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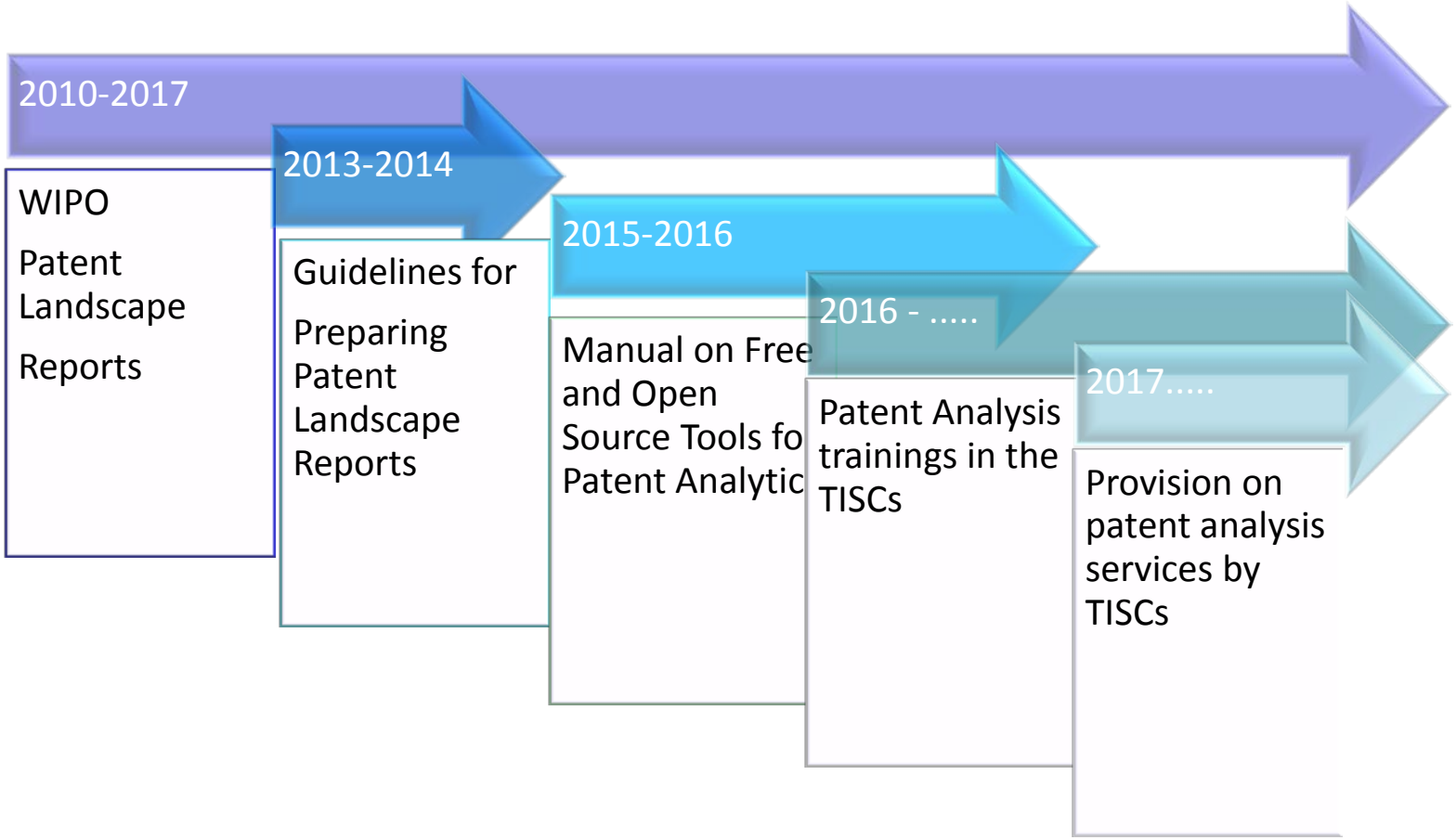
WIPO Patent Analytics activities and their integration in the TISC program

Porto Alegre
19 October 2016

Irene Kitsara, IP Information Officer, Technology and Innovation Support Section, Access to Information and Knowledge Division

Overview – Evolution of WIPO Patent Analytics activities



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WIPO PATENT LANDSCAPE REPORTS

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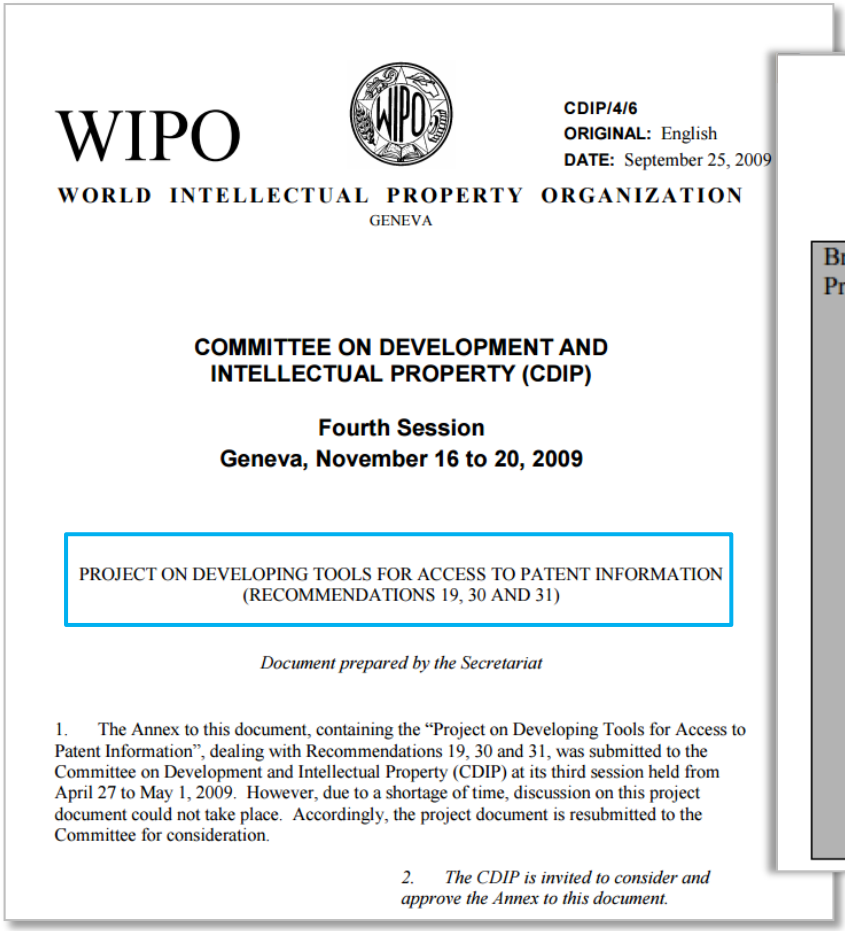
WIPO activities in patent analytics - Background



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WORLD INTELLECTUAL PROPERTY ORGANIZATION
GENEVA

CDIP/4/6
ORIGINAL: English
DATE: September 25, 2009

COMMITTEE ON DEVELOPMENT AND INTELLECTUAL PROPERTY (CDIP)

