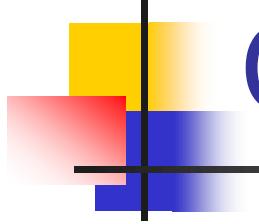


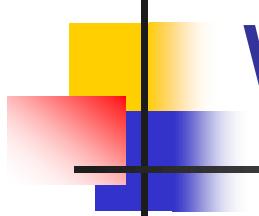
What Can We Find From IP Statistics ?

Japan Patent Office
Ryo FUNAKOSHI



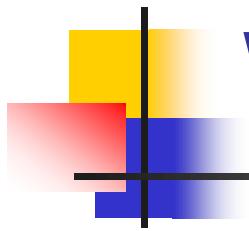
OUTLINE

- Importance of Statistics
- What is IP statistics
- Data Availability



Why Statistics? (1)

- “I keep saying that the sexy job in the next 10 years will be statisticians, And I’m not kidding”
 - Hal Varian (Chief Economist, Google)



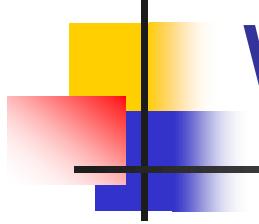
Why Statistics? (2)

- How do we navigate ourselves to our goal?
-- > We may lose our way

- Where is our goal?
-- > We may not find our goal



- Statistics can highlight our way

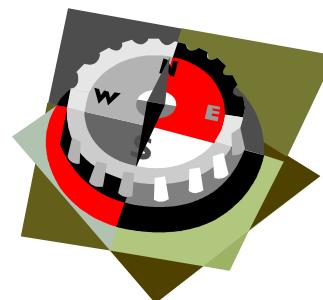


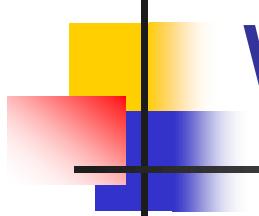
Why Statistics? (3)

- Based on Statistics,

We can

- envision our goals
- highlight the ways
- do actions





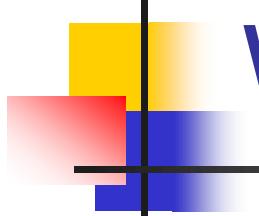
What is IP statistics?

Patent indicators are one of indicators

1) which reflect technology output

And

2) which are utilized for science
innovation policy

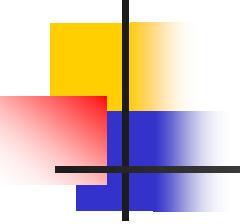


What is IP statistics?

- A Patent Document contains a large amount of information for statistics analysis
 - Technology (IPC, Prior arts)
 - Place (Address)
 - Time (Date of filing, Date of Grant)

What is IP statistics?

Front Page published in Japan Patent Office

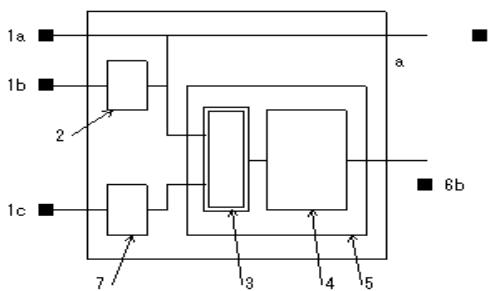


(19)日本国特許庁(JP)	(12)公開特許公報(A)	(11)特許出願公開番号 特開2000-244579 (P 2000-244579 A)	(43)公開日 平成12年5月20日(2000.5.20)
(51)Int.CI. ⁷ G 01 B 3/00 G 02 C 26/00 23/02	識別記号 101	F I G 01 B 3/00 101 A 2C032 G 02 C 26/00 2F029 23/02 A 45 C 12/00 101 A A 47 B 23/02	テープコード(参考)
審査請求 未請求 請求項の数1 O L 外国語出願 公開請求 (全6頁) 最終頁に続く			
<p>(51) IPC</p> <p>(21)出願番号 特願平11-123456 (22)出願日 平成11年11月10日(1999.11.10) (31)優先権主張番号 83304359.9 (32)優先日 平成10年11月12日(1998.11.12) (33)優先権主張国 フランス(F R)</p> <p>特許法第30条第1項適用申請有り 平成10年9月21日付 画像工学会研究専門委員会主催の1992年度画像符号化シンポジウム(PSCJ'92)において文書をもって発表</p> <p>特許法第65条の第22項第4号の規定により明細書及び図面の一部は不掲載とする。</p> <p>(54)【発明の名称】ファクシミリ走査装置</p> <p>(57)【要約】 (修正有) 【目的】 ファクシミリ端末パラメータ識別方法に関し、 ファクシミリ装置機能のパラメータ拡張を容易にする。 【構成】 通信時の端末パラメータを識別する方法において、 端末パラメータを含む制御信号の送信端末1a、1b または制御信号のファクシミリ情報フィールドを、複数の サブフィールドに分離し、各サブフィールドの情報を分離する ファクシミリ情報フィールドのデータ中に現れない特定の識別コードを挿入してファクシミリ情報フィールドを作成する。制御信号の受信端末7はファクシミリ情報フィールド内の上記特定の識別コードを検出し、 ファクシミリ情報フィールドを複数のサブフィールドに分離して、各サブフィールドの情報の内容を解析し相手端末の端末パラメータの内容を検出す。装置機能のパラメータを拡張する場合はユニークコードを挿入して可変長の端末パラメータを分離する。</p>			

