



Technology and Innovation Support Centers

Global Developments

Andrew Czajkowski

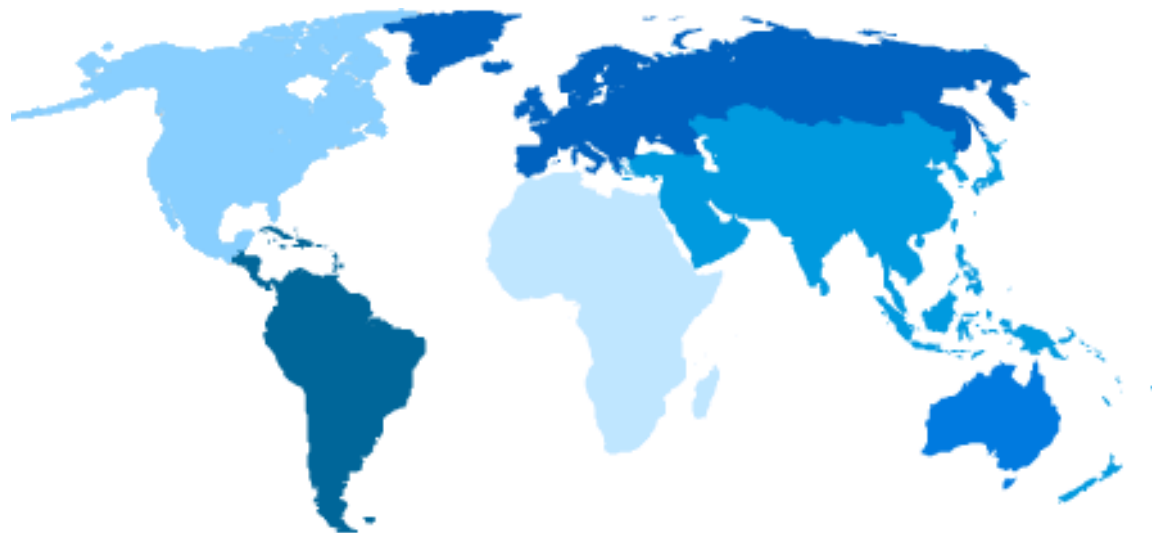
Head, Innovation and Technology Support Section

**Singapore
December 2, 2015**

Overview

- TISC Results' Review
- WIPO Support
 - Capacity Building
 - Networking
 - Resources
- New Support Services
 - Patent landscape report drafting and analytics support
 - WIPO-WEF Inventor Assistance Program

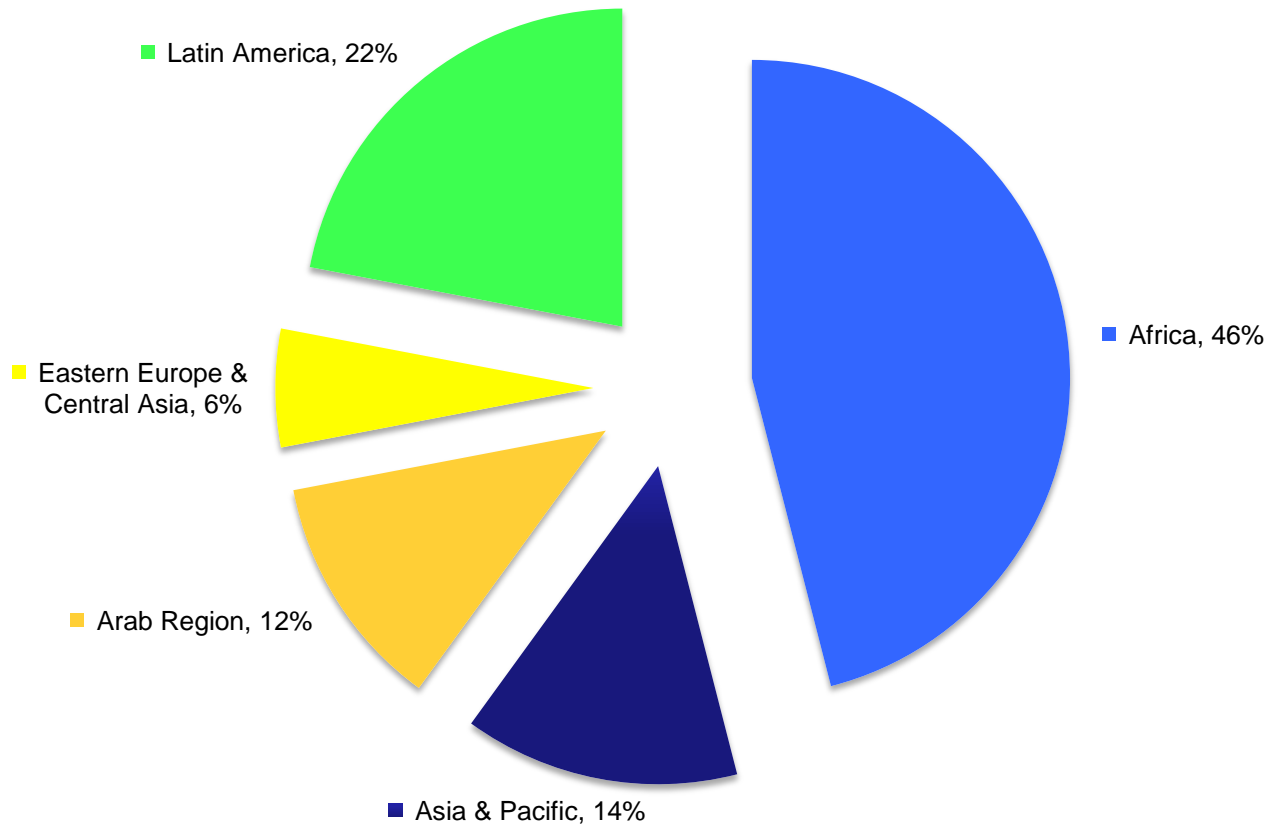
Results



- 50 national projects launched
- Over 350 centers opened worldwide
- Over 250'000 inquiries supported annually

Data current as of November 2015

Regional TISC network distribution



TISC Services



- Core services
 - Access to patent and non-patent databases
 - Assistance in using databases
- Additional services (based on user need and office capacity)
 - Technology search services
 - Patent analytical services
 - Awareness-raising and training services

Photo source: Office Marocain de la Propriété Industrielle et Commerciale

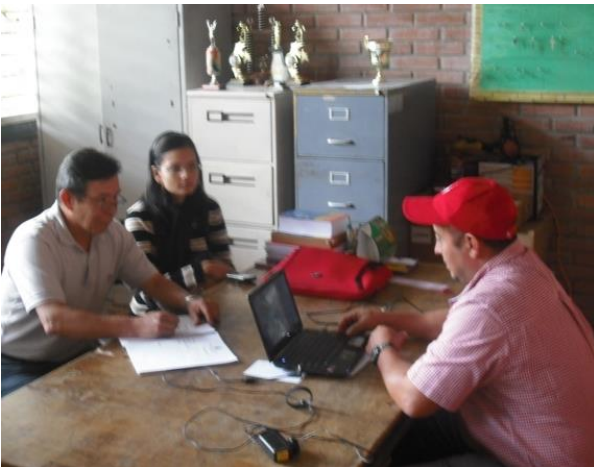
WIPO Support



■ Capacity building

■ Networking

■ Resources



Capacity building

- On-site training – including training of trainers
- WIPO Academy Distance learning courses (DLCs)
- Webinars

→ Since 2009: Over 6000 participants trained on-site

→ Since 2011: Over 3000 participants registered through national TISCs for WIPO Academy DLCs

Distance learning

- DL-101: General course on intellectual property
- DL-301: Patents
- DL-318: Patent information search
- ...and many others

