

# GLOBAL DOSSIER – 5 PRIORITIES

## *Preliminary Results of IP5 ANS pilot project*

IP5 WG2 Meeting | 30 January 2018 | Tokyo



Korean Intellectual Property Office

# **1. Overview**

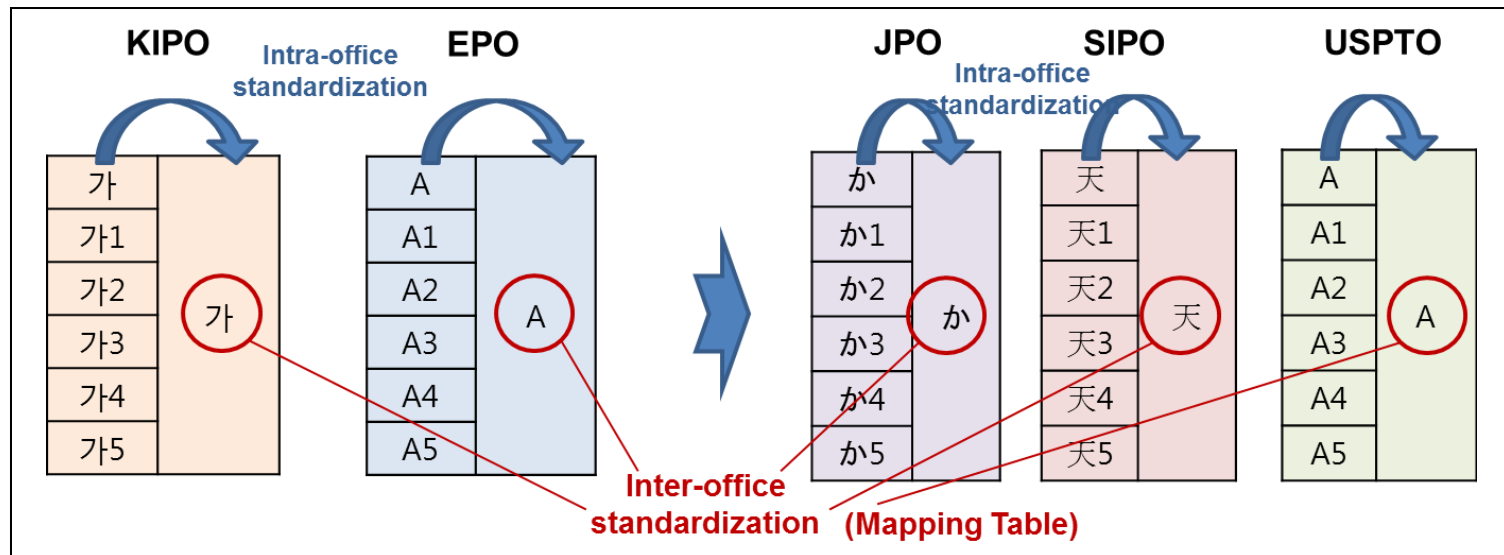
# Recent progress

- ❖ **Enhanced scope document for Applicant Name Standardization(ANS)** was endorsed | Heads Meeting (Jun. 2016)
- ❖ KIPO completed its **intra-standardization for foreign company names** in 2016
- ❖ IP5 Offices agreed to conducting an **ANS pilot project with 20 companies** | DHs Meeting (Apr. 2017)
- ❖ The **status report on ANS** was submitted to **WIPO CWS** in May 2017 | Agreed at DHs Meeting (Apr. 2017)

