What the user community needs

Towards effective collaboration between East and West

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Agenda

- The Patent Documentation Group - Who we are
- How the industrial user community works
- What are the main challenges in accessing patent information?
- Questionnaire 2009
  - Achievements
  - PDG Workshop - What has improved?
- Questionnaire 2016
  - Improvements and plans
  - Challenges
- The requirement for “global” registers
- Conclusion
What the PDG is ....

.....non-profit organization of research-driven, blue-chip companies with major European R&D sites
What the PDG is..

39 companies are members of the Patent Documentation Group

ABB
Agfa Graphics
AkzoNobel
Allnex
ASML
AstraZeneca
BASF
Bayer
Beiersdorf
BMS
Boehringer Ingelheim
BP International
Clariant International
DSM
Eli Lilly
Evonik
Hoffmann-La Roche
GlaxoSmithKline
Henkel

IFPEN
Lanxess
L’Oreal
Lundbeck
Merck KGaA
MSD
Nestec
Novartis
Pfizer
Philips
Procter & Gamble
Robert Bosch
Sanofi
Shell International
SIEMENS
Solvay
Syngenta
Total Research
ThyssenKrupp
Unilever
How does PDG work as organization?

- **Cooperation** in patent information and documentation
- **Debate, discuss and stimulate** improvements and new developments in patent information products
- **Exchange knowledge and experience** in all areas relating to patent information
- **Determine and communicate proposals** to third parties involved in IP information
PDG Working Groups - The pillars

ONLINE - Exchange of knowledge and experience in the field of patent information analysis

IMPACT - on global patent information with respect to raw data quality, availability, reliability and consistency

PATENT DATABASE VENDORS – discussions on strategic issues esp. related to quality aspects

NEW: Analysis and Visualization – the next step after retrieving information
PDG IMPACT works as a Round Table - Who are our Partners?

- Latin American Offices
- EPO
- IP5 offices
- USPTO
- National offices (Europe)
- Observer Status
- PIUG, CEPIUG, JIPA etc.
- CAS, TR, Questel, STN, Providers
- WIPO
- Asian offices
The patent information work flow

1. Request
2. Search in Databases
3. Search
4. Analysis
5. Visualization
6. Evaluation
7. Patent
8. Abstract
9. Full text
10. Legal status data
Why do these needs exist?
What professional searchers in industry are doing

- Patentability searches
- State-of-the-art searches
- Opposition / invalidation searches
- Monitoring and current awareness searches
- Freedom-to-operate searches (FTO)
- Legal status and patent family searches
- Patent landscapes and patent portfolio analyses
- ... and more.

⇒ Our needs go beyond those of the patent offices.
Still true... Some general remarks

- Patents go global: Asia, Latin America, Gulf countries…

- The number of patent applications globally is still growing dramatically

- Language barriers become a determining factor in accessing patent information

Consequences:
- Streamlining and harmonization procedures are key: e.g. IP5 activities!
- Setting up priorities between patent offices, user groups and commercial providers is indispensable!

⇒ We need an intensified cooperation because we have similar needs!
What are the main challenges in accessing patent information?

- The patent world goes global: Asia - particularly China - needs to be covered by patent information systems.
- More than 50% of all patent applications published in non-Latin languages.
- Among the TOP 10 PCT applicants (2015) six are from Asia, led by a Chinese company (Huawei).
- In 2011 the SIPO (China) became the largest patent office in the world: in 2015: 1.1 Mio patent and 1.1 Mio utility model applications have been registered!
What European industry thinks – Questionnaire 2008

In 2008, we consulted PDG members on their opinions on the needs for improvement of patent information from Asia, mainly with respect to the recent emergence of Asian offices as major players.

- All PDG-companies were asked
- 28 PDG-companies responded to a detailed questionnaire
- Results were distributed internally in February 2009
What European industry thinks - Some results from 2009 consultations

- Do you see need for improvement with respect to Asian patent information?
  - Status 2009: 96%

- Availability of detailed legal status in English
  - Status 2009: 96%

- Searchable English full text (CN, KR)
  - Status 2009: 100%

- Images of documents
  - Status 2009: 68%

- Added value abstracts (by commercial providers)
  - Status 2009: 92%

- (High quality) machine translation
  - Status 2009: 96%

- Standardized applicants' names
  - Status 2009: 86%
What European industry thinks - Some results from 2009 consultations

- Do you see need for improvement with respect to Asian patent information? 96 %
- Availability of detailed legal status in English 96 %
- Searchable English full text (CN, KR) 100 %
- Images of documents 68 %
- Added value abstracts (by commercial providers) 92 %
- (High quality) machine translation 96 %
- Standardized applicants' names 86 %
General Achievements of the PDG Asian Patent Information Initiative

- Availability of machine translations in English has improved dramatically:
  - Asian offices
  - EPO - Google
  - Commercial providers

- Searchable full text in English is available

- Value added abstracts are offered

- Legal status data via the central source INPADOC is accessible
What you think – Questionnaire 2016
Most impressive improvements for users I

- Improved machine translation (Asian offices, EPO etc.)
- More legal status available (e.g. in INPADOC: CN, JP, KR)
- International cooperation in IP5: Global Dossier
- Start of involvement into CPC by some countries

