



## 3<sup>rd</sup> EPO-USPTO CPC Annual Meeting with national offices classifying in CPC





Geneva, 23 February 2016

F16M11/2035 \*\*\* { around a horizontal part of the part





## Agenda

- Which are the offices participating in the CPC?
- CPC coverage Much more than EP & US documents...
- CPC scheme and releases
- New scheme related services
- IT matters
- Future developments
- Training
- Statistics on the usage of <u>www.cpcinfo.org</u>



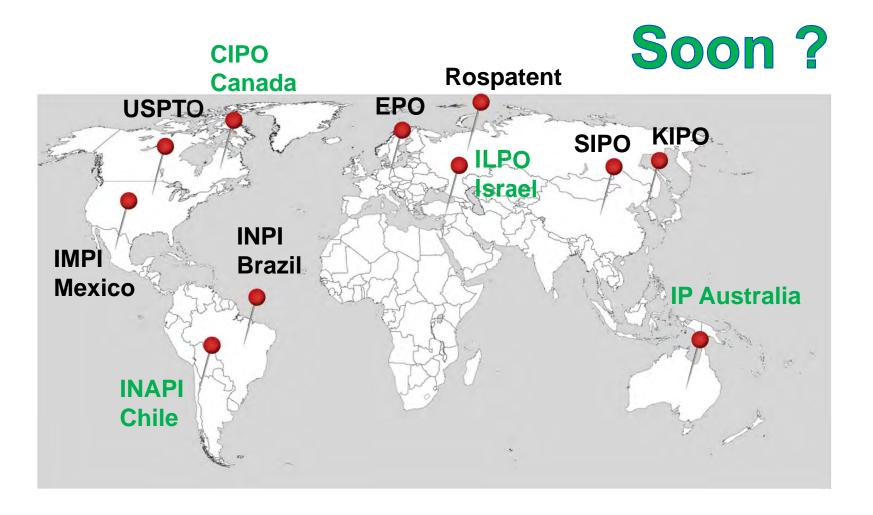


# Which are the offices participating in the CPC?





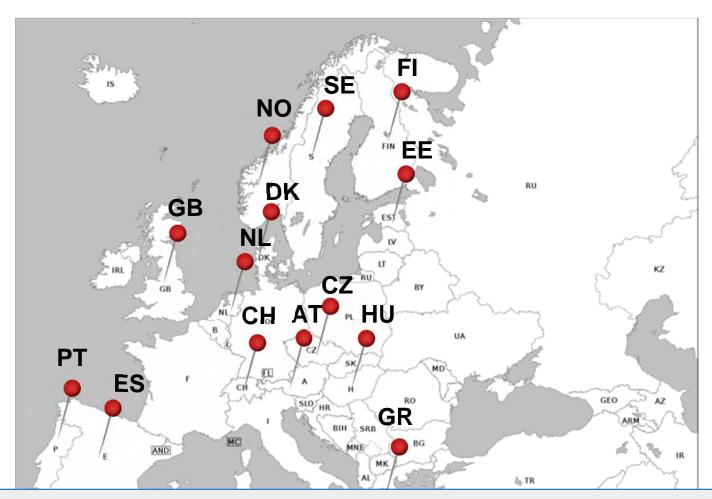
## Around the world







### Within the European Patent Organisation



Furthermore, CPC is **used for search** by more than **45 Patent Offices** and by more than **25 000 examiners** 





## **CPC** implementation at National Offices

Three major activities (see details later):

- Training
- Quality Measures
- IT support, e.g. for CPC data exchange





**CPC** coverage – Much more than EP & US documents...





#### **CPC-Classified Documentation**

- US, CH, DE, FR, GB, EP
- AP (ARIPO), OA (OAPI) & AII WO (WIPO)
- BE, NL, LU (historical reasons)
- AT, AU, CA (first filing residents)





## **CPC** documentation coverage

Country	СС	Code	Systematically classified**	Non-systematically classified
ARIPO	AP		complete from 1 (3/7/1985)	
Austria	AT*	A,B	from 288 286 (15/1/1971)	from 100 022 (1925)
Australia	AU*	B,D	from 18/1/1973 (first filing: 1971)	from 1 019 332 (1933)
Belgium	BE		from 100 486 (1892)	years 1959-1962
			from 848 159 (4/8/1970)	
Canada	CA*		for first filling residents from 939 101 (1/1/1974)	from 114 746 (1908)
Switzerland	СН	A,B D	from 208 320 (31/1/1939) from 1968	from 1 (1888)
Cormony	DE	A,B,C	from 1 (1877)	
Germany	DE	U	from 6 609 798 (04/1/1973)	from 1 037 492 (1928)
EPO	EP	Α	complete from 1 (20/12/1978)	
France	FR	A,B	from 292 (1844)	
Flance	FK	E	from 92 701 (20/12/1968)	
United Kingdom	GB	A,B	from 1909 02 488 (27/1/1910)	from 1817 04 136 (1817)
Luxembourg	LU		from 555 (<1920)	
The Netherlands	NL		from 28 (1913)	
OAPI	OA		complete from 1 (15/01/1966)	
		A,B	complete from 1 (13/07/1836)	
		E	complete from 8 (23/4/1839)	
The United States	US	l (defensive) l (trial, project)	complete from 120 (04/10/1855)	
		Н	complete from 1 (03/12/1985)	
World(PCT)	wo		complete from 7800001 (19/10/1978)	

<sup>\*</sup> for first filings only ie. without foreign priorities

<sup>\*\*</sup> when the indication "complete" is not present, this means that some documents in the collection may not be classified in CPC





## **CPC Coverage – Update 18 January 2016**

Country	Country Code	Number of documents *	Number of publications classified in CPC (family or document level)	% publications classified in CPC (family or document level)
EPO	EP	2,960,410	2,953,408	99.8
United States	US	11,561,111	11,239,893	97.2
ARIPO	AP	3,465	3,263	94.2
Austria	AT	1,001,650	644,880	64.4
Australia	AU	1,479,433	1,333,186	90.1
Belgium	BE	585,582	551,528	94.2
Canada	CA	2,314,139	1,233,373	53.3
Switzerland	СН	713,889	574,737	80.5
Germany	DE	5,471,072	4,665,281	85.3
France	FR	2,400,075	2,379,438	99.1
Great Britain	GB	2,361,704	2,104,831	89.1
Luxemburg	LU	61,575	60,538	98.3
Netherlands	NL	548,340	536,372	97.8
OAPI	OA	13,432	13,190	98.2
WIPO	wo	2,776,852	2,768,484	99.7