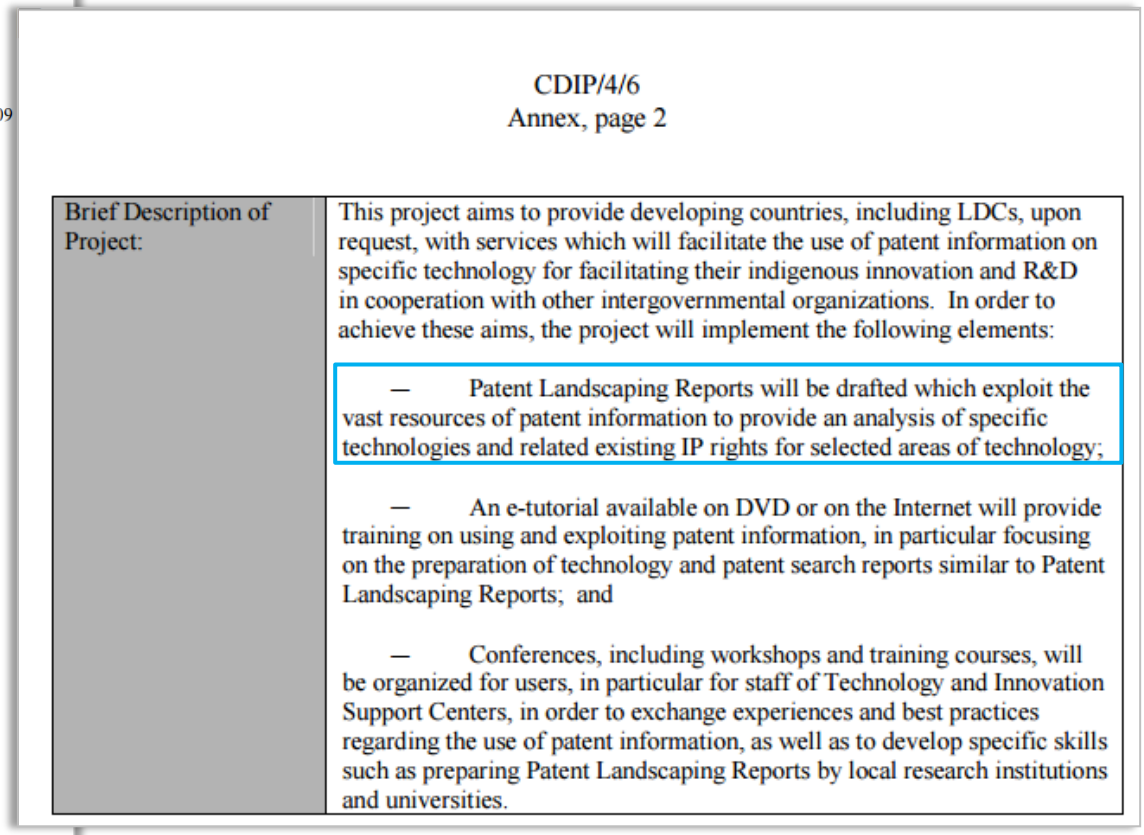
Fourth Session
Geneva, November 16 to 20, 2009

PROJECT ON DEVELOPING TOOLS FOR ACCESS TO PATENT INFORMATION (RECOMMENDATIONS 19, 30 AND 31)

Document prepared by the Secretariat

1. The Annex to this document, containing the "Project on Developing Tools for Access to Patent Information", dealing with Recommendations 19, 30 and 31, was submitted to the Committee on Development and Intellectual Property (CDIP) at its third session held from April 27 to May 1, 2009. However, due to a shortage of time, discussion on this project document could not take place. Accordingly, the project document is resubmitted to the Committee for consideration.

2. *The CDIP is invited to consider and approve the Annex to this document.*



CDIP/4/6
Annex, page 2

Brief Description of Project:	This project aims to provide developing countries, including LDCs, upon request, with services which will facilitate the use of patent information on specific technology for facilitating their indigenous innovation and R&D in cooperation with other intergovernmental organizations. In order to achieve these aims, the project will implement the following elements: — Patent Landscaping Reports will be drafted which exploit the vast resources of patent information to provide an analysis of specific technologies and related existing IP rights for selected areas of technology; — An e-tutorial available on DVD or on the Internet will provide training on using and exploiting patent information, in particular focusing on the preparation of technology and patent search reports similar to Patent Landscaping Reports; and — Conferences, including workshops and training courses, will be organized for users, in particular for staff of Technology and Innovation Support Centers, in order to exchange experiences and best practices regarding the use of patent information, as well as to develop specific skills such as preparing Patent Landscaping Reports by local research institutions and universities.

- Among WIPO Strategic Goals: "*Facilitating the Use of IP for Development*"
- Launched in 2010 as Development Agenda Project "Developing Tools for Access to Patent Information", adopted by the CDIP (CDIP 4/6)
- Since January 2014: WIPO regular activity

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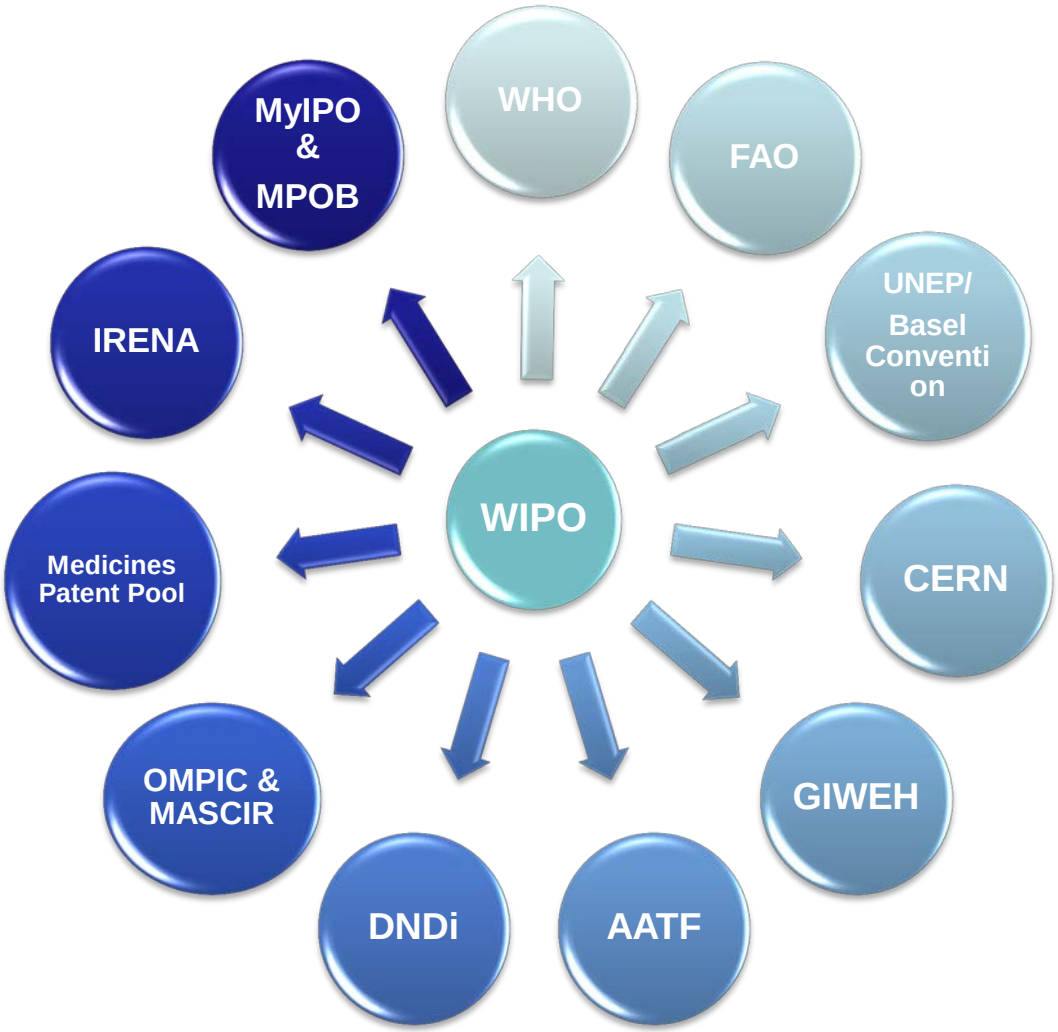
WIPO Patent Landscape Reports Project

- Output: preparation of patent analysis reports in areas of importance for developing and least developed countries:
  - Public Health
  - Food and agriculture
  - Environment, Climate change and Energy
  - Disabilities

WIPO Patent Landscape Reports (PLR) - Approach

- Demand-driven (UN-Agencies, Member States, NGOs)
- Provide technical, business and legal information on the subject matter to support specific needs/decision-making
- Cater for researchers, policy/decision makers, patent information users – different part of the reports address different user needs
- Transparent and instructive: extensive description of the patent search methodology
  - Search queries
  - Patent search results in Excel table
- Showcase various databases, methodological approaches, analysis types and analysis/visualization tools