(11) publication number
(43) publication date

(12) kind of document

(71) applicant
(72) inventor
(74) attorney



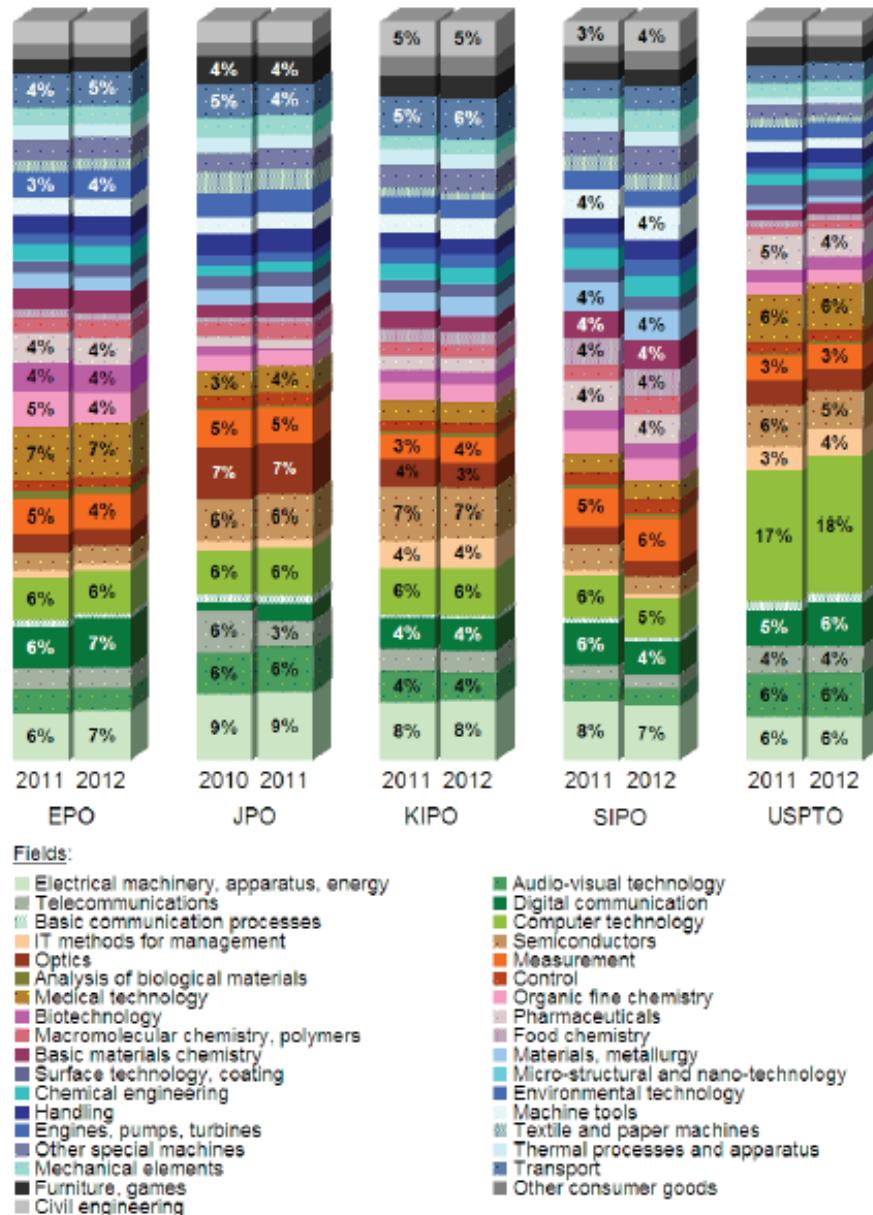
Indicators

– view from technology

- IPC
- Patent indicators are a unique means to track the rise of emerging technologies

Indicators - Field of Technology

Fig. 4.4: APPLICATIONS FILED - FIELD OF TECHNOLOGY



Indicators

– view from address

- Address of applicants and inventors:
the place where the inventions were
born

Patent are used to monitor the technological performance of companies, regions or countries