## CPCNO data delivered by National Offices - Update 18 January 2016

Country	Country Code	Number of publications with CPCNO allocations (document level)
Austria	AT	4,340
Brazil	BR	3,284
China	CN	110,261
Finland	FI	4,575
Great Britain	GB	114,719
Greece	GR	4,933
Korea	KR	170,287
Spain	ES	29,330
Sweden	SE	138,380





## **CPC Scheme and releases**





#### **CPC** Revisions

- CPC Revisions Projects (RP), Maintenance projects (MP) and Definition projects (DP) are bilaterally discussed in the CPC eforum (CEF)
- CPC-NO offices have been granted read access to the CEF and can submit input or feedback via the email addresses:
  - cpc@epo.org
  - cpc@uspto.gov
- Notices of Changes (NoCs) are published one month before entry into force
  - published in the <u>www.cpcinfo.org</u> site
    - section Revisions, Notices of Changes
      - NoC title linked to RP number and subclass
- 2015: in total NoC 50-148 (= 99 projects)





## **CPC** Revisions (cont'd)

- RP priorities are set by the Joint Board (JB), e.g.
  - NoC 44 =RP0015 B33Y Additive manufacturing
  - NoC 143=RP0229 Y02P Climate change mitigation technologies

IPC2016.01 projects are being progressively introduced into CPC





## **CPC-IPC** alignment

CPC-IPC alignment is given high priority in the CPC revision process

- EPO & USPTO international obligations vis-à-vis the IPC
  - Publications must carry IPC symbols in force (Strasbourg Agreement)
  - "IPC reclassification" is actually a "CPC reclassification" at the EPO & USPTO
- CPC-to-IPC-concordance-list (CICL) needs prompt updates
  - CICL is used by offices to classify only in CPC and then roll-up to IPC
- Reduce (where possible) the "deviations" from the former IPC versions





## **CPC-IPC** alignment (cont'd)

- The CPC-IPC alignment can be pursued in two ways:
  - introduce IPC entries into CPC
  - promote CPC schemes into IPC (IP5 route)
- Example1: IPC subclass A61P missing in CPC
  - on USPTO initiative, A61P will be introduced into CPC
    - project RP0329
  - CPC A61P will be added, thereby eliminating one "deviation"
- Example2: IPC main group H04N 15/00 missing in CPC
  - on KIPO initiative, CPC schemes for "Stereoscopic and 3D TV systems" will be brought into IPC
    - project F044
  - IPC H04N 15/00 will be removed, thereby eliminating one "deviation"





## **CPC-IPC** alignment (cont'd)

Missing IPC	Section A	Section B	Section C	Section D	Section E	Section F	Section G	Section H	Totals
Subclasses	2	0	0	0	0	0	0	0	2
Main Groups	25	43	53	1	6	25	12	15	180
Subgroups	250	397	715	43	167	120	124	393	2209

- After introducing A61P into CPC, only 1 IPC subclass will be missing!
  - A01P
- Note that many main groups missing are just "residual ones" (99/00)
- It will be investigated how to further reduce the "deviations" at main group level, and then at subgroup level





#### **CPC Scheme Release**

#### 2013

- April 2013
- July 2013
- September 2013
- November 2013
- December 2013

#### 2014

- February 2014
- June 2014
- July 2014
- September 2014
- October 2014
- November 2014

#### 2015

- January 2015
- April 2015
- May 2015
- July 2015
- September 2015
- October 2015
- November 2015
- December 2015

#### 2016

- January 2016
- February 2016
- May 2016
- August 2016
- November 2016





#### **CPC** releases from 2016 onwards

- Four times per year
  - (+ one if needed)
  - announced on www.cpcinfo.org
- CPC scheme release dates for 2016:
  - January
  - February (for introducing some IPC2016.01)
  - May
  - August
  - November





## CPC Scheme layout (CPC 2015.12)

Section A-H	Section Y
<u>Main Trunk</u>	<ul> <li>Tagging of emerging cross- sectional technologies</li> </ul>
About 162,000 symbols	- Y02B - Y04S - Y02C - Y02E
	- Y02T - Y02W - Y02P
<u>2000 series</u>	United State Patent
About 80,500 symbols	Classification (USPC) related
	- Y10S - Y10T
	About 17,600 symbols

About 260,000 entries in total in CPC system





## **New CPC Scheme related services**





## Statistical mapping CPC to FI

http://www.epo.org/searching-for-patents/helpful-resources/first-time-here/classification/cpc/cpc-fi.html

Based on statistical analysis of allocations on documents

СРС	FI-1	FI-2	FI-3
G01B1/00 (53)	G01B1/00 (11, 21%)		
G01B11/00 (497)	G01B11/00,A (77, 15%)	G01B11/00,H (77, 15%)	G01B11/00,C (66, 13%)
G01B11/002 (281)	G01B11/00,H (61, 22%)	G01B11/00,A (56, 20%)	
G01B11/005 (64)	G01B11/24,A (11, 17%)	G01B11/00,A (9, 14%)	G01B11/00,G (9, 14%)
G01B11/007 (62)	G01B21/00,P (18, 29%)	G01B11/00,A (17, 27%)	G01B5/012 (16, 26%)
G01B11/02 (345)	G01B11/02,Z (131, 38%)		
G01B11/022 (131)	G01B11/00,H (22, 17%)	G01B11/02,H (16, 12%)	G01B11/24,K (16, 12%)





## Statistical mapping FI to CPC

http://www.epo.org/searching-for-patents/helpful-resources/first-time-here/classification/cpc/fi-cpc.html

Based on statistical analysis of allocations on family members

FI	CPC-1	CPC-2	CPC-3
(29)	(11, 38%)		
JUIDIIIL	JIDIIIZ.		
G01B11/00&G (911)	G03F9/7049 (127, 14%);	G03F7/70775 (123, 14%);	<u>G01D5/38</u> (103, 11%)
G01B11/00&H (1890)	G01B11/00 (77, 4%);	<u>G06T7/0075</u> (67,4%);	G06T7/0042 (67, 4%)
G01B11/00&Z (578)	G01B11/00 (63, 11%)		
G01B11/02 (26)	G01B11/02 (5, 19%);	G01B11/024 (4, 15%)	
G01B11/02&G (107)	<u>G01B11/02</u> (12, 11%);	G01N21/4788 (12, 11%);	G03F7/70625 (12, 11%)
G01B11/02&H (368)	G01B11/024 (25, 7%);	G01B11/24 (23, 6%);	G01B11/0608 (22, 6%)
G01B11/02&Z (685)	G01B11/02 (131, 19%)		