WIPO PLR: cooperation partners



- UN Agencies (WHO, FAO..)
- National IPOs
- Research Institutes
- NGOs

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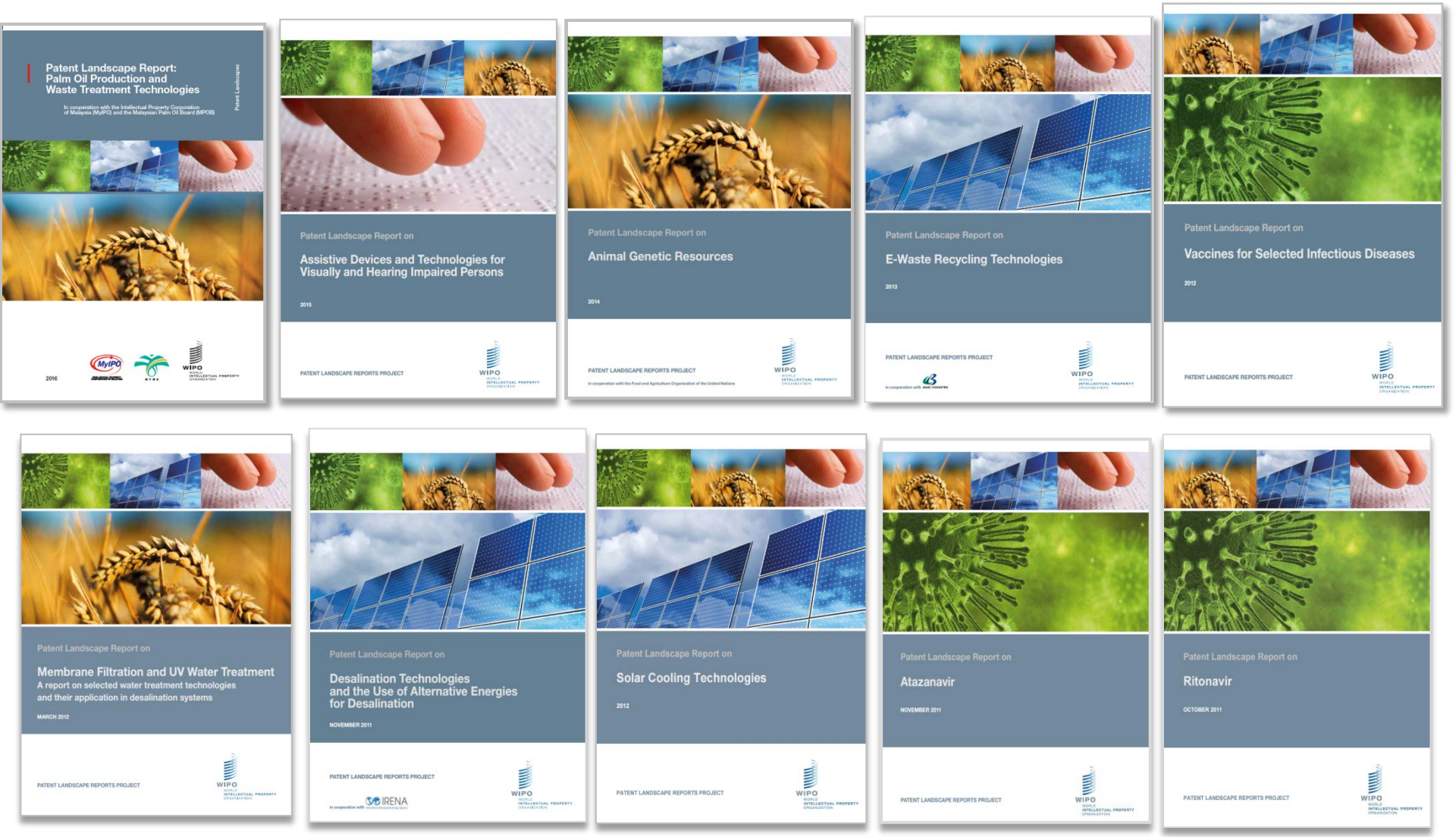
WIPO Patent Landscape Reports Topics



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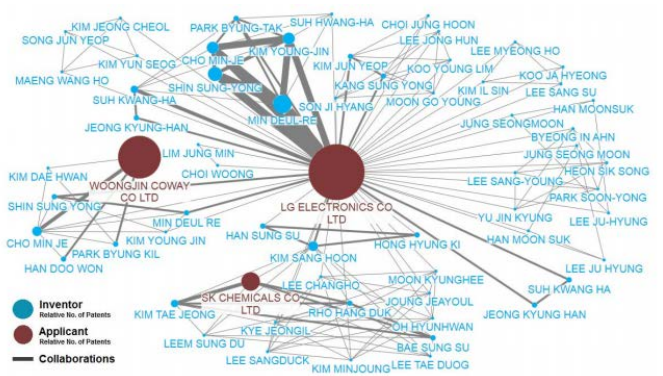
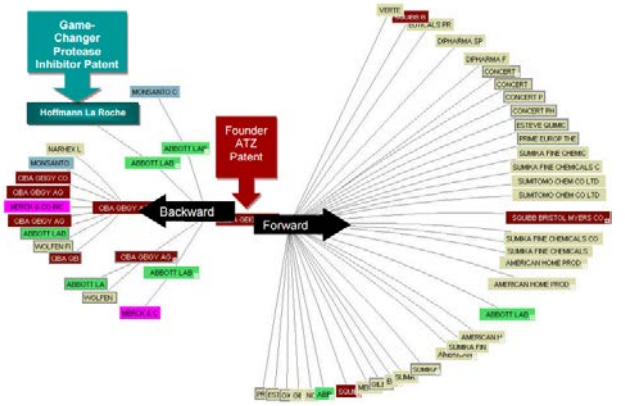
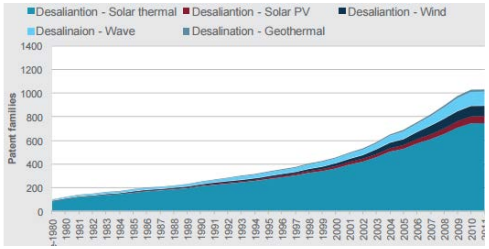
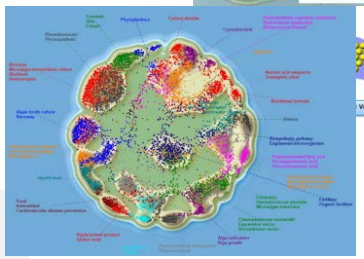
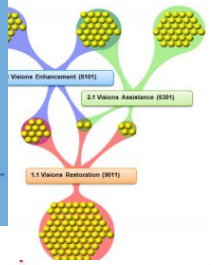
Variety in the analysis types and tools used

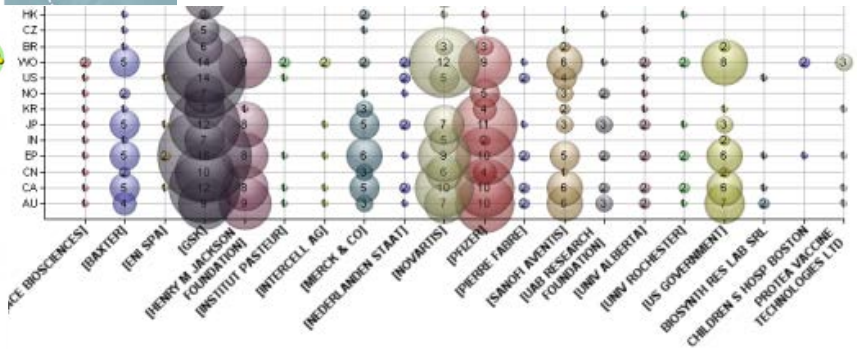


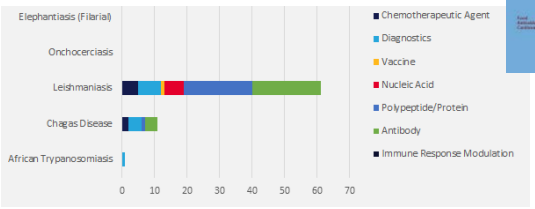


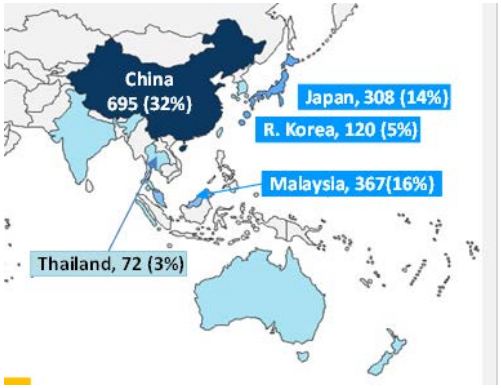


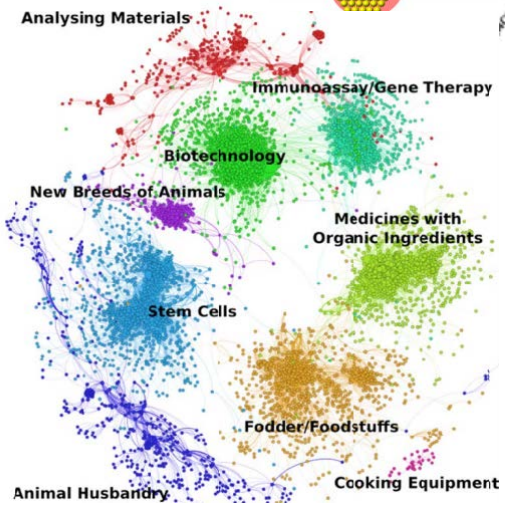












Select Assignee	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	Inventions
ENANTA PHARM INC												4	12	9	15	40
GILEAD SCIENCES INC								3	4	3	1	6	8	8	4	36
ABBOTT LABORATORIES								4	18	1	11	5		5	4	48
ZIRUS INC														2	4	6
GLAXOSMITHKLINE							1	7	3	2	7	15	14	12	3	64
AICURIS GMBH & CO KG														4	3	7
MERCK & CO INC		4	3	5	19	14	23	19	6	15	10	7	6	2	3	134
RANBAXY LAB LTD											1			2	3	6
BOEHRINGER INGELHEIM INT								1	3	4	1	4	8		3	24
CONCERT PHARMACEUTICALS INC													4	2	2	8
BRISTOL MYERS SQUIBB CO					1	2	3	8	10	24	14	12	11	8	1	92
SCHERING CORP						1					1	4	7	5	1	18
NOVARTIS AG	1	2								1	12	7	5	3	1	31

