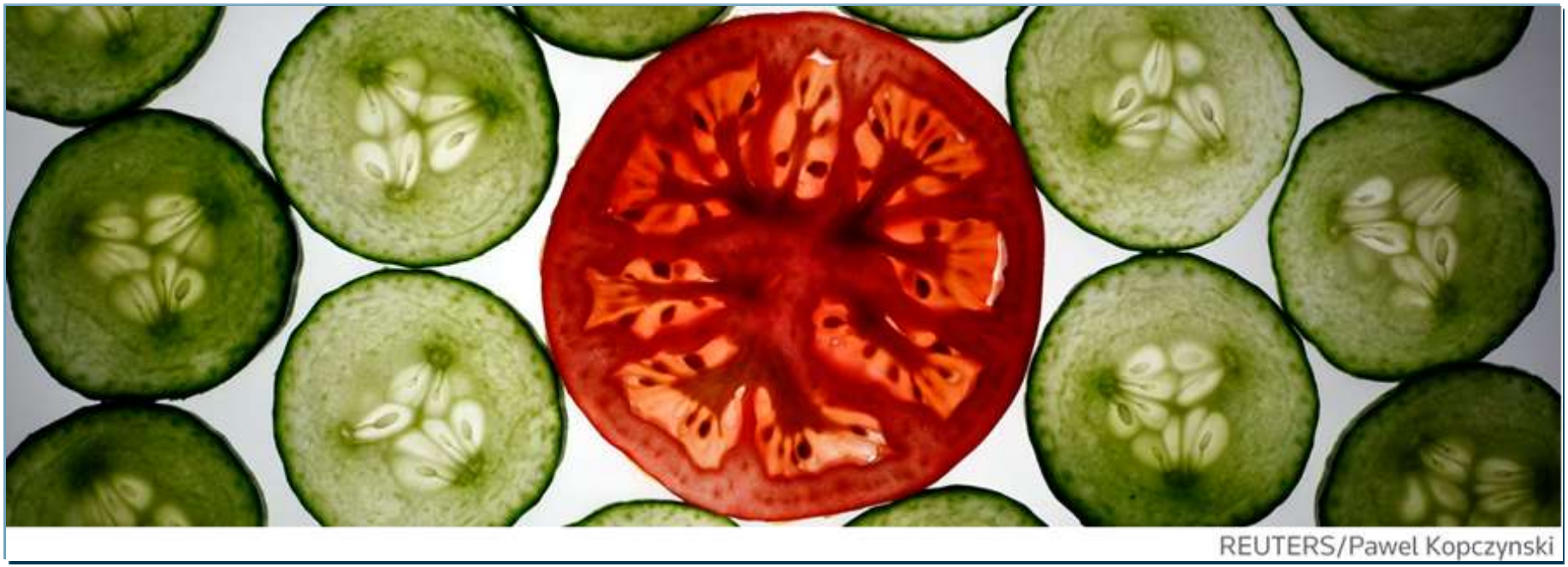
REUTERS/Pawel Kopczynski

Thomson Data Analyzer (TDA)

智能信息分析专家

沈嘵嘵

产品与解决方案部

汤森路透科技信息服务（北京）有限公司

THOMSON REUTERS

情报分析简介

TDA是什么？

TDA能做什么？

TDA6.0新功能介绍

问题与解答

情报分析简介

TDA是什么？

TDA能做什么？

TDA6.0新功能介绍

问题与解答

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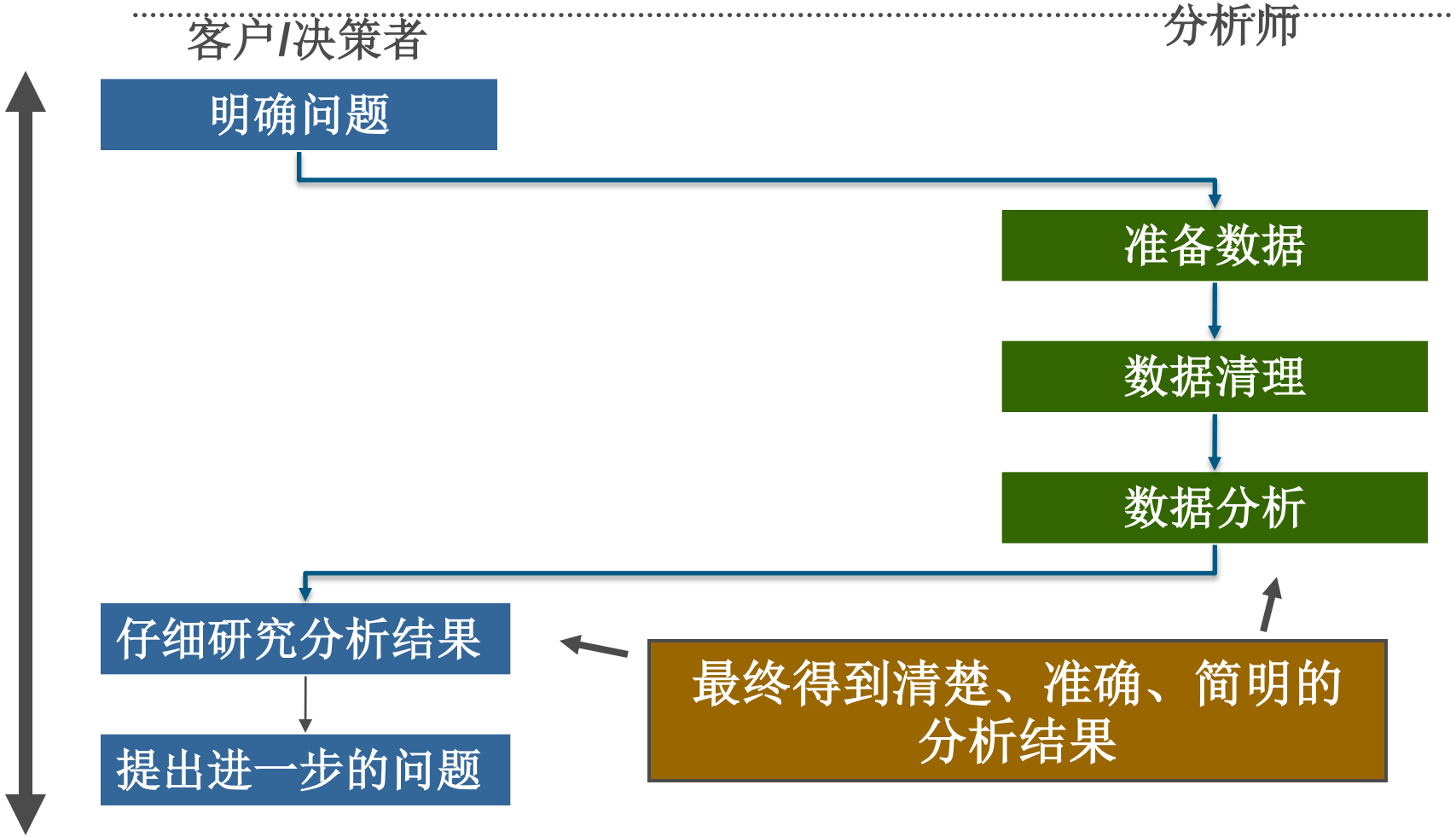
需求定位

- 回答技术的问题：
  - 核心技术点
  - 主要技术持有人
  - 技术发展趋势
  - …
- 回答竞争情报的问题：
  - 他们在做什么
  - 他们做得怎么样
  - 怎样跟踪他们的最新进展
  - 他们将来会怎么做

情报分析流程

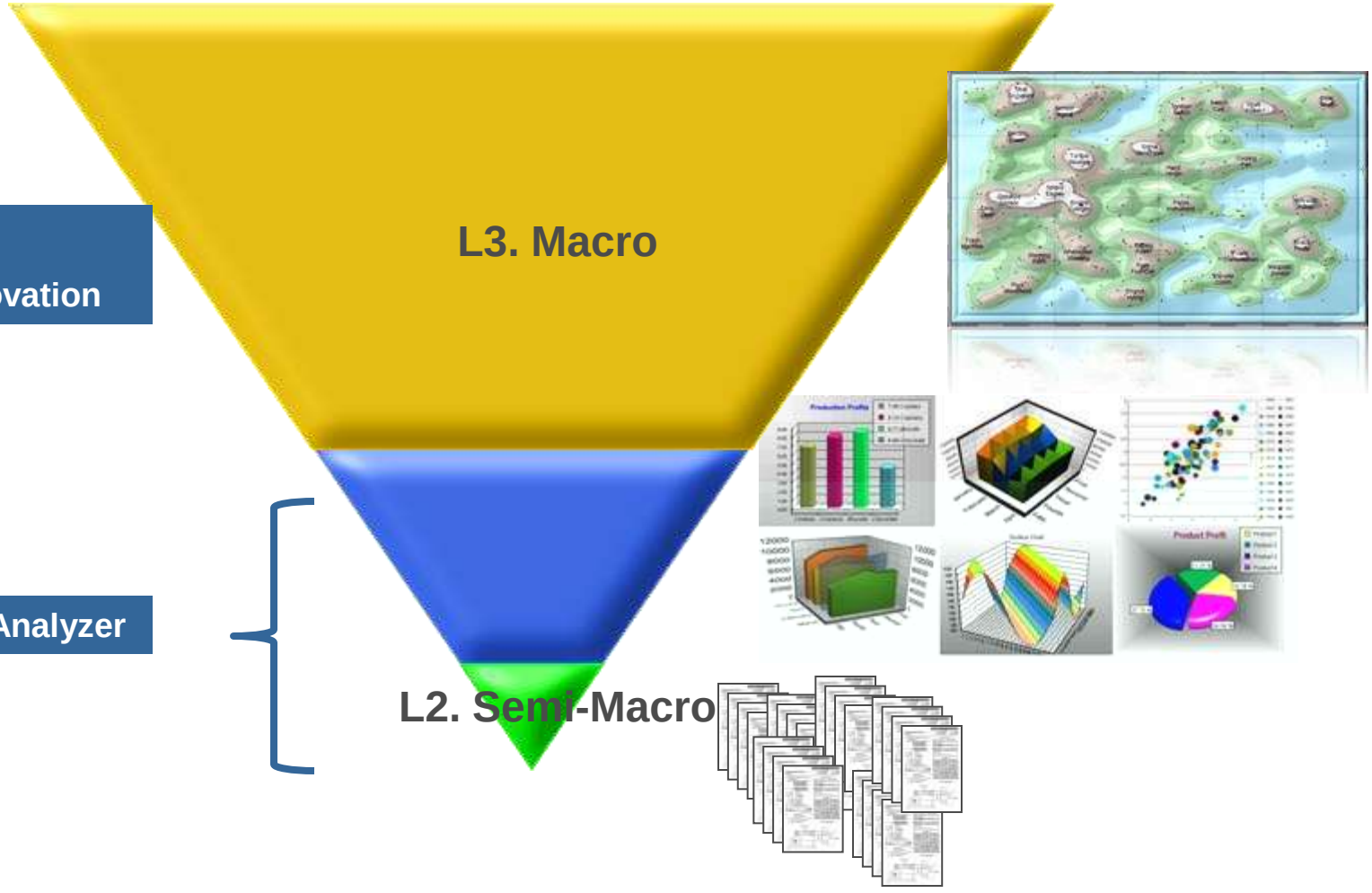

客户/决策者
分析师
明确问题
准备数据
数据清理
数据分析
仔细研究分析结果
提出进一步的问题
最终得到清楚、准确、简明的分析结果

分析方法

WOS

Thomson Innovation

Thomson Data Analyzer



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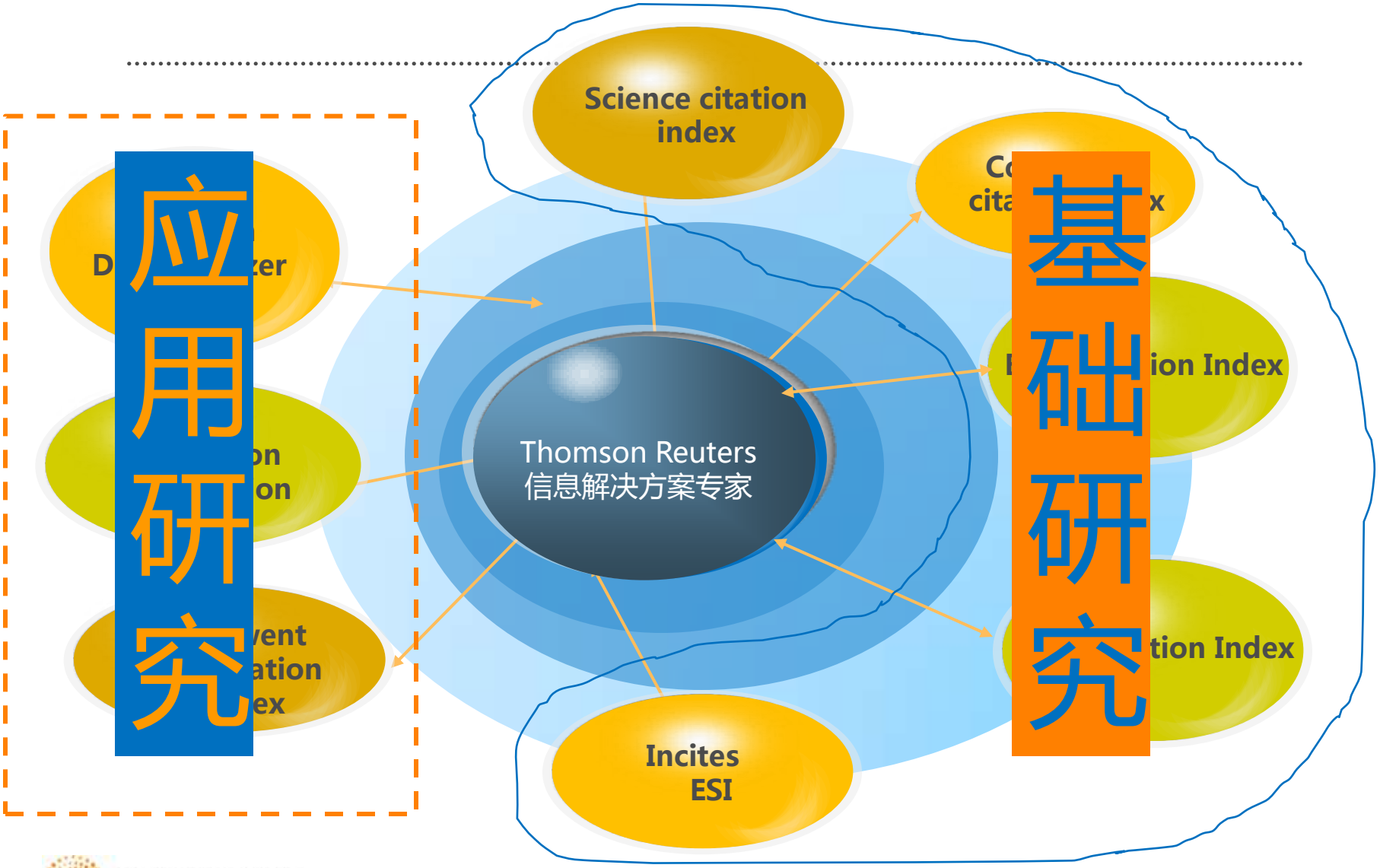
汤森路透知识创新解决方案