## **Recent developments**





#### **CPC** scheme – Y section

General tagging of new technological developments; general tagging of cross-cutting technologies spanning over several sections of the IPC

- Y02: Climate change mitigation technologies (CCMTs)
  - Y02B for Buildings
  - Y02C for Carbon Capture technologies
  - Y02E for Energy production and storage
  - Y02T for Transport
  - Y02W for Waste Water treatment/management
  - Y02P for Processes for energy-intensive industries (e.g. cement, metallurgy) (November 2015)
- o Y04: Smart grids
  - Y04S for Power Network operation, communication or information technologies





## Intellectual Classification of WO publications in CPC by the EPO

- Since January 2016, WO documents in languages other than EPO official languages, e.g. in Japanese, Korean, Chinese or Russian, are not intellectually classified in CPC by the EPO anymore
  - IPC allocations provided by National Office are mapped to CPC symbols
  - Intellectual classification by the EPO still takes place for applications searched by the EPO, i.e. where family members are available in English, German, French or Dutch





## **IT** matters





## **USPTO Web Services (in development)**

- Web service for uploading classification data for national offices
  - National offices will be able to send their data to USPTO for loading
  - USPTO will support ST.96, ST.36, and other formats
- Web service to download CPC classification data
  - National offices will be able to request CPC family picture of priority document
- Web service will be developed for retrieving classification data for national offices





## **EPO- CPC classification data loading (CPCNO)**

Three possibilities for National Offices to submit CPC classification data to the EPO (ST.36/96):

- ☐ Included in the bibliographic data stream (with IPC)
- ☐ Separate file for CPC classification data only
- Web service with feedback retrieval on status of batch, e.g. verification of rejected / accepted allocations





## **OPS RESTful web services (classification)**

These provide access to the EPO's raw data via a standardised XML interface.

The webservices focussing on classification relate to:

- CPC Search
- CPC Media retrieval
- CPC Retrieval





## **CPC** schema changes

• Schema changes for the CPC scheme and definitions are in preparation (not finalised yet).

## Impacted areas:

- References in Definitions
- Enhanced references in Scheme and Definitions
- Change in Synonyms and Keywords
- Details will be made available on www.cpcinfo.org in April/May 2016, to be effective as of the November 2016 CPC release





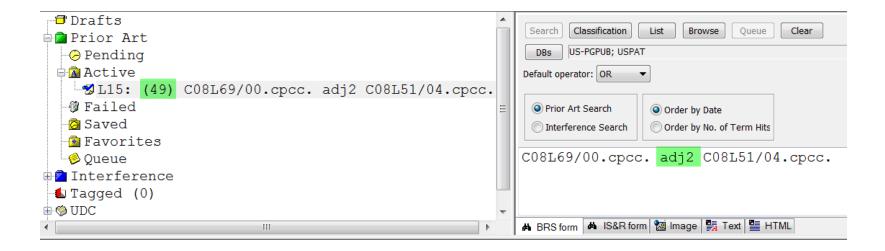
## **Future developments**

**Combination sets & CPC data from National Offices** 





### Combination set in EAST tool – USPTO



Currently, C-Sets are searchable.

PATENT-FAMILY-ID:	46930260	
CPC Combination Set Current - CPCC (1): 1 C08L69/00, 2 C08L51/04;		
🍑 Details 🚆 Text 🕍 Image 🚆	HTML	





## Combination set in EAST tool – USPTO (Con.)

- Each symbol in a Combination Set is entered as a separate paragraph
- Only the AND Operator will yield results

```
L1: (4,322) C08L69/00.ccc.
L2: (1,977) C08L51/04.ccc.
L3: (0) 1 adj2 2

L4: (0) 1 near2 2

L5: (0) 1 with 2

L6: (0) 1 same 2

CPC Combination Classification Current - CCCC (1):
11 C C08L C08L69/00 20130101 L I B H 20121231 EP

CPC Combination Classification Current - CCCC (3):
2 1 C C08L C08L69/00 20130101 L I B H 20121231 EP

CPC Combination Classification Current - CCCC (4):
2 2 C C08L C08L51/04 20130101 L I B H 20121231 EP
```

Currently, C-Sets are searchable.





## **C-Sets from National Offices in Espacenet**

(http://worldwide.espacenet.com)

Classification: -international: C09J201/00; C09J5/00; C09J7/02; H01L21/301

- cooperative default: C09J7/0207; H01L21/6836; H01L21/78; H01L24/27; H01L24/29; H01L24/83;

C09J2201/36; C09J2203/326; H01L21/67132; H01L2221/68318;

H01L2221/68327; H01L2221/68336; H01L2221/68359; H01L2224/27436;

H01L2224/2919

CPCNO: C09J7/0207; H01L21/6836; H01L21/78; H01L24/27; H01L24/29; H01L24/83;

C09J2201/36; C09J2203/326; H01L21/67132; H01L2221/68318;

H01L2221/68327; H01L2221/68336; H01L2221/68359; H01L2224/27436;

H01L2224/2919

C-sets: - H01L2224/2919, H01L2924/0665, H01L2924/00,

H01L2924/0665, H01L2924/00,

- H01L2924/0132, H01L2924/01031, H01L2924/01033, H01L2224/73265, H01L2224/32225, H01L2224/48227, H01L2924/00012, H01L2924/15311,

H01L2224/73265 %2, H01L2224/32225 %2, H01L2224/48227 %2, H01L2924/00,

- H01L2224/92247, H01L2224/73265,

- H01L2224/32225, H01L2224/48227, H01L2924/00,

- H01L2924/3512, H01L2924/00

→ less

#### **Currently:**

- C-Sets from AT, BR, CN, ES, FI, GB, GR, KR and SE are not displayed (only C-Sets from EPO/USPTO are displayed)
- C-Sets not searchable

#### **Future developments (Q1 2016):**

- Also C-sets from CPCNO Offices will be displayed
- All C-sets will be searchable