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Dedicated WIPO PLR website

www.wipo.int/patentscope/en/programs/patent_landscapes/index.html

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Patent Landscape Reports

Patent landscape reports (PLRs) provide a snap-shot of the patent situation of a specific technology, either within a given country or region, or globally. They can inform policy discussions, strategic research planning or technology transfer. They may also be used to analyze the validity of patents based on data about their legal status.

A PLR begins 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 or of innovation. The results are presented visually to assist understanding and conclusions or recommendations based on the empirical evidence are provided.

Contact us

FEATURED PUBLICATION

Guidelines for Preparing Patent Landscape Reports

Download

WIPO's patent landscape reports

All 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 the environment.

Microalgae-Related Technologies

Assistive devices for visually and hearing impaired persons

Electronic Waste Recycling

Animal Genetic Resources

PLR Guidelines

Reports by other organizations

2015 statistics:
54.500 PDF
downloads

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http://www.wipo.int/patentscope/en/programs/patent_landscapes

Report-specific websites

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 f
2015. Additionally, the repo
origin of genetic resources i

Animal Genetic Resources

October 2014

Download

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

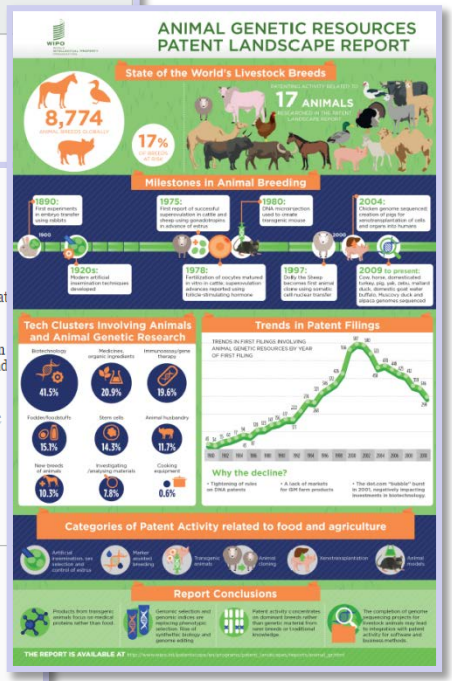
Annex 2 – Search terms XLS

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



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Report-specific websites (2)

Patent dataset

A	B	C	AX	AY	AZ	BA	BB	BC	BD	BE	BF
DWPI Accession Number	Publication Number	Application Number	1.2.3. Non Permanent Hearing Restoration	2.1.1. Voice Control Sound Control	2.1.2. Sensor Technology adapted for the Vision Impaired	2.1.3. Vision Assistance – Other	2.2.1. Touch Tactile Haptic Technology e.g. Braille	2.2.2. Voice or language recognition technology speech	2.2.3. Hearing Assistance – Other	3.1.1. Display of Information	3.1.2. Spatial Resolution Vision Quality
1988354076	EP314780A1	EP1988906262A		2.1.1. Voice Control			2.2.1. Touch Tactile			3.1.1. Display of	3.1.2. Spatial
2003708956	US20030120183A1	US2002202414A			2.1.2. Sensor	2.1.3. Vision	2.2.1. Touch Tactile			3.1.1. Display of	3.1.2. Spatial
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2013B89480	WO2013180090A1	WO2012IL50280A		2.1.1. Voice Control	2.1.2. Sensor	2.1.3. Vision	2.2.1. Touch Tactile			3.1.1. Display of	
1976H0952X	GB1444711A	GB197219037A		2.1.1. Voice Control		2.1.3. Vision		2.2.2. Voice or		3.1.1. Display of	3.1.2. Spatial
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2006049596	GB2415079A	GB200412801A		2.1.1. Voice Control		2.1.3. Vision		2.2.2. Voice or		3.1.1. Display of	3.1.2. Spatial
1983826768	US4414431A	US19801980868A		2.1.1. Voice Control				2.2.2. Voice or		3.1.1. Display of	3.1.2. Spatial
2013R20191	IN20120039614	IN2012CH396A				2.1.3. Vision	2.2.1. Touch Tactile			3.1.1. Display of	3.1.2. Spatial
1997310054	US5636038A	US19966869624A		2.1.1. Voice Control		2.1.3. Vision	2.2.1. Touch Tactile			3.1.1. Display of	3.1.2. Spatial
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2005330388	US7805307B2	US20036762734						2.2.2. Voice or			3.1.2. Spatial
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2007719899	EP1998729A1	EP2007731837A	1.2.3. Non	2.1.1. Voice Control	2.1.2. Sensor				2.2.3. Hearing	3.1.1. Display of	
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2008O20441	US20080306611A1	US2008841651A				2.1.3. Vision			2.2.3. Hearing		3.1.2. Spatial
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2013A69189	CN102708728A	CN20121000984		2.1.1. Voice Control		2.1.3. Vision	2.2.1. Touch Tactile			3.1.1. Display of	3.1.2. Spatial
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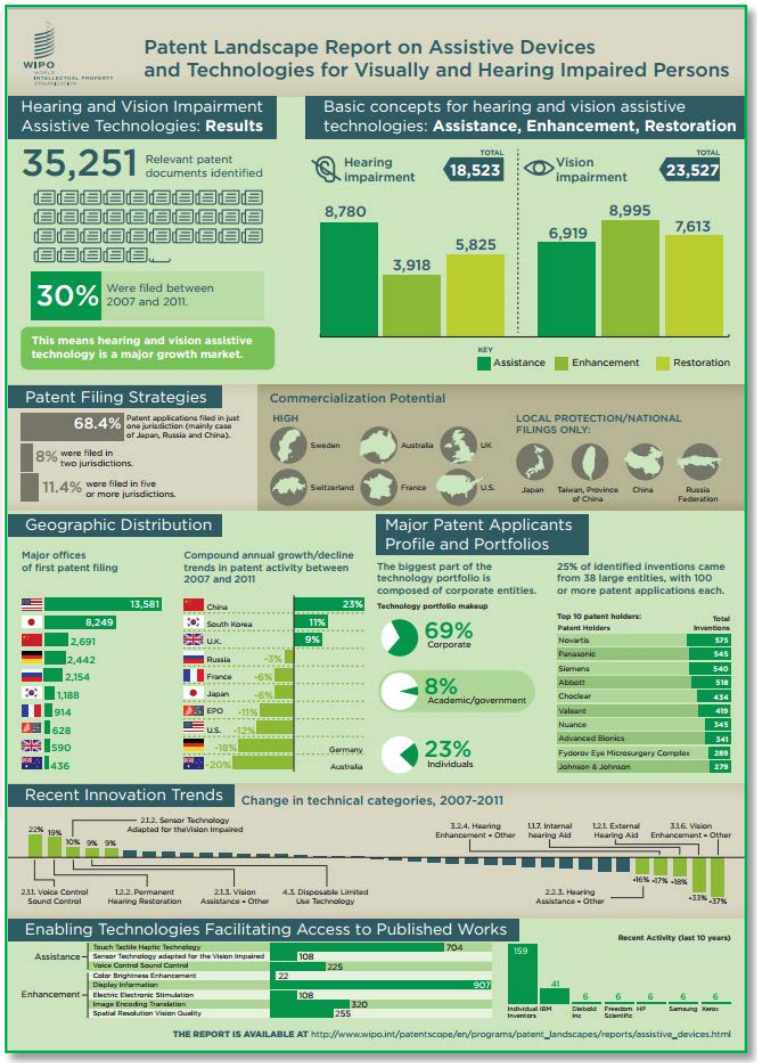
1998195675	US5991781A	US19967227574		2.1.1. Voice Control	2.1.2. Sensor				2.2.3. Hearing	3.1.1. Display of	3.1.2. Spatial
2013X28646	WO2013186574A2	WO2013GB51565A		2.1.1. Voice Control	2.1.2. Sensor		2.2.1. Touch Tactile			3.1.1. Display of	
2012F51111	US20120114169A1	US13349848A		2.1.1. Voice Control		2.1.3. Vision	2.2.1. Touch Tactile			3.1.1. Display of	3.1.2. Spatial