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情报分析简介

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Thomson Data Analyzer

TDA源于美国军方三大机构资助的海量数据分析工具研发项目，以帮助提高数据分析效率，降低沉重的数据分析人力成本：

美国国防预先研究计划局

美国陆军坦克自动化和武器司令部

美国陆军航空和导弹司令部

TDA简介

Thomson Data Analyzer ®

通过提供多角度的数据挖掘和可视化的全景分析

帮助情报工作者分析竞争情报与技术情报的

发现潜在的市场和研发机会

洞察竞争合作关系，确定合作伙伴

把握科学技术演进动向和投资时机

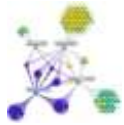
判别技术领军人才，打造研发团队

制定正确的研发和知识产权战略

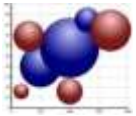
Thomson Data Analyzer

查阅　分析　交流

智能分析报告



合作分析展现



领域研究概览

报告生成　数据分析　数据规范　数据清理

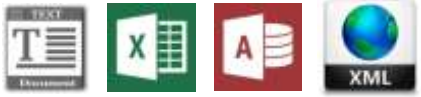
THOMSON DATA ANALYZER ® 智能信息分析专家

数据导入

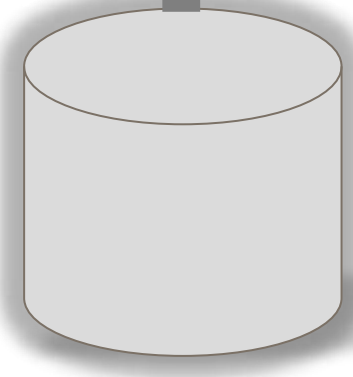
TDA 专有数据文件

数据导出

数据导入



数据导出



图表
引证树
专利地图

检　索

实用分析工具　THOMSON INNOVATION　海量科技数据

全球专利数据

精选科技文献

主流商业信息

其他数据源

情报分析简介

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TDA可以帮助您

第二和第三的应用介绍请关注大讲堂后续的TDA高级培训课程

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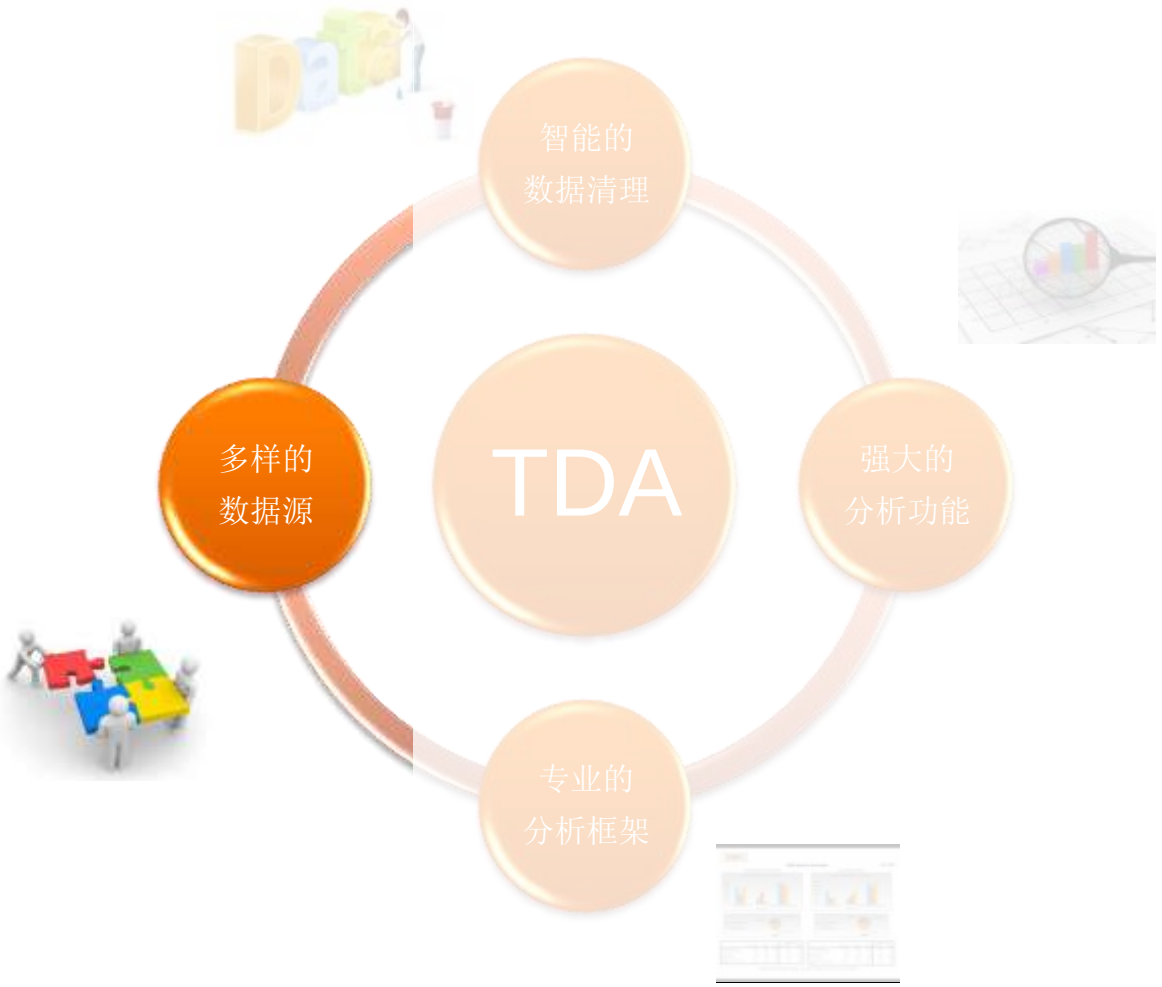
TDA的优势

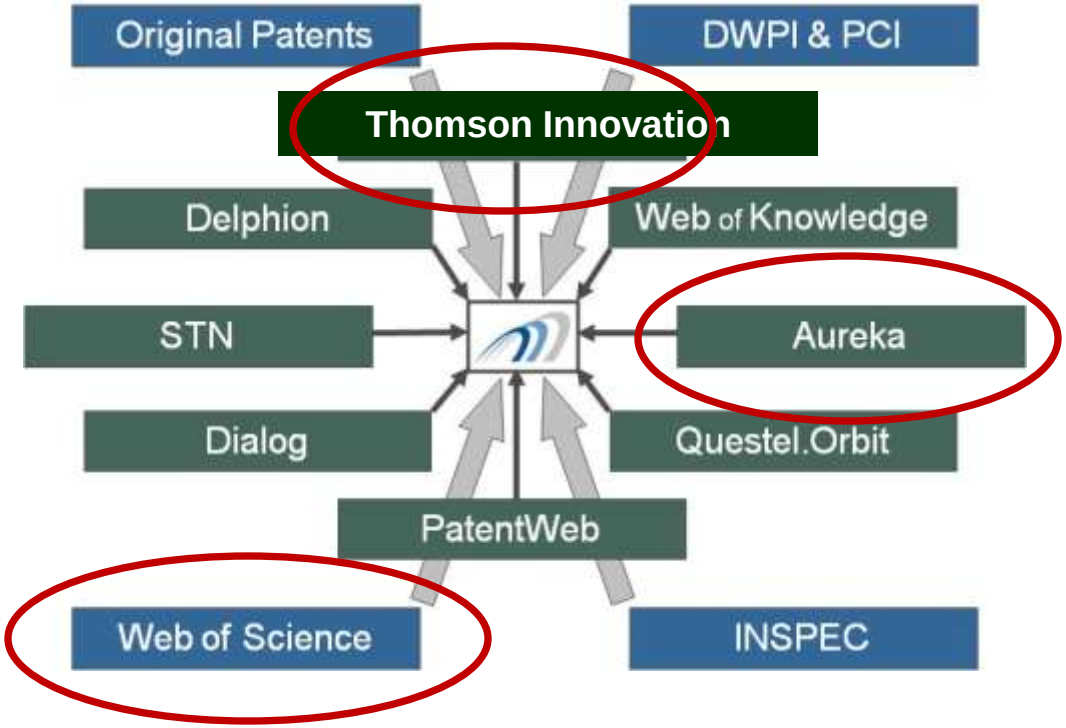


多来源数据导入

系统默认支持数据库

Excel

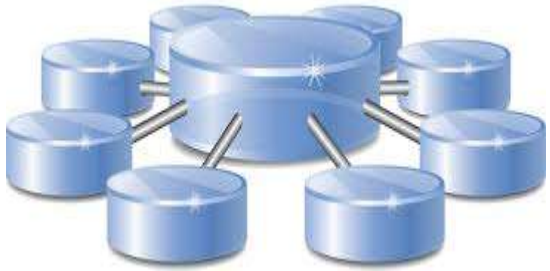
自定义数据



不同数据源的合并

数据集合并：

完全合并多个不同的数据集数据



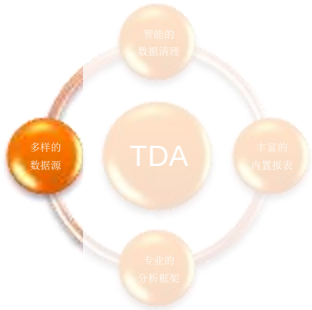
记录集合并：

根据指定字段的匹配规则合并不同记录数据

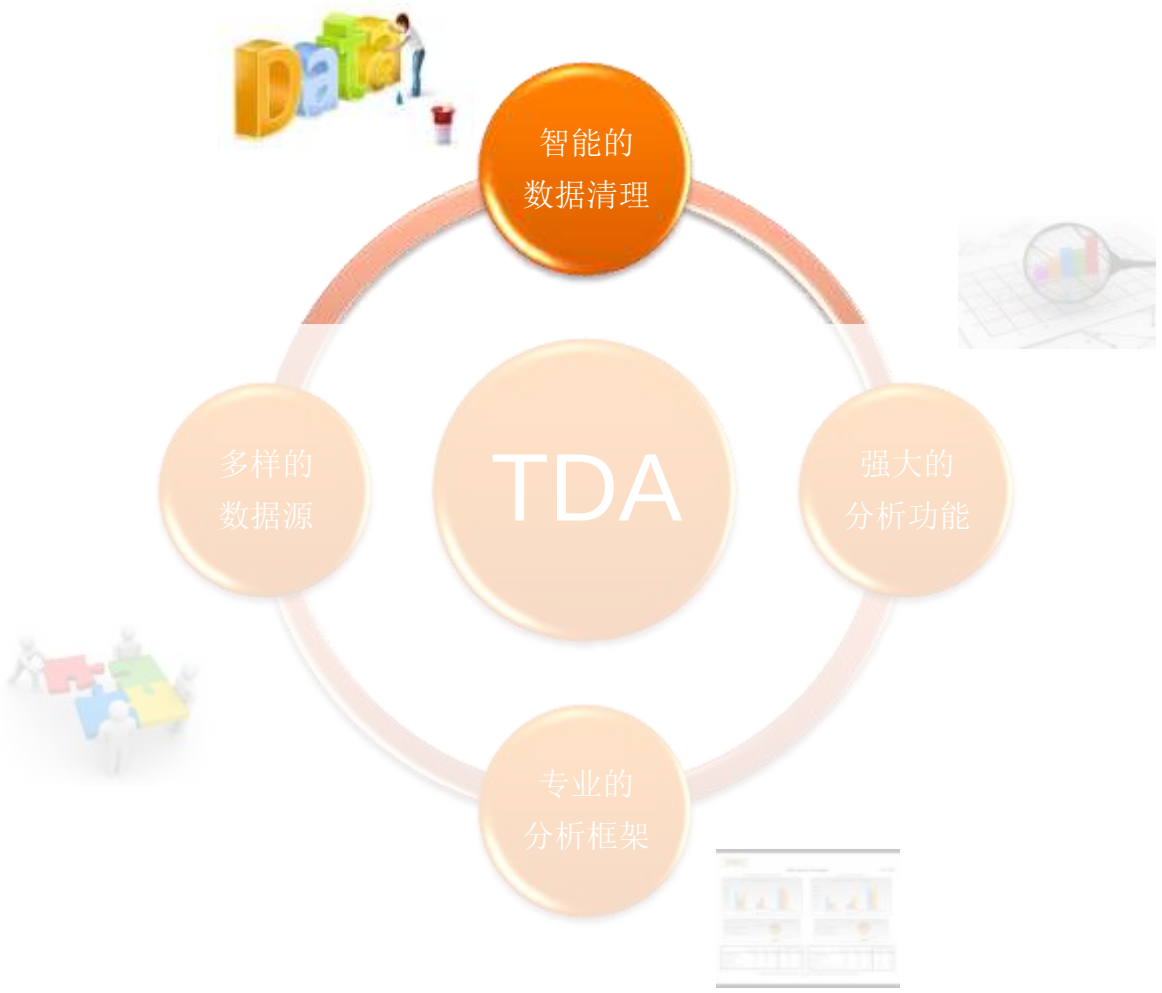
合并相同数据库不同时间段数据，用于数据追加

将来自不同数据库的数据合并，弥补单一数据库的不足

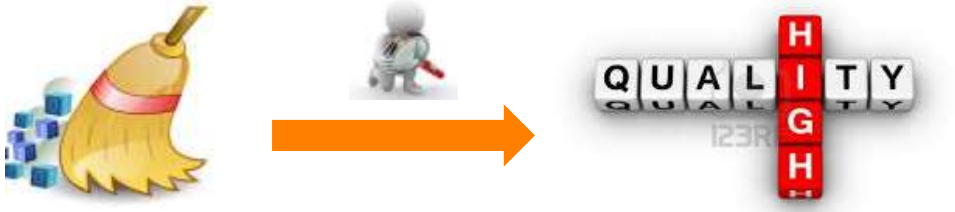
例如：SCI与DWPI数据合并



TDA的优势



智能的数据清理

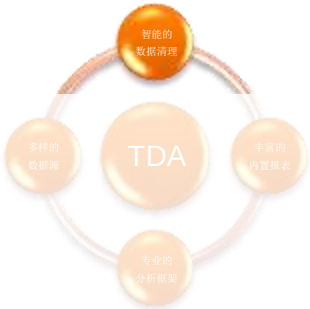


准确、完整、一致的数据

高质量，可信的分析结果

原始专利/文献信息的常见数据问题：

- 个人和机构名称的不同简写方式，拼写错误
- 公司并购重组引起的数据修订需要
- 近义词和同义词
- 不同数据源存在分类和标引差异
- 不同数据源带来的重复数据
- 。。。



智能的数据清理

TDA内置了多种常用的数据清理工具：

模糊匹配（Fuzzy Match）

叙词表（Thesaurus）

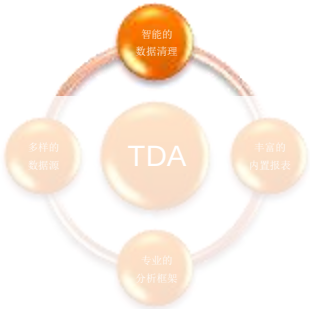
数据去重（Duplicates）

数据分组（Grouping）

TDA数据清理工具能够帮助情报分析人员：

缩短分析周期，提高分析准确度

更多的专注于数据分析和情报解读



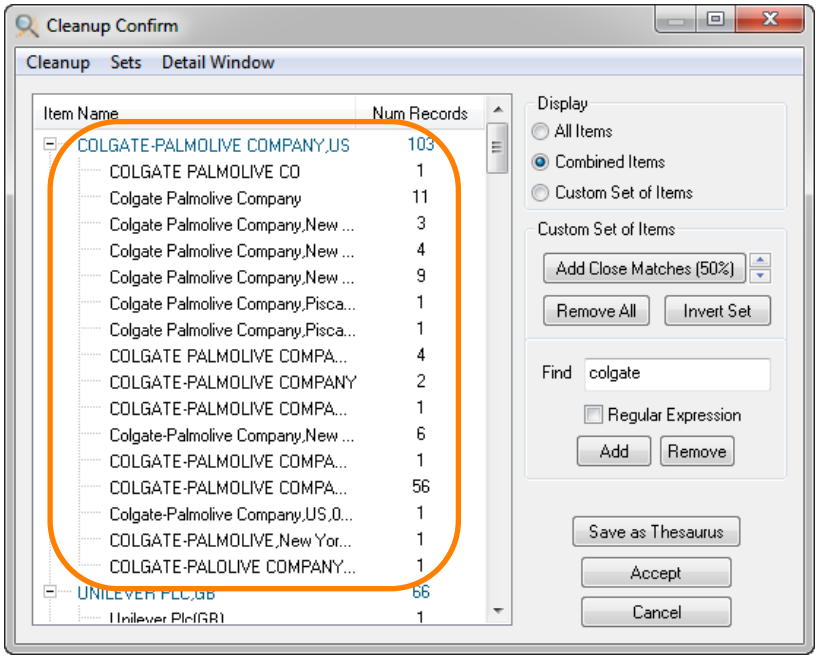
智能的数据清理 – 模糊匹配列表清理工具

TDA可自动对专利权人字段（公司名称）进行模糊匹配，自动归组，从而为后续的分析提供更加准确的数据集合。

公司名称拼写错误或简写

并购，相关控股公司，子公司

高露洁



其他预置的模糊匹配：

人名匹配 – 发明人/作者数据清理

美式英语和英式英语转换

通用模糊匹配

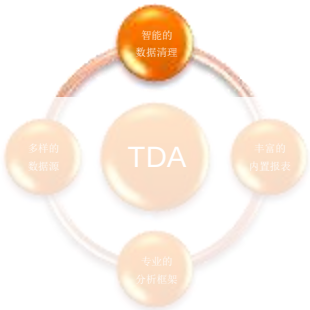
– 专利详细技术信息数据清理

– 其他自然语义处理

如： aeroplanes（美）VS. airplane（英）

人工干预，保证数据清理准确性

保存成叙词表，团队共享，后续使用



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智能的数据清理 – 叙词表

TDA预置的叙词表可以帮助情报分析人员：

- 准确清理专利权人，发明人等数据
- 快速专利分类代码含义转换
- 国家代码名称转换
- 便于统一数字和日期格式
- 排除停用词以便于精确技术分析
- 还原缩略词/简写词
- 同义词近义词清理

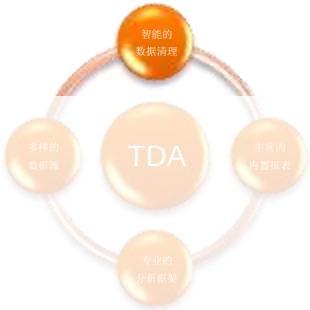
	# Records	# Instances	Priority Countries (earliest)
1	384	384	JP
2	262	262	US
3	82	82	DE
4	75	75	EP
5	45	45	KR
6	25	25	FR
7	22	22	WO
8	20	20	GB
9	17	17	DK
10	12	12	IN
11	1	1	CH
12	1	1	CN