## **Future developments**

**Expiration of outdated CPCNO allocations** 

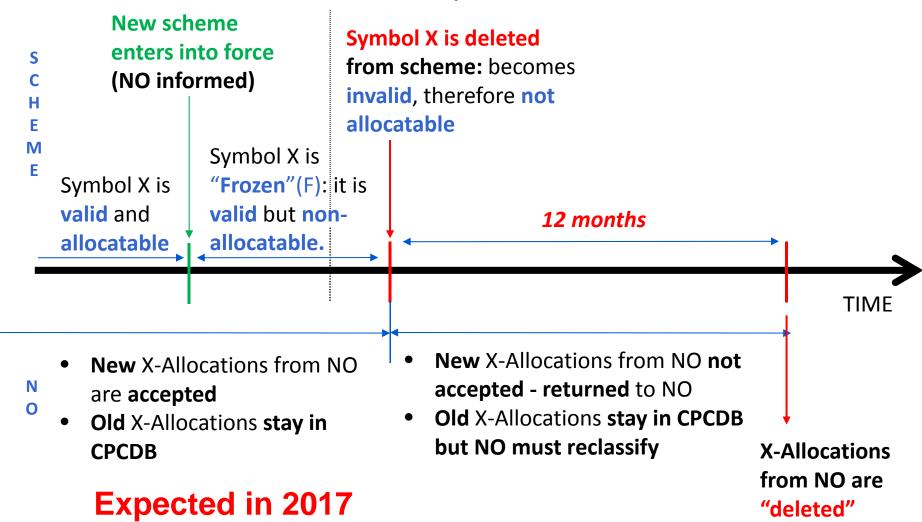




#### **Expiration of outdated CPCNO allocations**

Situation: following a CPC revision, symbol X is to be deleted from the CPC scheme

#### **EPO/USPTO** reclassification completed







#### **Expiration of outdated CPC allocations (cont'd)**

There are many CPC scheme revisions

 Classification needs to be made using the CPC version in force at the time of classification

What to do with outdated CPCNO allocations?

 An Invalid CPCNO allocation WILL be deleted from CPCDB 12 months from the date a symbol is deleted from the scheme





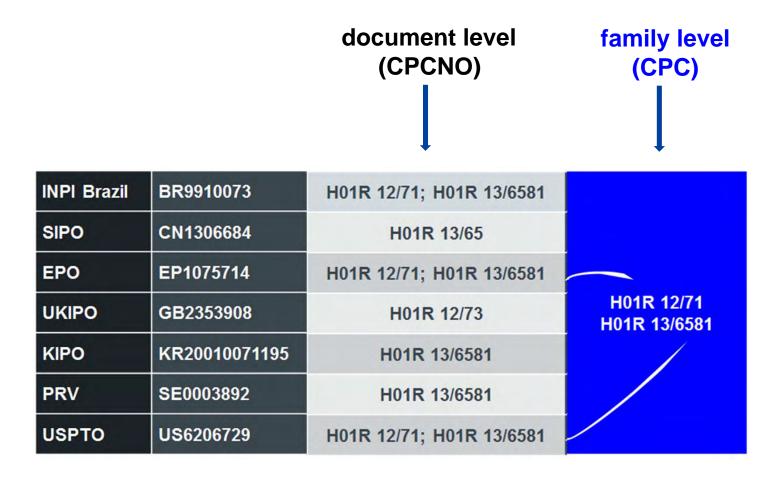
## **Future developments**

A new approach for CPCNO data (CPC-INT project)





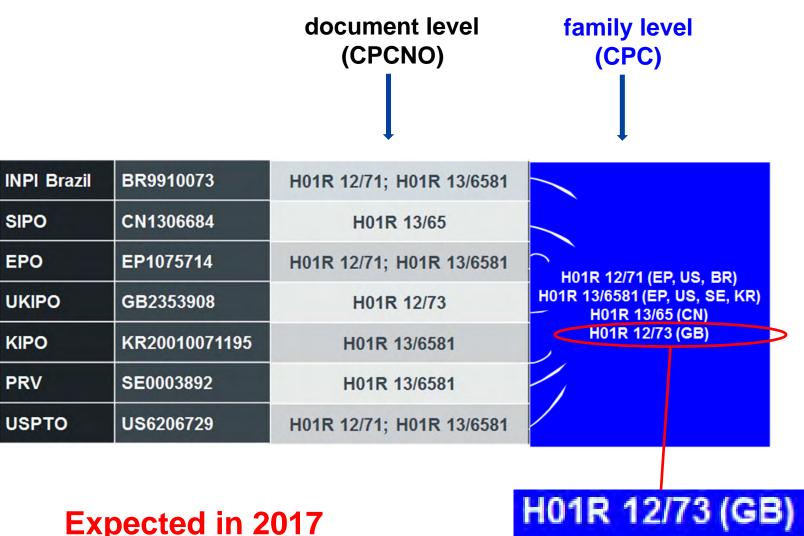
## **CPC-INT:** current picture







## **CPC-INT:** future picture



**Expected in 2017** 





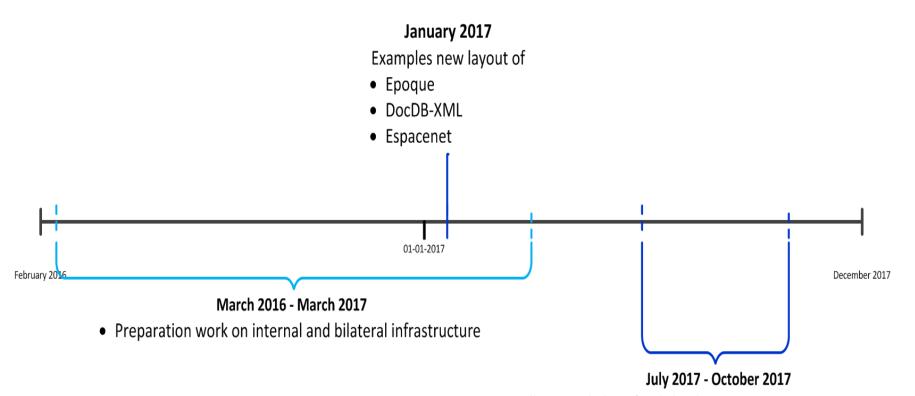
#### **CPC-INT:** work in progress

- Requirements for the display of CPC allocations in Epoque and Espacenet are currently collected from the user community
- All internal and external systems that are requiring adaptions are evaluated in view of the planning
- New bilateral infrastructure between USPTO and EPO to support the equal level of all CPC allocations is in preparation – National Offices to connect





## **EPO CPC-INT roadmap**



- All CPC symbols on family level in Espacenet, Epoquenet, DocDB-XML
- New rules on expiring outdated CPC symbols into force