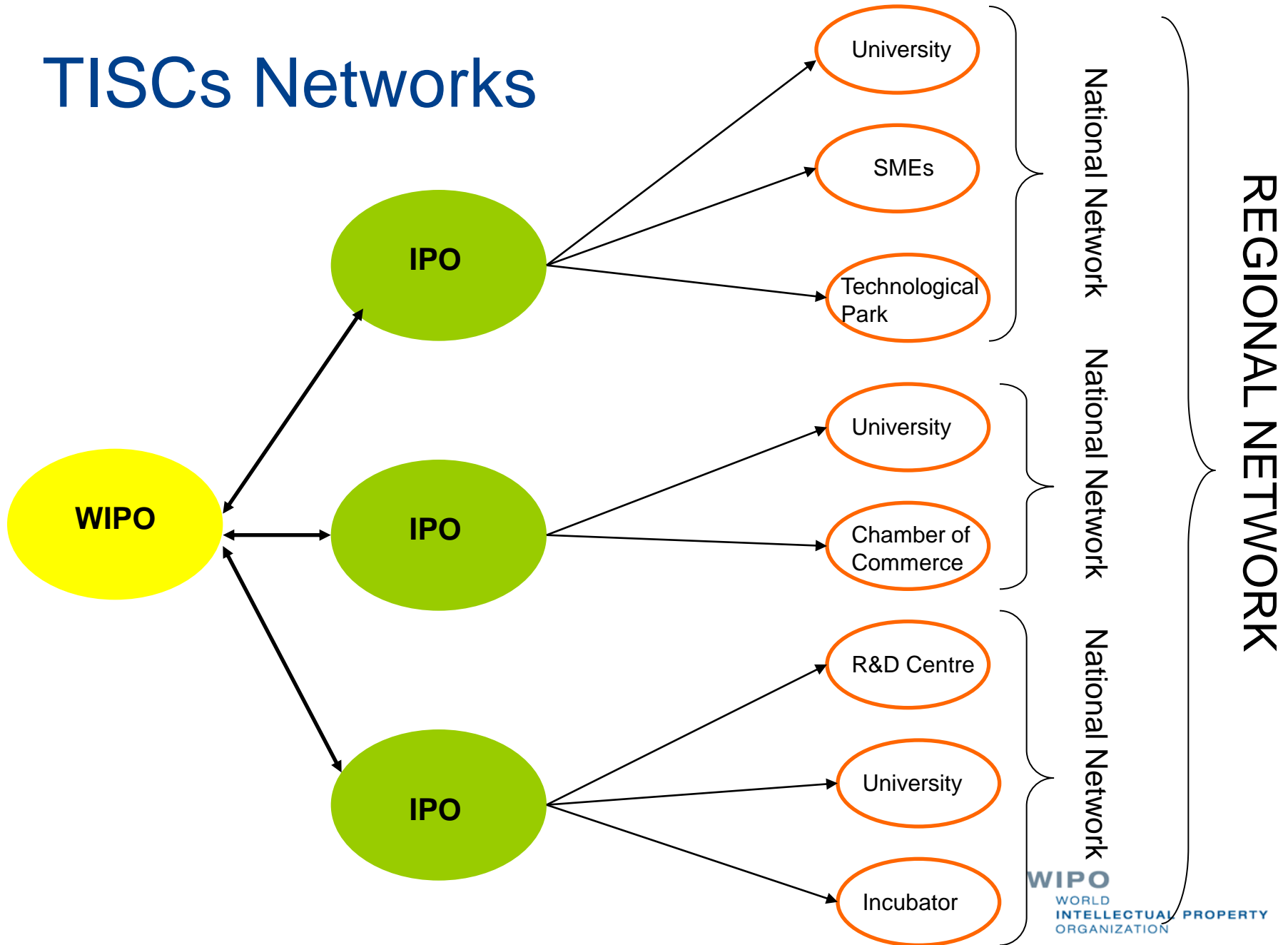
Webinars

- Fundamentals of Using Patent Databases
- Patent Classification: Structure and Use
- Patent Classification: Advantages
- WIPO Standards
- Research4Life and ARDI Programs
- Business Use of Patent Information
- eTISC Platform Functionalities

Networking

- National cooperation
- Regional cooperation
- TISC Directory
- eTISC Knowledge Sharing Platform

TISCs Networks



Areas for regional cooperation

- Linking emerging and established TISC networks to share experiences and best practices
 - Services (e.g. shadow searches)
 - Study visits
 - On-the-job training
 - Mentorship

Regional Networking

- Regional experience-sharing conferences/workshops
 - African Regional Intellectual Property Organization (ARIPO)
 - Association of Southeast Asian Nations (ASEAN)
 - Central American and Dominican Republic (CATI-CARD)
 - Organisation Africaine de la Propriété Intellectuelle (OAPI)
 - Organization of Islamic Cooperation (OIC)
 - Organisation internationale de la Francophonie

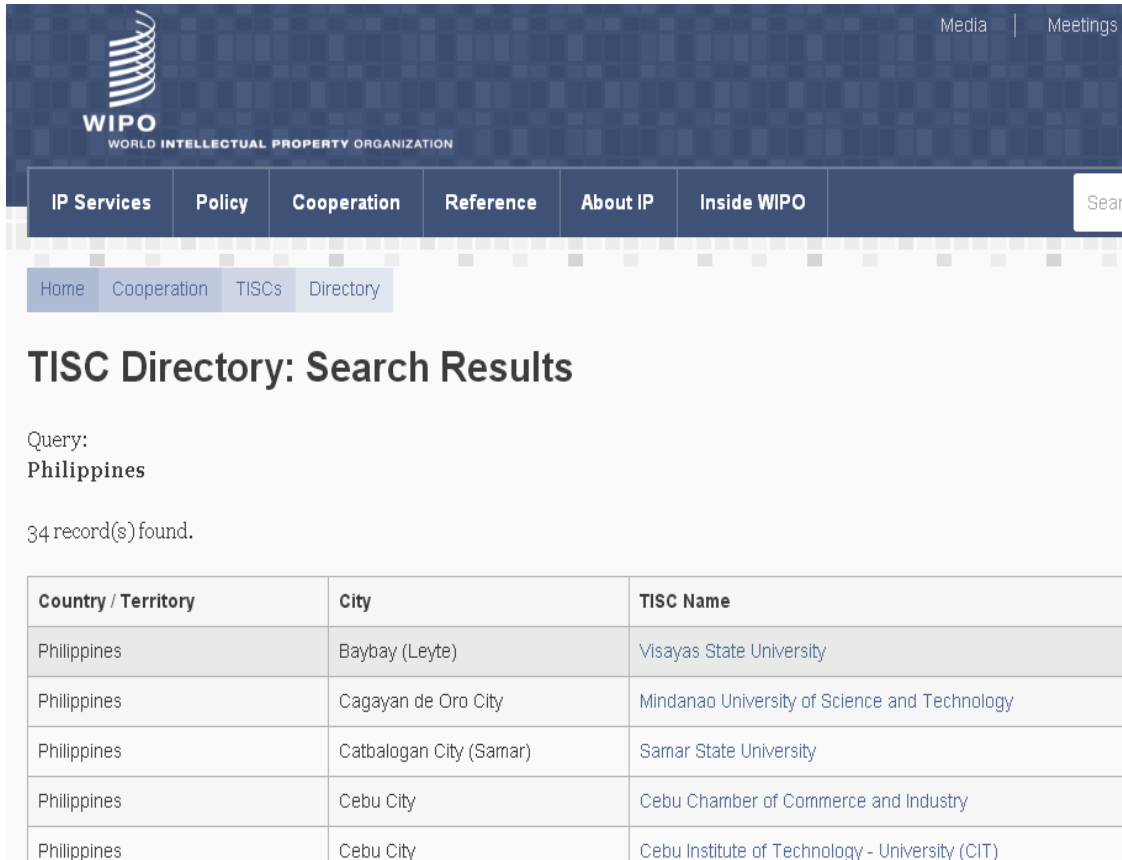
Regional Networking Activities 2015

- Association of Southeast Asian Nations (ASEAN)
 - WIPO-ASEAN Regional TISC Conference – Kuala Lumpur, December 2014
 - National Training – Cambodia, July 2015
(with speaker from the Philippines)
 - National Training – Brunei Darussalam, August 2015
(with speaker from the Philippines)
 - Study Visit to ITSOs – Manila, October 2015
 - Study Visit to Patent Information Fair and Japanese companies – Tokyo, November 2015

Regional Activities 2016

- WIPO-ASEAN Regional TISC Conference – Singapore, December 2015
- Reinforcement of specific national TISC networks
- Reinforcement of regional activities
 - Starting as soon as possible early 2016

TISC Directory



The screenshot shows the WIPO TISC Directory search results for the Philippines. The page header includes the WIPO logo and navigation links for IP Services, Policy, Cooperation, Reference, About IP, and Inside WIPO. The search query is 'Philippines' and 34 records were found. A table lists the following TISCs:

Country / Territory	City	TISC Name
Philippines	Baybay (Leyte)	Visayas State University
Philippines	Cagayan de Oro City	Mindanao University of Science and Technology
Philippines	Catbalogan City (Samar)	Samar State University
Philippines	Cebu City	Cebu Chamber of Commerce and Industry
Philippines	Cebu City	Cebu Institute of Technology - University (CIT)

- Contacts
- Services
- Technology specialization
- Languages
- Searchable

eTISC Homepage - <http://etisc.wipo.org>



WORLD INTELLECTUAL PROPERTY ORGANIZATION
HOMEPAGE

Welcome to
eTISC

[Sign Up](#)

Select Language

Powered by Google Translate

Patent database systems and tools

- PATENTSCOPE
- National and regional patent database systems
- National and regional patent registers (legal status)
- International Patent Classification (IPC) Official Publication