	# Records	# Instances	Priority Countries (earliest) (2)
1	384	384	Japan
2	262	262	United States of America
3	82	82	Germany
4	75	75	European Patent Office
5	45	45	Korea, Republic of
6	25	25	France
7	22	22	Patent Co-operation Treaty
8	20	20	United Kingdom
9	17	17	Denmark
10	12	12	India
11	1	1	China
12	1	1	Switzerland

用户自定义叙词表：

积累数据清理经验，建立可重用叙词表并不断完善，可以提高团队整体分析效率

- 构建自己的词库 – 专利技术分析
- 构建行业企业名录 – 快速专利权人清洗
- 构建自己的分类和同义词/近义词库 – 更精确的技术领域分析



智能的数据清理 – DWPI数据自动清理

针对Thomson Innovation导出的包含DWPI信息的专利数据，TDA预置了DWPI数据自动清理功能，可以一键清理：

专利权人

发明人

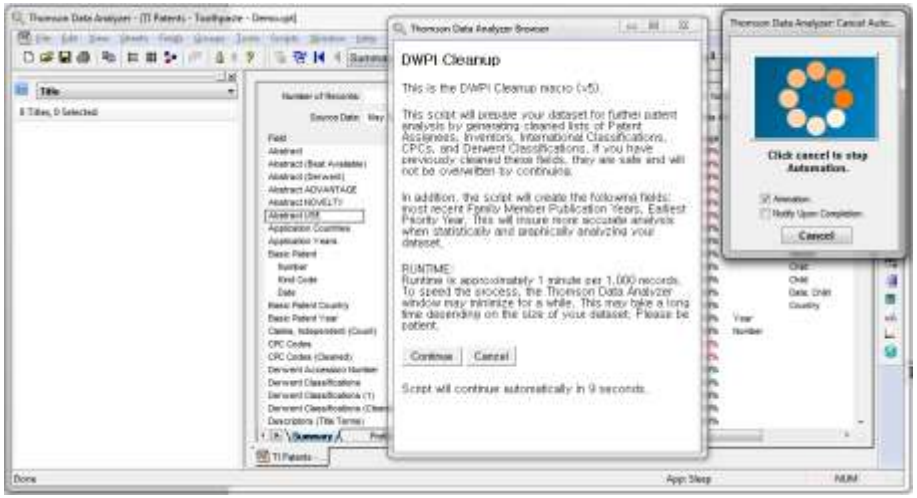
IPC分类

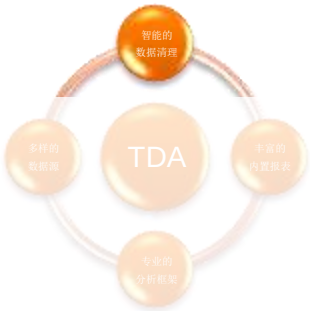
增加DWPI分类说明

添加最新DWPI专利家族成员信息

添加最早优先权专利信息

。。。





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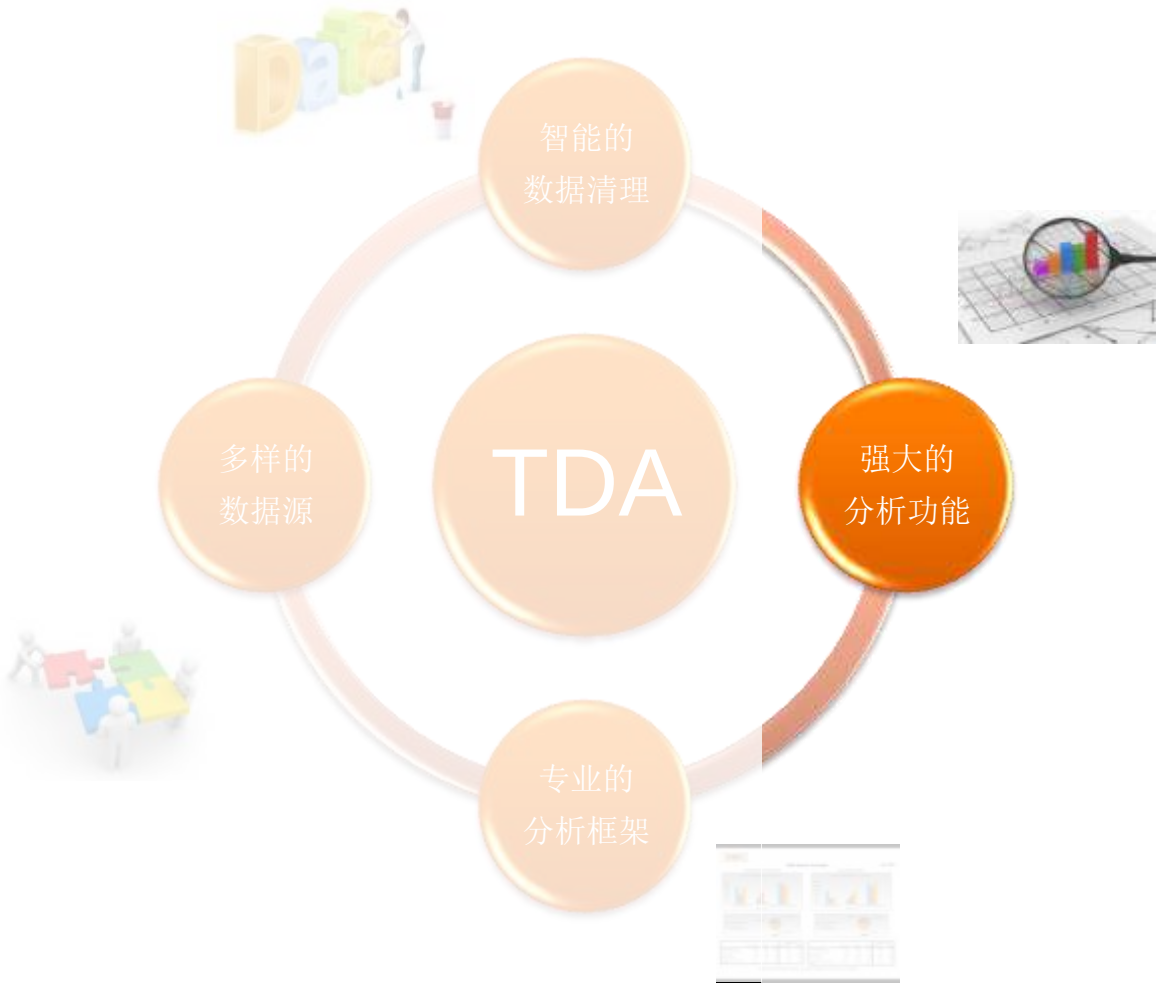
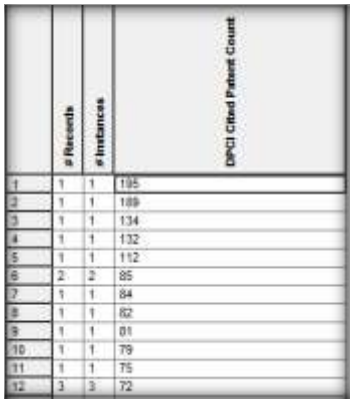
TDA的优势

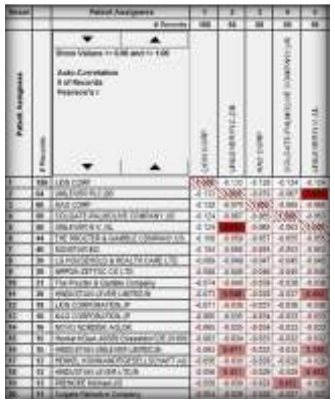


强大的分析功能

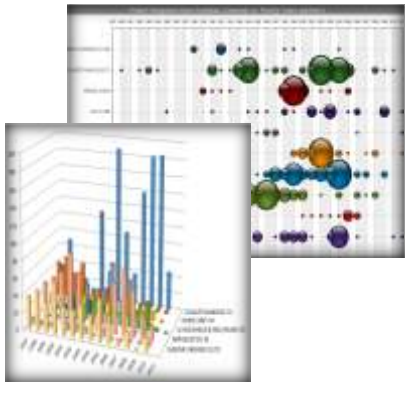


	# Records	# Instances	DPCI Cited Patent Count
1	1	1	195
2	1	1	189
3	1	1	134
4	1	1	132
5	1	1	112
6	2	2	85
7	1	1	84
8	1	1	82
9	1	1	81
10	1	1	79
11	1	1	75
12	3	3	72