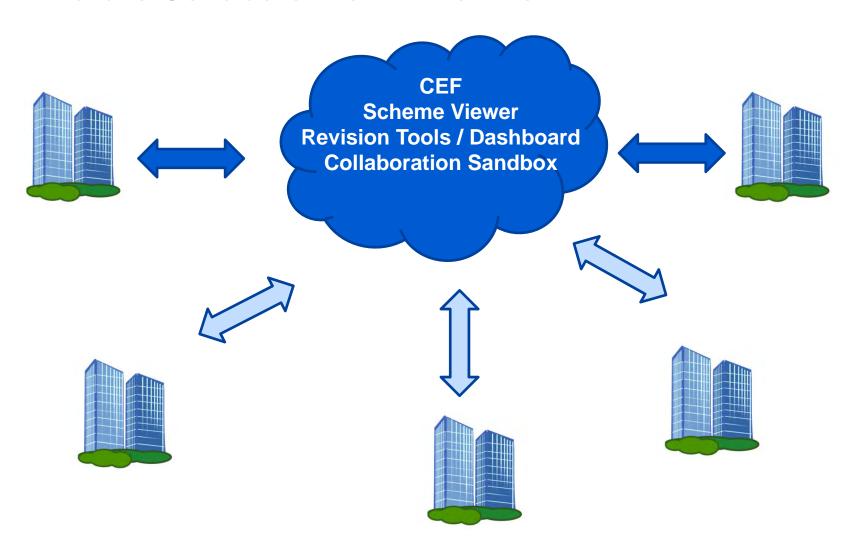
# **Future developments**

**New Collaborative Environment** 





#### **Future Collaborative Environment**







# **Future developments**

**Machine readable products** 





#### **CPC Products after CPC revisions**

Products will be delivered in a **machine-readable** format, e.g. XML (available on <a href="www.cpcinfo.org">www.cpcinfo.org</a>)

- RCL (Revision Concordance List)
- CRL (Cross-Reference List)
- CICL (CPC-to-IPC Concordance List)
- Compilation of changes
- Validity File

#### All expected in second half of 2016

#### Additionally:

 New CPC XML schema – expected to be implemented in November 2016 CPC release





# **CPC Training for National Offices**





#### **CPC Training by USPTO**

- Bilateral consultation
  - Examiner(s)/Classifier(s) focused workshop/training environment
  - training material
  - timeline for the training
  - Specific feedback contact USPTO Classification team (CQIC Classification Quality and International Coordination Division)





#### **CPC Training by USPTO (Con.)**

- Customize unique technical expert training for each office (at USPTO or National Office location)
  - General training
  - Master level training
  - Advanced training in specific technical field
  - Field-Specific Training (FST) on CPC Scheme/Definitions
     (http://ptoweb.uspto.gov/patents/cpc/fst.html)
  - Computer Based Training (CBT) e-learning modules
     (http://www.uspto.gov/patents/resources/classification/CPC Training.jsp)





#### **CPC** training provided by **EPO**

- CPC scheme + Notes + Warnings + Definitions
- New training e-learning modules by the EPO European Patent Academy on the cpcinfo.org website (January 2016):
  - Using CPC in classification
  - Practical and strategical aspects of the CPC
  - e-learning modules on USPTO's website:
     <a href="http://www.uspto.gov/patents/resources/classification/CPC\_Training.jsp">http://www.uspto.gov/patents/resources/classification/CPC\_Training.jsp</a>
- Field-specific training (FST) videos
  - For training patent examiners at patent offices classifying into CPC:
     go to Epoxy

https://epoxy.epo.org/?d=cpcvideo&p=2324,106,2296





#### **CPC Training in 2016 (EPO)**

- New training **e-learning modules** by the EPO European Patent Academy on the cpcinfo.org website (January 2016):
  - Using CPC in classification
  - Practical and strategical aspects of the CPC
- CPC General and Advanced Training Event for National Offices (EPO member states and non member states) applying CPC (EPO The Hague, 1-2 June 2016)
- Possibly second CPC General and Advanced Training Event (EPO, Q3/Q4 2016)
- Field-specific Training for a limited number of National Offices (according to bilateral agreements) on EPO premises





# **CPC Quality Measures**





## **CPC Objective Quality Metrics tool – USPTO**

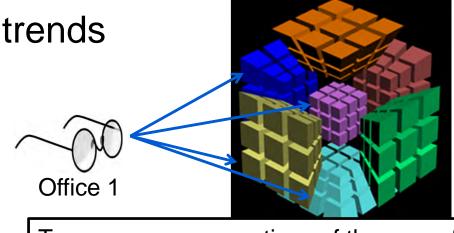




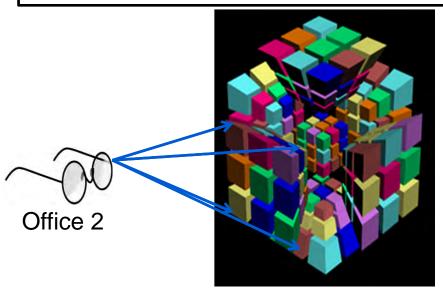
#### Purpose:

Identify classification trends between Offices

- Convergence
- Divergence
- Under-classification
- Over-Classification

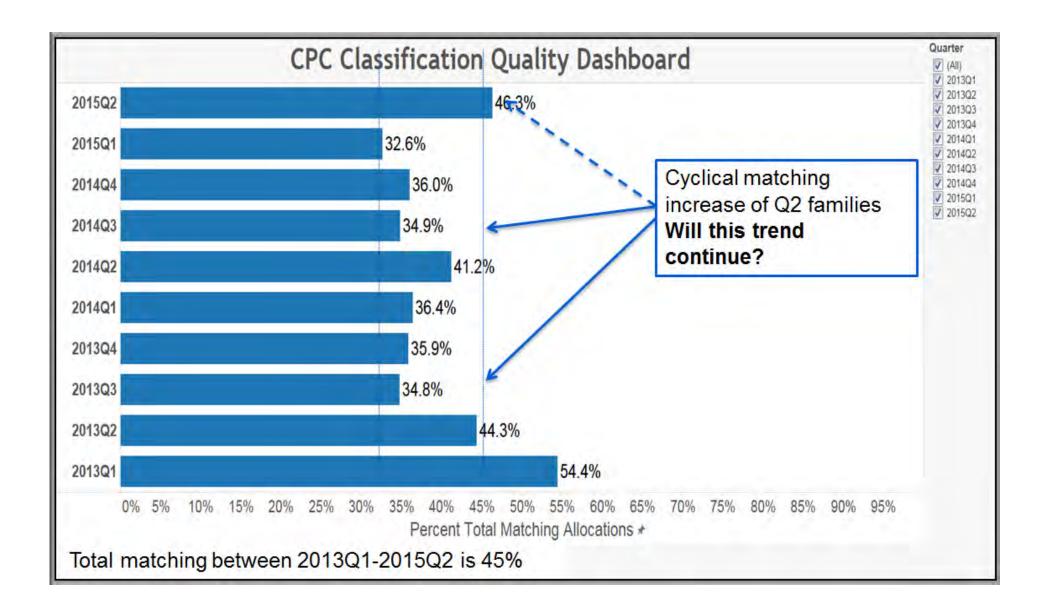


Two or more perspectives of the same family



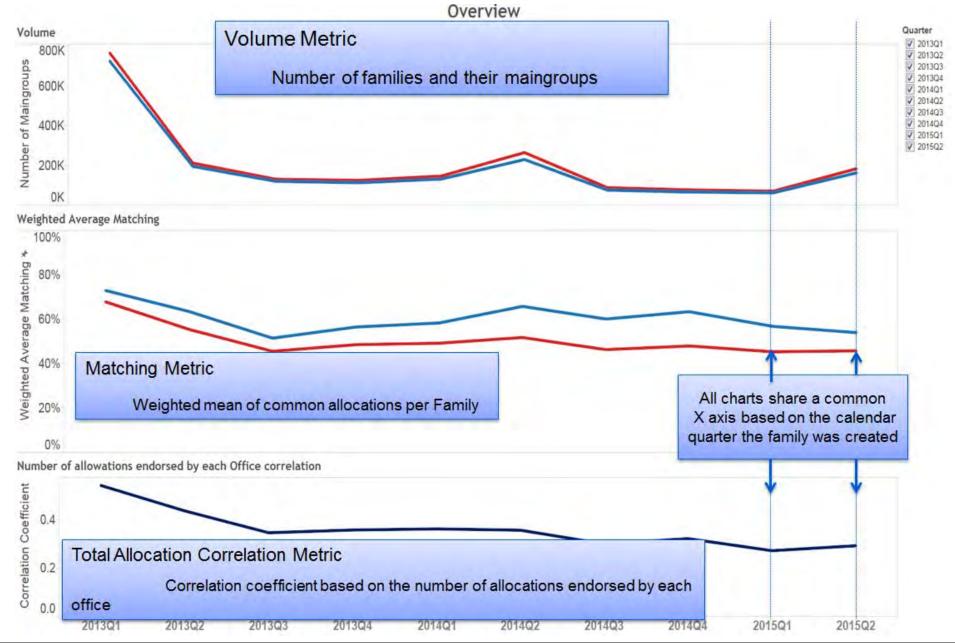








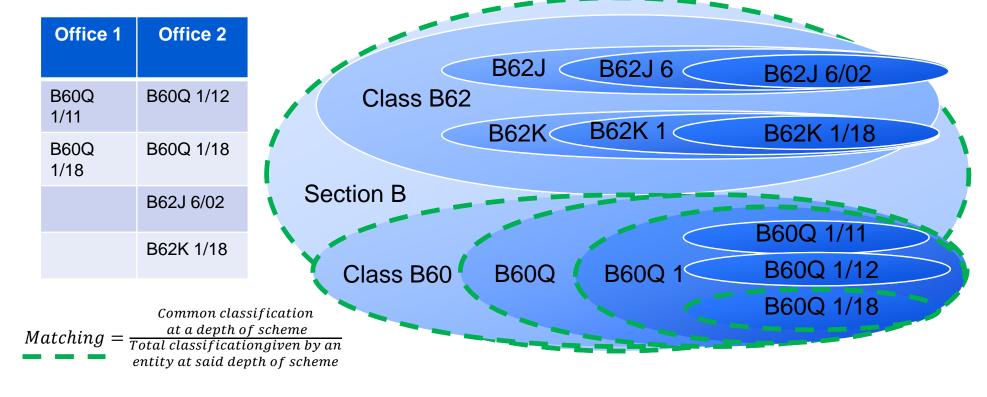


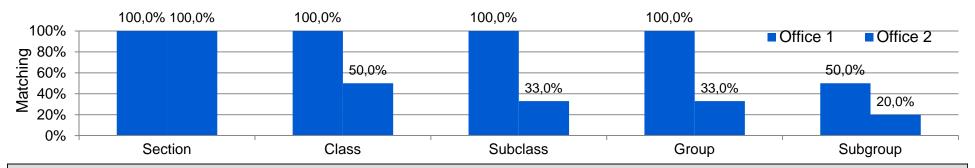






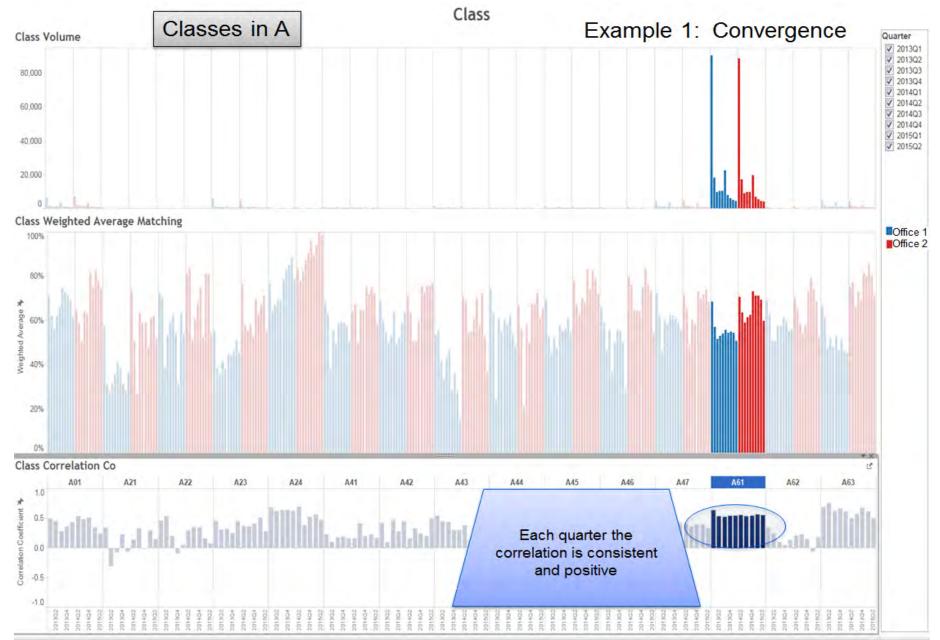
# Matching Inventive Symbols for a Family