Links to full documents

Documents tagged based on clusters and other grouping criteria

Infographic



Recent and future work

- Recently published:
  - Palm Oil Production and Waste Exploitation
  - Microalgae-related technologies
- Patent Landscape Reports soon to be published:
  - Acccelerator technologies and their medical and industrial applications
  - Selected Neglected Diseases
- New PLR (FIT-JP): Marine genetic resources

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Key findings in the microalgae PLR

Area of growing interest

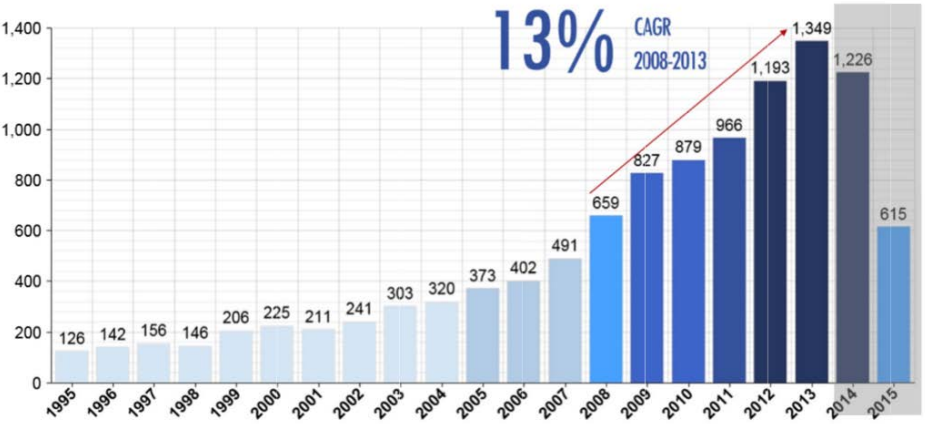

Figure 1 - Number of Patent families per Earliest Priority Year[3] (1995-2015)

Mainly national filings

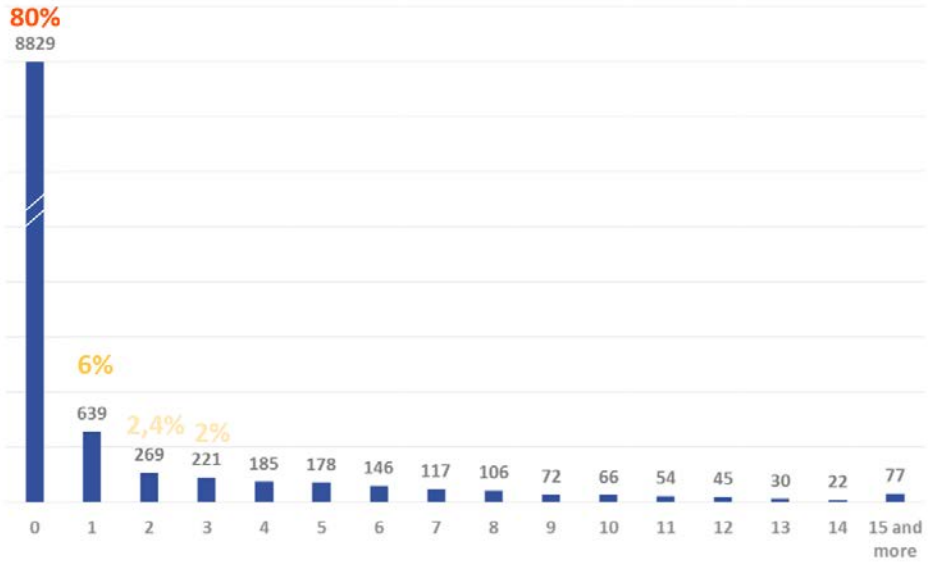

Figure 9 - Distribution of Patent Families by Number of OSF patent applications were filed

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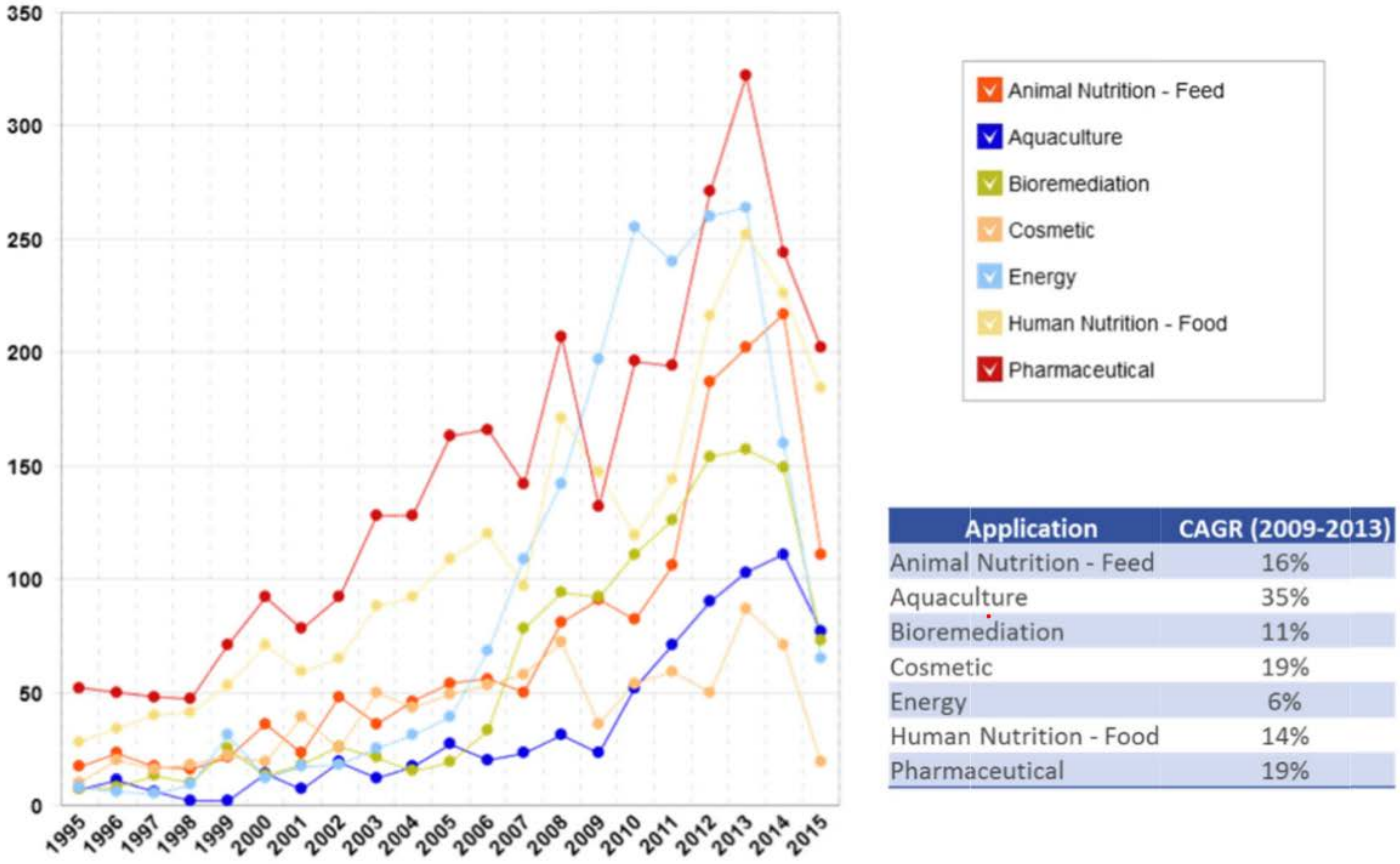
Key findings in the microalgae PLR

Microalgae applications



Application	CAGR (2009-2013)
Animal Nutrition - Feed	16%
Aquaculture	35%
Bioremediation	11%
Cosmetic	19%
Energy	6%
Human Nutrition - Food	14%
Pharmaceutical	19%