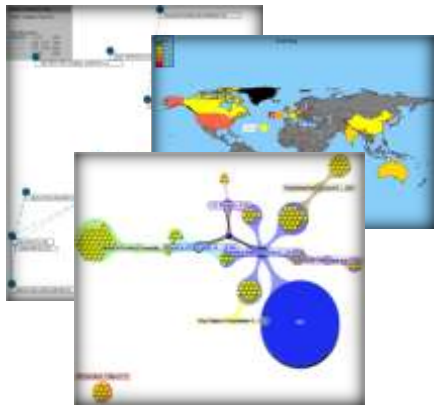
一维列表



二维报表



三维分析



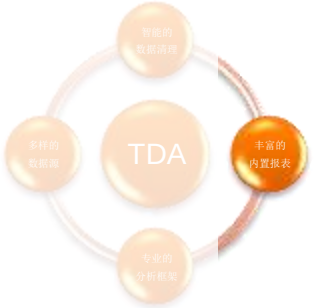
地图呈现

一维列表：国家地区分析，优质专利分析，专利权人分析等

二维报表：相关性分析（共现矩阵 ，自相关矩阵，互相关矩阵）

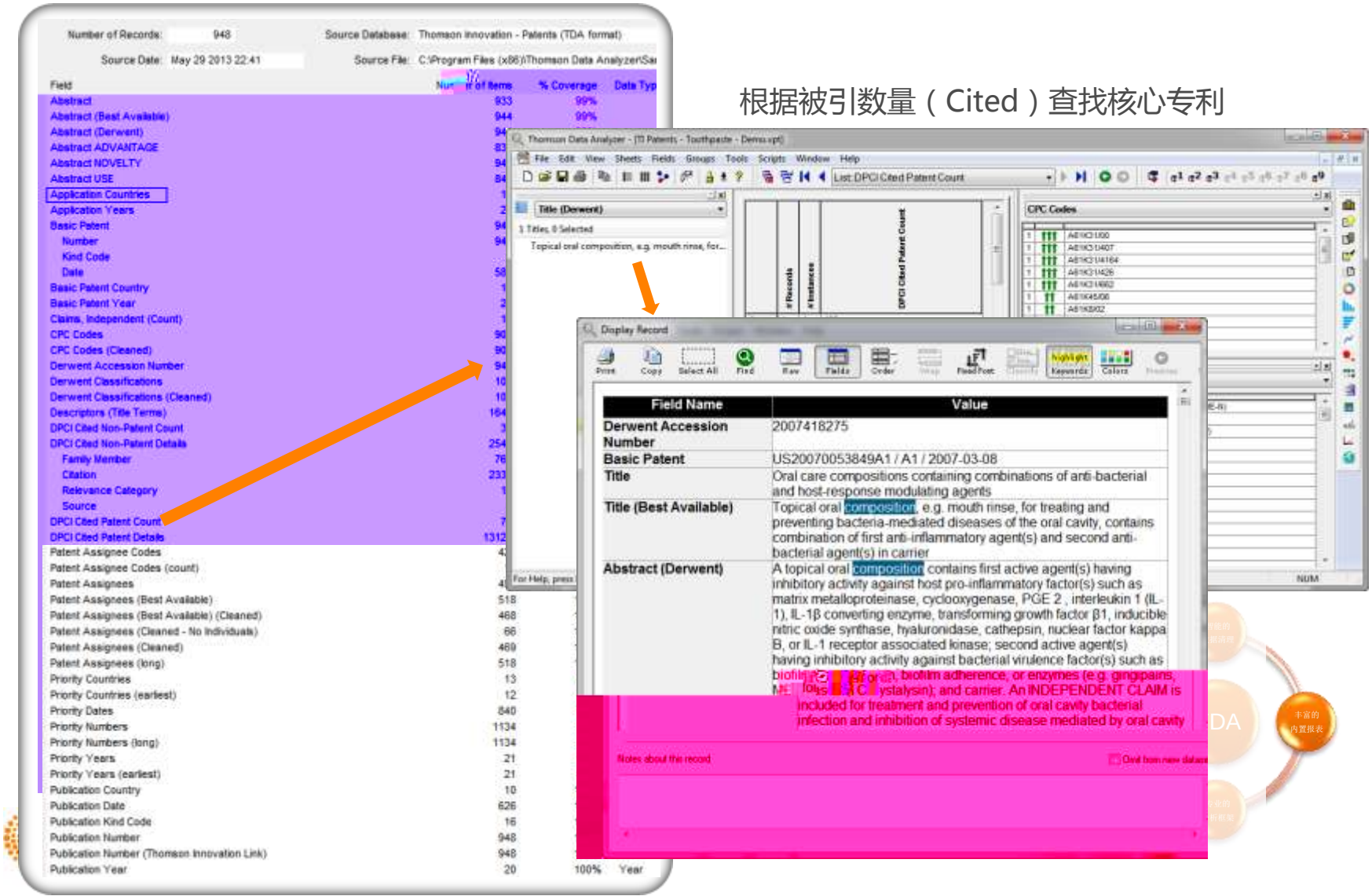
三维分析：专利布局分析，技术演进分析，市场趋势分析等，气泡图

地图呈现：合作关系分析 （Aduna图），国家地区分析（世界地图）等



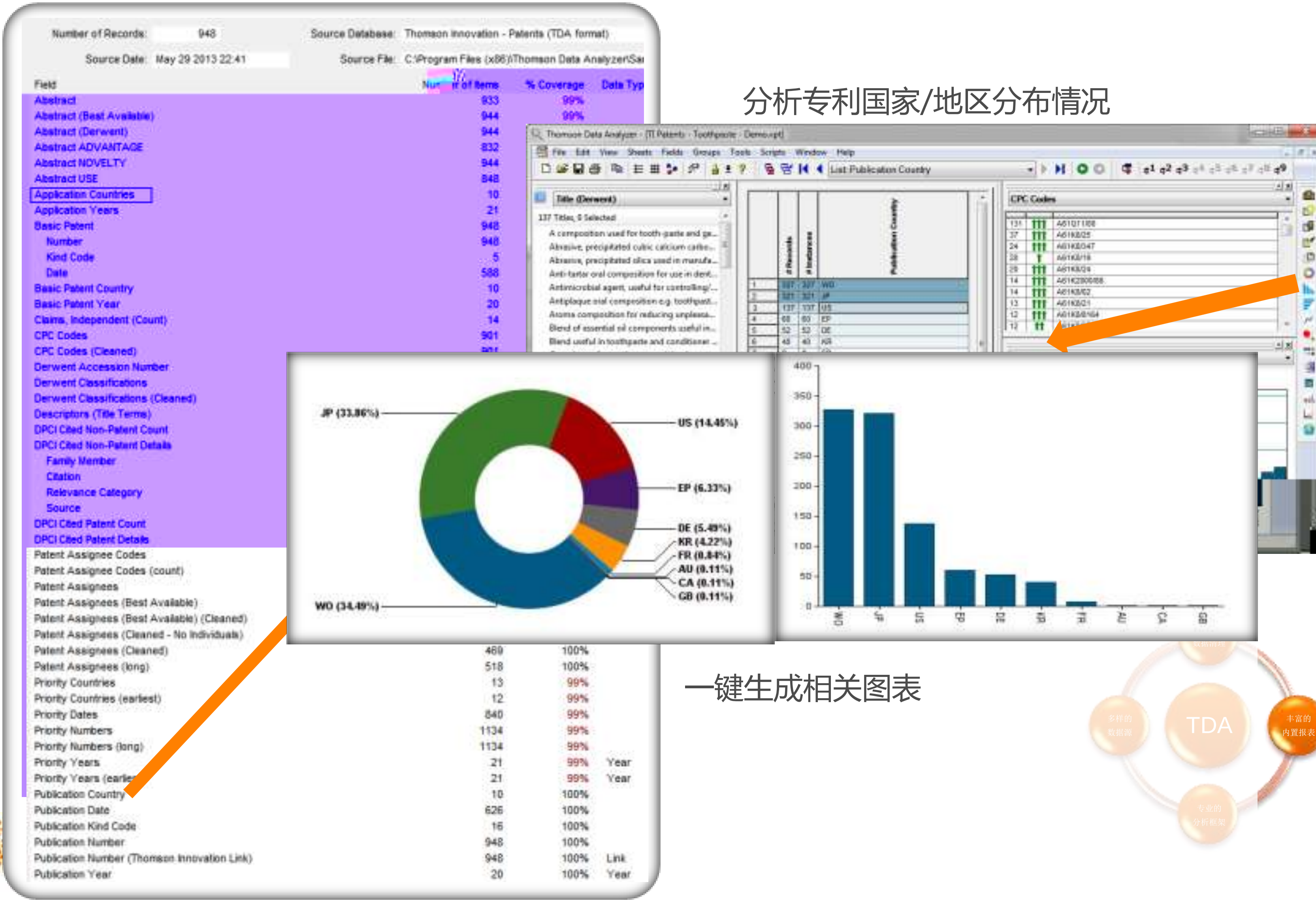
强大的分析功能 – 一维列表

根据被引数量（Cited）查找核心专利



强大的分析功能 – 一维列表

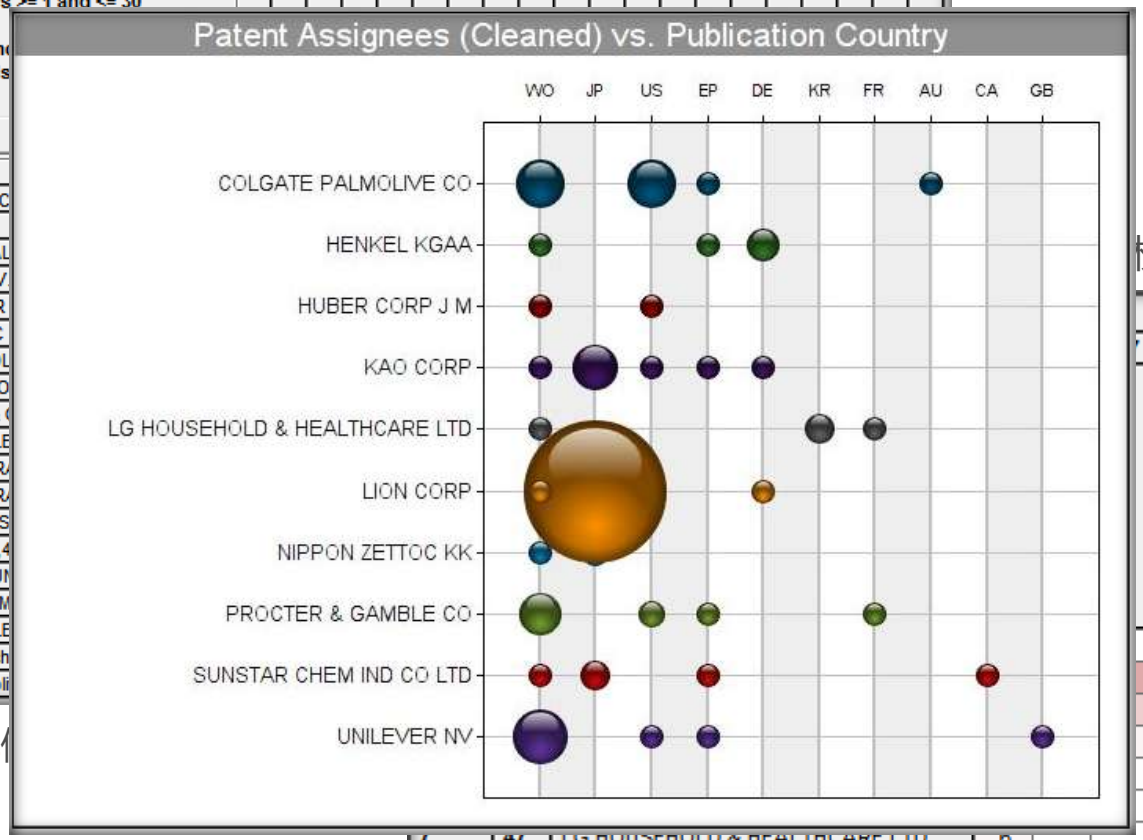
分析专利国家/地区分布情况



一键生成相关图表

强大的分析功能 – 二维报表

Reset		Patent Assignees	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		# Records	3	12	13	29	18	29	41	68	66	63	79	73	55	78	70	54	64	59	60	14
Publication Year	# Records	Show Values >= 1 and <= 30																				
		Cooccurren																				
		# of Records																				
1	186	LION CORP																				
2	64	UNILEVER PLC																				
3	60	KAO CORP																				
4	56	COLGATE-PAL																				
5	56	UNILEVER N.V.																				
6	44	THE PROCTER																				
7	40	SUNSTAR INC																				
8	30	LG HOUSEHOL																				
9	29	NIPPON ZETTO																				
10	21	The Procter &																				
11	20	HINDUSTAN LE																				
12	19	LION CORPOR																				
13	16	KAO CORPOR																				
14	16	NOVO NORDIS																				
15	15	Henkel KGaA,4																				
16	15	HINDUSTAN UN																				
17	12	HENKEL KOMM																				
18	12	HINDUSTAN LE																				
19	12	PRENCIPE Mich																				
20	11	Colgate Palmoli																				



利用共现矩阵

权人国家布局分析

						EP	DE	KR	FR	AU	CA	GB
						60	52	40	8	1	1	1
							1					
						4				1		
						3			1			
						9						1
						4	1					
						7	42					
7	47	LG HOUSEHOLD & HEALTHCARE LTD	6					40	1			
8	46	SUNSTAR CHEM IND CO LTD	4	39		2					1	
9	35	NIPPON ZETTOC KK	1	34								
10	32	HUBER CORP J M	9		23							

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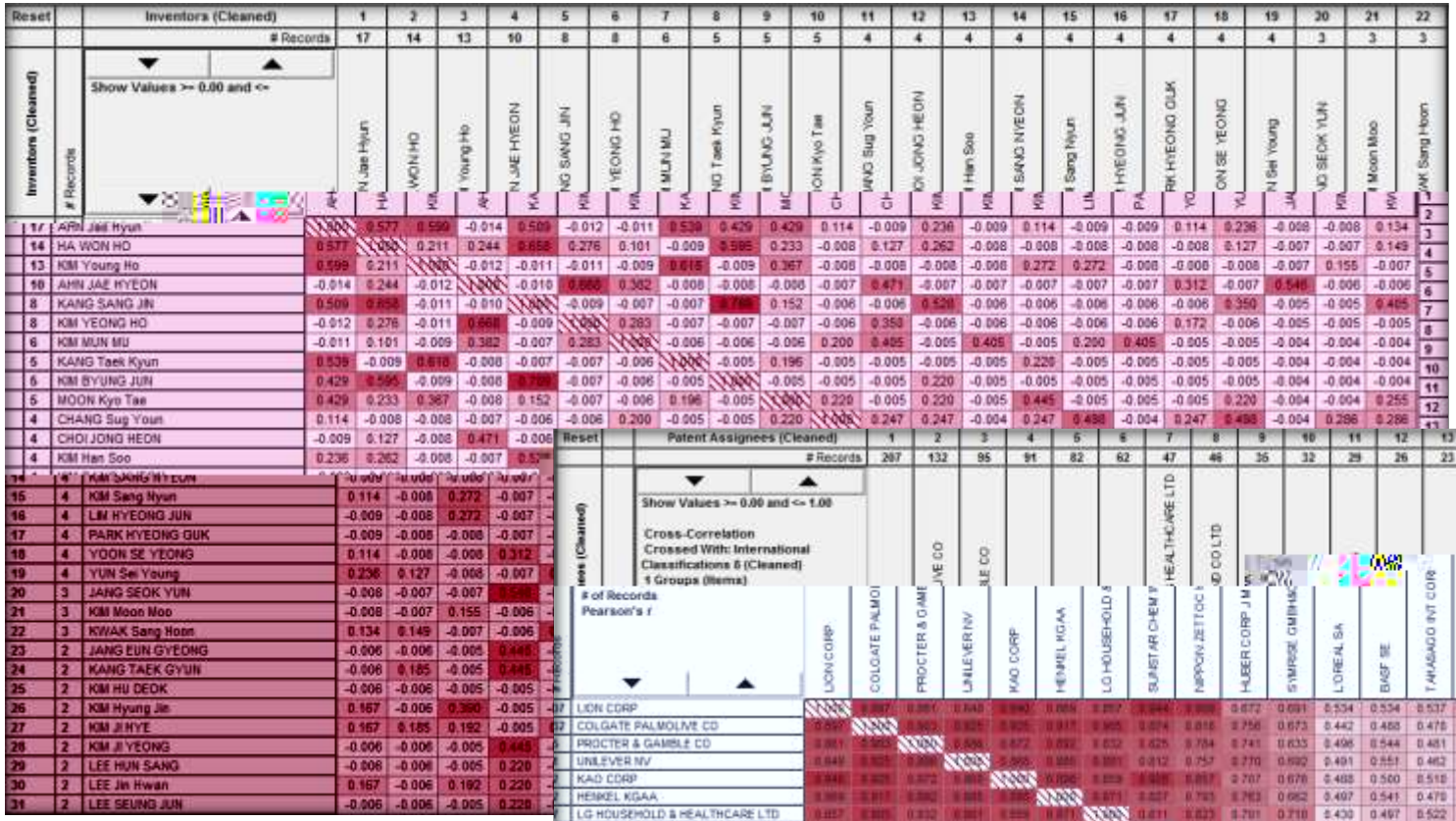
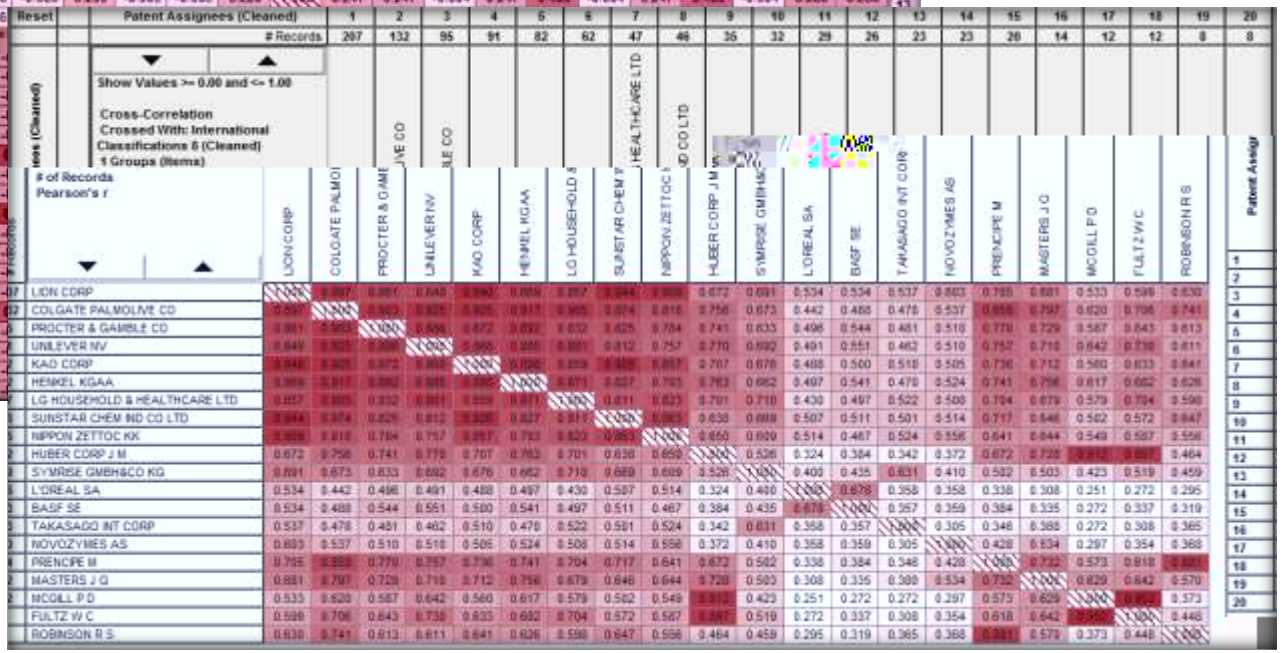
强大的分析功能 – 二维报表



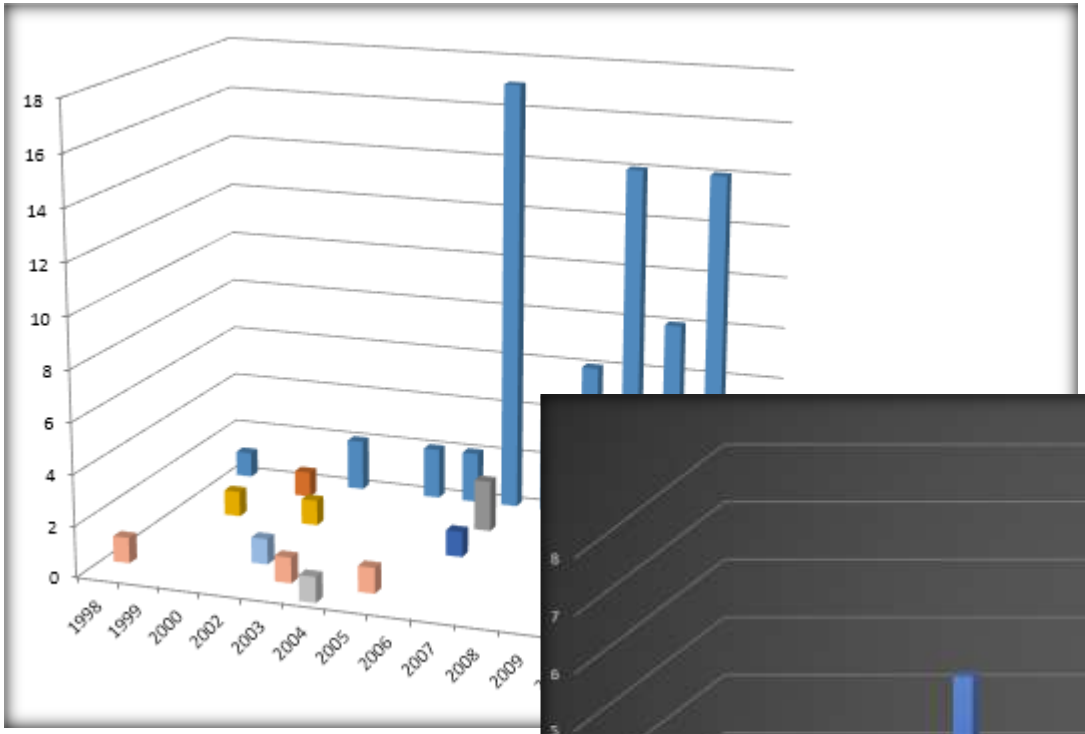
利用互相关矩阵展示公司间技术研发的相似程度

利用自相关矩阵展示高露洁研发团队成员的合作关系



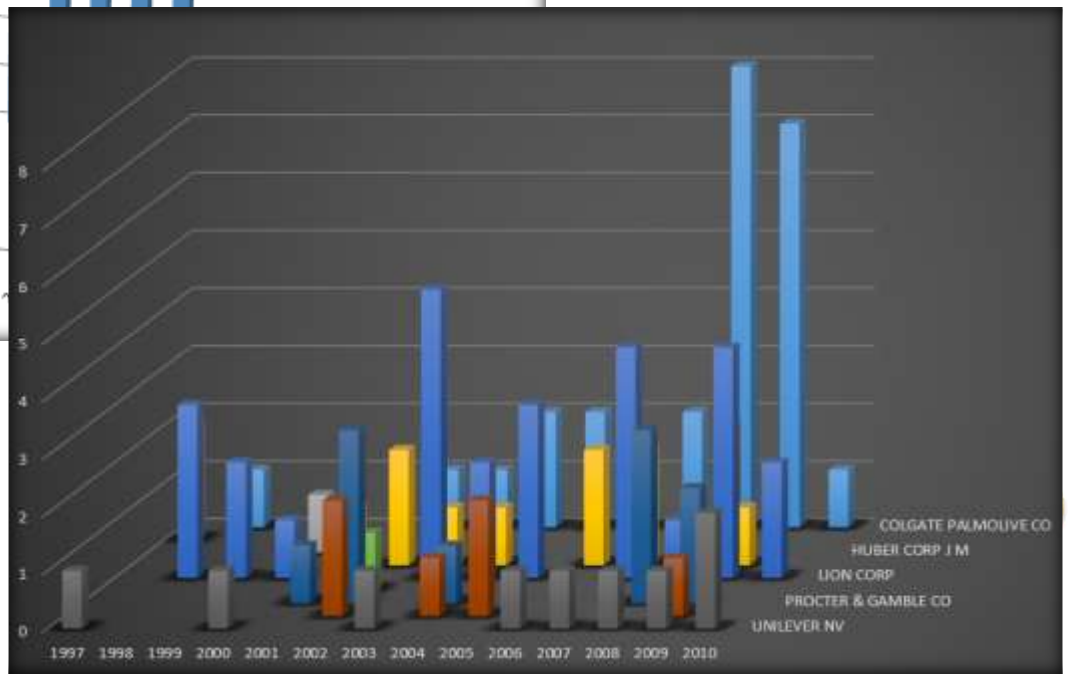
THOMSON REUTERS

强大的分析功能 – 三维分析



前五名主要专利权人在
台湾的专利布局

前五名主要专利权人在某
技术领域公开的研发趋势

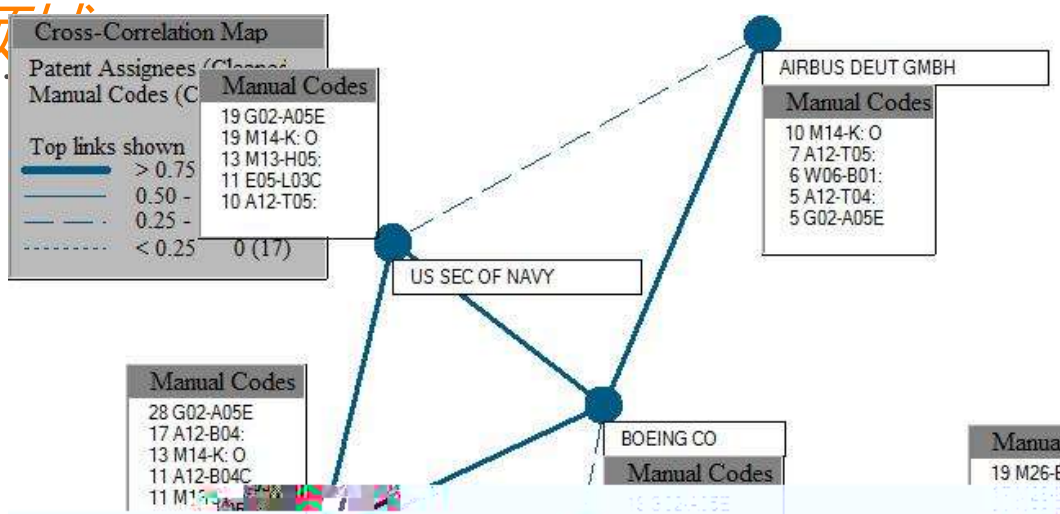


主要专利权人之间的自/互相关地图

航空航天耐腐蚀领域

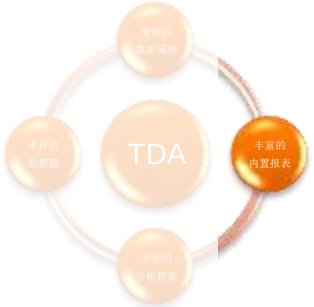
- 主要专利权人几乎没有专利合作的情况。

- 专利权人BOEING CO、AIRBUS DEUT GMBH、US SEC OF NAVY、CHEMETALL GMBH所代表的的节点之间的连线粗而且距离近，说明专利权人的专利在所属技术领域上相似度较高，可能是潜在的竞争对手。