Indicators

– Location and Technology

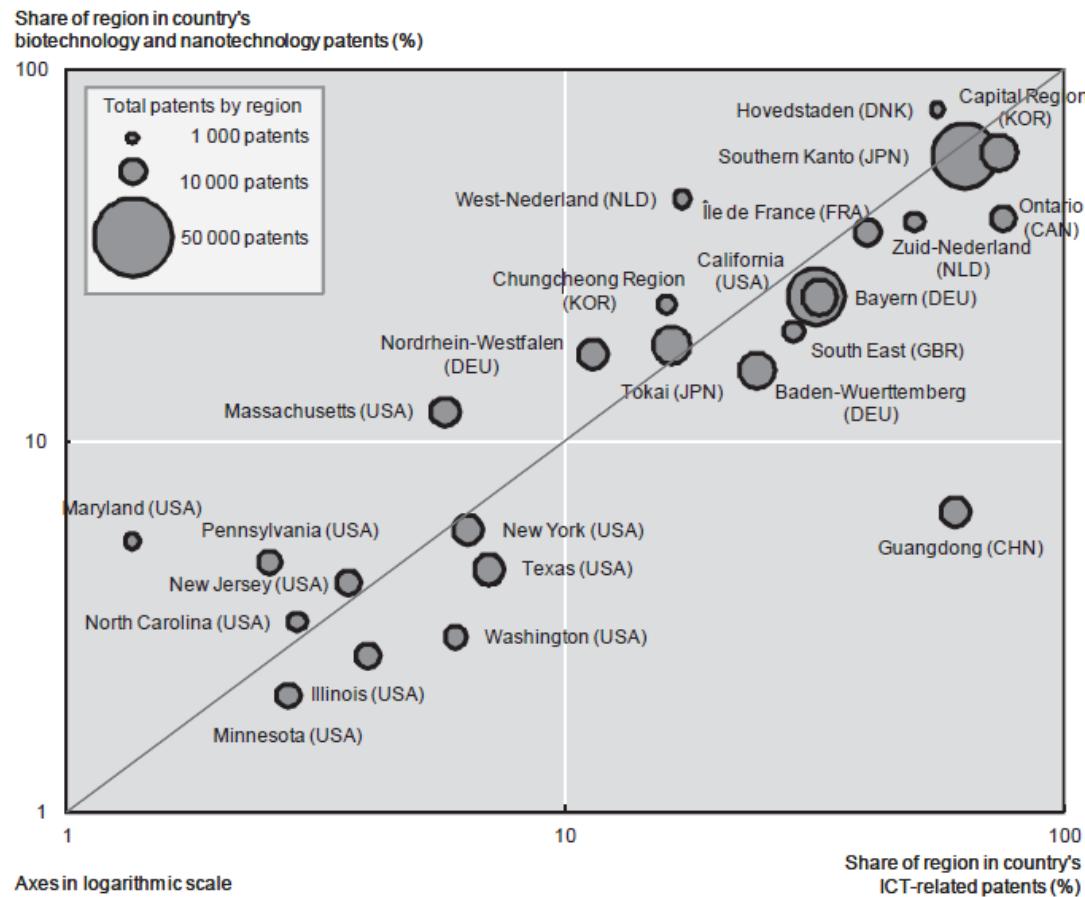
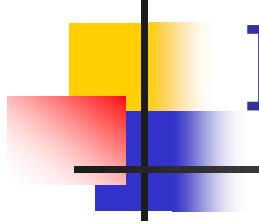


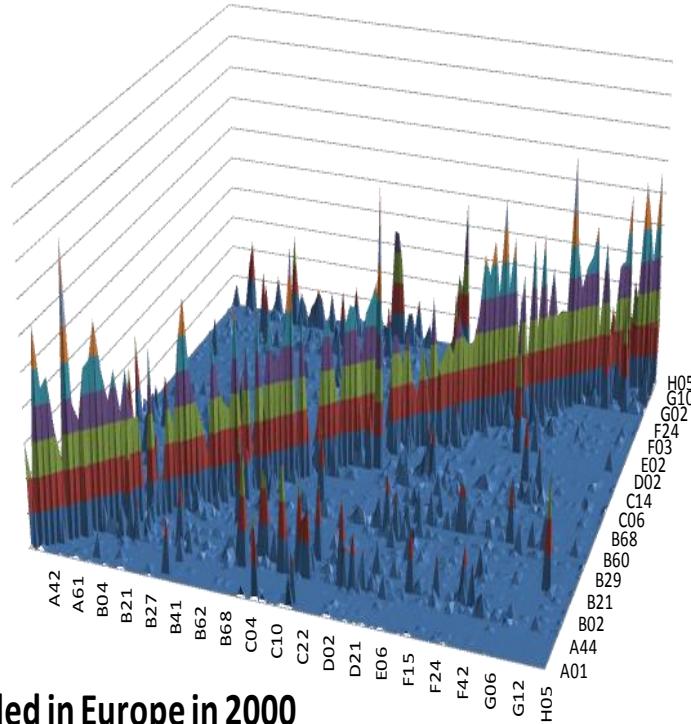
Fig2. Innovation hot spots in ICT, Biotechnologies and nanotechnologies, 2006-2008 (Source: OECD, STI Scoreboard 2011)