Publications

- TISC implementation
- Patent search



Events

- August 1 Training Kit on "Intellectual Property"
Saturday August 1, 2015 at 10pm to July 31, 2016 at 10pm – Bangladesh
 0 Comments 2 Likes

eTISC

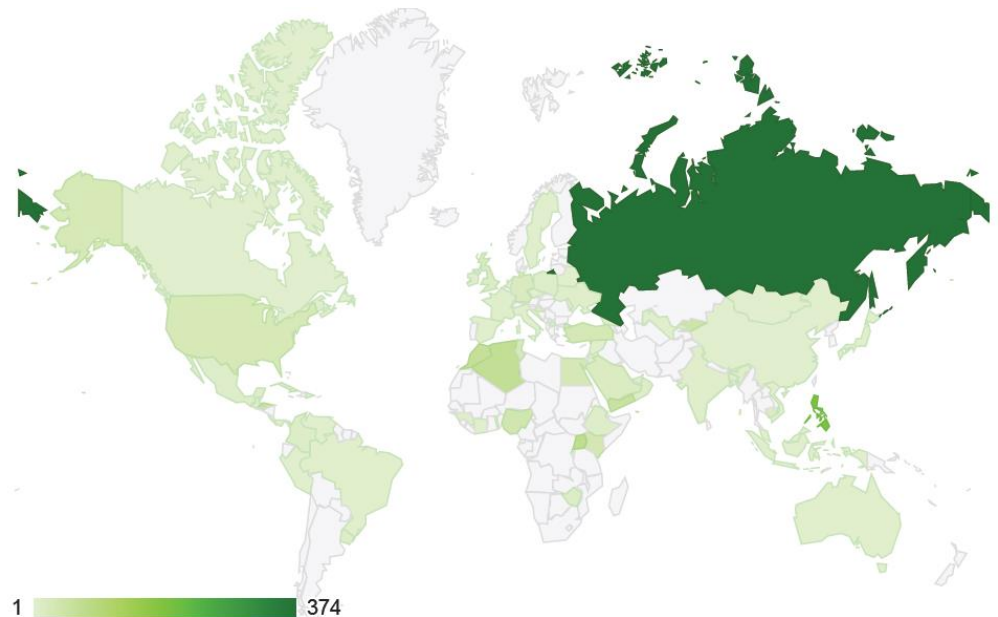
- Directory
- Forums and groups
- News
- Events
- Webinars
- Special features (“Ask the Expert”, articles)

Main Figures (as of November 2015)

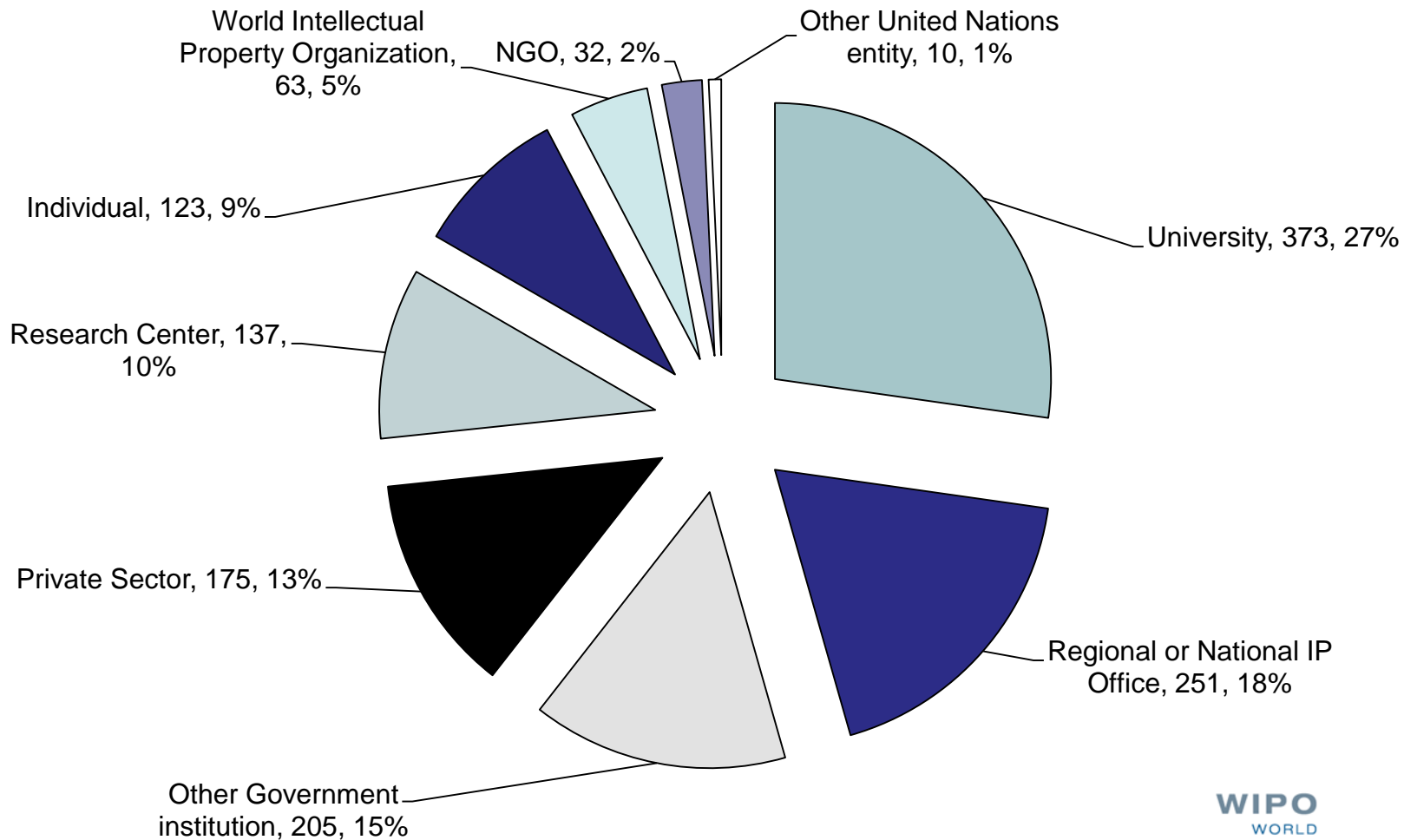


~1470 users

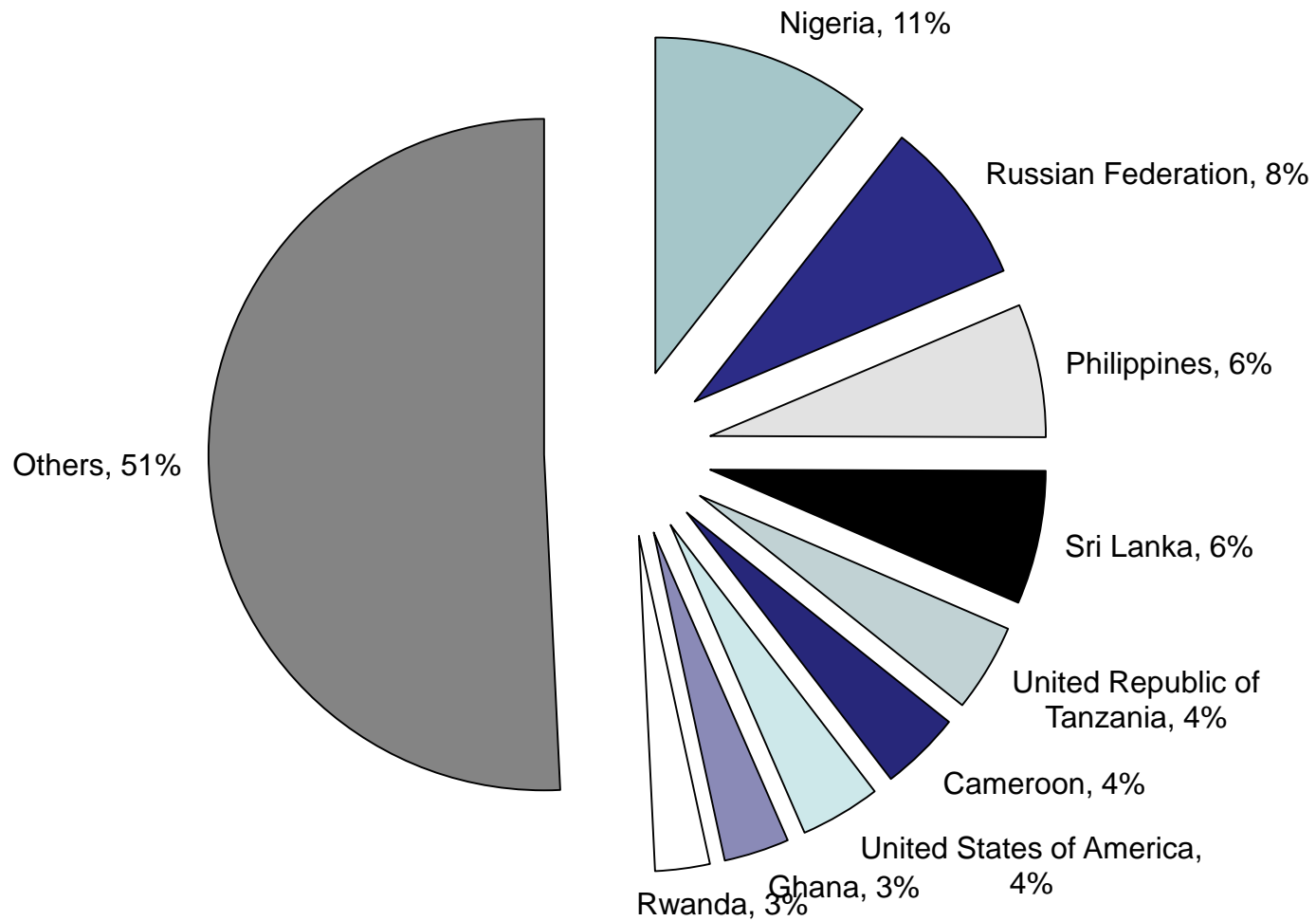
>90 countries



eTISC: Institution type



eTISC: Country



eTISC: Translation

The screenshot shows the WIPO eTISC website interface. At the top, the WIPO logo and 'eTISC' are displayed. Below is a navigation bar with links: HOMEPAGE, MY PAGE, MEMBERS, GROUPS, FORUM, NEWS, EVENTS, WEBINARS, ASK THE EXPERT, CONTACT, and MANAGE. The main content area features a user profile for Alex Riechel, with options for Sign Out, Inbox (1 new), Friends - Invite, and Settings. A sidebar on the left shows 'Awaiting Approval' with 2 Events and 5 New Members. A red box highlights a 'Select Language' dropdown menu with the text 'Powered by Google Translate' below it. The main content area displays a blog post titled 'Training mixed audiences' by Alex Riechel, dated June 25, 2015. The post discusses the challenge of presenting to mixed audiences and the importance of knowing the audience. A list of patent database systems and tools is provided at the bottom of the post.