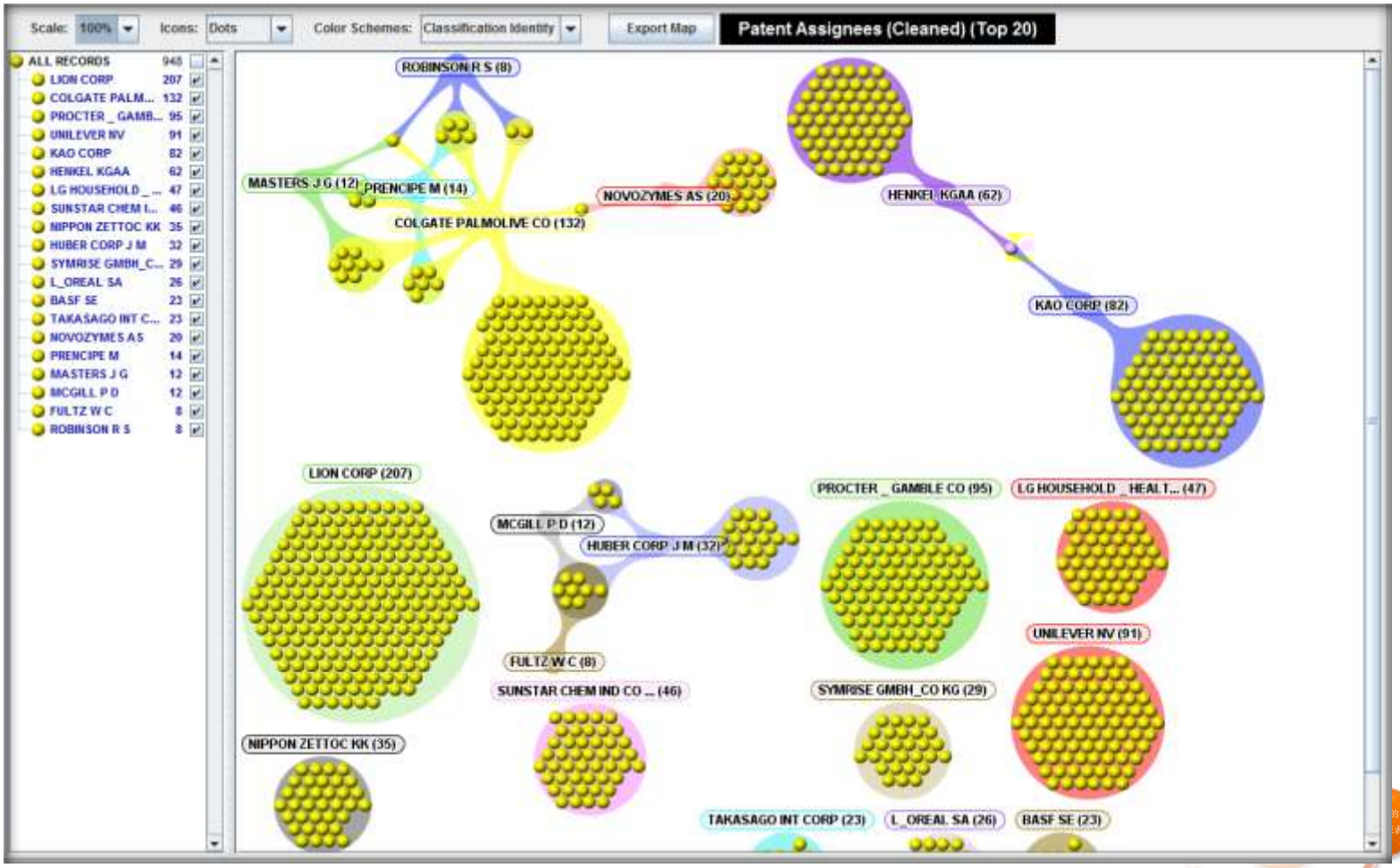
强大的分析功能 – 地图呈现

一键式地图展现-高露洁在某一领域专利的国家/地区分布



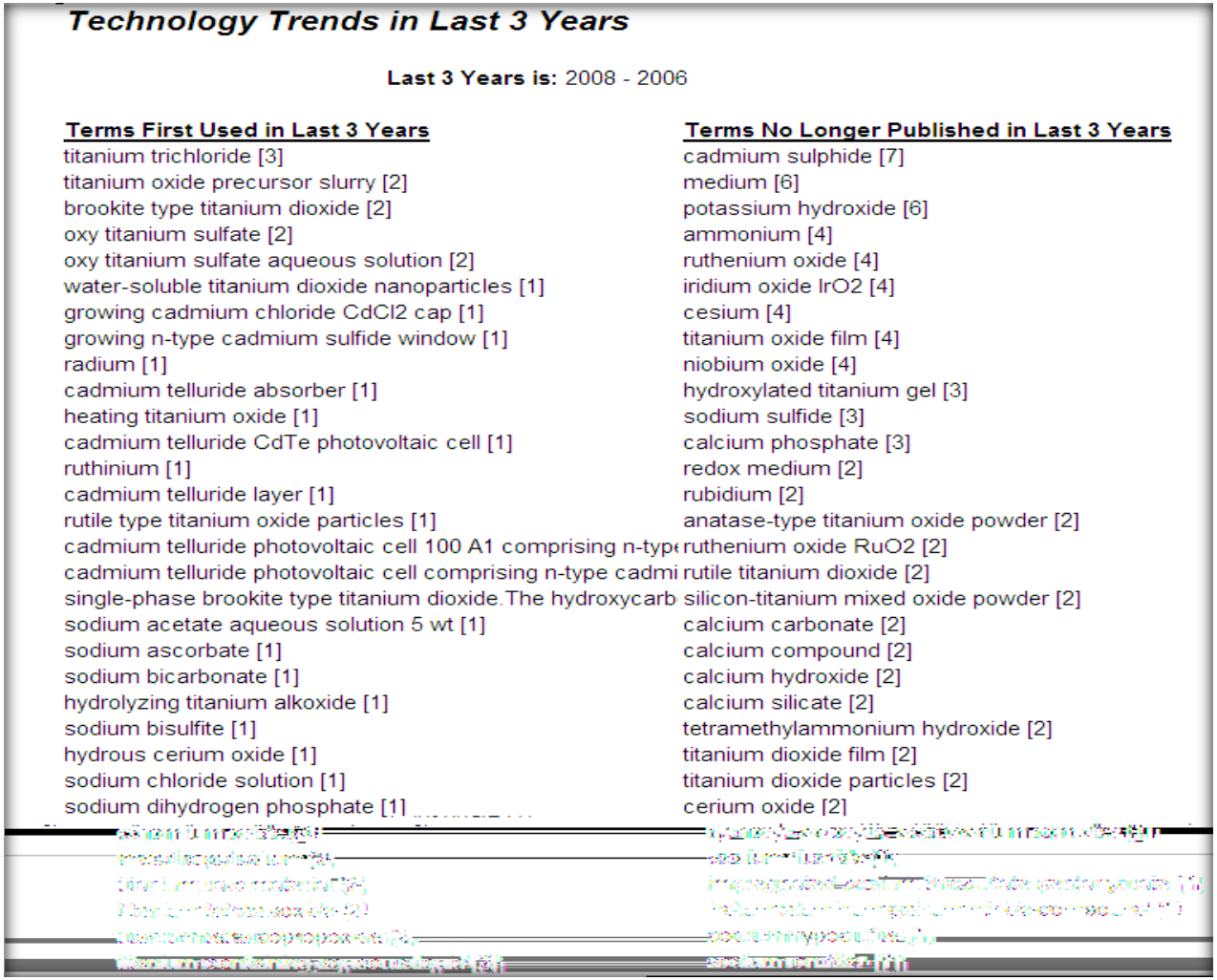
THOMSON REUTERS

强大的分析功能 – Aduna图



Aduna图展示高露洁在同行业的合作关系以展示行业竞合态势

强大的分析功能 – 文本挖掘



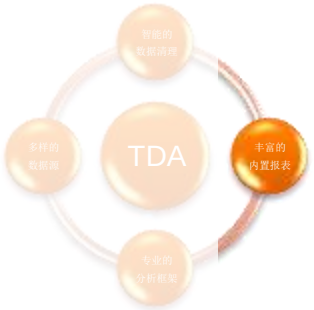
Technology Trends in Last 3 Years

Last 3 Years is: 2008 - 2006

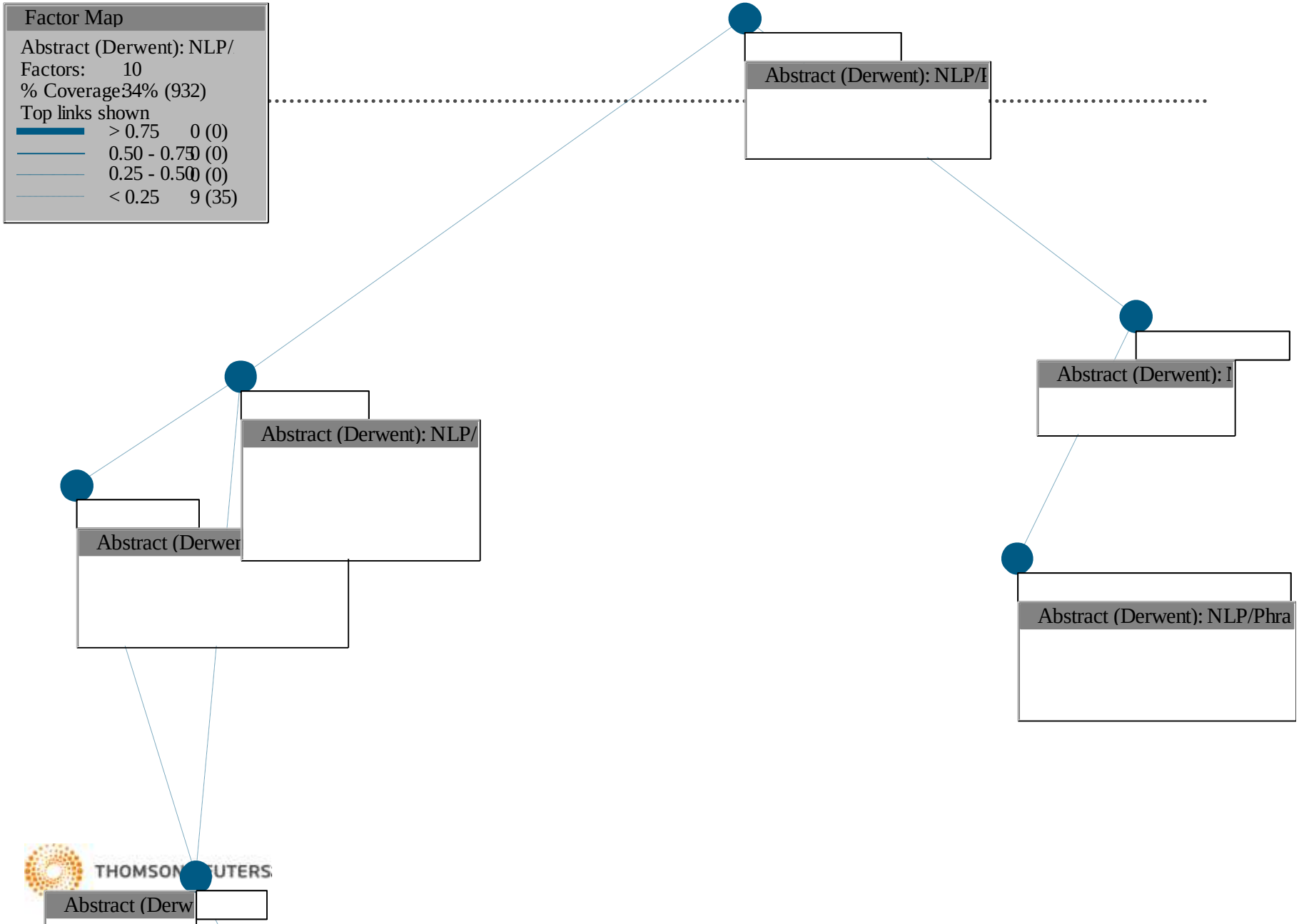
Terms First Used in Last 3 Years	Terms No Longer Published in Last 3 Years
titanium trichloride [3]	cadmium sulphide [7]
titanium oxide precursor slurry [2]	medium [6]
brookite type titanium dioxide [2]	potassium hydroxide [6]
oxy titanium sulfate [2]	ammonium [4]
oxy titanium sulfate aqueous solution [2]	ruthenium oxide [4]
water-soluble titanium dioxide nanoparticles [1]	iridium oxide IrO2 [4]
growing cadmium chloride CdCl2 cap [1]	cesium [4]
growing n-type cadmium sulfide window [1]	titanium oxide film [4]
radium [1]	niobium oxide [4]
cadmium telluride absorber [1]	hydroxylated titanium gel [3]
heating titanium oxide [1]	sodium sulfide [3]
cadmium telluride CdTe photovoltaic cell [1]	calcium phosphate [3]
ruthinium [1]	redox medium [2]
cadmium telluride layer [1]	rubidium [2]
rutile type titanium oxide particles [1]	anatase-type titanium oxide powder [2]
cadmium telluride photovoltaic cell 100 A1 comprising n-type	ruthenium oxide RuO2 [2]
cadmium telluride photovoltaic cell comprising n-type cadmi	rutile titanium dioxide [2]
single-phase brookite type titanium dioxide.The hydroxycarb	silicon-titanium mixed oxide powder [2]
sodium acetate aqueous solution 5 wt [1]	calcium carbonate [2]
sodium ascorbate [1]	calcium compound [2]
sodium bicarbonate [1]	calcium hydroxide [2]
hydrolyzing titanium alkoxide [1]	calcium silicate [2]
sodium bisulfite [1]	tetramethylammonium hydroxide [2]
hydrous cerium oxide [1]	titanium dioxide film [2]
sodium chloride solution [1]	titanium dioxide particles [2]
sodium dihydrogen phosphate [1]	cerium oxide [2]