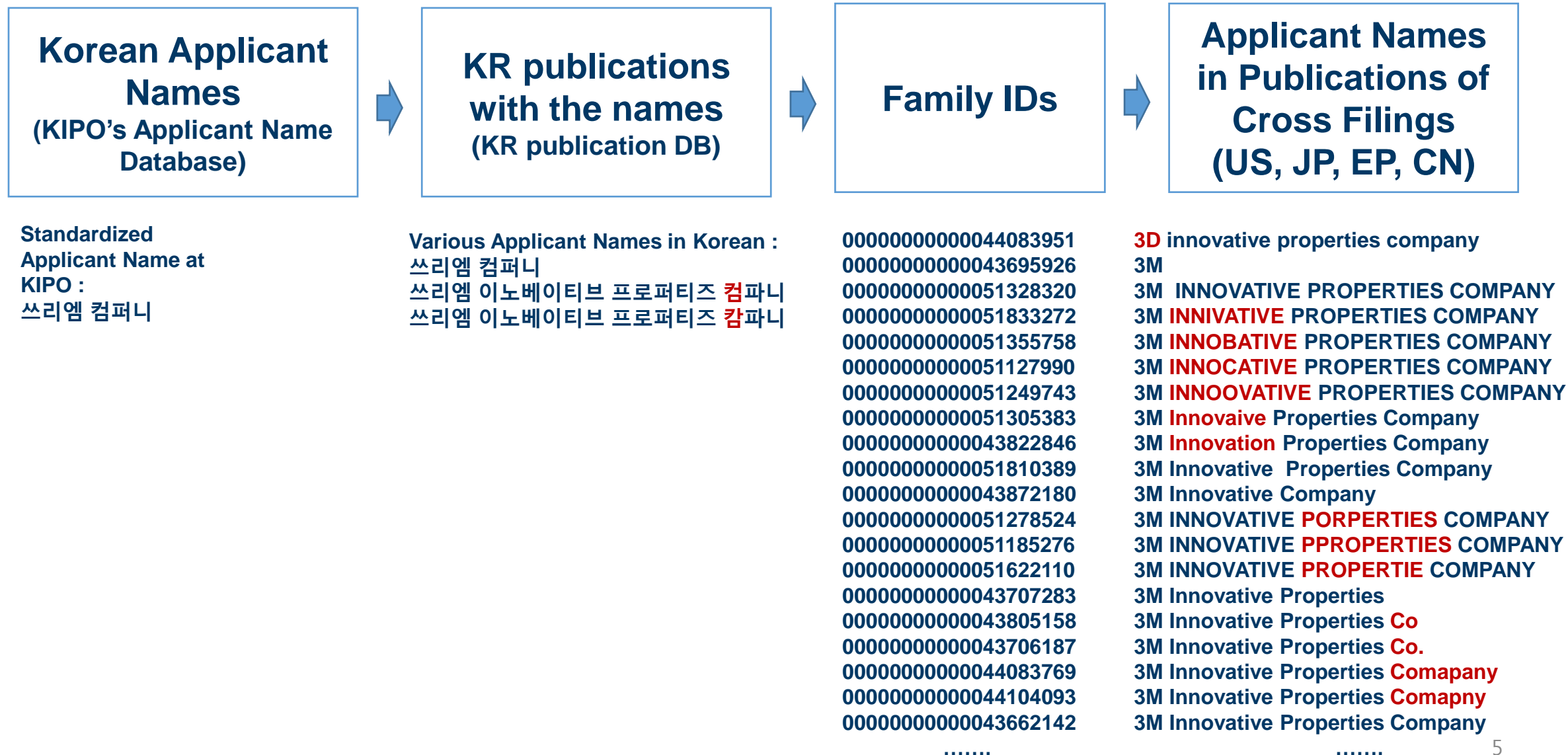
# ANS Pilot Project

## ❖ Objectives

- To **check the feasibility** of intra-standardization and inter-standardization with patent family information
- To develop and verify **algorithm of ANS automation** to minimize manual jobs
- To **build a sample mapping table** of international applicant names