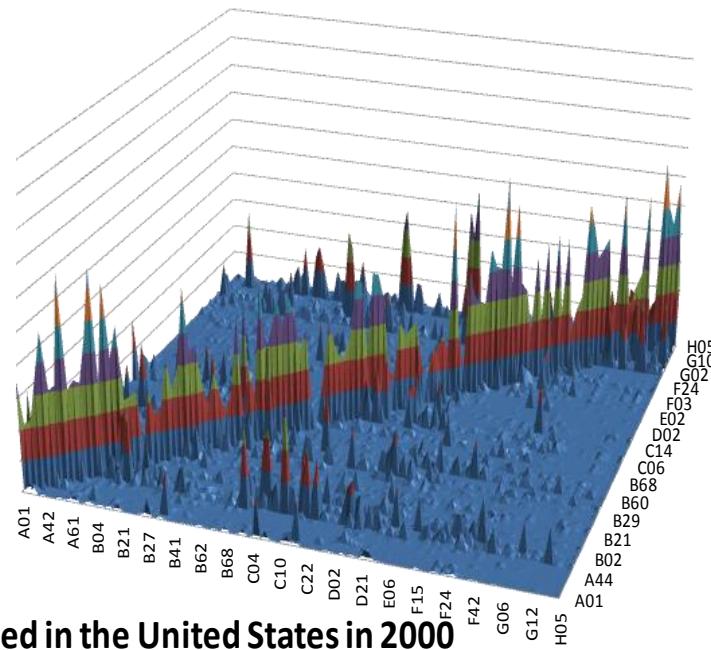
Indicators

- Patent citations point the use of previous inventions in new inventions, which makes it possible to identify the influence of particular inventions or particular sets of inventions and map between them in the economy.