基于TDA特有的文本挖掘功能，可以对专利技术信息进行深入的分析

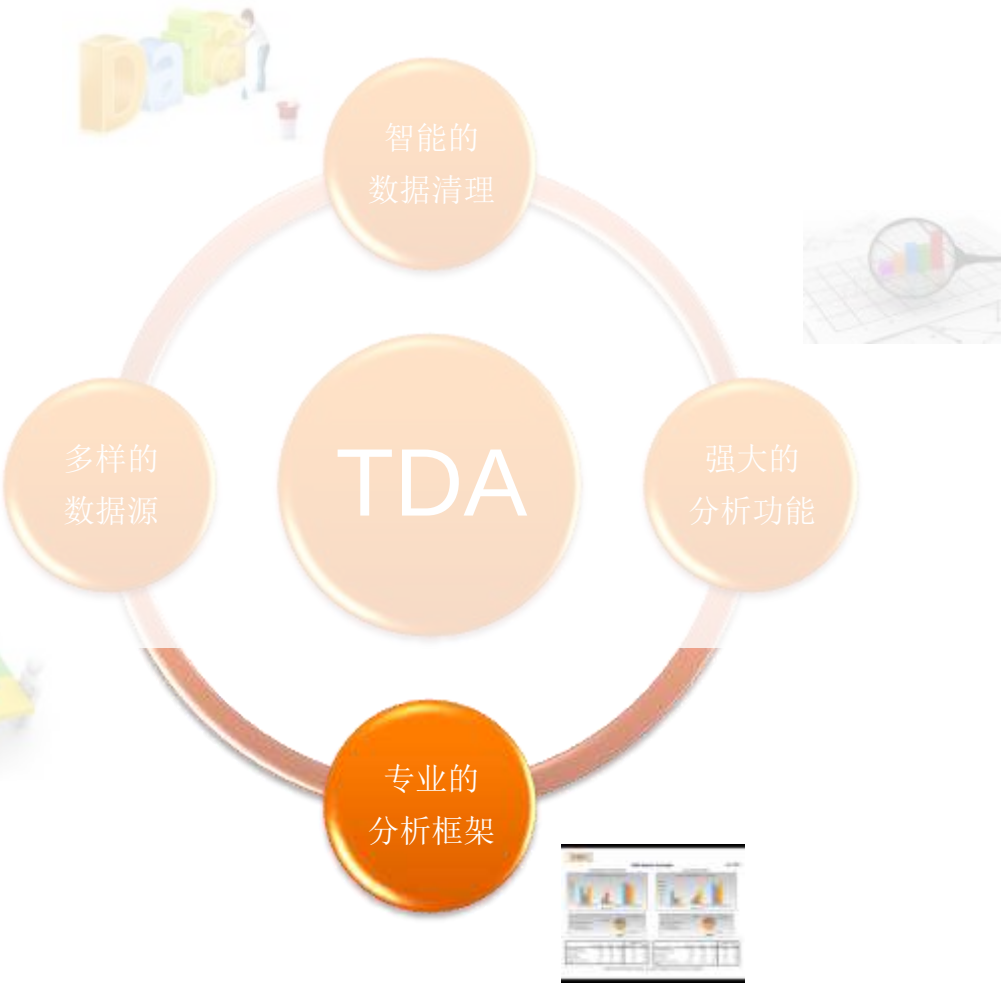
左图展示了某一技术领域最近三年新出现的技术词汇和最近三年不再使用的技术词汇，从而通过词汇的研读可以了解技术发展趋势和热点