# ANS Pilot Project : Approach of the Analysis



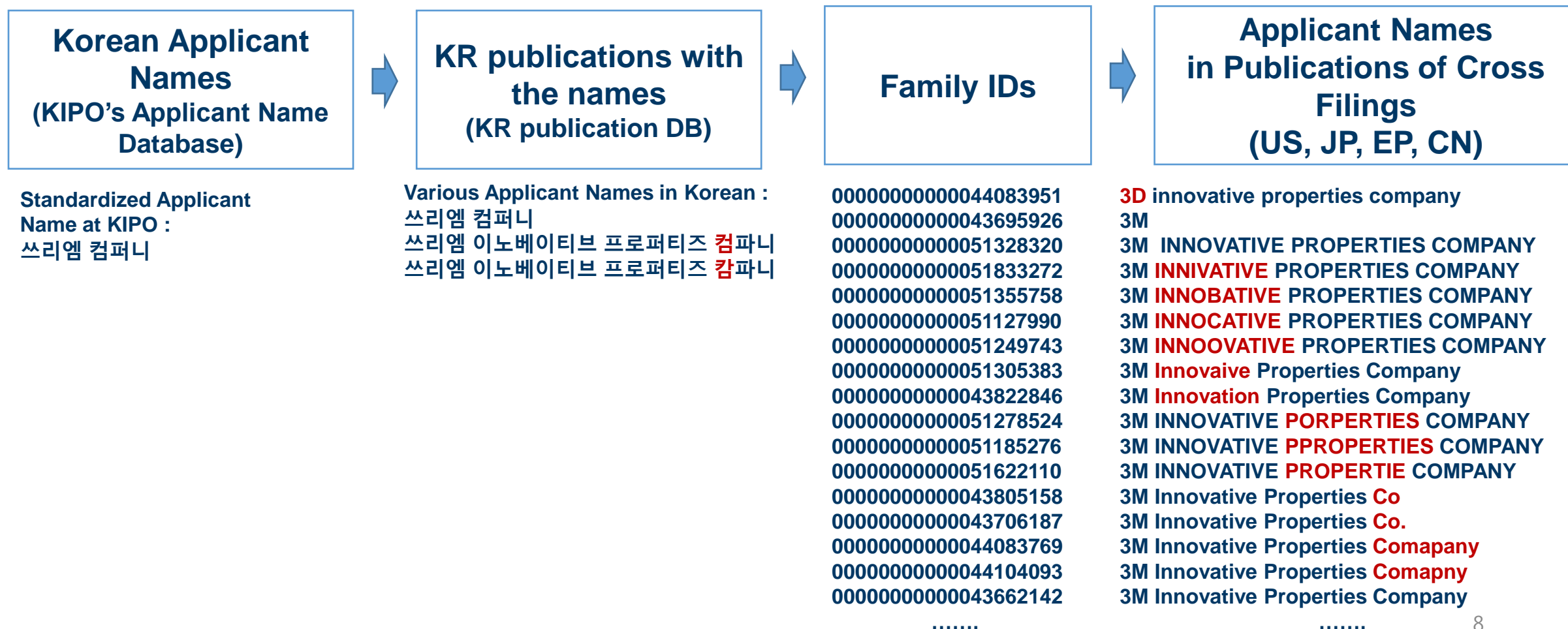
## **2. Method of Analysis**

# Considerations for Analysis

- ❖ **KIPO's IP5 publication DB**(for prior art search system) and KIPO standardized applicant name DB
- ❖ Publication data between 2005~2015 for the 1<sup>st</sup> analysis
  - Publication data with only one applicant
- ❖ Statistic Approach to review an algorithm for ANS automation
  - The primary applicant name : the highest number of applicant names in publications
  - Address comparison with the addresses of the primary applicant name
  - Linking applicant names in EPO publications with those in other offices' publications

# Common Analysis : 1<sup>st</sup> Analysis (1)

(1) Basic publication data extraction using Korean applicant's name DB, family IDs, IP5 publication data





# Common Analysis : 1<sup>st</sup> Analysis (2)

Country code	Pub. Num	Pub. Date	Appl. Num	Appl. Date	Doc Type	Family ID	Applicant Name	Applicant Address
EP	02014402	20090114	07011625.6	20070613	A	00000000000043667221	SIEMENS AKTIENGESELLSCHAFT	Wittelsbacherplatz 2 80333 Munchen DE
EP	01937513	20080702	06793840.7	20060926	A	00000000000043671534	Continental Automotive GmbH	Vahrenwalder Strasse 9 30165 Hannover DE
EP	02461515	20120606	12150589.5	20050902	A	00000000000043713972	Siemens AG	Postfach 22 16 34
EP	01714216	20061025	05797756.3	20050924	A	00000000000043822424	Siemens AG	Wittelsbacherplatz 2 80333 Munchen DE
EP	01938398	20080702	06778379.5	20060828	A	00000000000043876715	OSRAM Opto Semiconductors GmbH	Leibnitzstrasse 4 93055 Regensburg DE
EP	01881650	20080123	07021723.7	20050602	A	00000000000043908715	Siemens Home and Office Communication Devices GmbH & Co. KG	Hofmannstrasse 61 81379 Munchen DE
EP	01959227	20101222	07150011.0	20071213	A	00000000000043962115	Mahner, Bernward	Landsberger Strasse 51
EP	01977044	20081008	07711140.9	20070110	A	00000000000043962115	ThyssenKrupp Transrapid GmbH	Henschelplatz 1 34127 Kassel DE
...	...	...	...	...	...	...	...	....

# Common Analysis : 1<sup>st</sup> Analysis (3)

(2) Assign the primary applicant name and the list of its addresses with a statistic approach

Applicant Name		Number of applications
3M Innovative Properties Company		3255
3M Innovative Properties Co.		106
MINNESOTA MINING AND MANUFACTURING COMPANY		74
3M Innovative Properties Company of 3M Center		9
Biophan Technologies, Inc.		6
Paice LLC		5
Whitland Research Limited	4	
Medtronic, Inc.	4	
Koninklijke Philips Electronics N.V.	3	
President, Kyoto University	2	
MEDRAD, INC.	2	
ALLERGAN, INC.	2	
Linear Technology Corporation	2	
Cuno Incorporated	2	
The University of New Mexico	2	
....	....	

Applicant address		Number of applications
3M Center Post Office Box 33427		1668
3M Center, Post Office Box 33427 Saint Paul, MN 55133-3427 US		336
3M Center, P.O. Box 33427 St. Paul, MN 55133-3427 US		328
3M Center P.O.Box 33427 St. Paul MN 55133-3427 US		214
3M Center P.O.Box 33427		101
3M Center, </BR>P.O. Box 33427 St. Paul, MN 55133-3427 US		92
3M Center, </BR>P.O. Box 33427 Saint Paul, MN 55133-3427 US		80
Office of Intellectual Property Counsel 3M Center, Post Office Box 33427 Saint Paul MN 55133-3427 US		59
3M Center, P.O. Box 33427 St. Paul, MN 55133-3427 US		54
3M Center,P.O. Box 33427 St. Paul, MN 55133-3427 US		48
PO Box 33427		42
P.O.Box 33427 St. Paul, Minnesota 55133-3427 US		35
P.O. Box 33427		30
3M Center P.O. Box 33427		30
3M Center P.O.Box 33427, St. Paul MN 55133-3427		15
3M Center		15
3M Center, P.O. Box 33427 Saint Paul, Minnesota 55133-3427 US		14
3M Center, </BR> P.O. Box 33427 St. Paul, MN 55133-3427 US		11
P.O.Box 33427 St. Paul, </BR>Minnesota 55133-3427 US		10
...		10 ...