WIPO eTISC

WORLD INTELLECTUAL PROPERTY ORGANIZATION

HOMEPAGE MY PAGE MEMBERS GROUPS FORUM NEWS EVENTS WEBINARS ASK THE EXPERT CONTACT MANAGE

Alex Riechel

Sign Out
Inbox (1 new)
Friends - Invite
Settings

Awaiting Approval

2 Events
5 New Members

Select Language
Powered by Google Translate

Patent database systems and tools

- PATENTSCOPE
- National and regional patent database systems
- National and regional patent registers (legal status)

All Blog Posts My Blog Edit Blog Posts

Options + Add

Training mixed audiences
Posted by Alex Riechel on June 25, 2015 at 10:30am View Blog

Trainers often find themselves presenting to audiences consisting of people with different educational and professional backgrounds and varying levels of expertise on the subject matter being presented and related subject matter (e.g. patent families and patent filing practices within and across countries).

Presenting to such audiences can be a challenge since participants more advanced in the subject matter being presented might become bored if they find the level at which it is presented too basic, while participants less advanced in this subject matter might feel lost if they find the level too advanced. Participants may consequently become disengaged, diminishing the effectiveness of the training session.

The most important thing that can be done to address this issue of participant disengagement is to **know your audience**. Though it may not be possible to get detailed information about each participant in advance, general information such as the institution and department to which participants belong and position they hold can be helpful. Audience reactions and questions during training sessions can provide further information about participants, though it is important to keep in mind that certain participants may not feel comfortable expressing their views openly. As a result, it is useful to stay flexible and to adapt approach and content according to newly available information.

Based on knowledge about the audience, the following actions may also help make the subject matter engaging for all participants:

eTISC: Translation



WORLD INTELLECTUAL PROPERTY ORGANIZATION

LAMAN UTAMA HALAMAN SAYA AHLI KUMPULAN FORUM BERITA PERISTIWA WEBINARS TANYA PAKAR HUBUNGI

Andrew Czajkowski

Daftar keluar

✉ Peti masuk (5 baru)

👤 Rakan - Jemput

⚙️ Tetapan

Jemputan baru

6 Jemputan Kumpulan

Malay ▼

Powered by Google Translate

Sistem pangkalan data paten dan alat-alat

- PATENTSCOPE
- Sistem pangkalan data paten negara dan serantau
- Daftar paten negara dan serantau (status undang-undang)
- Paten Antarabangsa Klasifikasi (IPC)

Semua Blog Posts Blog Saya Edit Blog Posts

⚙️ Pilihan ▼

+ Tambah



Latihan penonton bercampur-campur

Dicatat oleh Alex Riechel pada 25 Jun, 2015 pada 10:30

✉ Hantar Mesej 🏠 Lihat Blog

Jurulatih sering mendapati diri mereka menyampaikan kepada penonton yang terdiri daripada orang-orang dengan latar belakang pendidikan dan profesional yang berbeza dan berbeza-beza tahap kepakaran mengenai hal perkara yang dibentangkan dan perkara yang berkaitan (misalnya keluarga paten dan amalan pemfailan paten di dalam dan di negara).

Menyampaikan kepada penonton itu boleh menjadi satu cabaran kerana peserta yang lebih maju dalam hal perkara yang dibentangkan mungkin menjadi bosan jika mereka mendapati tahap di mana ia dikemukakan terlalu asas, manakala peserta kurang maju dalam perkara ini mungkin berasa hilang jika mereka mendapati tahap terlalu maju. Peserta seterusnya boleh menjadi yg dilepaskan, mengurangkan keberkesanan sesi latihan.

Perkara yang paling penting yang boleh dilakukan untuk menangani isu ini peserta pengunduran adalah untuk **tahu penonton** anda. Walaupun ia mungkin tidak mungkin untuk mendapatkan maklumat terperinci tentang setiap peserta terlebih dahulu, maklumat umum pengunjung seperti institusi dan jabatan yang mana peserta milik dan kedudukan yang mereka pegang boleh membantu. Reaksi penonton dan soalan semasa sesi latihan boleh memberi maklumat lanjut mengenai peserta, walaupun ia adalah penting untuk ingat bahawa peserta tertentu mungkin tidak berasa selesa menyatakan pandangan mereka secara terbuka. Oleh itu, ia adalah berguna untuk kekal fleksibel dan menyesuaikan diri pendekatan dan kandungan mengikut maklumat yang baru disediakan.

Resources



Home Cooperation TISCs

Technology and Innovation Support Centers

The WIPO Technology and Innovation Support Center (TISC) program provides innovators in developing countries with access to locally based, high quality technology information and related services, helping them to exploit their innovative potential and to create, protect, and manage their intellectual property (IP) rights.

Services offered by TISCs may include:

- Access to online patent and non-patent (scientific and technical) resources and IP-related publications;
- Assistance in searching and retrieving technology information;
- Training in database search;
- On-demand searches (novelty, state-of-the-art and infringement);
- Monitoring technology and competitors;
- Basic information on industrial property laws, management and strategy, and technology commercialization and marketing.



Technology and Innovation Support Center in the Philippines (photo: IPOPHIL)

■ TISC website <http://www.wipo.int/tisc>

Publications

- TISC Implementation Guide
- TISC brochure
- TISC posters
- Finding Technology Using Patents
- WIPO Guide to Patent Information
- Guide to Technology Databases
- ARDI and ASPI brochures
- PATENTSCOPE Search and CLIR
- PATENTSCOPE Search: The User's Guide

ASPI

ACCESS TO SPECIALIZED PATENT INFORMATION

- Partnership with 6 patent database service providers
 - LexisNexis → TotalPatent
 - Minesoft → PatBase
 - Questel → Orbit
 - Thomson Reuters → Thomson Innovation
 - WIPS → WIPS Global
 - Gridlogics → PatSeer

www.wipo.int/aspi

- Free or low-cost access to scientific and technical content for 116 least developed and developing countries
- Partnership with 17 major publishers
- Over 6,000 journals
- Over 19,000 books and reference works

Research4Life: Programs

ARDI
Research for Innovation



World Intellectual Property Organization

HINARI
Research in Health



World Health Organization

AGORA
Research in Agriculture



Food and Agriculture Organization of the United Nations

OARE
Research in the Environment



United Nations Environment Programme

e-Tutorial

- Patent Basics
- Patent Search and Retrieval
- Patent Analysis

- Tutorials
- Scenarios

- Available in
EN, FR and ES



What is a Patent Landscape Report (PLR)?

- Transformation of raw patent data through patent search into comprehensive patent analysis including a breakdown of the results, visualization & conclusions



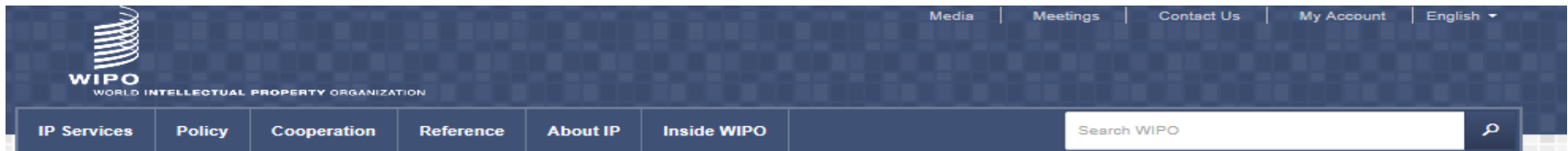
WIPO's PLR Program

- Objective is to be able to provide, particularly for developing countries, evidence and support for policy discussions related to:
 - National policies and activities in R&D
 - Technology transfer
 - Local manufacturing
 - etc.