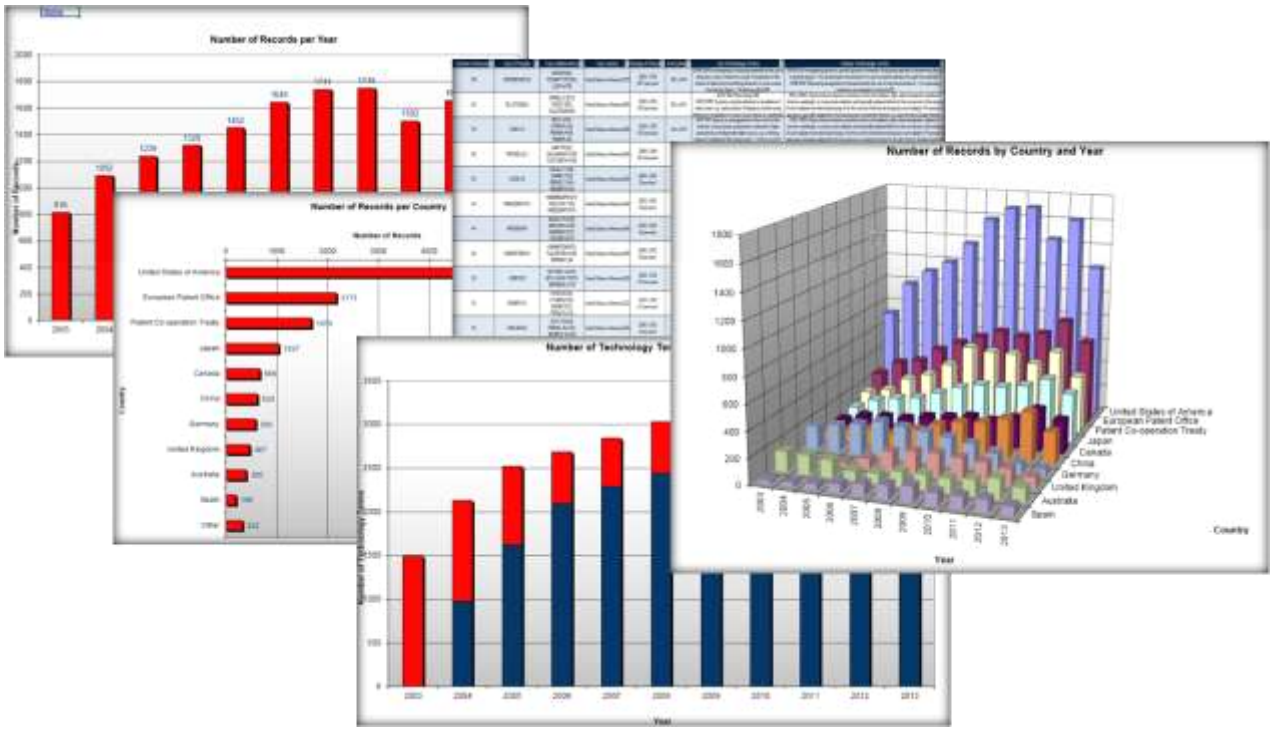
技术热点聚类-主成分地图（德温特摘要NLP）



TDA的优势



一键式生成报告！



THOMSON REUTERS

专业的分析框架

基于专业的分析框架，TDA能够快速生成全方位分析报告：

公司分析报告

公司间比较分析报告

某一领域的技术分析报告

通过分析报告可以快速从多个角度了解：

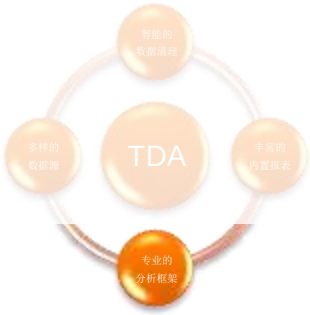
各目标分析公司的专利发展情况及内部研发团队成员情况

特定技术领域的发展趋势

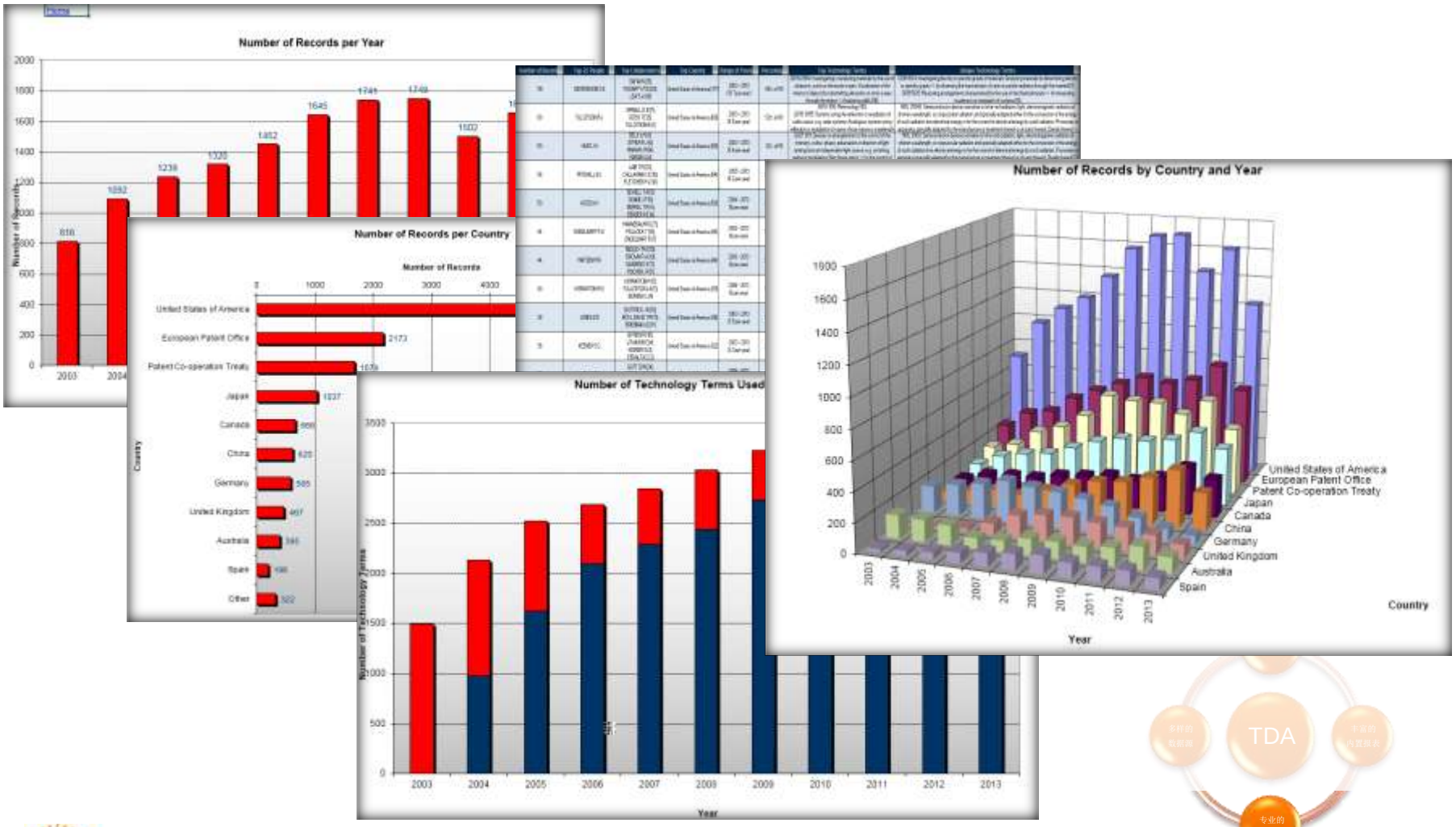
核心专利发明人及其所属公司

潜在的专利推广对象

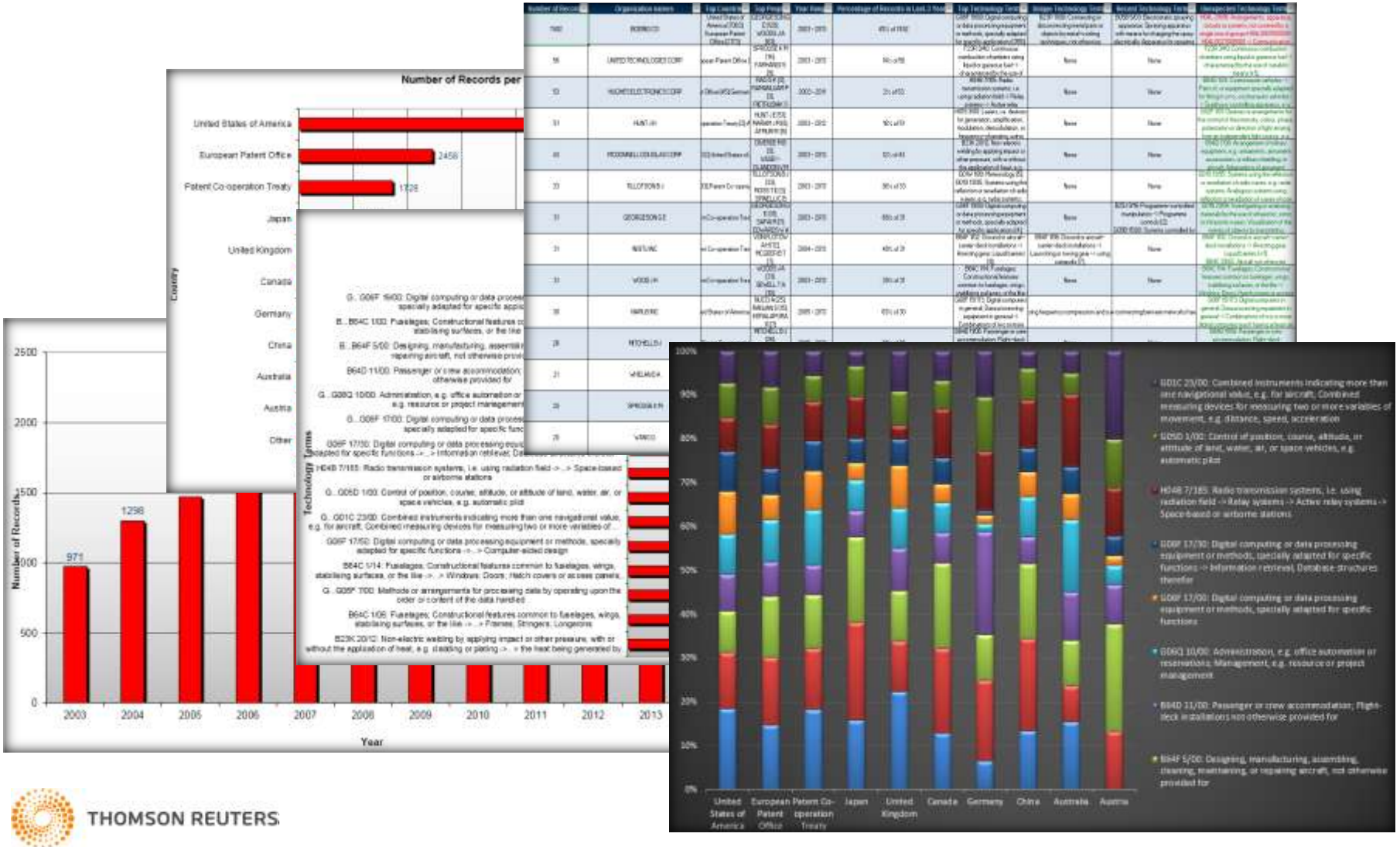
TDA根据客户的反馈不断地增加和升级各种分析报告，以满足多方位的分析需求



专业的分析框架 – 公司分析报告



专业的分析框架 – 技术分析报告



THOMSON REUTERS

小结：

案例： 中国社会主义

全景分析

国家研究产出分布

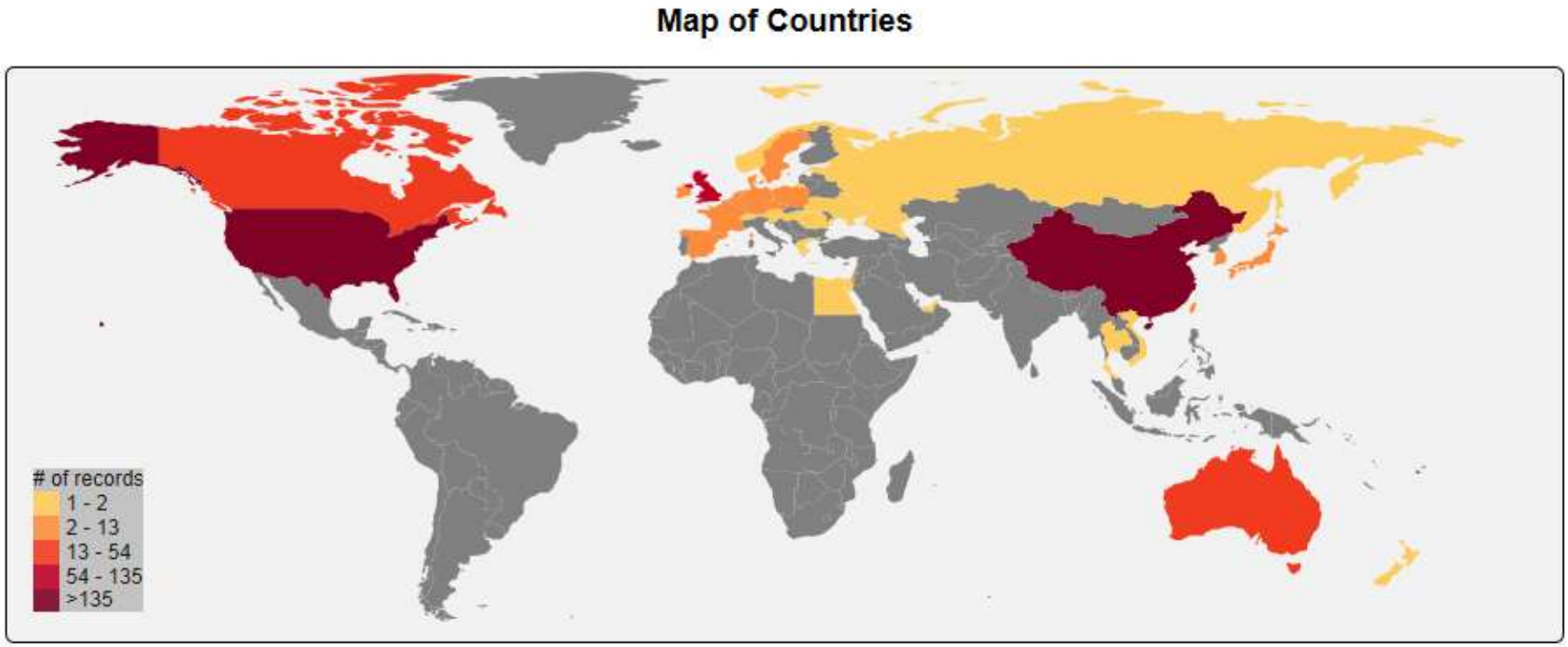
本研究领域的时空分布

高影响力文献的主要研究领域

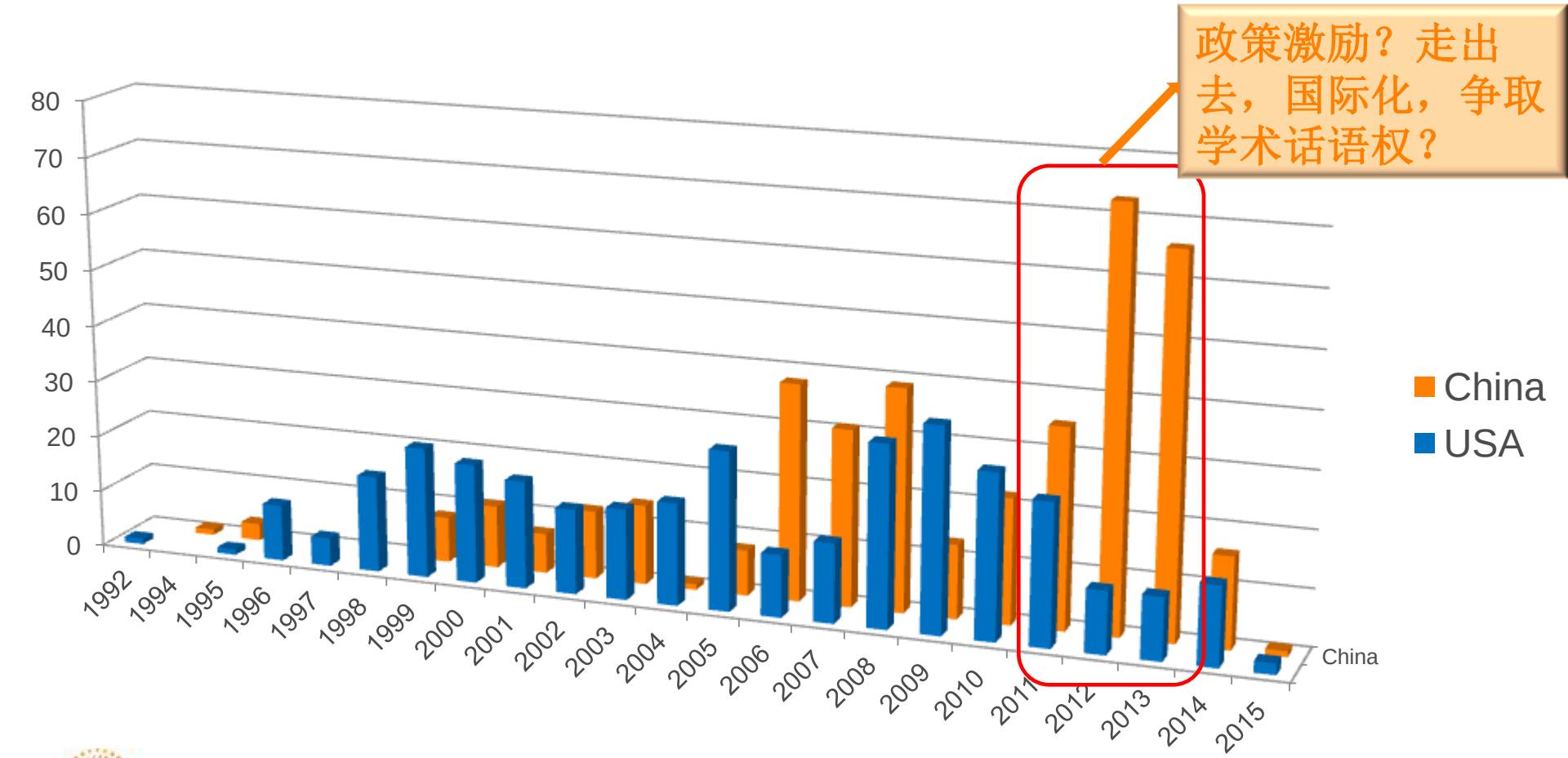
本领域的核心参考文献和高影响力作者

本领域主要研究机构合作网络图谱

国家研究产出分布



本领域研究产出的时间分布（中国VS美国）



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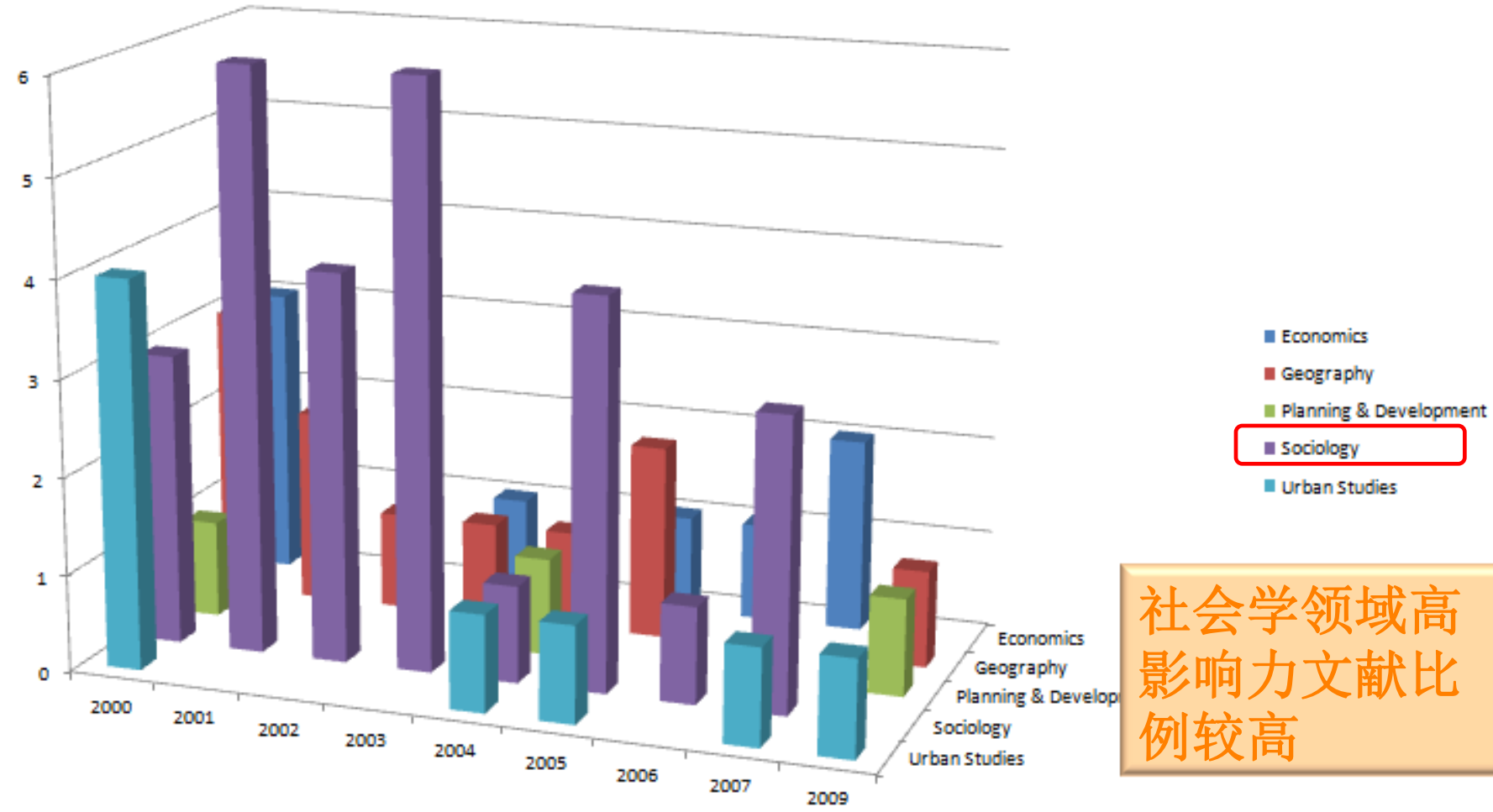
本领域高影响力文献研究领域分布（被引频次>20）



社会学领域高影响力文献比例较高

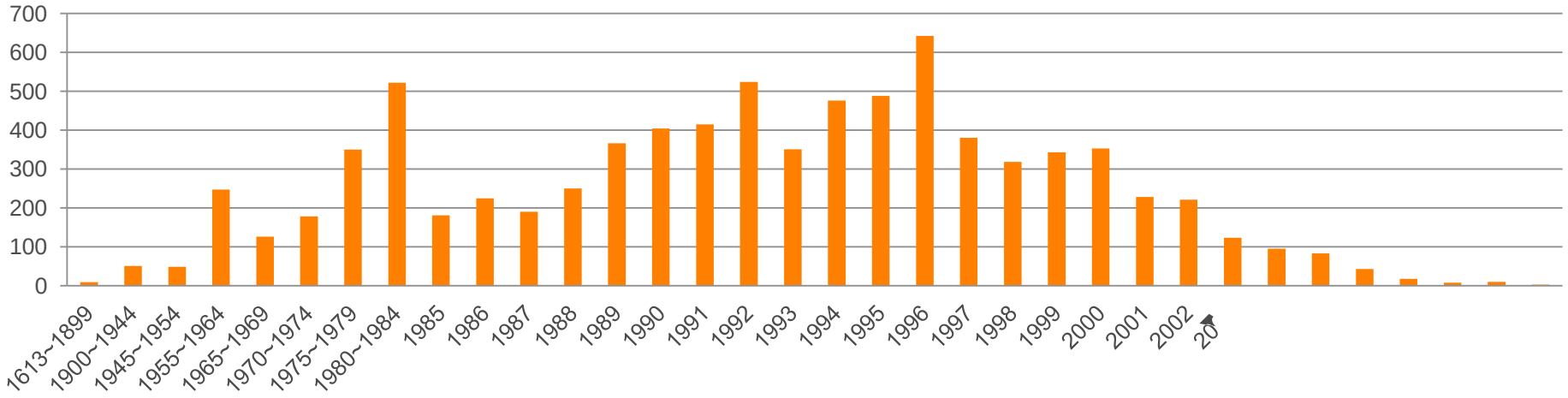
本领域的核心参考文献

	# Records	# Instances	Cited References
1	56	56	NEE V, 1989, AM SOCIOL REV, V54, P663, DOI 10.2307/2117747
2	48	48	NEE V, 1991, AM SOCIOL REV, V56, P267, DOI 10.2307/2096103
3	36	36	RONATAS A, 1994, AM J SOCIOL, V100, P40, DOI 10.1086/230499
4	33	33	Nee V, 1996, AM J SOCIOL, V101, P908, DOI 10.1086/230784
5	30	30	Walder Andrew G., 1986, COMMUNIST NEOTRADITI
6	29	29	WALDER AG, 1992, AM SOCIOL REV, V57, P524, DOI 10.2307/2096099
7	26	26	Parish William L., 1984, URBAN LIFE CONT CHIN
8	25	25	OI JC, 1992, WORLD POLIT, V45, P99, DOI 10.2307/2010520
9	25	25	Xie Y, 1996, AM J SOCIOL, V101, P950, DOI 10.1086/230785
10	24	24	NEE V, 1992, ADMIN SCI QUART, V37, P1, DOI 10.2307/2393531
11	23	23	SZELENYI I, 1978, INT J COMP SOCIOL, V19, P63, DOI 10.1177/002071527801900105
12	22	22	WALDER AG, 1995, AM SOCIOL REV, V60, P309, DOI 10.2307/2096416
13	21	21	Bian YJ, 1996, AM SOCIOL REV, V61, P739, DOI 10.2307/2096451
14	20	20	LIN N, 1991, AM J SOCIOL, V97, P657, DOI 10.1086/229816
15	20	20	Parish WL, 1996, AM J SOCIOL, V101, P1042, DOI 10.1086/230788
16	20	20	Walder AG, 1996, AM J SOCIOL, V101, P1060, DOI 10.1086/230789
17	18	18	LIN N, 1995, THEOR SOC, V24, P301, DOI 10.1007/BF00993350
18	18	18	Szelenyi I, 1996, AM J SOCIOL, V101, P1082, DOI 10.1086/230791
19	17	17	Bian Y. J., 1994, WORK INEQUALITY URBA
20	16	16	PENG YS, 1992, AM SOCIOL REV, V57, P198, DOI 10.2307/2096205
21	16	16	Stark D, 1996, AM J SOCIOL, V101, P993, DOI 10.1086/230786
22	16	16	WALDER AG, 1995, AM J SOCIOL, V101, P263, DOI 10.1086/230725
23	16	16	Zhou XG, 2000, AM J SOCIOL, V105, P1135, DOI 10.1086/210401

Summary | List:Web of Science Category | List:Web of S

Victor Nee多篇文献被本领域文献引用较高

参考文献分布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1995
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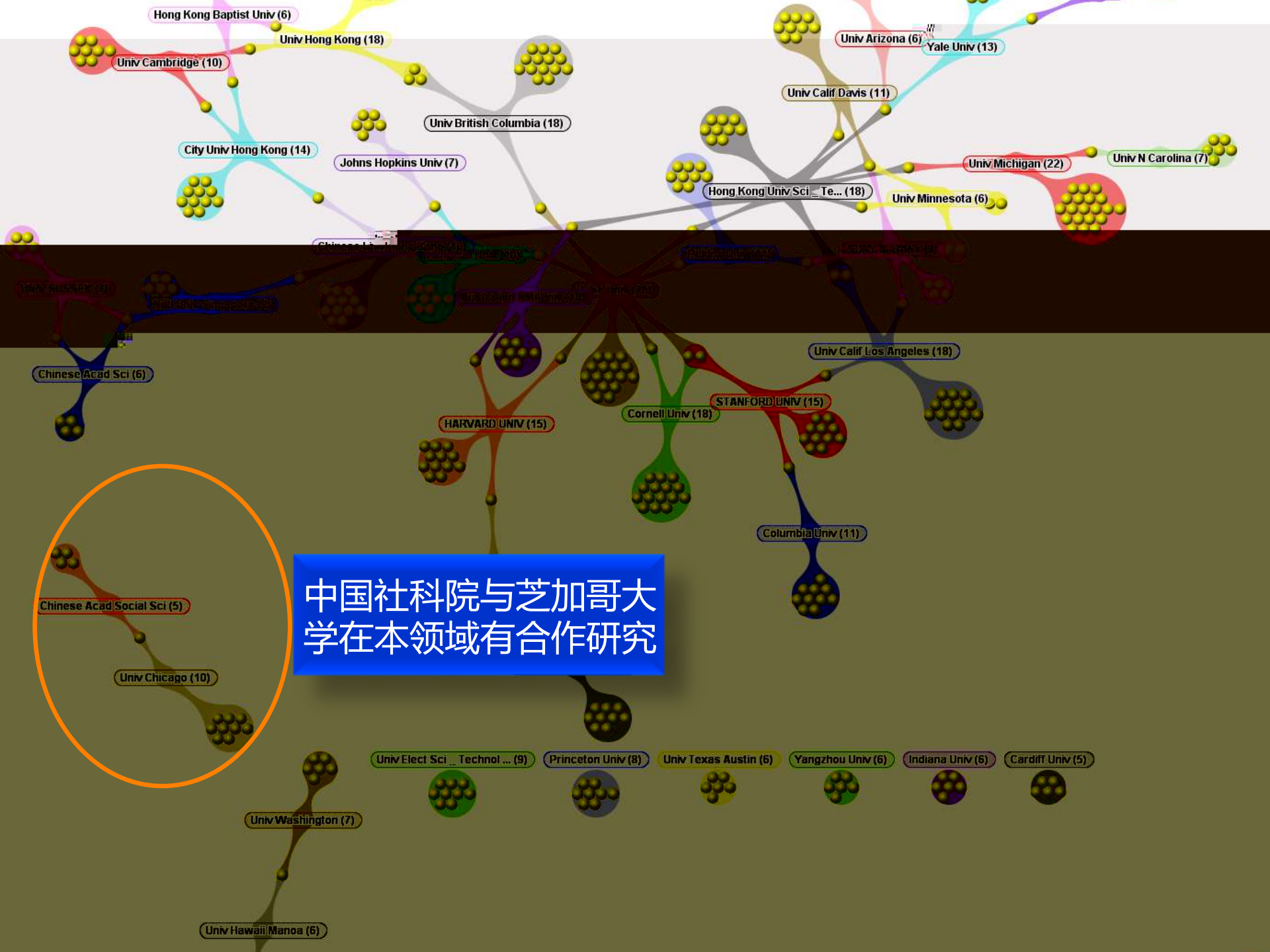
1998
1999
2000
2001
2002