# Limitations of the 1<sup>st</sup> Analysis (1)

## ❖ a small number of publications with a certain applicant name extracted from Family IDs

- Address comparison(EPO, JPO) is **not statistically meaningful** if the number of publications with a certain applicant name is small

Applicant Name	Number of applications
3M Innovative Properties Company	3255
3M Innovative Properties Co.	106
MINNESOTA MINING AND MANUFACTURING COMPANY	74
3M Innovative Properties Company of 3M Center	9
Biophan Technologies, Inc.	6
Paice LLC	5
Whitland Research Limited	4
Medtronic, Inc.	4
Koninklijke Philips Electronics N.V.	3
President, Kyoto University	2
MEDRAD, INC.	2
ALLERGAN, INC.	2
Linear Technology Corporation	2
Cuno Incorporated	2
The University of New Mexico	2
....	....

Applicant name	Address	Number of publications
3M Innovative Properties Company of 3M Center	P.O. Box 33427	9
	Suite 215, 150 Lucius Gordon Drive West Henrietta, NY 14586 US	4
Biophan Technologies, Inc.	Suite 215, </BR>150 Lucius Gordon Drive West Henrietta, NY 14586 US	1
	15 Schoen Place Pittsford, NY 14534 US	1
	6830 Elm Street McLean, Virginia 22101 US	2
Paice LLC	22957 Shady Knoll Drive Bonita Springs, FL 34135 US	2
	22957 Shady Knoll Drive	1
	Whitland Abbey Whitland, </BR>Dyfed SA34 0LG GB	1
Whitland Research Limited	Whitland Abbey Whitland, </BR>Carmar SA34 0LG GB	1
	Whitland Abbey Whitland, Dyfed SA34 0LG GB	1
	Whitland Abbey Whitland,Dyfed SA34 0LG GB	1
Medtronic, Inc.	710 Medtronic Parkway NE	3
	710 Medtronic Parkway N.E.	1
Koninklijke Philips Electronics N.V.	Groenewoudseweg 1	3
President, Kyoto University	36-1, Yoshida-Honmachi, </BR> Sakyo-ku Kyoto 606-8501 JP	2
MEDRAD, INC.	One Medrad Drive Indianola, PA 15051 US	1
	One Medrad Drive	1
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# Limitations of the 1<sup>st</sup> Analysis (2)

## ❖ Insufficient information to identify the sameness of applicant names

- Not enough address information in SIPO publications
- No address information in USPTO publications

→ Other factors to identify the sameness of applicant names are required !!

# Limitations of the 1<sup>st</sup> Analysis (3)

❖ different companies, but same addresses

Applicant name	Address	Number of Publications
LG Chem, Ltd.	20, Yoido-dong	643
	20, Yoido-dong Youngdungpo-gu, Seoul 150-721 KR	248
LG Electronics Inc.	20 Yeouido-dong Yeongdeungpo-gu	1
	20 Yeouido-dong Yeongdeungpo-ku	1
	20, Yoido-Dong Yongdungpo-Gu	1
LG Hausys, Ltd.	20, Yeouido-dong Yeongdeungpo-gu	1
	20, Yoido-dong	2

→ Intelligent methods to distinguish three companies !!!

# Additional Analysis : 2<sup>nd</sup> Analysis (1)

## ❖ 2nd analysis for EPO & JPO publications(compare with address info)

- (Objective) to extract potentially same applicant names by comparing their addresses with addresses of the primary applicant name
- (Method) extract address information having the applicant names who are detected at the 1<sup>st</sup> analysis from KIPO's IP5 publication DB → compare additionally extracted addresses for each applicant name with addresses of the primary applicant name

# Additional Analysis : 2<sup>nd</sup> Analysis (2)

## 3M : EP case

The primary applicant name :  
3M Innovative Properties Company

The same addresses as those of  
the primary applicant name

Potentially same applicant name  
as the primary applicant name

MINNESOTA MINING AND MANUFACTURING COMPANY

Applicant name	Address	Number of Publications
Koninklijke Philips Electronics N.V.	Groenewoudseweg 1 5621 BA Eindhoven NL	13560
	Groenewoudseweg 1	3718
	Groenewoudseweg 1, 5621 BA Eindhoven	1942
	Groenewoudseweg 1 5621 BA Eindhoven NL	
	Groenewoudseweg 1,5621 BA Eindhoven;NL	
	High Tech Campus 5	
	High Tech Campus 44	
	Groenewoudseweg 1, 5621 BA Eindhoven	7
	High Tech Campus 44 P.O. Box 220	1
	High Tech Campus 44 5656 AE Eindhoven NL	1
MINNESOTA MINING AND MANUFACTURING COMPANY	3M Center, P.O. Box 33427 St. Paul, Minnesota 55133-3427 US	1921
	3M Center, P.O. Box 33427, St. Paul, Minnesota 55133-3427	1741
	3M Center, </BR>P.O. Box 33427 St. Paul, </BR>Minnesota 55133-3427 US	581
	(Empty)	419
	3M Center,P.O. Box 33427	365
	3M Center, P.O. Box 33427 St. Paul, Minnesota 55133-3427 US	363
	3M Center, </BR> P.O. Box 33427 St. Paul, </BR> Minnesota 55133-3427 US	153
	3M Center, P.O. Box 33427 St. Paul, Minnesota 55133-3427 US	125
	<ctry>US</ctry>	76
	P.O. Box 33427 St. Paul, Minnesota 55133-3427 US	66
	3M Center St. Paul, Minnesota 55101 US	46
	3M Center, P.O. Box 33427, St. Paul, Minnesota 55133-3427	46
	3M Center St. Paul, Minnesota 55101 US	30
	3M Center, P.O. Box 33427 St. Paul, Minnesota 55133-3427 US	22
	3M Center, St. Paul, Minnesota 55101	18
	3M Center, P.O. Box 33427	18
	P.O. Box 33427 St. Paul, </BR> Minnesota 55133-3427 US	17
	3M Center, P.O. Box 33427, 2501 Hudson Road, Building 220, 12W01 St. Paul, Min	17
	3M Center Saint Paul Minnesota 55144-1000 US	17
	P.O. Box 33427, St. Paul, Minnesota 55133-3427	16
	3M Center	14
	P.O. Box 33427 St. Paul, Minnesota 55133-3427 US	13
	*****	****
	*****	****