=> Generally: the frank and open approach to discuss with user community
What you think – Questionnaire 2016
Most impressive improvements for users II

- CN: fee payment
- IN: first legal status test data in EPO’s INPADOC
- JP: JPlatPat and machine readable full-text
- KR: similarity search
- Arabian countries: Developments regarding ARABPAT
What you think – Questionnaire 2016
The improvements needed from users’ point of view

- More legal status data in English language
- Litigation information
- Standardized assignee names
- Quick availability of abstracts
- Full coverage of documents with CPC
- More citation data
- More Asian data beside CN, JP, KR (MT, register information, legal status via INPADOC IN, ASEAN countries etc.)
JAPIO Global Patent Gateway Full Text (Japio-GPG/FX)

- JAPIO provides services of a search system that stores the whole patent publication text of China, Korea, Japan, US, EP, PCT, Germany and France as well as DOCDB abstracts, and also stores translation of English and Chinese into Japanese as well as Japanese into English using a machine translation system.

- Full text of patent publications of the above major countries can be cross-searched both in Japanese and English. (However, English search for Chinese patent publications is excluded.)

- Abstracts in DOCDB can be searched as for patent publications other than that of the above major countries.
What you think – Questionnaire 2016
Plans and challenges of JAPIO

**Plans**
- In the near future, we would like to offer English search for Chinese patent publications.

**Challenges**
- Access to full text data of patent publications of Southeast Asian countries that users desire, and translation accuracy of machine translation.
What you think – Questionnaire 2016
Recent developments at KIPO/KIPI

- Providing “Sentence search system” service for KIPRIS beginner
- Korean file wrapper available via KIPRIS and KIPRIS\textsuperscript{Plus} \textit{(Decision to refuse a patent, Notification of reason for refusal)}
- The legal framework for careful balance between the public and private sector
- Open data Profiling & Quality Management \textit{(Guidelines for Data Quality Management established in Dec. 2015)}
- Start to provide patent service with Linked Open Data technology
What you think – Questionnaire 2016
Plans and challenges of KIPO/KIPI

- **Plans**
  - Enhance open data quality management (*Establish guidelines for DQM procedures*)
  - Provide programmatic access to Korean patents via new REST APIs
  - Interlink KIPO LOD with other organizations’ LOD

- **Challenges**
  - Infringement of the personal information and copyright associated with open data
  - Public-Private fair competition and partnership: How to make them work?
What you think – Questionnaire 2016
Recent developments at the Egypt Patent Office

- **Developments**
  - PPH with Japan patent office
  - Cooperation with China patent office: discussion about PPH
  - Cooperation with GCC, Saudi Arabia patent office, Oman, Bahrain, Kuwait

- **Plans**
  - We want to open cooperation with Asian patent offices

- **Challenges**
  - Number of filed applications at Asian patent offices
What you think – Questionnaire 2016
Recent developments at KACST

- Working on data cleansing project to make sure that our collection is complete, accurate, updated, and useful.

- Working on converting our entire collection into ST. 36 XML.

- Targeting business information by providing pharmaceutical information service and other business services such as portfolio analysis.

- Extracting patent technical terms from our patent collection to build a terminology database.
What you think – Questionnaire 2016
Plans and challenges of KACST

■ Plans
  ■ Publishing our patent collection in full text.
  ■ Developing state of the art search engine.
  ■ Developing an external patent register
  ■ Developing an external statistical system.
  ■ Continue developing our e-filing system, publication server, and internal patent register and KPI index.
  ■ Developing an Arabic-English patent terminology database for examination and patent information purpose.

■ Challenges
  ■ Knowledge of best practice related to publication of patent information
  ■ Lack of validation tools to ensure accuracy of data collection.
What you think – Questionnaire 2016
Recent developments at Tunisian Patent Office

- Developments

  - ARABPAT project

  - Adhesion to PATENTSCOPE database
What you think – Questionnaire 2016
Recent developments and plans at Thomson Reuters

- Developments
  - Standard codes for Chinese applicant names (> 500 inventions)
  - Addition of translations for Chinese applicant addresses/postal codes
  - Faster processing for Japanese granted data in line with law change

- Plans
  - Content enhancement – full text translations to include the descriptions
  - Continuing improvement of standard codes for Chinese applicant names
  - Consolidation of Translation workflow
  - Full integration of new format Indian data in products
What you think – Questionnaire 2016
Challenges for Thomson Reuters

- Achieving consistency in the translation of Chinese company and inventor names
- Identifying related patent applications and utility models filed through the Chinese dual filing system
- Sourcing full text data from certain countries: Indonesia, Malaysia, India
What you think – Questionnaire 2016
Challenges for PatentSight

- Availability of citation raw data
- Availability of legal status data
- Full-text data at affordable prices
- Applicant names (original spellings and transcriptions)
Summary

- The user community greatly appreciates the offer of the Asian offices and user organizations to cooperate.

- Comment this year: “Development over the last 5-10 years highly appreciated. East meets West is a key factor in enabling exchange and facilitating that development.”

- We from PDG are convinced that meetings like this workshop have improved the cooperation between the user community and the Asian and Arabian Patent Offices.

- *From my point of view* we have to go on to improve quality, reliability, timeliness and consistency of patent information for mutual benefit!
Thank you for your contributions!