Indicators – Technological Proximity



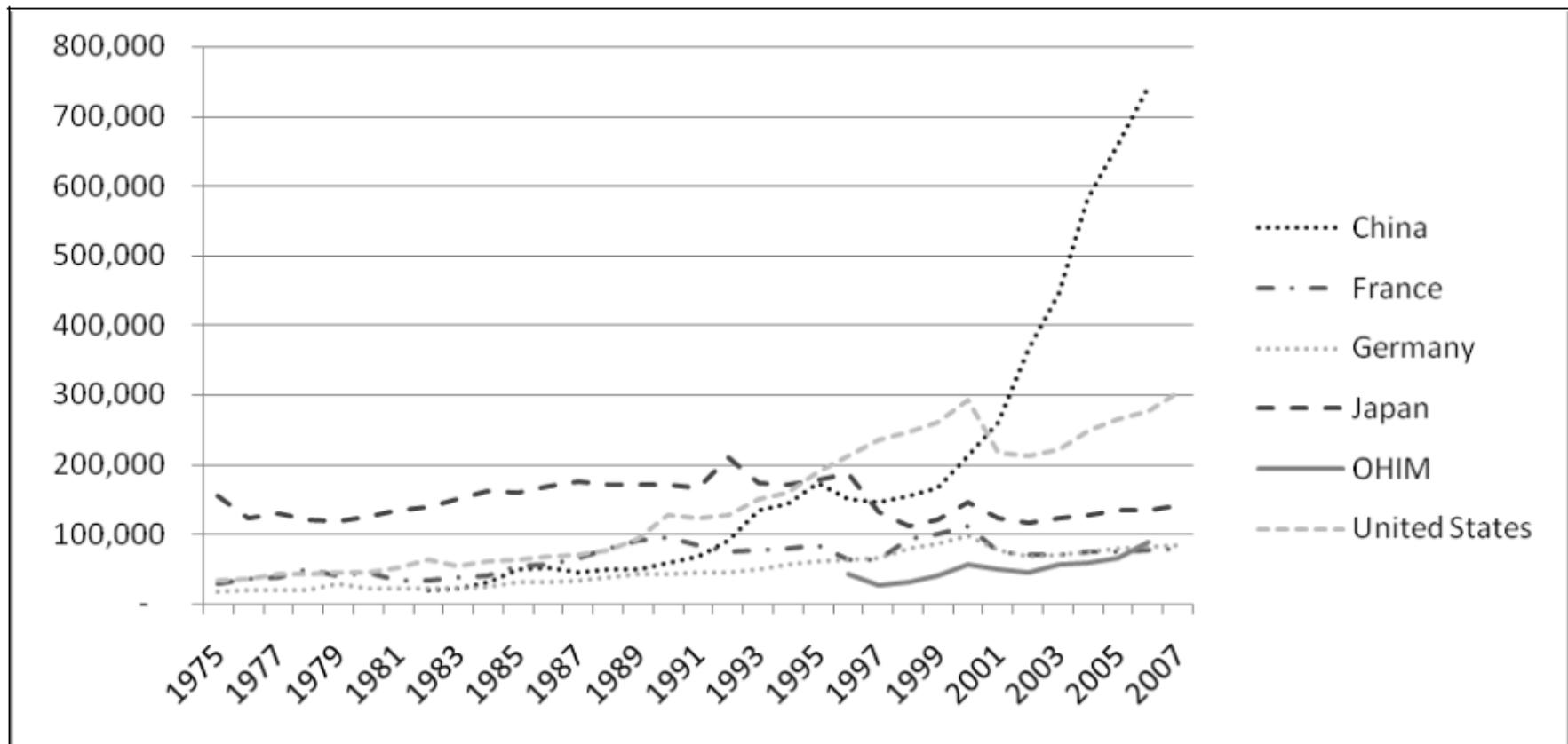
Patents filed in Europe in 2000



Patents filed in the United States in 2000

Indicators - Trademark

Figure 3. Evolution of the applications since 1975 in 6 major offices



Indicators

- Trademark

Table 1. Survival rate of registered trademarks at USPTO between 1987 and 2007

	Cancellation or abandonment date																					
	Still valid in 2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987
Registration date	2007	99.97	0.03																			
2007	99.97	0.03																				
2006	99.87	0.10	0.03																			
2005	99.75	0.10	0.11	0.03																		
2004	99.66	0.10	0.13	0.09	0.02																	
2003	99.63	0.09	0.09	0.10	0.07	0.03																
2002	99.51	0.13	0.10	0.07	0.06	0.07	0.03															
2001	87.81	11.59	0.13	0.09	0.07	0.09	0.07	0.02														
2000	45.56	38.49	14.85	0.09	0.10	0.09	0.09	0.09	0.01													
1999	45.89	0.14	40.46	11.95	0.10	0.12	0.10	0.06	0.09	0.01												
1998	44.40	0.09	0.31	41.46	12.53	0.13	0.12	0.10	0.11	0.06	0.02											
1997	41.19	3.00	0.10	0.34	42.95	11.28	0.12	0.09	0.09	0.10	0.07	0.02										
1996	30.00	10.72	3.55	0.19	0.14	40.95	12.49	0.10	0.13	0.06	0.09	0.09	0.03									
1995	29.76	0.10	11.85	3.33	0.04	0.15	52.77	0.19	0.13	0.06	0.08	0.13	0.08	0.03								
1994	29.52	0.04	0.10	12.44	3.87	0.05	2.38	49.52	0.26	0.11	0.09	0.09	0.14	0.10	0.02							
1993	30.00	0.04	0.04	0.11	12.90	3.74	0.31	2.38	31.98	16.66	0.09	0.10	0.10	0.12	0.07	0.01						
1992	30.17	0.11	0.01	0.02	0.13	14.43	2.50	0.06	0.37	32.29	18.45	0.13	0.12	0.10	0.09	0.07	0.01					
1991	30.00	0.04	0.02	0.01	0.02	0.09	16.19	0.06	0.05	0.09	27.26	24.80	0.14	0.13	0.10	0.10	0.17	0.02				
1990	28.76	0.06	0.01	0.01	0.03	0.05	0.55	14.77	0.02	0.04	0.13	24.59	29.67	0.13	0.11	0.11	0.15	0.12	0.03			
1989	41.32	0.04	0.08	0.05	0.03	0.04	0.07	0.66	1.31	0.02	0.05	0.39	28.94	26.14	0.11	0.10	0.15	0.10	0.14	0.01		
1988	43.15	0.08	0.09	0.07	0.04	0.05	0.04	0.06	0.04	0.04	0.03	0.12	0.33	28.65	26.26	0.11	0.15	0.09	0.18	0.11	0.03	
1987	37.14	5.64	0.06	0.06	0.05	0.05	0.06	0.05	0.04	0.02	0.03	0.05	0.06	0.32	30.40	24.72	0.14	0.11	0.13	0.15	0.09	0.02

Source: USPTO Trademark Database, OECD calculations. (STI WORKING PAPER 2009/6)