# Additional Analysis : 2<sup>nd</sup> Analysis (3)

the list of potentially same applicant names  
as the primary applicant name

The primary applicant name :  
3M Innovative Properties Company

Applicant name	Number of publications	Number of publications having the same address as that of the primary applicant's address	Potentially same applicant name
MINNESOTA MINING AND MANUFACTURING COMPANY	6195	5661	o
ADC Telecommunications, Inc.	316	14	x
3M Innovative Properties Co.	155	155	o
3M Innovative Properties Company of 3M Center	19	19	o
3M COMPANY	13	13	o
Koninklijke Philips Electronics N.V.	20462	0	x
Honeywell International Inc.	7241	0	x
SEIKO EPSON CORPORATION	6012	0	x
Delphi Technologies, Inc.	5737	0	x
Applied Materials, Inc.	1851	0	x
Dow Global Technologies LLC	1807	0	x
E. I. du Pont de Nemours and Company	1678	0	x
L'Oreal	1557	0	x
The Regents of the University of California	1354	0	x
Syngenta Participations AG	1106	0	x
****	****	****	...



# Additional Analysis : 2<sup>nd</sup> Analysis (4)

## ❖ 2<sup>nd</sup> analysis for SIPO and USPTO publications(connecting with EPO's applicant name)

- (Objective) to extract potentially same applicant names by linking English applicant names in EPO publications with applicant names in SIPO & USPTO publications
- (Method) extract applicant names from EPO publications having family IDs which are detected by the 1<sup>st</sup> analysis → guess English applicant names for applicant names in SIPO & USPTO publications → compare the primary applicant name and the list of potential applicant names from the 2<sup>nd</sup> analysis

# Additional Analysis : 2<sup>nd</sup> Analysis (5)

## 3M : CN case

Country code	Pub. Num	Pub. Date	Pub. Type	Appl. Num	Appl. Date	Appl. Type	Family ID	Applicant Name	Applicant Address
CN	1036276	19891011	A	88109194	19881104	A	00000000000044066777	纳幕尔杜邦公司	美国特拉华州
CN	1033220	19890531	A	88107764	19881108	A	00000000000044195707	洛雷斯公司	美国纽约州
CN	1036362	19891018	A	88109221	19881126	A	00000000000043738470	精工爱普生株式会社	日本东京都
CN	1036908	19891108	A	88103617	19880518	A	00000000000044195626	纳幕尔杜邦公司	美国特拉华州
CN	1039499	19900207	A	89104907	19890715	A	00000000000044206754	住友电装株式会社	日本三重县四日市
CN	1003465	19860924	A	86101414	19860311	A	00000000000044027796	纳幕尔杜邦公司	美国特拉华州威尔明顿
CN	1016295	19880210	C	86108128	19861129	A	00000000000045333876	明尼苏达州采矿制造公司	美国明尼苏达州
CN	1043514	19900704	C	89108364	19891007	A	00000000000043874058	住友电装株式会社	日本三重县
...	...	...	...	...	...	...	...	...	...



Country code	Pub. Num	Pub. Date	Pub. Type	Appl. Num	Appl. Date	Appl. Type	Family ID	Applicant Name	Applicant Address
EP	00315121	19890510	A3	88118175.4	19881101	A	00000000000044066777	E.I. DU PONT DE NEMOURS AND COMPANY	1007 Market Street Wilmington Delaware 19898 US
EP	00316741	19890524	A2	88118641.5	19881109	A	00000000000044195707	W.R. Grace & Co.-Conn.	Grace Plaza, 1114 Avenue of the Americas New York, New York 10036 US
EP	00336043	19891011	A2	88311202.1	19881125	A	00000000000043738470	SEIKO EPSON CORPORATION	4-1, Nishishinjuku 2-chome Shinjuku-ku Tokyo-to JP
EP	00336999	19891018	A3	88107943.8	19880518	A	00000000000044195626	SAIR LIQUIDE, SOCIETE ANONYME POUR	75, Quai d'Orsay F-75321 Paris C@dex 07 FR
EP	00352049	19900124	A1	89307229.8	19890717	A	00000000000044206754	Sumitomo Wiring Systems, Ltd.	1-14, Nishisuehiro-cho Yokkaichi-shi Mie-ken JP
EP	0194774	19860917	A1	1986301260	19860221	A	00000000000044027796	ETI EXPLOSIVES	Toronto Dominion Centre, IBM Tower, Ste. 2904, Toronto, Ontario M5K 1A2
EP	00254785	19880203	A2	86308029.7	19861016	A	00000000000045333876	MINNESOTA MINING AND MANUFACTURING COMPANY	3M Center, P.O. Box 33427 St. Paul, Minnesota 55133-3427 US
EP	00362872	19900411	A3	89118593.6	19891006	A	00000000000043874058	SUMITOMO WIRING SYSTEMS, LTD.	1-14, Nishisuehiro-cho Yokkaichi City Mie 510 JP
...	...	...	...	...	...	...	...	...	...