Focus of WIPO PLRs

- Preparation of Patent Landscape Reports in the areas of:
 - Public Health
 - Food and Agriculture
 - Environment and Climate Change
 - Disabilities

Dedicated WIPO PLR Webpages



Home | Reference | PATENTSCOPE | Patent Landscapes

Patent Landscape Reports

Patent landscape reports provide a snap-shot of the patent situation of a specific technology, either within a given country or region, or globally.

They start with a state-of-the-art search for the relevant technology in selected patent databases. The search results are then analyzed to answer specific questions about, for example, patterns of patenting activity (- who's doing what? what is filed where?) or patterns of innovation (innovation trends, diverse solutions for a technical problem, collaborations). The results are presented visually to assist understanding, as well as conclusions or recommendations based on the empirical evidence provided.

FEATURED PUBLICATION



Assistive Devices for Visually and Hearing Impaired Persons

News

Patent Landscape Report on Assistive Devices and Technologies for Visually and Hearing Impaired Persons Jun 25, 2015 | Survey on Open Source Patent Analysis Tools May 21, 2015

All news

WIPO's patent landscape reports

Under the Development Agenda project "Developing Tools for Access to Patent Information" WIPO is mandated to produce patent landscape reports in areas of particular interest to developing and least developed countries, such as public health, food security, climate change and environment.

All reports



A grid of six patent landscape report covers, each with a title and a small thumbnail image. The reports are: 1. "Ritonavir - Treating HIV/AIDS", 2. "Electronic Waste Recycling", 3. "Electronic Waste Recycling" (with a different thumbnail), 4. "Animal Genetic Resources", 5. "Water Treatment: UV and Membrane Filtration", and 6. "Membrane Filtration & UV Water Treatment".

Reports by other organizations

What are patent landscape reports used for?

Dedicated WIPO PLR Webpages

WIPO Patent Landscape Reports

WIPO has been mandated to prepare patent landscape reports in areas of particular interest to developing and least developed countries such as public health, food security, climate change and environment.

We develop the scope of each report in cooperation with external partners (e.g. member states institutions, intergovernmental or non-governmental organizations), and select authors through a tendering process.

The following patent landscape reports are currently in preparation within the framework of the Development Agenda project "Developing Tools for Access to Patent Information" (document [CDIP/4/6](#)).

Area	Topic	Status	Cooperation partner(s)
Public Health	Ritonavir	Completed	Medicines Patent Pool , UNITAID
Public Health	Ritonavir update	Ongoing	
Public Health	Atazanavir	Completed	Medicines Patent Pool , UNITAID
Public Health	Vaccines for Selected Infectious Diseases	Completed	World Health Organization - Cluster on Innovation, Information, Evidence and Research (IER)
Public Health	Selected Neglected Diseases	Ongoing	DNDi
Climate Change/Energy	Particle accelerator technologies and their industrial and medical use	Ongoing PDF	CERN
Climate Change/Energy	Electronic waste (E-Waste) recycling and material recovery technologies	Completed	UNEP , Secretariat of the Basel Convention

Compilation of PLRs prepared by other organizations

The screenshot shows the WIPO website interface. At the top, there is a navigation bar with links for 'Media', 'Meetings', 'Contact Us', and 'My Account'. Below this is a secondary navigation bar with 'IP Services', 'Policy', 'Cooperation', 'Reference', 'About IP', and 'Inside WIPO'. A search bar labeled 'Search WIPO' is positioned on the right. The main content area features a breadcrumb trail: 'Home > Reference > PATENTSCOPE > Patent Landscapes'. The primary heading is 'Patent Landscape Reports by Other Organizations', which is highlighted with a red border. Below the heading, there are links for 'Public health/life sciences', 'Climate change/energy', 'Food & agriculture', and 'Other areas of technology'. A sub-heading reads 'Larger patent landscape collections, technology bulletins & other relevant links'. A paragraph explains that the following reports are published by international organizations, national intellectual property offices, non-governmental organizations, and private sector entities. A 'Shortcuts' box contains a link to 'WIPO's patent landscape reports'. A section titled 'Public health / Life sciences' contains a table of reports.

Title	Author	Date	Language
Australian Medical Devices: A Patent Analytics Report PDF	IP Australia	2014	English
Contact Lens Patent Search and Analysis Report PDF	Patent iNSIGHT Pro	2014	English
Miniature Drug Delivery Systems Patent Search and Analysis Report PDF	Patent iNSIGHT Pro	2013	English
Nanoparticles Smart Drug Delivery System for Cancer PDF	LexInnova	2013	English
Bio-chips: The future of medicine PDF	LexInnova	2013	English

Report-specific webpages


Home About IP Patents PATENTSCOPE Patent Landscapes Patent Landscapes

Patent Landscape Report on Animal Genetic Resources

Patenting activity for animal genetic resources has received remarkably little attention so far in policy discussions. The Patent Landscape Report on Animal Genetic Resources is the output of WIPO's collaboration with the Animal Genetic Resources Branch, Animal Production and Health Division of the Food and Agriculture Organization of the United Nations (FAO).

It is the first large-scale quantitative analysis related to patenting activity involving livestock animals, including biotechnology, pharmaceuticals, immunology and gene therapy, stem cells and transgenic animals and as such, its main focus is addressing the challenges involved in identifying patent activity for animal genetic resources in general and activity relating to animal genetic resources for food and agriculture in particular.

The report is intended to contribute to the discussions of the Intergovernmental Technical Working Group on Animal Genetic Resources for Food and Agriculture and the Commission on Genetic Resources for Food and Agriculture (CGRFA). The key findings of the report will be included in the second report on the state of the World's Animal Genetic Resources for Food and Agriculture 2015. Additionally, the report will provide information on the origin of genetic resources in



Research

What was involved?

- Search on patenting activity in relation to 17 animal species and subspecies of global importance to food and agriculture, as identified by FAO. The research covered cattle, buffalo, pigs, sheep, goats, horses, donkeys, bactrian and dromedary camels, llama and alpaca species along with chickens, ducks and turkeys. The research did not include fish. These species, and the diverse breeds associated with them, are central to global agriculture and food security
- Text mining of over 14 million patent documents;
- A patent search methodology including Latin and common names of animals, patent classification searches and sequence searches
- Mapping technology clusters involving animals;
- Identifying patent documents involving animal genetic resources of relevance to food and agriculture;
- Reviewing patent documents for references to breed names and traditional knowledge.

Outcomes of the research

- Animals are important experimental models, sources of material for medical products and bioreactors for recombinant proteins.
- A quantitative indicator of trends in patent activity for animal genetic resources that can be updated and refined over time to respond to policy needs;
- Analysis of the key features and trends of the patent landscape for animal genetic resources of relevance to food and agriculture which were identified and grouped in six broad categories of technology, namely Artificial Insemination, Sex Selection and Control of Estrus, Marker Assisted Breeding, Transgenic Animals, Animal Cloning, Xenotransplantation and Animal Models;
- A detailed set of examples of important patent documents involving animal genetic resources to provide evidence to inform policy debates.

Resources

Report and related documents

Full report [PDF](#)

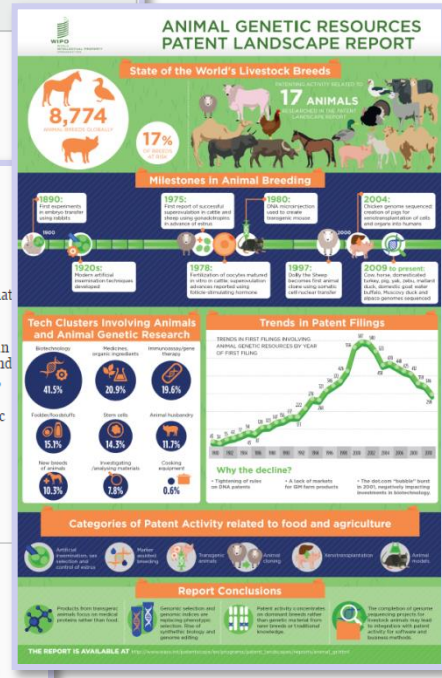
Annex 1 – Patent classification code co-occurrence analysis for animal genetic resources [PDF](#)

Annex 2 – Search terms [XLS](#)

Annex 3 – Patent classification review [XLS](#)