Figure 39 – Timeline of activity in applications of microalgae

Brazil in the microalgae PLR

#	Country	95-99	00-04	05-09	10-14	2015	Total
1	CHINA	112	282	897	3450	*600*	5341
2	UNITED STATES	102	222	568	546	*3*	1441
3	JAPAN	285	269	352	243	*1*	1150
4	KOREA	33	137	275	607	*5*	1057
5	FRANCE	37	45	81	104	*0*	267
6	GERMANY	36	67	60	44	*0*	207
7	EUROPE	15	31	65	63	*0*	174
8	RUSSIAN FEDERATION	33	39	32	65	*2*	171
9	TAIWAN	0	14	46	85	*0*	145
10	INDIA	9	26	34	58	*2*	129
11	THAILAND	28	32	45	13	*0*	118
12	WORLD	5	15	38	59	*0*	117
13	MOLDOVA	6	24	42	32	*0*	104
14	SPAIN	4	18	31	39	*0*	92
15	UNITED KINGDOM	9	12	28	26	*2*	77
16	AUSTRALIA	7	12	25	10	*0*	54
17	UKRAINE	1	10	27	15	*0*	53
18	BRAZIL	0	0	23	29	*0*	52
19	ITALY	8	7	13	19	*0*	47
20	CANADA	10	6	6	11	*0*	33
21	MEXICO	1	0	7	16	*0*	24
22	ROMANIA	3	3	1	13	*0*	20
23	ISRAEL	9	2	4	4	*0*	19
24	NEW ZEALAND	3	5	5	3	*0*	16
	SWEDEN	9	4	3	0	*0*	16

patent families per Office of First Filing

#	Country	95-99	00-04	05-09	10-14
1	WORLD	173	352	753	860
2	EUROPE	160	276	445	298
3	AUSTRALIA	155	226	265	188
4	CHINA	73	156	332	253
5	UNITED STATES	103	184	275	233
6	CANADA	109	171	268	181
7	JAPAN	113	179	261	138
8	KOREA	45	103	162	101
9	INDIA	25	91	203	86
10	MEXICO	22	69	153	90
11	BRAZIL	45	79	123	10
12	SPAIN	64	83	79	9
13	ISRAEL	30	51	94	48
14	GERMANY	83	87	36	9
15	AUSTRIA	68	102	40	0
16	TAIWAN	22	36	55	38
17	RUSSIAN FEDERATION	9	36	52	29
18	NEW ZEALAND	22	29	54	10
19	ARGENTINA	16	22	56	18
20	DENMARK	33	40	26	1

patent families per Office of Second Filing

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Brazil in the microalgae PLR

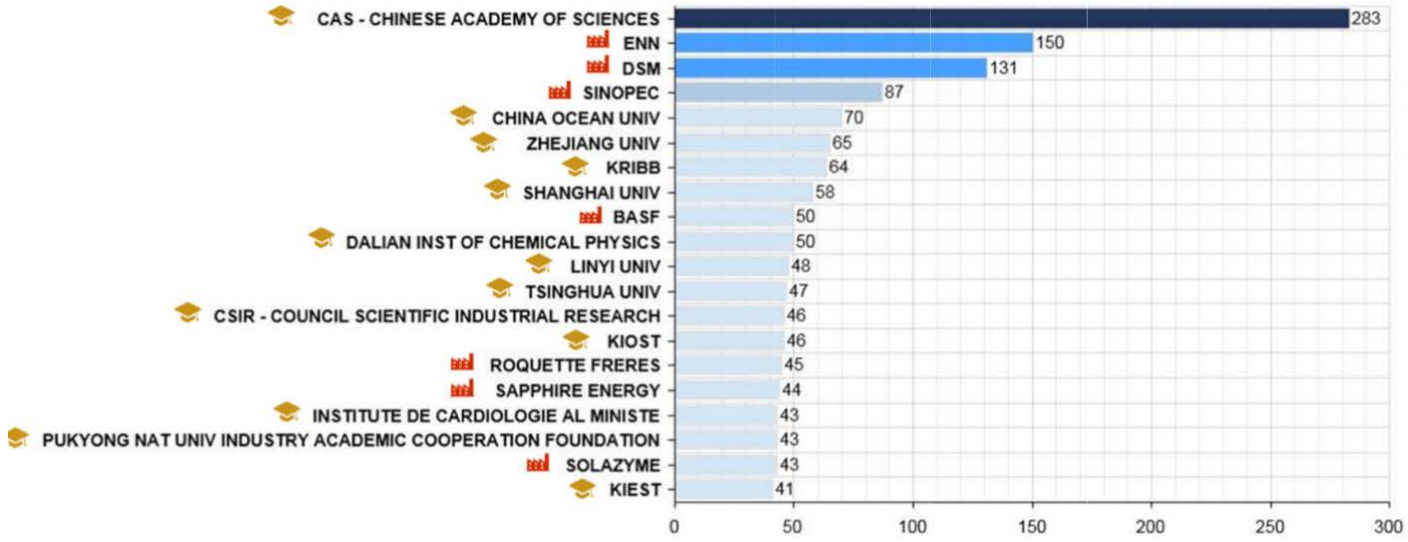

Figure 11 - TOP 20 Applicants

TOP 10 APPLICANTS - LATIN AMERICA	Total
OURO FINO	11
UNIV PARANA	8
INST TECN ESTUDIOS SUPERIORES MONTERREY	7
COSTA JORGE ALBERTO VIEIRA	4
PETROBRAS	4
CENTER INVESTIG ESTUDIOS DEL IPN	3
UNIV RIO DE JANEIRO	3
UNIV RIO GRANDE	3
UNIV SAO PAULO	3
AEON BIOGROUP	2
UNIV PERNAMBUCO	2
UNIVERSITY AUTONOMA METROPOLITANA	2
UNIVERSITY OF CHILE	2

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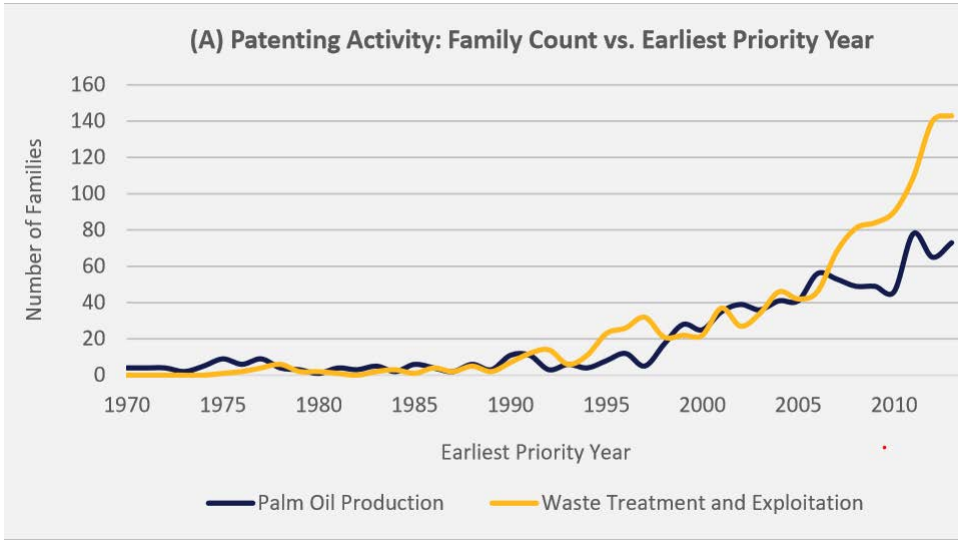
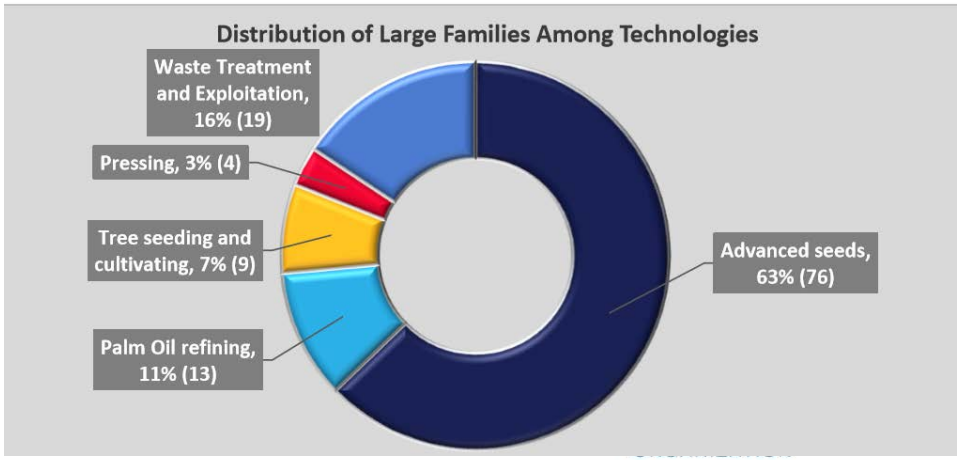
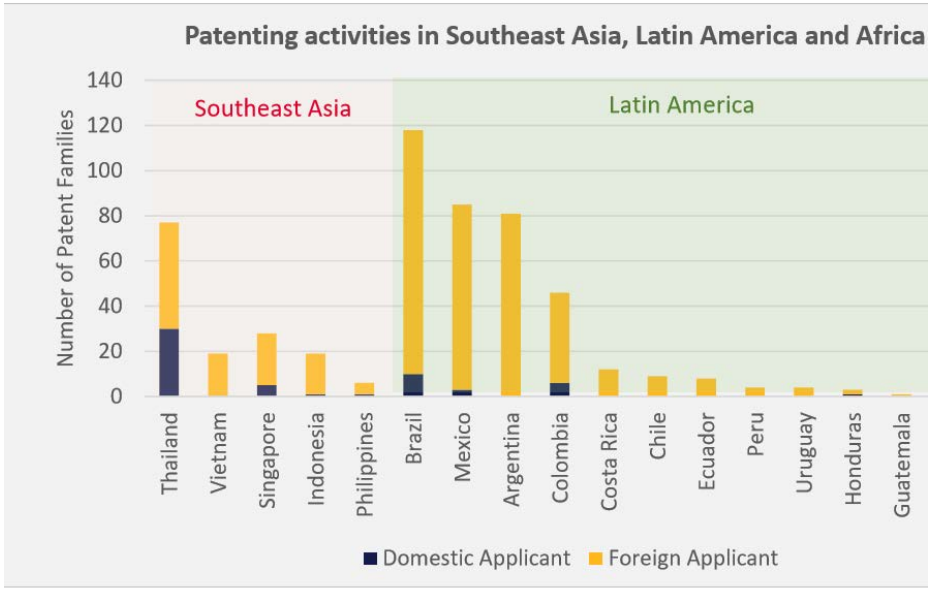
Key findings in the WIPO Palm Oil PLR