# Additional Analysis : 2<sup>nd</sup> Analysis (6)

Applicant Name in SIPO publications	Corresponding Applicant name in EPO publications	Number of publications	Potentially same applicant name
美国3M公司	MINNESOTA MINING AND MANUFACTURING COMPANY	1017	o
明尼苏达州采矿制造公司	MINNESOTA MINING AND MANUFACTURING COMPANY	116	o
3M新设资产公司	3M Innovative Properties Company	5	o
3M 创新有限公司	3M Innovative Properties Company	3	o
3M创新产权公司	3M Innovative Properties Company	1	o
3M中国有限公司	3M Innovative Properties Company	1	o
威福公司	3M Innovative Properties Company	1	o
皇家飞利浦电子股份有限公司	Koninklijke Philips Electronics N.V.	7581	x
精工爱普生株式会社	SEIKO EPSON CORPORATION	4769	x
纳幕尔杜邦公司	E.I. DU PONT DE NEMOURS AND COMPANY	2051	x
霍尼韦尔国际公司	Honeywell International Inc.		
陶氏环球技术有限责任公司	Dow Global Technologies LLC		
史密丝克莱恩比彻姆公司	SMITHKLINE BEECHAM		
应用材料股份有限公司	Applied Materials Inc.		
辛根塔参与股份公司	Syngenta Participations AG	210	x
格雷斯公司	W.R. Grace & Co.-Conn.	128	x
泰科保健集团有限合伙公司	Tyco Healthcare Group LP	95	x
美国联合包裹服务公司	UNITED PARCEL SERVICE OF AMERICA, INC.	85	x
爱特梅尔公司	ATMEL CORPORATION	73	x
葛兰素史密斯克莱有限责任公司	GlaxoSmithKline LLC	65	x
梅德拉股份有限公司	MEDRAD, INC.	54	x
ADC长途电讯有限公司	ADC TELECOMMUNICATIONS, INC.	44	x
ATI科技有限责任公司	ATI Technologies ULC	42	x
弗雷塞尼斯医疗保健控股公司	Fresenius Medical Care Holdings, Inc.	39	x
....	....	....	....

Statistically meaningful !

Using the 2<sup>nd</sup> analysis result of EPO applicant name standardization

# Additional Analysis : 3<sup>rd</sup> Analysis (1)

## ❖ 3<sup>rd</sup> analysis (connecting with KIPO's applicant name DB)

- **(Objective)** to extract potentially same applicant names by linking KIPO's applicant name DB(applicant code) with applicant names in EPO, JPO, SIPO, USPTO publications
- (Method) Family IDs from EPO publications having the applicant names detected by the 1<sup>st</sup> analysis → extract corresponding KIPO's applicant codes related to the family IDs from KIPO's standardized applicant name DB → compare the applicant code of the primary applicant name with corresponding KIPO applicant codes

# Additional Analysis : 3<sup>rd</sup> Analysis (2)

Applicant names detected  
by the 1<sup>st</sup> analysis

Family IDs from EPO  
publications which have  
the applicant names

Country Code	Pub. Num	Pub. Type	Applicant Name	Family ID	KIPO pub. Num	KIPO's standardized applicant name	KIPO's standardized code
EP	01573798	A	Koninklijke Philips Electronics N.V.	00000000000043662067	1020050085607	엔엑스피 비 브이	520070325809
EP	02269707	A	Donaldson Company, Inc.	00000000000043662235	1020050098922	도날드슨 컴파니, 인코포레이티드	519980624426
EP	01667364	A	NIPPON TELEGRAPH AND TELEPHONE CORPORATION	00000000000043662344	1020060020601	니폰 덴신 덴와 가부시끼가이샤	519980604497
EP	01071128	A	Applied Materials, Inc.	00000000000043663029	1020010029984	어플라이드 머티어리얼스, 인코포레이티드	519980587458
EP	01592125	A	SEIKO EPSON CORPORATION	00000000000043663923	1020060043278	세이코 엡슨 가부시끼가이샤	519980961456
EP	01056670	A	MINNESOTA MINING AND MANUFACTURING COMPANY	00000000000043664327	1020010024932	쓰리엠 컴퍼니	519980661948
EP	02019081	A	Honeywell International Inc.	00000000000043665053	1020090010930	허니웰 인터내셔널 인코포레이티드	520000502217
****	****	****	****	****	****	****	****