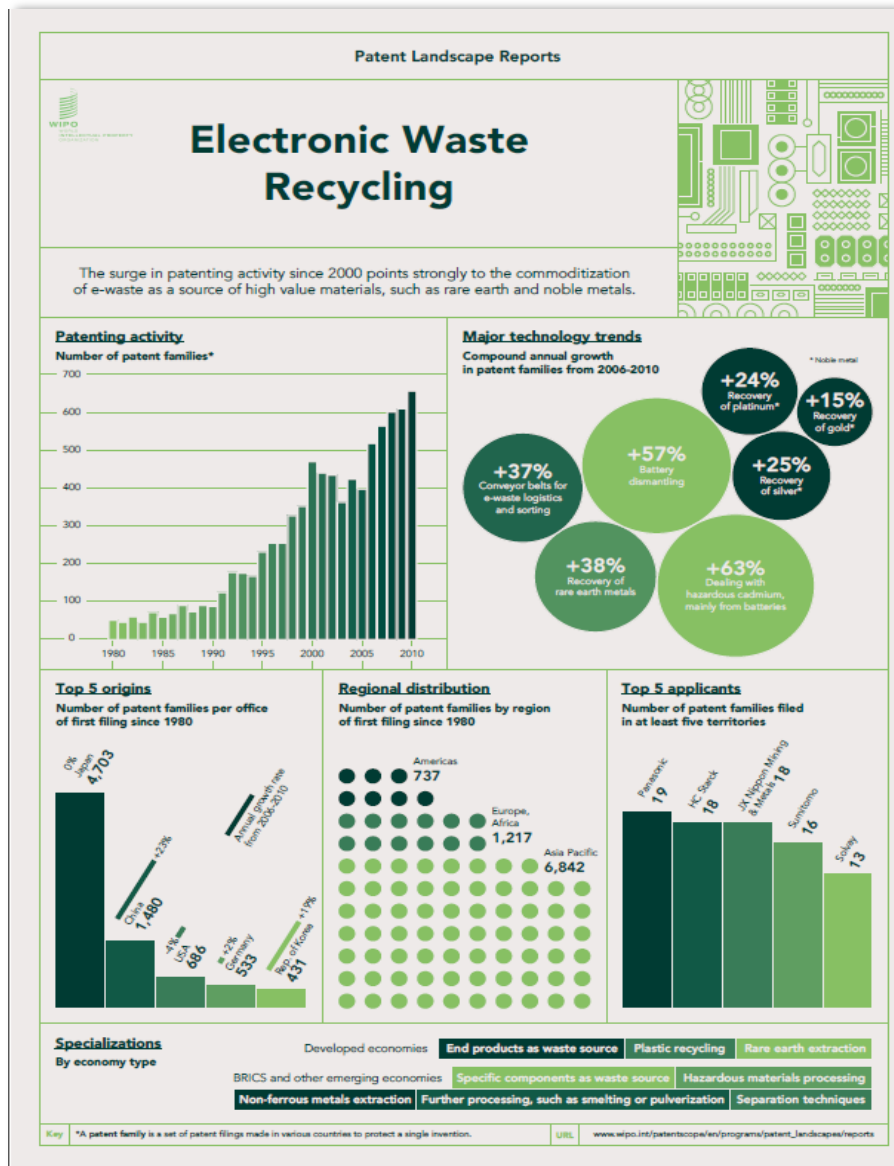
Annex 4 – Breeds review [XLS](#)

Annex 5 – Database of patent families [XLS](#)



New Patent Study: Animal Genetic Resources Increasingly Used in Medical Sector - Jan. 2015 Article

Infographics



- Effective means of disseminating and providing an overview of key findings of patent analysis

PLR drafting and analytics support

- Guidelines on Drafting Patent Landscape Reports (PLRs)
- Manual on Free and Open Source Tools used for Patent Analytics

Guidelines for Preparing Patent Landscape Reports

- Background information on patent information
- Objectives and motivations for preparing PLRs
- Associated/similar analysis types
- Tasks associated with the preparation of PLRs
- Stages in the preparation of PLRs
- Examples and experience from WIPO's work in PLRs



Manual on Open Source Tools

- Reviews various open source tools which could be used for various patent analysis tasks by users in developing countries
- Assists in overcoming challenges due to the need to have some basic programming skills
- Explores how to obtain data from various sources to use for patent analytics
- Describes how to clean, tidy, analyze, visualize and share patent data with the help of open source tools