Indicators

- Patents and Trademarks

Trademarks abroad per capita

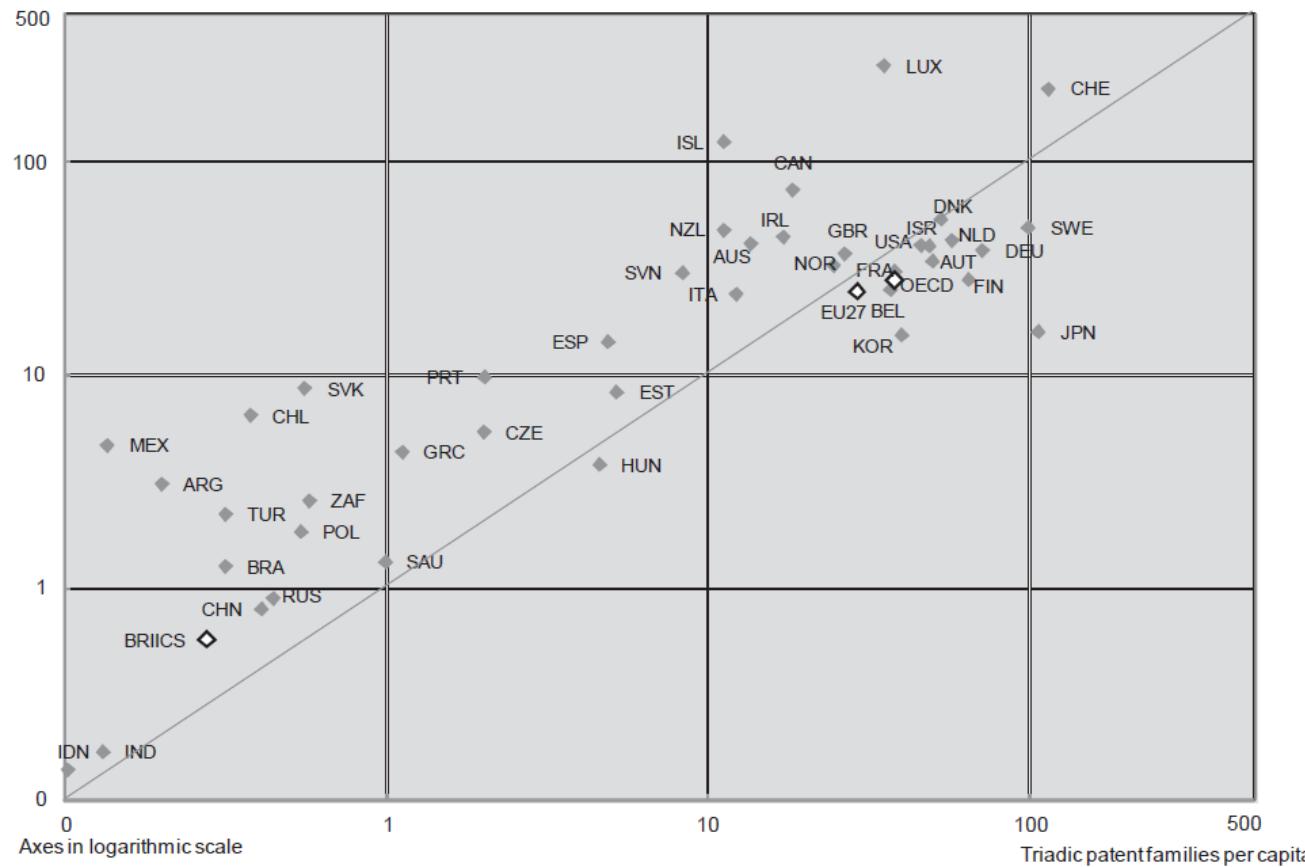
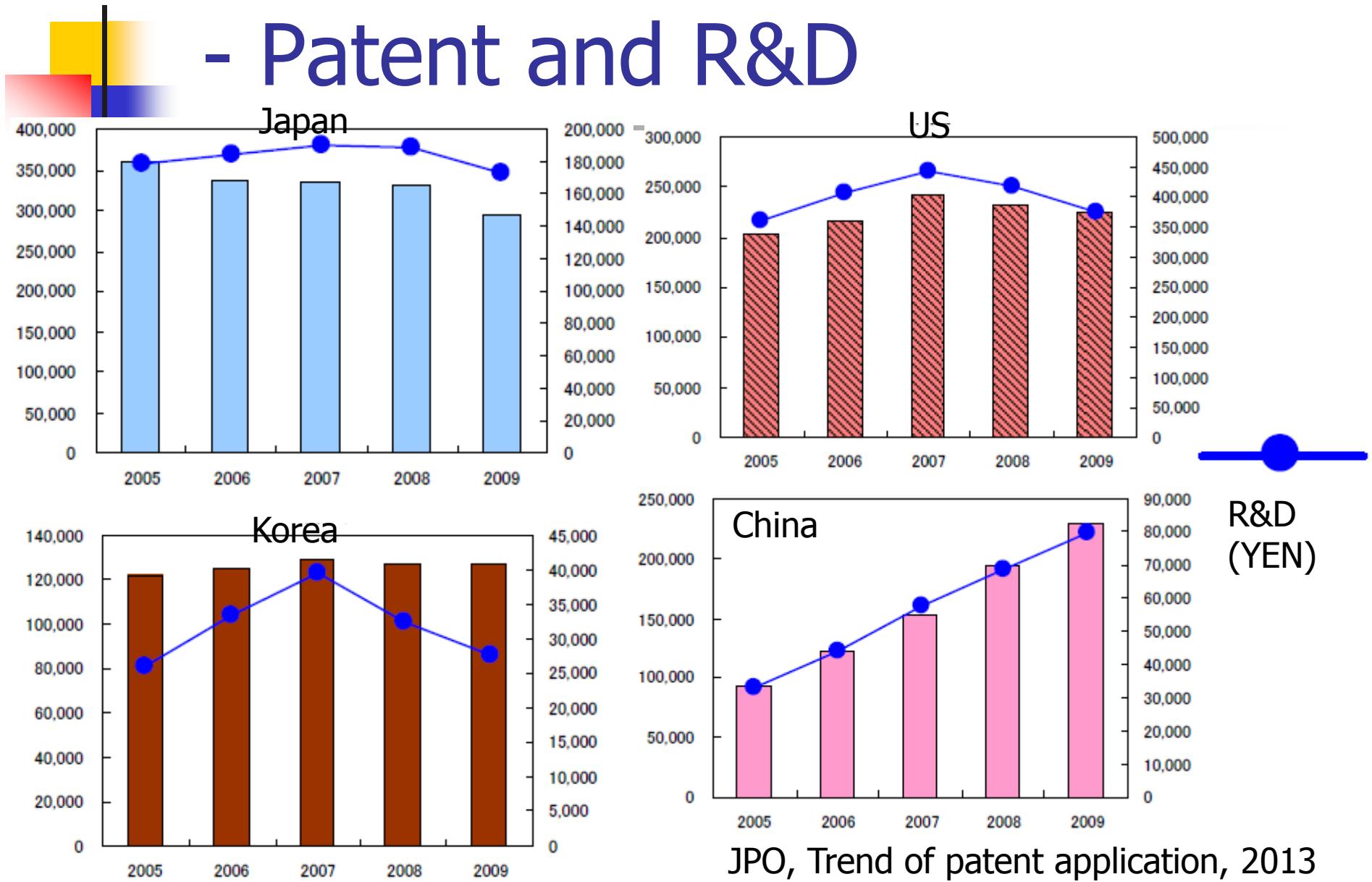
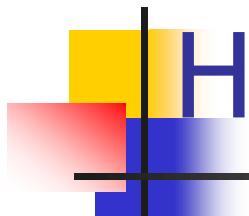


