countries in which the patent applies:
  - expensive in comparison to Japan, China, USA
  - difficult to search in patents published in foreign languages
  - an important step for a single pan-European patent
- EPO will use Google's machine translation technology to translate patents into the languages of the 38 countries that it serves
- Google's statistical machine translation:
  - detecting patterns in documents that have already been translated by human translators
  - the EPO will offer access to around 1.5 million documents, growing by more than 50 000 new patent grants each year. Asian languages.

# Thank you for your attention

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