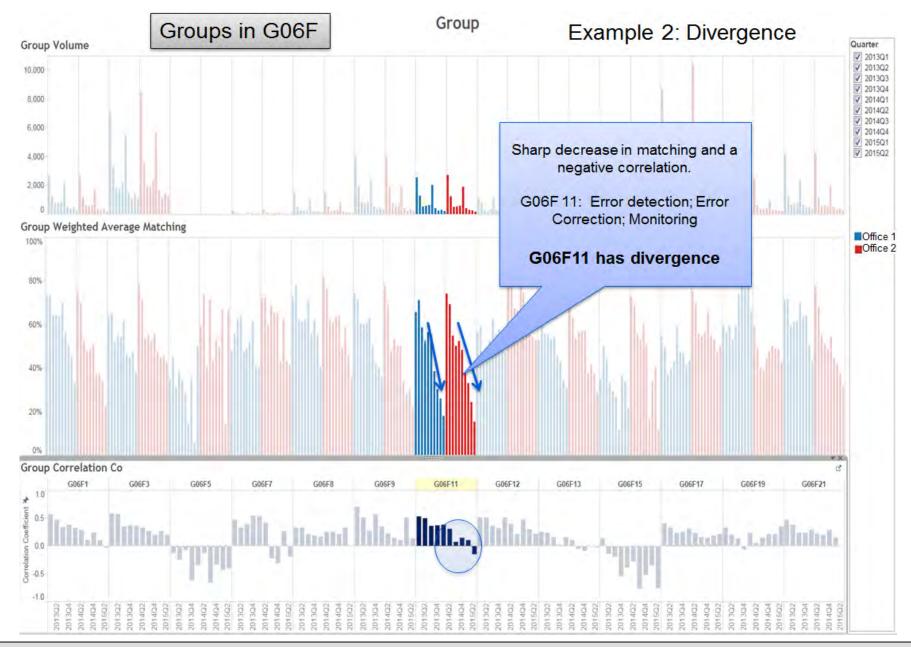






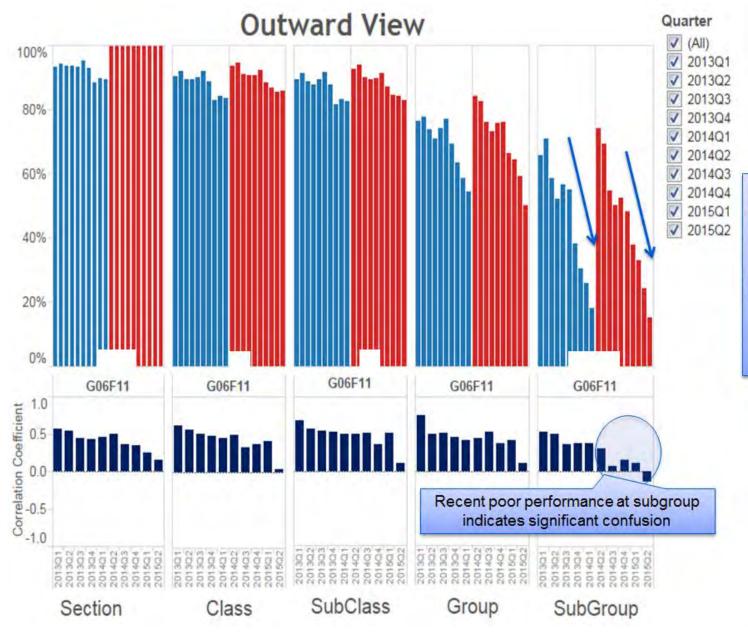












- Divergence accelerates from group to subgroup.
- Intellectual problem resolution should begin at subgroup level





## **EPO Quality Measures**





#### **CPC Field-Specific Training "Follow-ups"**

- Classification of family members by National Office
- Checks by the EPO technical experts
- Feedback sent to the National Office

> Promote interaction, e.g. via e-mail or telephone





# **CPC Quality Assurance for National Offices: Automated Comparison of Documents' Classification (ACDC)**

- Objective method to compare the allocations provided by two Offices (OF1 and OF2), to members of the same patent family.
- OF1 allocations and OF2 allocations on families are compared
- All families which have an earliest family member published in a particular month and which has at least one OF1 allocation and at least one OF2 allocation, are compared.
- The symbols allocated are **sorted per technical field** (according to an established list) and the calculations are performed only per technical field, ignoring the other symbols of other fields.





#### **Parameters**

- The parameters measured are the number of shared allocations per family (allocated by OF1 and OF2), divided by either the total number of OF1 allocations or the number of OF2 allocations.
- Looking at the situation from the viewpoint of <u>OF1</u>:
  - The number of shared allocations divided by the allocations given by OF1 is a parameter for completeness
  - The number of shared allocations divided by the allocations given by OF2 is a parameter for correctness
- Looking at it from the viewpoint of <u>OF2</u> it would be the other way around
- Parameters are measured at different levels: Main Group,
   Subgroup, 2000 series, etc.





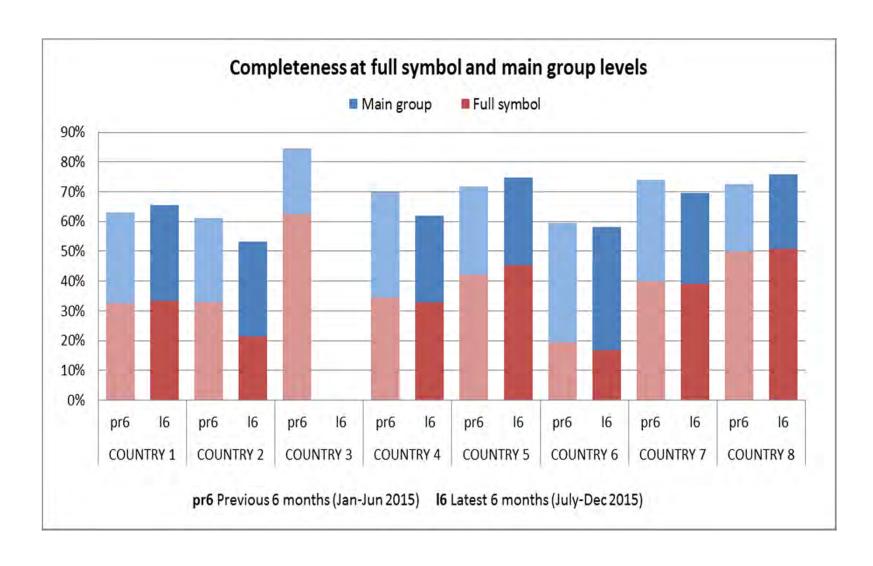
#### **Example**

- A patent family with document A classified by OF1 and document B
   classified by OF2
- Document A (OF1): 5 allocations
  - F21K9/00, H01L23/3675, H01L25/167, H05B33/0803, H05K1/0203
- Document B (OF2): 4 allocations
  - F21K9/00, H01L23/3675, H01L25/167, H05K1/02
- Shared: 3 allocations
- Looking from side of OF1 (OF1 is the benchmark):
  - completeness = 60% (3 out of 5)
  - correctness = 75% (3 out of 4)
- Looking from side of OF2 (OF2 is the benchmark):
  - completeness = 75% (3 out of 4)
  - correctness = 60% (3 out of 5)