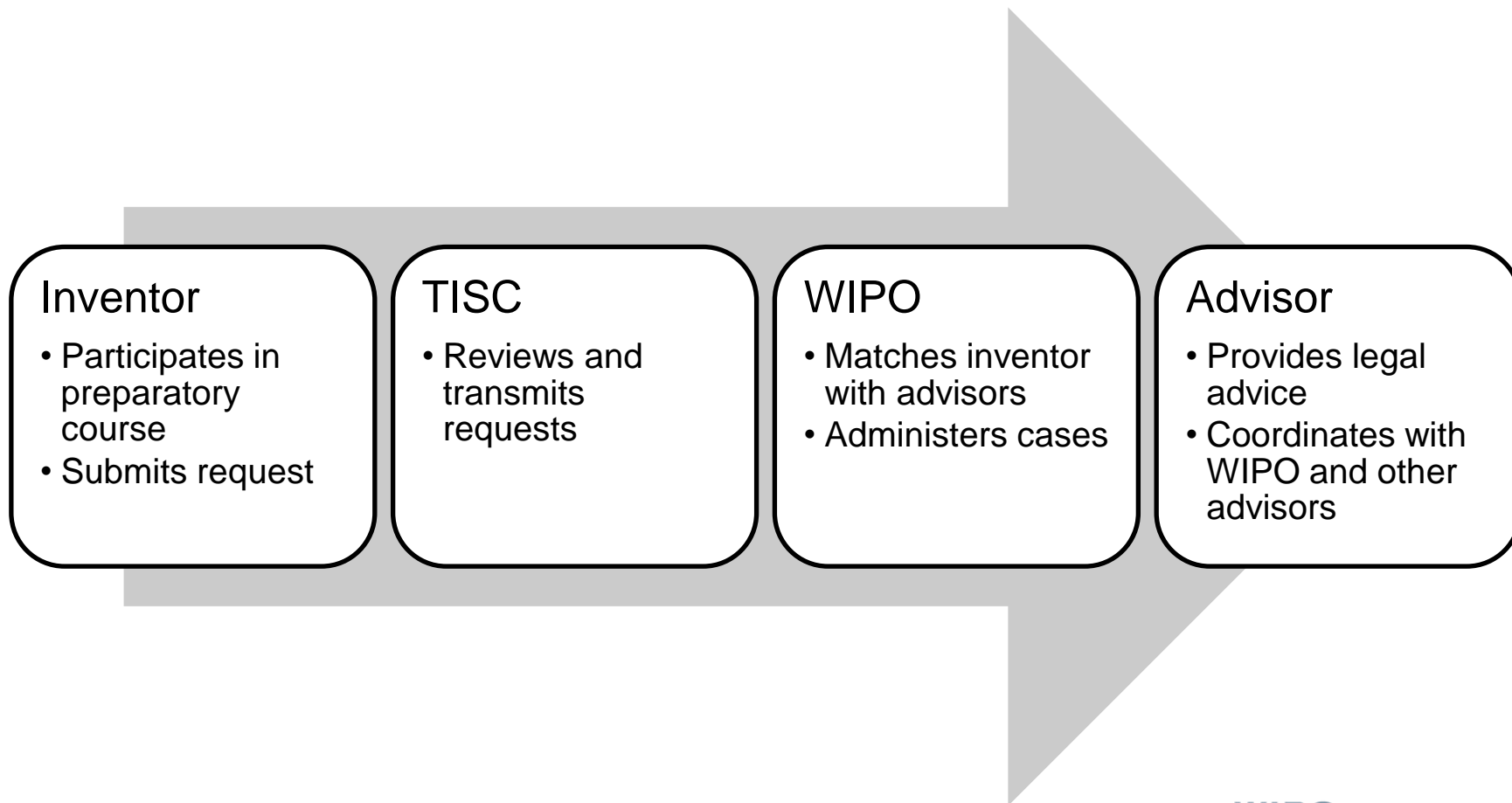
Future developments in patent analytics

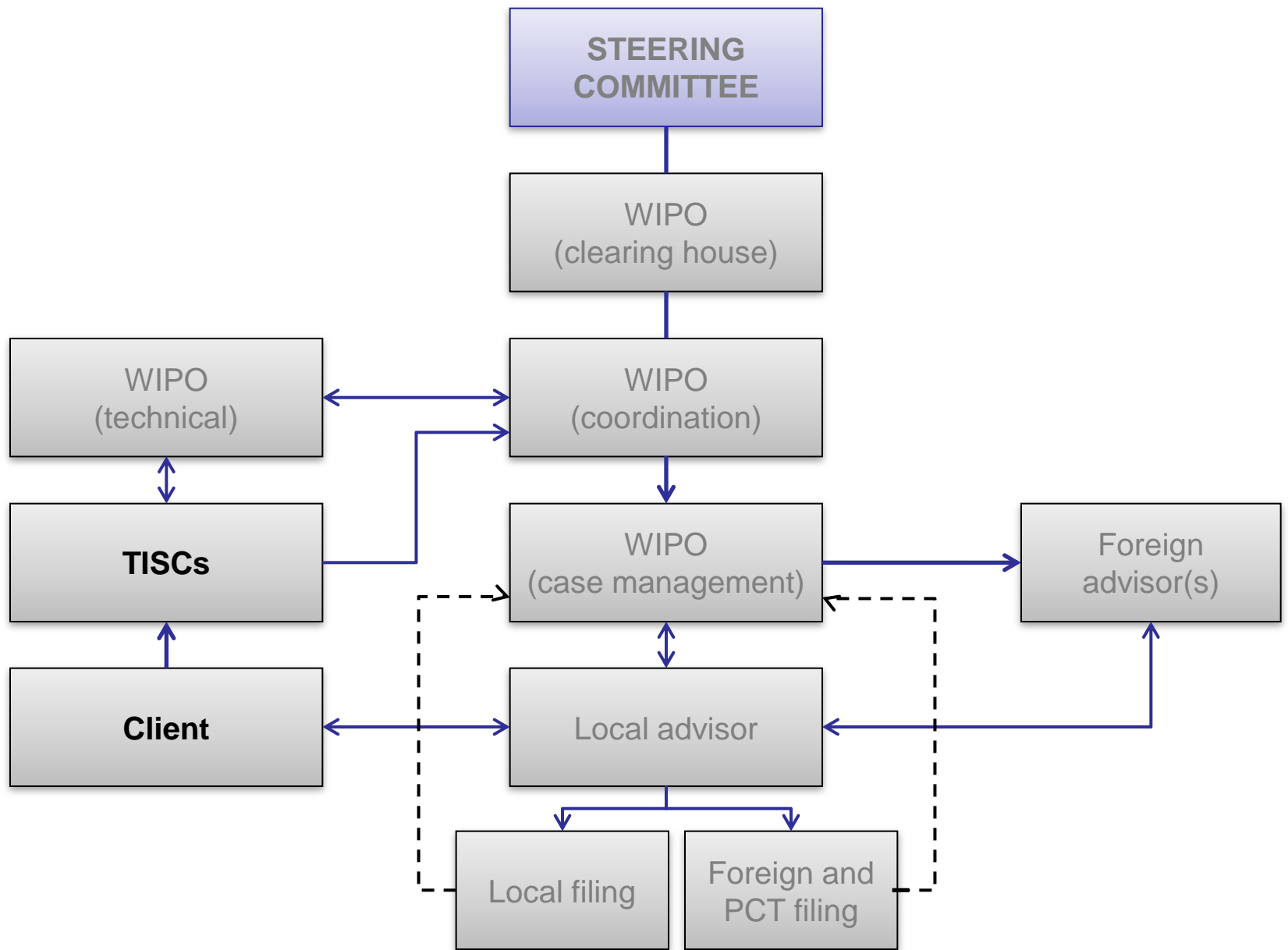
- Inclusion of training on patent analytics in the TISC capacity building program following patent search training using as a basis the Guidelines and the Manual
- Inclusion of data other than patents within analysis and methodology
- Ensuring the full commercial potential of patent landscaping services by individuals and/or TISCs can be attained

WIPO-WEF Inventor Assistance Program

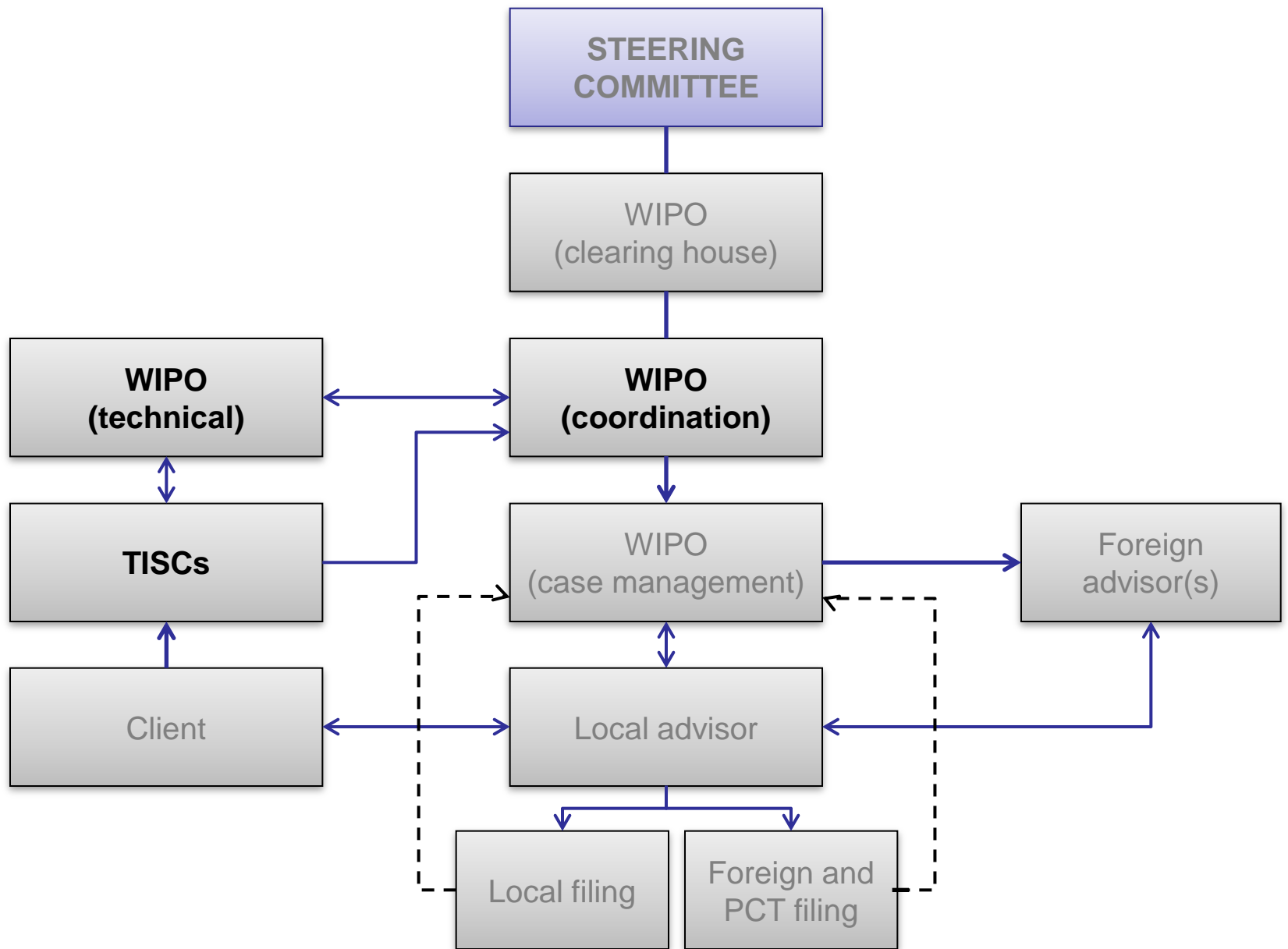
- Filing and prosecution of patent applications
- Under-resourced inventors and small enterprises