Fig4. Patents and Trademarks per capita, 2007-2009 (Source: OECD, STI Scoreboard 2011)

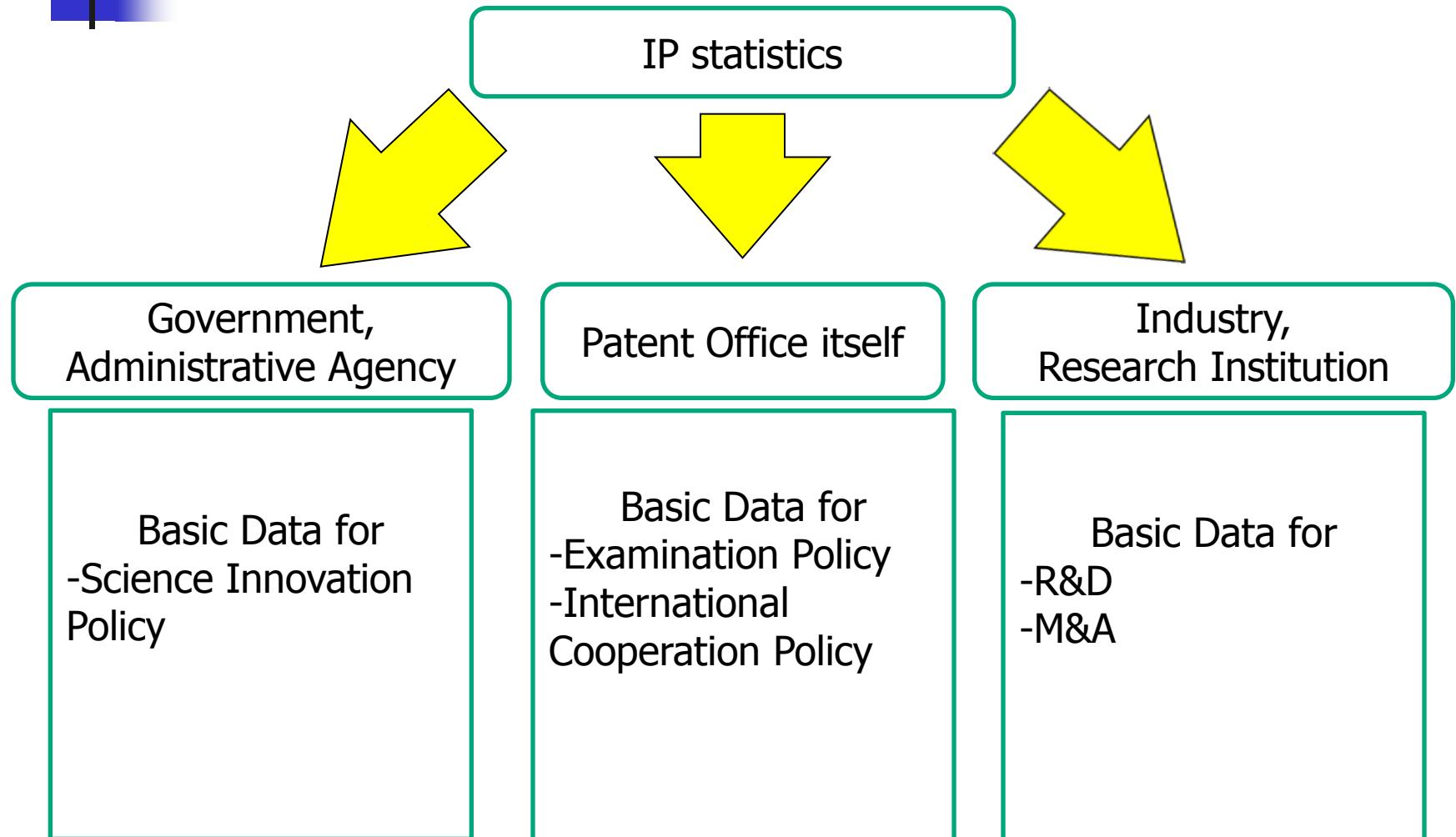
Indicators

- Patent and R&D



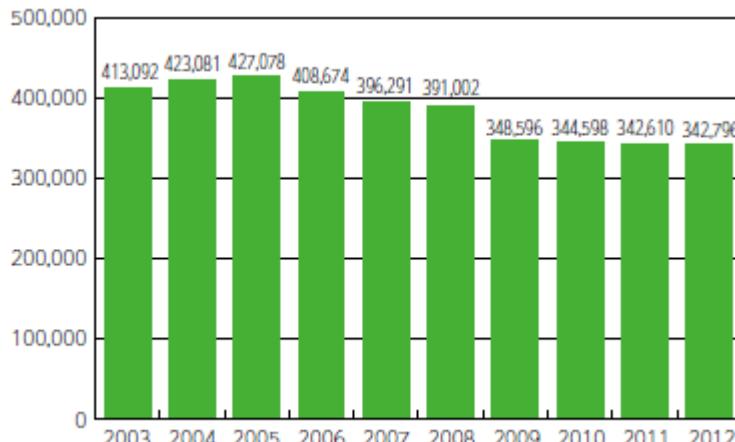


How to use IP indicators

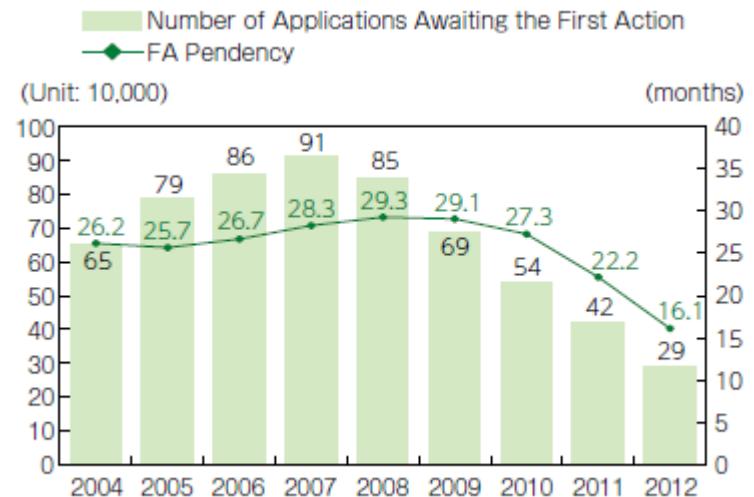


How to use indicators

Number of Patent Applications

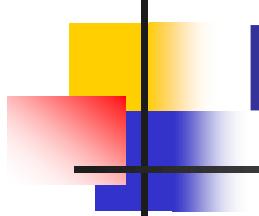


Number of Applications awaiting the First Action and First Action Pendency



JPO's goal is that JPO has to decrease the FA pendency less than 12 months.
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- JPO re-distributes human capital
- JPO hired fixed-term examiners
- JPO increases the outsourcing of prior art searches

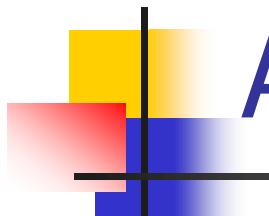


How to use IP indicators

Annual Conference

<Patent Statistics For Decision Makers>

- 2010 Vienna
- 2011 Washington DC
- 2012 Paris
- 2013 Rio de Janeiro
- 2014 Tokyo



Availability of Data

- Where do we collect data for IP Statistics?
 - Document data
 - e.g.) IPDL (JPO), Espacenet (EPO), etc
 - Raw data
 - e.g.) Standardized Data : JPO
DocdB, PATSTAT : EPO
Harmonized Name Data, etc : OECD

Data Availability



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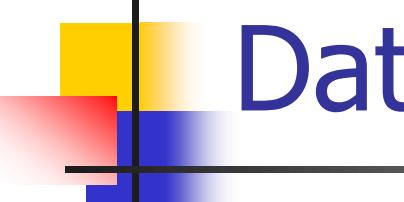
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Kind

(71) Applicant

ex) samsung

(72) Inventor

ex) kiminho

(11) Publication(Reg.) No.

ex) 1020000001010, (100143812)

(43) Publication Date

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(21) Application No.

ex) 1019980023646

(22) Application Date

ex) 20040301~20040323

(51) IPC

ex) B60R13/10

(30) Priority No.

ex) US96628428

(54) Title

ex) (car+vehicle)*engin?

(57) Abstract

ex) LCD*monitor

Combination Search

ex) (Applicant **AND** Inventor) = AP * IV
ex) (Applicant **OR** IPC) = AP + IP

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Product 14.24

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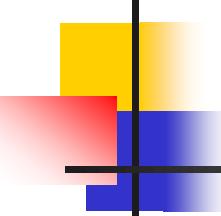