Comparison

KIPO's standardized code for 3M : 519980661948

# Additional Analysis : 3<sup>rd</sup> Analysis (3)

Applicant Name (EPO publication)	KIPO's standardized applicant name	KIPO's standardized code	Number of publications
MINNESOTA MINING AND MANUFACTURING COMPANY	쓰리엠 컴퍼니	519980661948	2420
3M Innovative Properties Co.	쓰리엠 컴퍼니	519980661948	64
ESK Ceramics GmbH & Co.KG	쓰리엠 컴퍼니	519980661948	4
The University of New Mexico	쓰리엠 컴퍼니	519980661948	2
HALKEY-ROBERTS CORPORATION	쓰리엠 컴퍼니	519980661948	2
Esk Ceramics GmbH&Co. Kg	쓰리엠 컴퍼니	519980661948	2
Paice LLC	쓰리엠 컴퍼니	519980661948	1
Whitland Research Limited	쓰리엠 컴퍼니	519980661948	1
Cuno, Inc.	쓰리엠 컴퍼니	519980661948	1
Wave	쓰리엠 컴퍼니	519980661948	1
Gage Products Company	쓰리엠 컴퍼니	519980661948	1
Pentapure Incorporated	쓰리엠 컴퍼니	519980661948	1
LANDMARK GRAPHICS CORPORATION	쓰리엠 컴퍼니	519980661948	1
Cryomedix, Llc	쓰리엠 컴퍼니	519980661948	1
University Of Windsor	쓰리엠 컴퍼니	519980661948	1
Berry & Associates , Inc.	쓰리엠 컴퍼니	519980661948	1
Medtronic GBI, Inc.	쓰리엠 컴퍼니	519980661948	1
Koninklijke Philips Electronics N.V.	코닌클리케 필립스 엔.브이.	519981119581	9435
Applied Materials, Inc.	어플라이드 머티어리얼스, 인코포레이티드	519980587458	1119
E. I. du Pont de Nemours and Company	이 아이 듀폰 디 네모아 앤드 캄파니	519980771475	771
Dow Global Technologies LLC	다우 글로벌 테크놀로지스 엘엘씨	520020158236	718
Honeywell International Inc.	허니웰 인터내셔널 인코포레이티드	520000502217	649
Syngenta Participations AG	신젠타 파티서페이션즈 아게	520000540042	297
L'Oreal	로레알	519980639828	210
ALLERGAN, INC.	알레간 인코포레이티드	519980725729	183
Delphi Technologies, Inc.	델피 테크놀로지스 인코포레이티드	519990284739	167
Schering Corporation	머크 샤프 앤드 돔 코포레이션	519980697384	142
*****	*****	*****	*****

Statistically meaningful !

# Additional Analysis : 3<sup>rd</sup> Analysis (4)

Result of 1<sup>st</sup> analysis :  
Same companies

Applicant name	Address	Number of Publications
LG Chem, Ltd.	20, Yoido-dong	643
	20, Yoido-dong Youngdungpo-gu, Seoul 150-721 KR	248
LG Electronics Inc.	20 Yeouido-dong Yeongdeungpo-gu	1
	20 Yeouido-dong Yeongdeungpo-ku	1
	20, Yoido-Dong Yongdungpo-Gu	1
LG Hausys, Ltd.	20, Yeouido-dong Yeongdeungpo-gu	1
	20, Yoido-dong	2

Result of 3<sup>rd</sup> analysis :  
different companies !!

Applicant name(EPO Publication)	Corresponding KIPO's standardized applicant name	Corresponding KIPO's applicant code	Number of publications
LG Chemical Co. Ltd	주식회사 엘지화학	120010134563	58
LG Chem Ltd.	주식회사 엘지화학	120010134563	52
LG Chem. Ltd.	주식회사 엘지화학	120010134563	39
LG Chemical, Ltd.	주식회사 엘지화학	120010134563	14
LG Chemical Ltd.	주식회사 엘지화학	120010134563	9
LG Chemical Co., Ltd.	주식회사 엘지화학	120010134563	9
LG Electronics Inc.	엘지전자 주식회사	120020128403	7475
LG Hausys, Ltd.	(주)엘지하우시스	120090148934	156
LG Life Sciences, Ltd.	주식회사 엘지생명과학	120020308350	3



# Final Decision Criteria(1)

## ❖ **Decision based on the results of the 2<sup>nd</sup> and 3<sup>rd</sup> analysis**

- If the applicant name is considered as the same applicant name as the primary applicant name **according to both the 2<sup>nd</sup> analysis and the 3<sup>rd</sup> analysis**, it is finally classified as the same applicant name as the primary applicant name



# Final Decision Criteria(2)

## List of standardized applicant names

Primary applicant name :