Brazil in the Palm Oil PLR



Most Active Applicants in Palm Oil Production -

	WO	CA	EP	CN	AU	BR	US	AR	IN	MX	JP	DE	ES	AT	ZA	CO	ID	DK	KR	CR	RU	NZ
MPOB	27	1	10	7	3	8	25		4		4	5		3		7	11			2		
BASF	86	70	51	48	5	39	25	42	38	35	13	17	16	12	9	2		3	6	2	5	4
CATAS-CHINA																						
AGRINOMICS	24	7	5	11	7	12		6	1	10	1	1	2	1	10			2	1		1	
MONSANTO	19	14	15	11	1	11		7	5	1	3	6	4	7				3				1
SIME DARBY	12		1	1	1						1		1			3		1		3		
UNIV PUTRA	2																					
DUPONT	8	7	7	5	5	6		3	2	3	3	1	2		1	2						1
NESTLE	5	1		5	1				1	1	4										1	
FUJI OIL	4		3	1															2			
AGRIGENETICS	5	5						5														
CARGILL	4		1						1													
SUED CHEMIE	5	2	2	1				1	1	2	1		1			1						
ZHONG YONGTAI																						
CERES	4	3	2	2	2	1			2	2												
SWETREE TECH	2	2	3	3	3				1		2				1							1

Unique compilation of PLR prepared by other organizations

Over 170 PLR available (July 2016)

Public health / Life sciences

Title	Author	Date	Language
Protein Crystals	IP Australia	2016	English
Self - Diagnostic Medical Devices PDF	Molecular Connections	2016	English
Wearable Fitness Monitors PDF	iRunway	2015	English
A patent analytics study on the Australian Pharmaceutical Industry PDF	IP Australia	2015	English
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
Nuevas Tecnologías en Instrumentos Odontológicos (Odontological Instruments)	Superintendency of Industry and Commerce, Colombia	2013	Spanish

www.wipo.int/patentscope/en/programs/patent_landscapes/published_reports.html

GUIDELINES FOR PREPARING PATENT LANDSCAPE REPORTS

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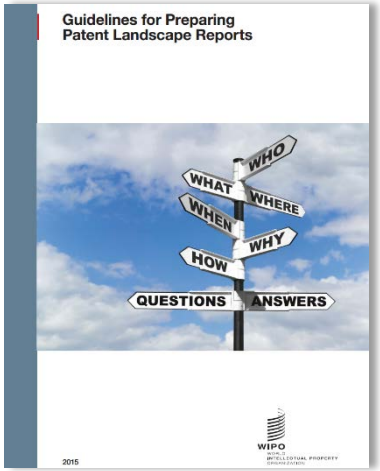
Guidelines for Preparing Patent Landscape Reports

- Developed in the Framework of Phase II of the Development Agenda project "Developing Tools for Access to Patent Information“
- Addressed to patent information users, providers and/or recipients of PLRs
- Intended to be used also in capacity building activities on patent analysis

Guidelines for Preparing Patent Landscape Reports(2)

- Authored by Tony Trippe with contributions from WIPO Secretariat
- Published in September 2015 and available on http://www.wipo.int/patentscope/en/programs/patent_landscapes

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



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MANUAL ON FREE AND OPEN SOURCE TOOLS FOR PATENT ANALYTICS

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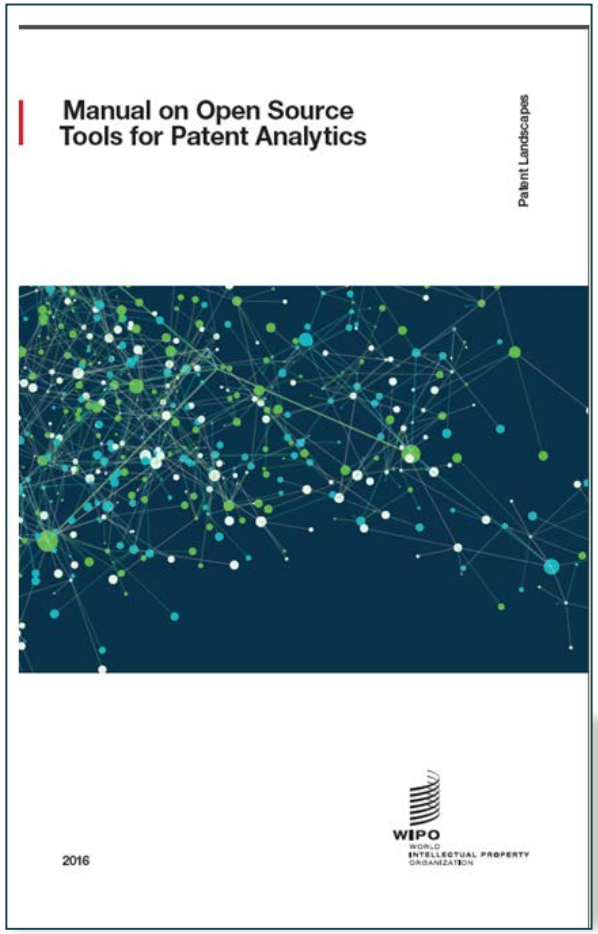
The Manual on Open Source Tools for Patent Analytics

- Project launched in May 2015, funded by FIT-JP
- Key author of the Manual: Paul Oldham
- Aimed at exploring:
  - various free and open source tools which could be used for various patent analysis tasks by users in developing countries



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Technology and Innovation Support Centers (TISC)