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- OECD [Triadic Patent Families Database](#), July 2011: set of patents filed for at the EPO, the Japan Patent Office (JPO) and granted by the USPTO that share one or more priority applications.
- OECD [REGPAT Database](#), July 2011: patent applications to the EPO and PCT filings linked to more than 5 500 regions using the inventors/applicants addresses (covering regions from selected countries outside the OECD area).
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Also available: the OECD HAN database

The [OECD "Harmonised Applicants' Names" database](#) provides a dictionary of applicants' names which have been elaborated with business register data, so that it can easily be matched by all users. The data is based on applicant's for patents filed to the EPO and through PCT. The dataset is complementary to Eurostat's method for harmonising applicants names.

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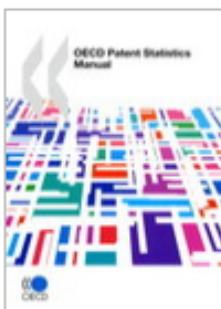
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This 2009 edition of the *OECD Patent Statistics Manual* takes stock of the recent developments in the field. It provides guiding principles for the use of patent data in the context of S&T measurement, and recommendations for the compilation and interpretation of patent indicators in this context. It aims to show what patent statistics can and cannot be used for, and how to count patents in order to maximise information on S&T activities while minimising statistical noise and biases. Finally, it describes how patent data can be used in the analysis of a wide array of topics related to technical change and patenting activity including industry-science linkages, patenting strategies by companies, internationalisation of research, and indicators on the value of patents.

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