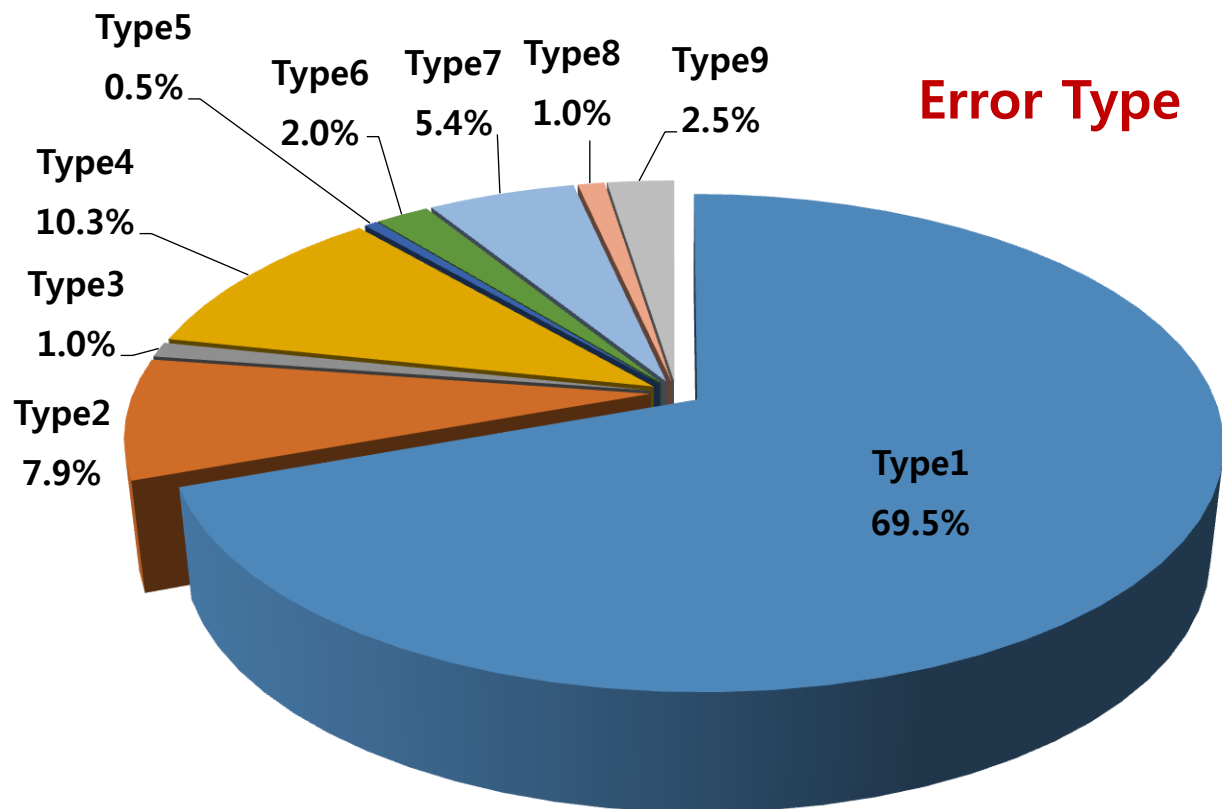
3M Innovative Properties Company

3M Innovative Properties Co.  
MINNESOTA MINING AND MANUFACTURING COMPANY

2<sup>nd</sup> analysis

3<sup>rd</sup> analysis

# Error in the Final Decision



type1	No 2nd or 3rd analysis data
type2	address is different, but company classifies the applicant name as the primary applicant name
type3	company classifies it as a different applicant name because applicant name partly has inventor name
type4	different KIPO applicant code is assigned, but company classifies consider the applicant name as the primary applicant name
type5	error in the corresponding EPO applicant name due to insufficient data
type6	insufficient 2nd and 3rd analysis data
type7	It seems that there was a technical transfer
type8	It seems to be a typo, but there is a possibility of the company name with typo
type9	The corresponding EPO applicant name is classified as a different applicant name

### **3. Possibility and Limitation of IP5 ANS project**

# Possibility & Limitation

- ❖ **ANS can be automatized **only for the applicants** having statistically meaningful amount of cross-filings at IP5 Offices**
- ❖ **limited information in publications** required to analyze and identify the same applicant names

# The possible way to enhance the accuracy of ANS at each Office

- ❖ **Exchanging bibliographic data** including cross-filing information **as soon as applications are filed** at each IP5 office
  - There is a high possibility of applicant name changes during the period between the application date to the publication date

## **4. Next Stage**

# Next Stage

- (1) IP5 Offices will share their standardized applicant name DB(if available), and their experiences and information related to applicant name standardization
- (2) Each IP5 Office will conduct its own intra-standardization by making best use of the shared DB and information, or by collaborating with external stakeholders which are interested in applicant name standardization
- (3) IP5 Offices will conduct the inter-standardization by mapping each office's standardized applicant names which represent all the various expressions of certain company names, and will update the mapping table of the inter-standardization periodically

# Future plan

- ❖ Decision on the next stage on ANS Project : 2018 WG2 &GDTF meeting
- ❖ Amendment of the scope document : 2018 IP5 DHs meeting
- ❖ Endorsement of a new scope document : 2018 IP5 Heads meeting





특허청

Korean Intellectual Property Office

***Thank you!***