TISCs: 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

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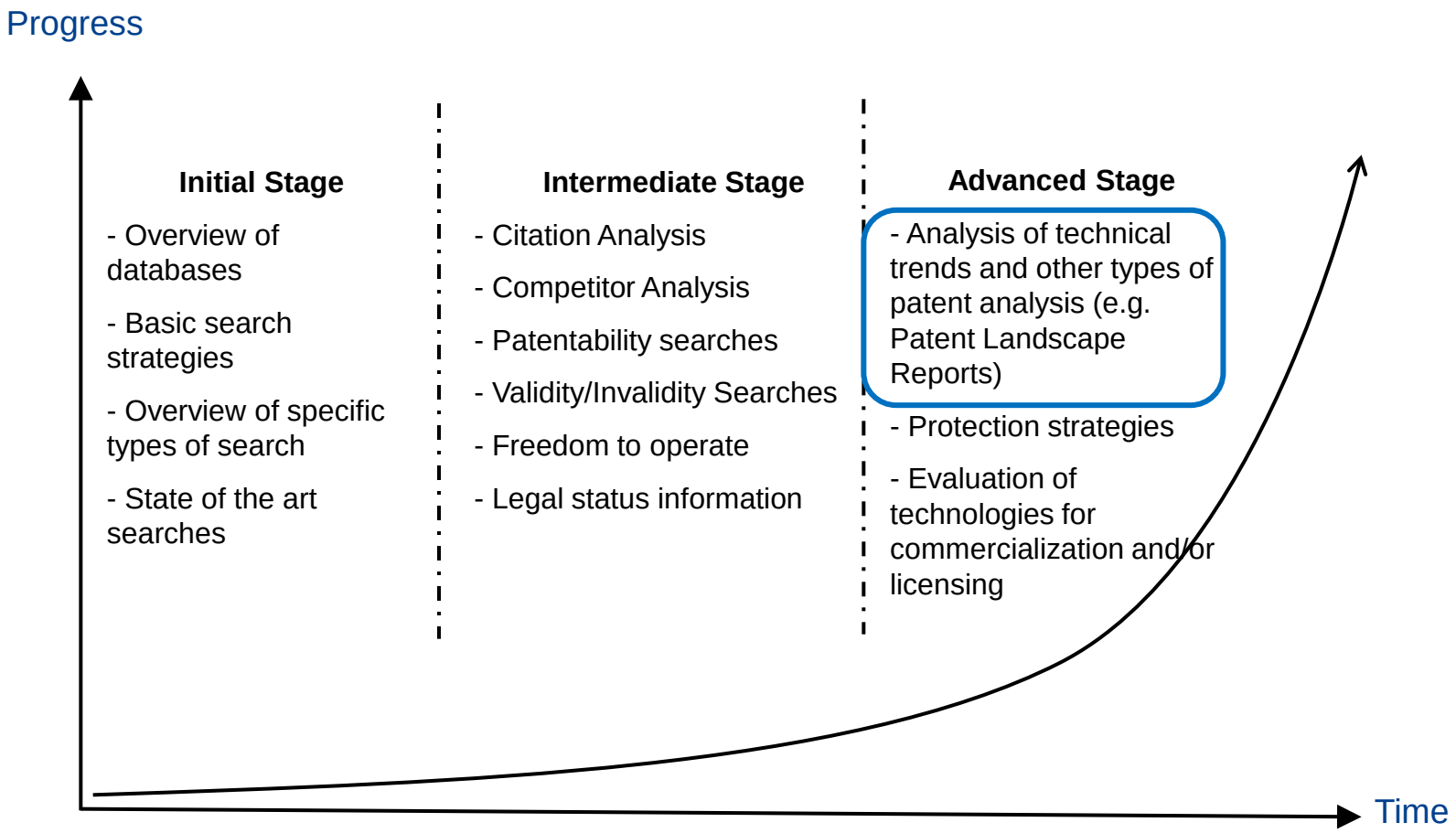
Evolution of TISC Services based on development stage



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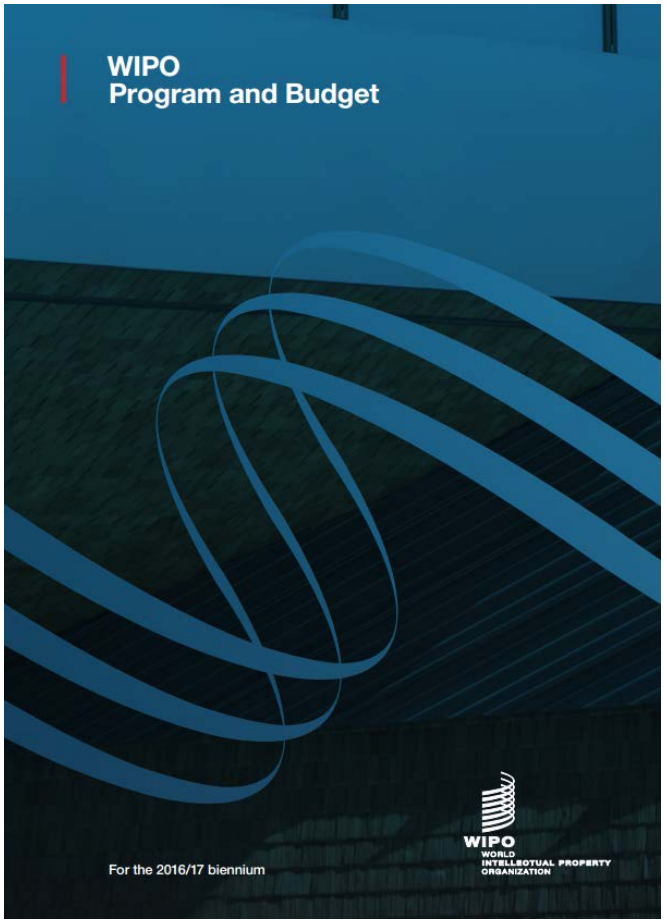
TISC and patent analytics – way forward



Expected Results	Performance Indicators	Baselines	Targets
	No. of TISC Clinic requests submitted to TISCs	n/a (new)	10
	No. of TISCs offering patent analytical services	n/a (new)	5

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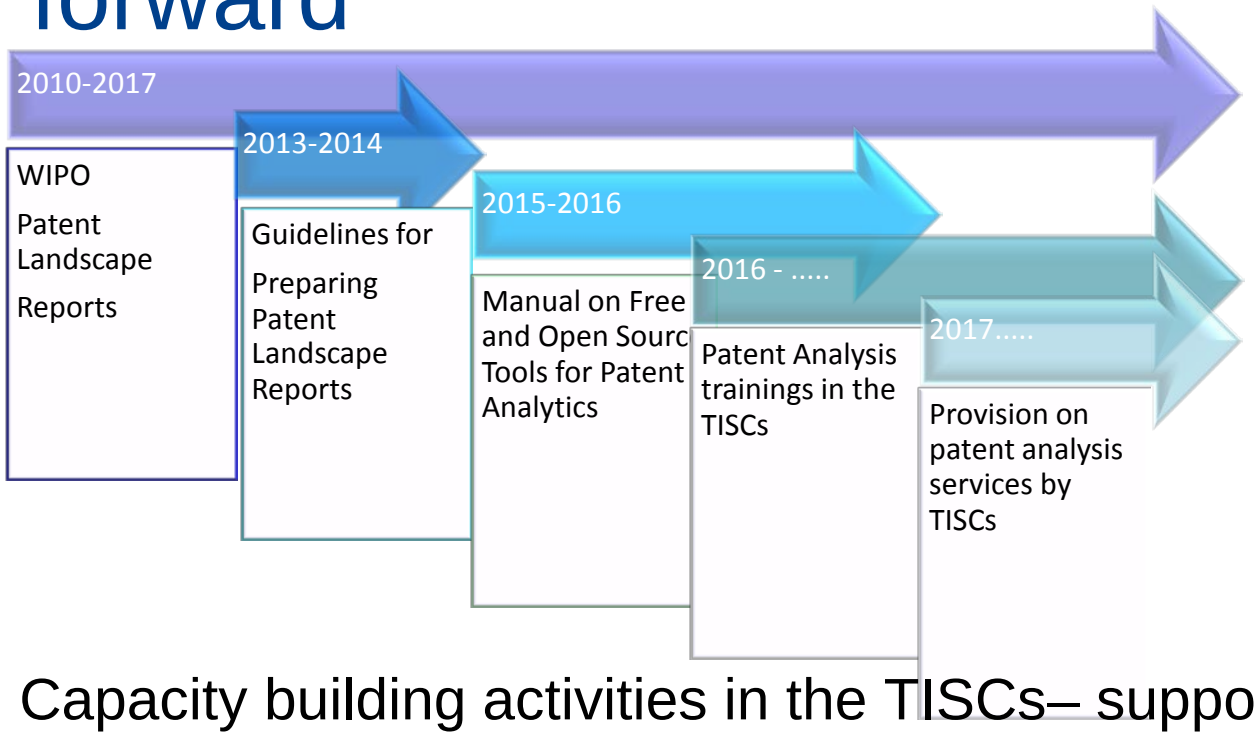
Way forward



- **TISC:** Capacity building activities in the TISCs– support in their building their analytics services
- **Patent Analytics:**
  - Further work on specific topics and/or methodological approaches of patent landscaping
  - Further work on open source tools for patent analysis (further tools, towards an R package for patent data?)
  - Further enriching of the PLR compilation website with new reports

Thank you for your attention!

Irene.Kitsara@wipo.int

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