Inventor Assistance Program: Process

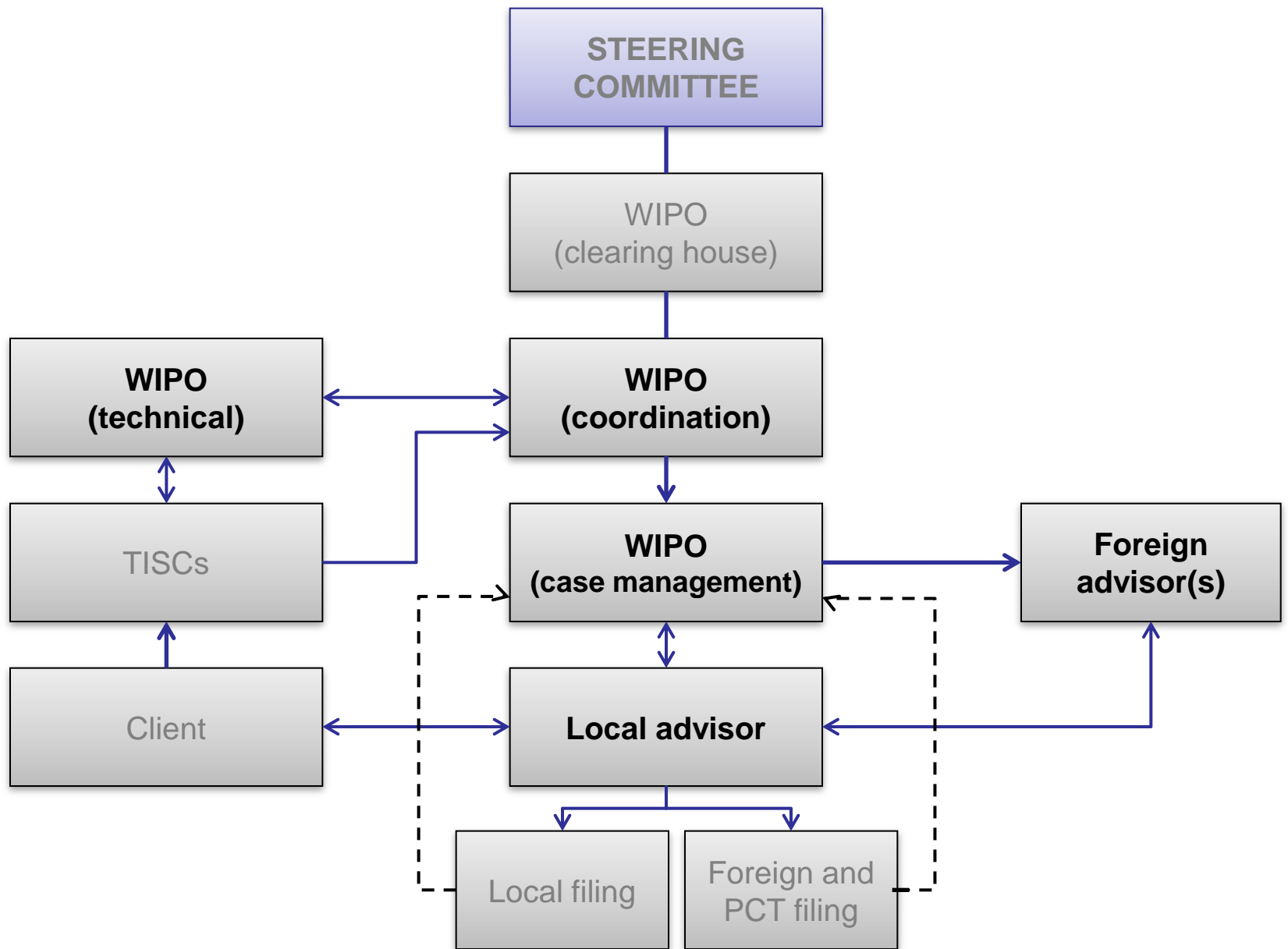




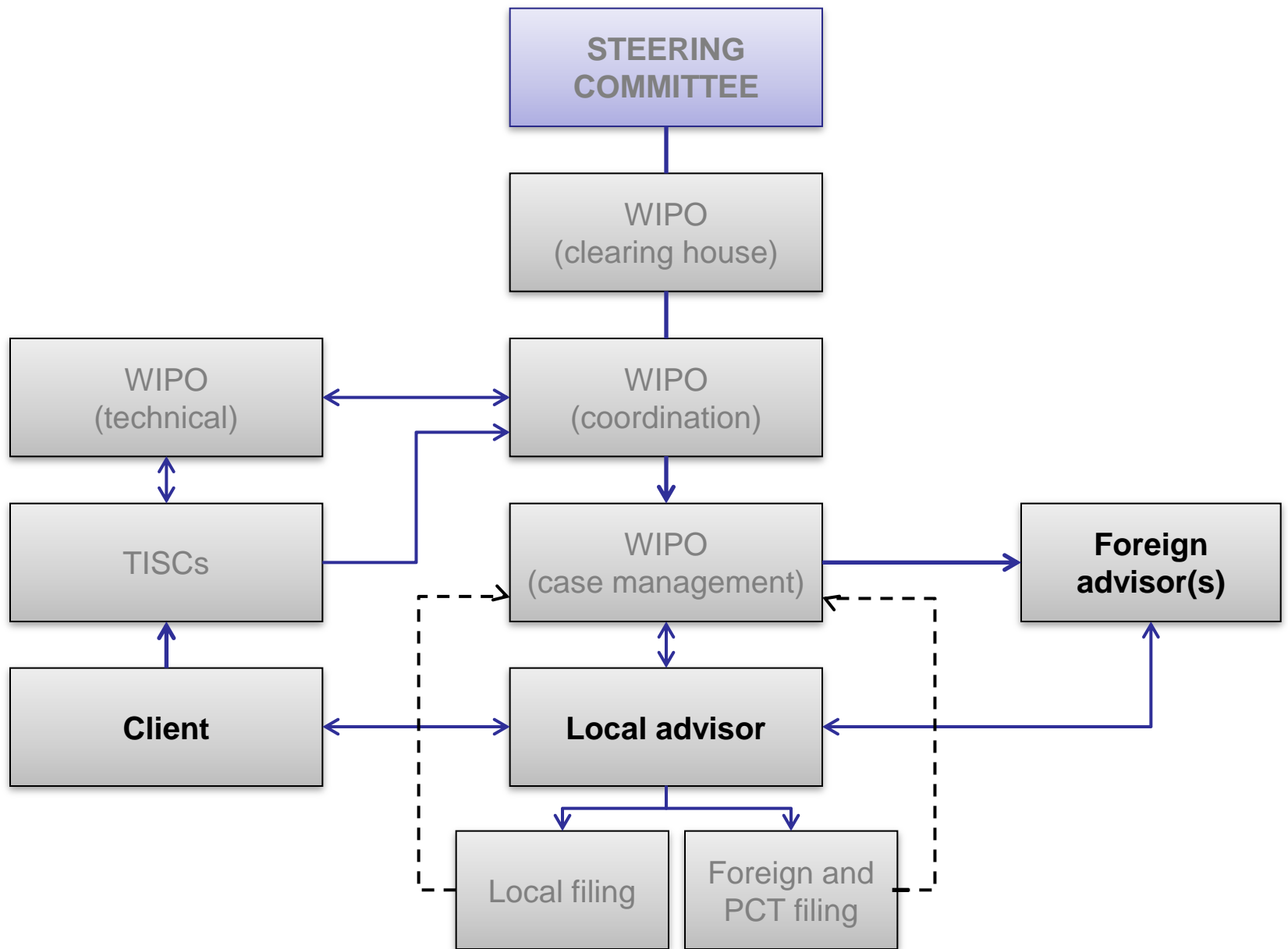
Client submits request to TISC



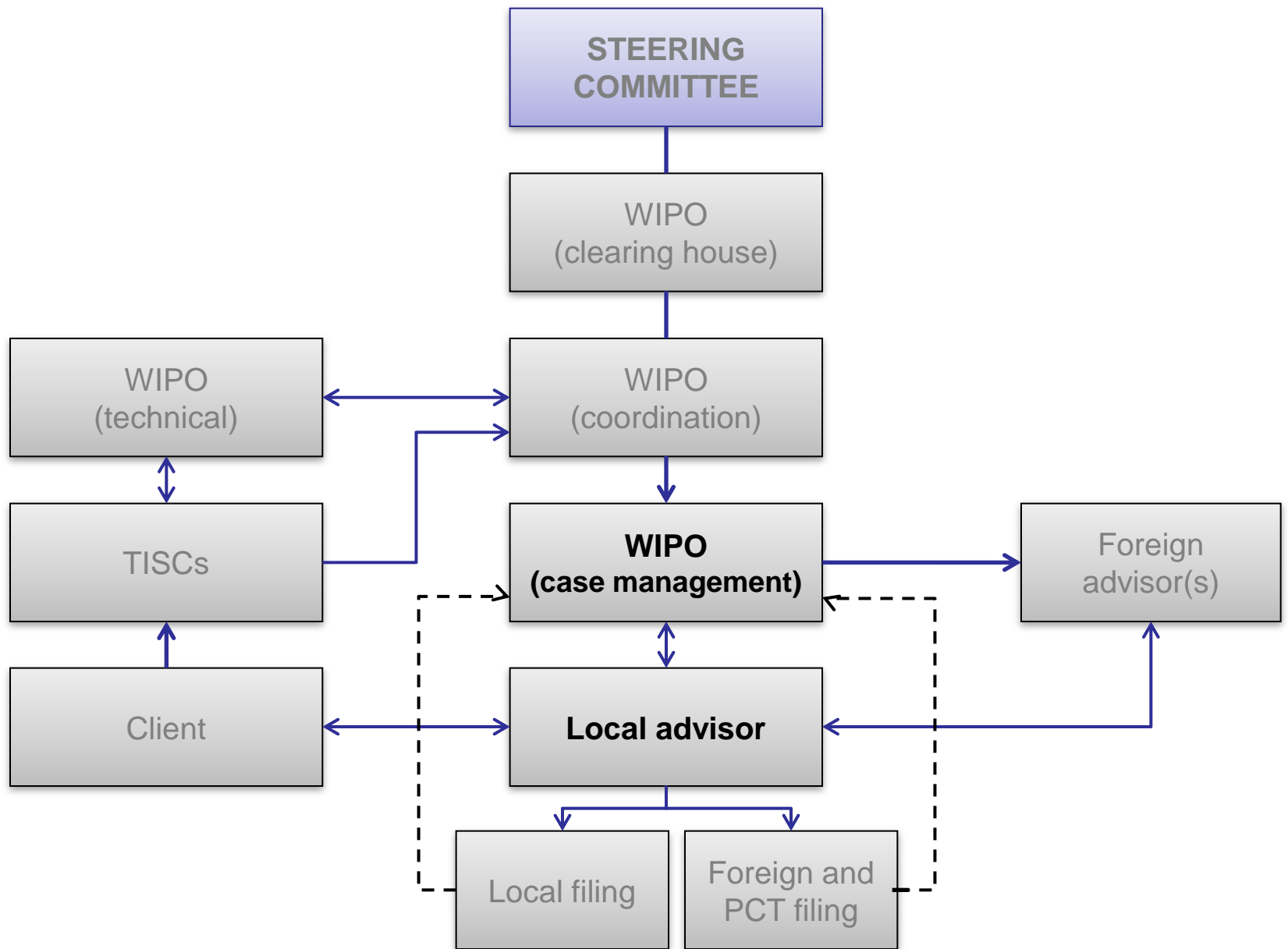
TISC transmits request to WIPO



WIPO designates advisor(s)



Local advisor supports inventor



Local advisor reports progress to WIPO

IAP Pilot Countries

- Colombia
- Morocco
- Philippines

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