#### **Example of Quality Report for National Offices**





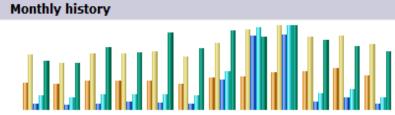


# Statistics on the usage of the www.cpcinfo.org

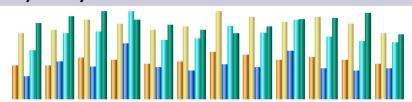




#### Monthly traffic history 2015 vs. 2014



#### **Monthly history**



Month	Unique visitors	Number of visits	Pages	Hits	Bandwidth	Month	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Jan 2014	8596	17272	62799	138509	30.13 GB	Jan 2015	11418	22643	67205	143497	38.73 GB
Feb 2014	8238	15049	46416	119988	28.58 GB	Feb 2015	11629	24064	109214	189951	41.98 GB
Mar 2014	9433	17917	60180	145654	38.10 GB	Mar 2015	14083	27207	95053	196218	44.39 GB
Apr 2014	9173	17829	75972	150526	35.12 GB	Apr 2015	13397	26036	161462	254442	40.35 GB
May 2014	9235	18526	66567	150475	47.37 GB	May 2015	12352	24080	91297	172263	37.71 GB
Jun 2014	8196	16886	58249	141420	37.50 GB	Jun 2015	12779	24837	84715	176190	35.38 GB
Jul 2014	10390	21267	292727	380047	48.26 GB	Jul 2015	16209	30108	101562	213090	33.50 GB
Aug 2014	10595	25382	716524	787741	44.48 GB	Aug 2015	15189	28170	91202	192409	36.62 GB
Sep 2014	11702	26739	726029	814612	51.54 GB	Sep 2015	13554	26622	140573	230482	40.83 GB
Oct 2014	12348	23091	72567	162734	42.48 GB	Oct 2015	14455	28242	88134	181119	41.17 GB
Nov 2014	13095	23619	122644	203377	38.41 GB	Nov 2015	13430	25829	82196	166837	43.81 GB
Dec 2014	10923	21061	60339	124414	35.53 GB	Dec 2015	12094	22688	89678	166652	32.87 GB
Total	121924	244638	2361013	3319497	477.50 GB	Total	160589	310526	1202291	2283150	467.34 GB

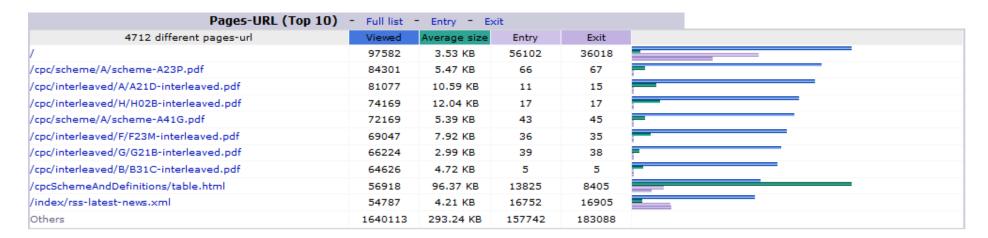
- Number of unique visitors keeps increasing
  - + 40,000 w.r.t. 2014 i.e. +30%
- Bandwidth usage stable at about 40 GB per month



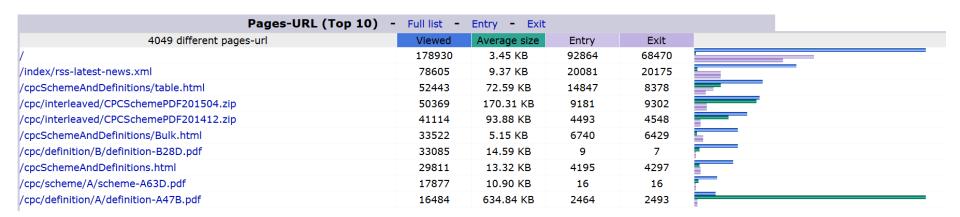


#### Top 10 URLs 2015 vs. 2014

#### 



#### 







## **Origins of connections**

		Conn	ect to s	site fro				
			Orig	igin	Pages	Percent	Hits	Percent
Direct address / Bookmarks					675359	77.7 %	728666	78.8 %
inks from a NewsG	Group							
Links from an Inter	net Search I	Engine - Full list			120792	13.9 %	121349	13.1 %
- Google	115595	5 116152						
- Ask	2243	2243						
- Baidu	817	817						
- Sogou	728	728						
- Yahoo!	626	626						
- Yandex	324	324						
- Unknown search en	gines 283	283						
- My Search	71	71						
- AOL	51	51						
- MyWebSearch	15	15						
- Others	39	39						
Links from an exter	nal page (o	ther web sites except search er	gines) - F	Full list	72356	8.3 %	74600	8 %
<ul><li>http://worldwide.es</li></ul>	pacenet.com	/classification	28725 2	28725				
- http://www.uspto.gov/patents-application-process/patent-search/c			6198	6198				
- http://worldwide.espacenet.com/searchResults				3789				
- http://ptoweb.uspto.gov/patents/cpc/tools.html				3315				
- http://worldwide.espacenet.com/publicationDetails/biblio				2636				
- http://www.epo.org/searching/essentials/classification/cpc.html			1298	1298				
- http://www.bing.co	m/search		965	965				
- http://www.uspto.g	JOV		938	938				
- http://usptopat/site	es/TechCtrs/c	pc/default.aspx	787	787				
- http://my.internal.e	epo.org/porta	l/private/epo/organisation/strat	734	734				
- Others			22971 2	25215				
Unknown Origin					82	0 %	86	0 %





# Thank you for your attention!

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