本领域的高影响力作者

	# Records	# Instances	Cited Authors
1	67	238	Nee, V
2	63	177	Walder, A G
3	43	73	Szelenyi, I
4	42	44	Walder Andrew G.
5	38	46	Ronatas, A
6	37	60	Lin, N
7	33	42	Bian, Y J
8	31	54	Oi, J C
9	30	49	Stark, D
10	30	62	Zhou, X G
11	26	28	Parish William L.
12	26	27	Xie, Y
13	24	33	Burawoy, M

Victor Nee和 Andrew G. Walder 是本领域的高影响力作者



中国社科院与芝加哥大学在本领域有合作研究

研究热点

本领域有哪些研究热点？

研究热点随时间和空间的变迁？

( )

Reset		Combined Keywords + Phrases (Cleaned)	1	2	3	4	5	6	7	8	9	10	11	12	13
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1	143	STATE SOCIALISM	0.00	4.98	8.77	6.68	3.64	1.							
2	141	transition	0.00	6.40	7.29	10.50	4.85	5.							
3	134	reform	0.00	4.98	10.12	8.45	8.83	6.							
4	123	Urban China	0.95	5.14	7.30	9.86	4.35	3.							
5	111	development	0.00	2.51	20.88	12.96	8.97	5.							
6	106	MARKET TRANSITION	0.48	6.86	4.03	9.59	4.85	3.							
7	99	stratification	0.00	5.73	3.04	8.34	4.85	2.							
8	94	ECONOMY	0.00	4.29	5.60	7.15	6.38	5.55	5.57	7.22	2.51	2.95	6.00	3.25	2.60
9	94	REDISTRIBUTION	0.00	4.67	3.04	4.79	4.17	1.62	1.72	6.32	4.29	2.35	4.52	3.25	2.60
10	92	STATE	0.00	7.19	3.64	8.96	8.10	1.62	6.10	6.30	4.98	3.00	8.00	5.70	2.08
11	85	Chinese socialism	0.48	2.51	3.64	3.00	1.69	1.62	2.83	4.58	4.98	1.48	0.00	0.00	1.34
12	82	Study	0.00	3.82	11.00	10.39	7.30	6.47	5.09	5.25	3.82	4.00	5.00	1.41	2.60
13	81	MARKETS	0.00	3.82	6.09	4.49	6.76	1.62	3.72	1.75	4.32	4.00	4.00	6.37	2.08
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15	71	INEQUALITY	0.00	3.24	6.07	4.79	6.94	0.00	2.83	6.30	4.32	2.35	11.35	0.00	2.08
16	71	politics	0.00	2.51	8.05	3.97	3.64	2.64	6.68	3.81	2.51	4.38	6.75	3.25	4.33
17	67	Capitalism	0.00	4.98	15.83	9.19	7.62	10.58	4.46	3.81	0.00	2.35	4.00	1.41	2.60
18	66	Transformation	0.00	0.00	6.72	7.15	6.53	3.44	4.46	7.15	6.40	0.00	4.50	5.01	1.34
19	60	process	0.00	6.00	6.72	3.97	5.44	5.11	7.43	4.58	0.00	4.00	7.22	4.88	0.00
20	53	MARKET SOCIALISM	0.00	5.02	3.04	3.00	7.28	1.62	7.62	8.23	8.59	4.70	0.00	0.00	2.68
21	52	theory	0.00	4.77	10.08	7.18	10.94	0.00	4.24	11.58	2.51	0.00	6.32	0.00	1.34

List::Countries | Matrix::Combined Keywords + Phrases (Cleane

转型、改革、发展、中国特色社会主义、资本主义是近年来较为热门

中国文献揭示的研究热点

Reset		Combined Keywords + Phrases (Cleaned)	1	2	3	4	5	6	7	8	9	10	11	12	13
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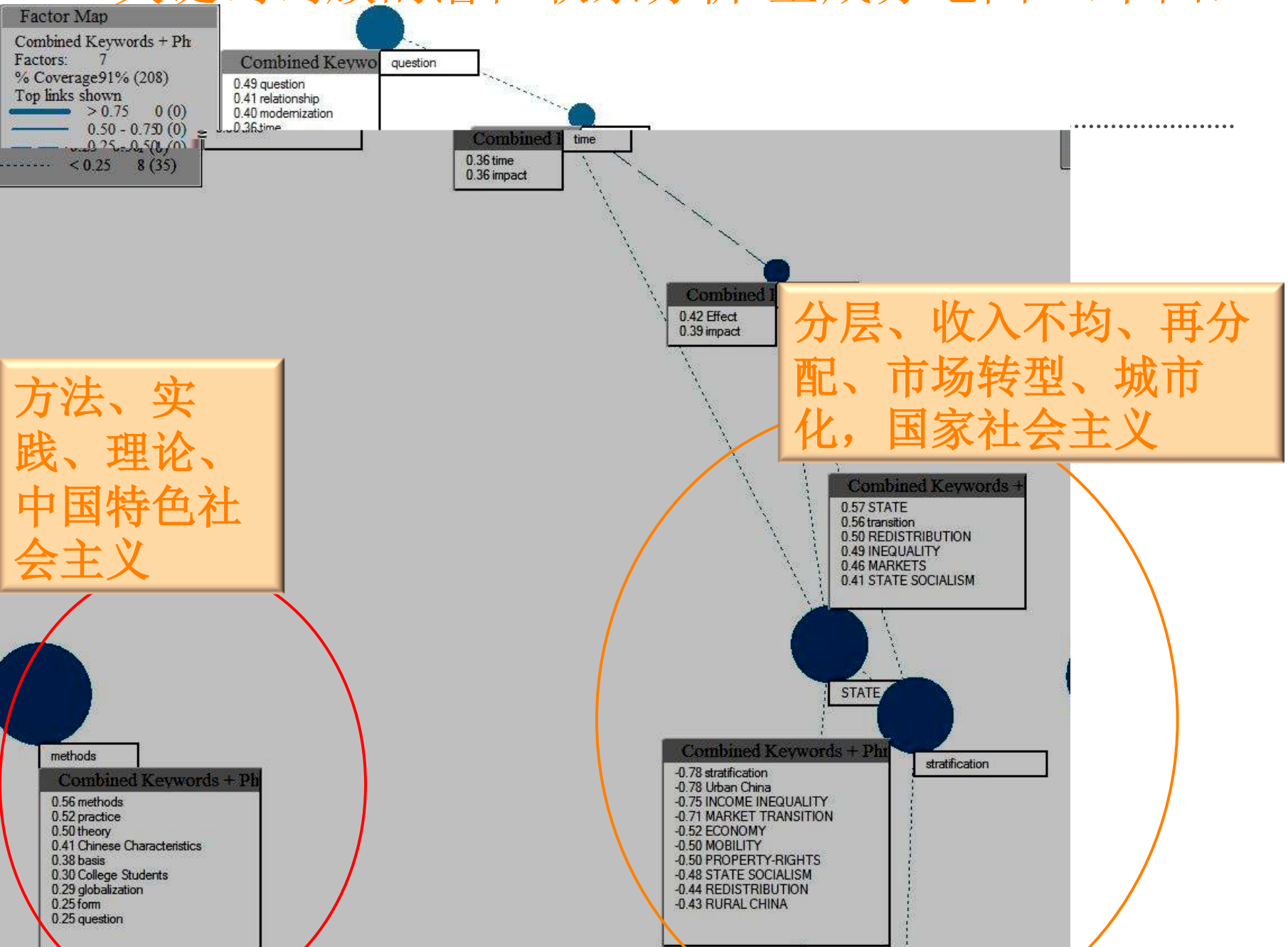
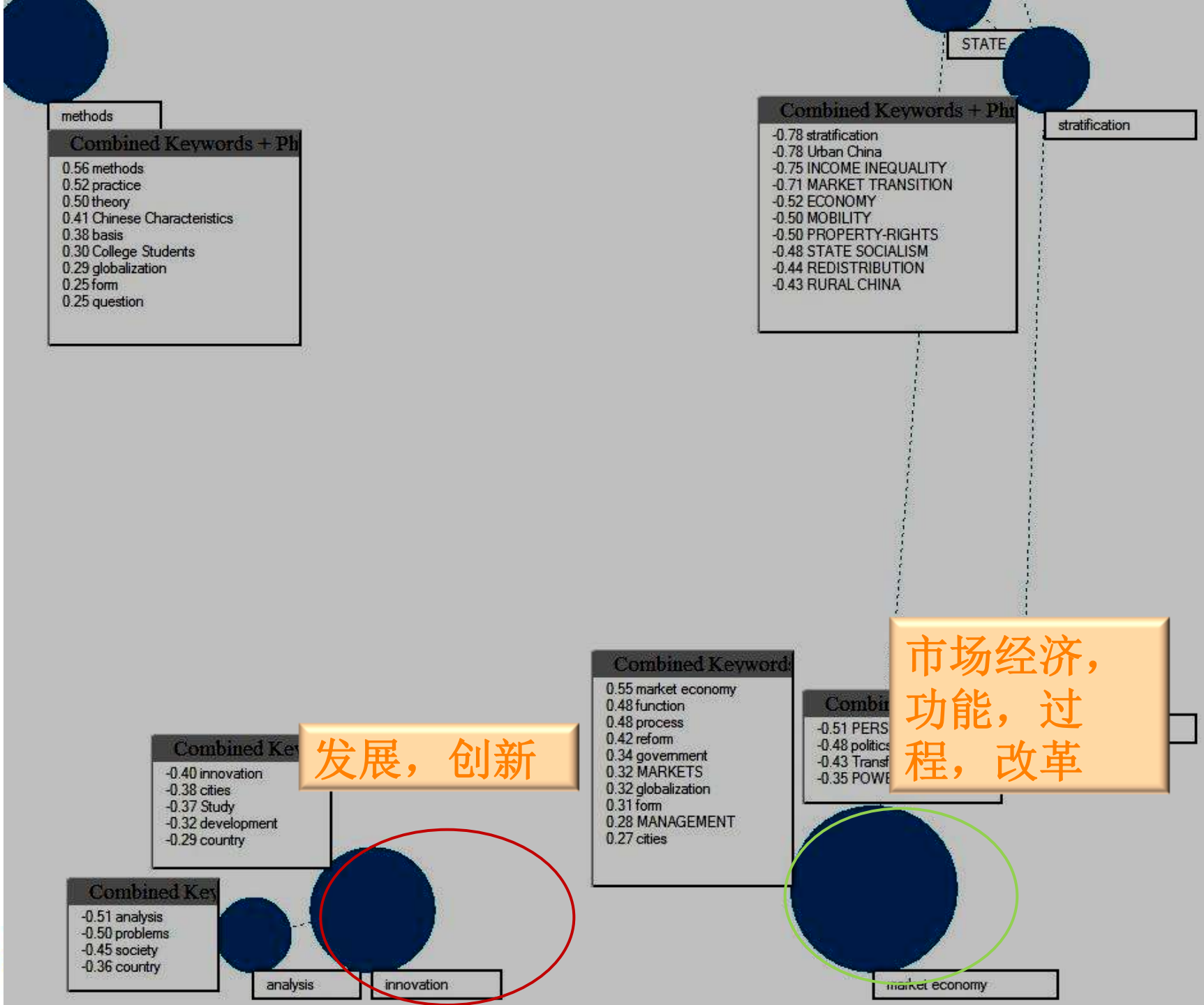
1	55	development	0.00	1.15	15.09	8.70	4.51								
2	42	Chinese Characteristics	0.00	4.68	17.33	11.71	2.96								
3	34	reform	0.00	2.18	5.52	6.23	2.60								
4	34	Study	0.00	2.01	5.13	4.62	2.96								
5	34	Urban China	0.00	1.69	1.63	7.39	2.08								
6	33	STATE SOCIALISM	0.00	2.18	3.47	3.44	0.00	0.00	0.00	2.33	1.81	2.18	0.95	0.00	2.98
7	29	stratification	0.00	3.38	2.66	5.45	2.68	0.00	0.00	2.33	1.08	1.81	0.78	0.00	1.20

中国特色社会主义的比重较高（42/71）

政府、问题、理论近年来较为热门

关键词词簇的潜在联系分析-主成分地图 （中国）

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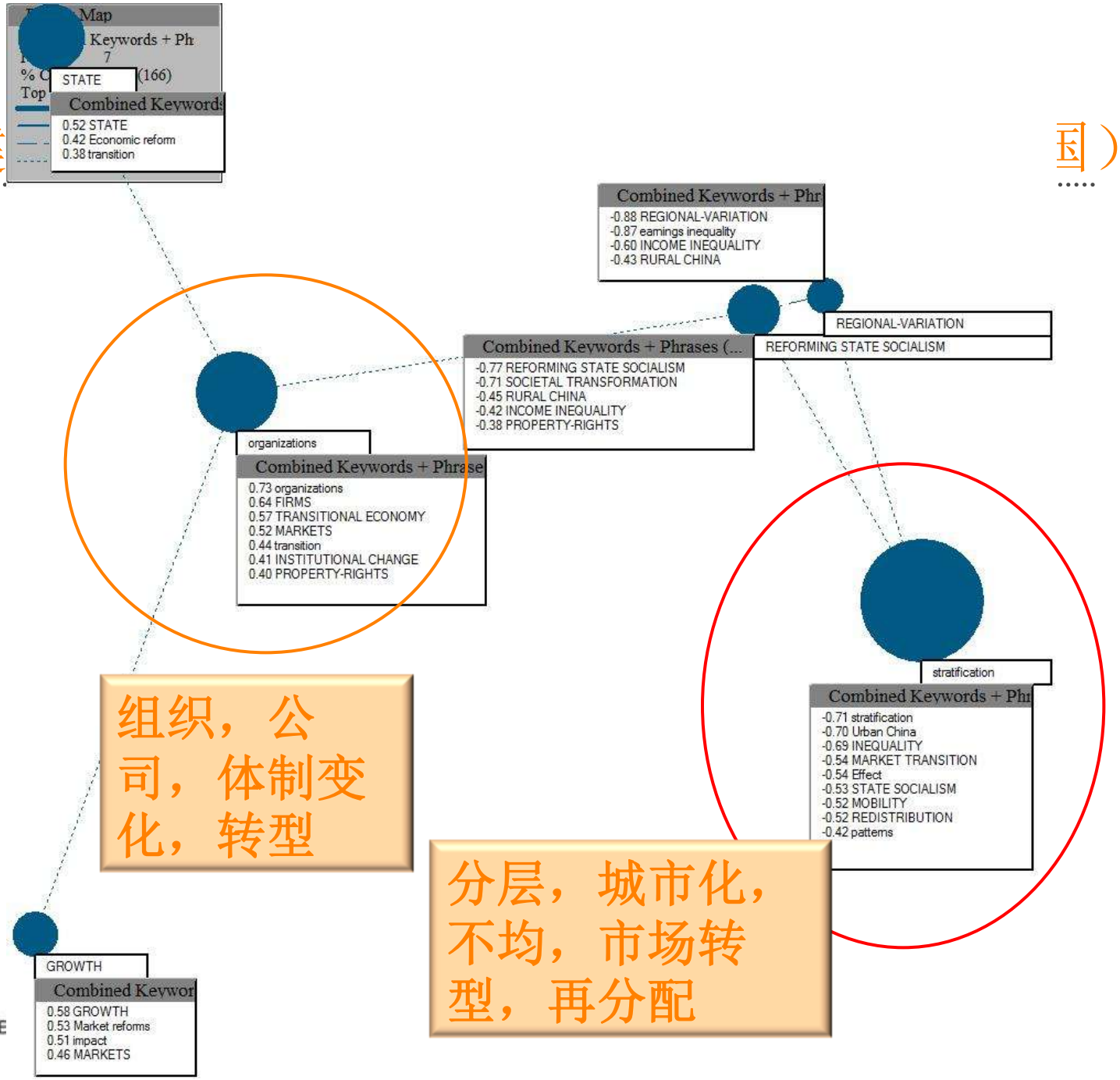
0.50 theory
0.41 Chinese Characteristics
0.38 basis
0.30 College Students
0.29 globalization
0.25 form
0.25 question
STATE
stratification
Combined Keywords + Phr
-0.78 stratification
-0.78 Urban China
-0.75 INCOME INEQUALITY
-0.71 MARKET TRANSITION
-0.52 ECONOMY
-0.50 MOBILITY
-0.50 PROPERTY-RIGHTS
-0.48 STATE SOCIALISM
-0.44 REDISTRIBUTION
-0.43 RURAL CHINA
Combined Key
-0.40 innovation
-0.38 cities
-0.37 Study
-0.32 development
-0.29 country
发展，创新
Combined Key
-0.51 analysis
-0.50 problems
-0.45 society
-0.36 country
analysis
innovation
Combined Keyword
0.55 market economy
0.48 function
0.48 process
0.42 reform
0.34 government
0.32 MARKETS
0.32 globalization
0.31 form
0.28 MANAGEMENT
0.27 cities
Combi
-0.51 PERS
-0.48 politics
-0.43 Transf
-0.35 POWE
市场经济，功能，过程，改革
market economy

关键


Map
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(166)
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Combined Keywords + Phrases (...
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Combined Keywords + Phrase
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0.52 MARKETS
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0.41 INSTITUTIONAL CHANGE
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组织，公司，体制变化，转型
stratification
Combined Keywords + Phr
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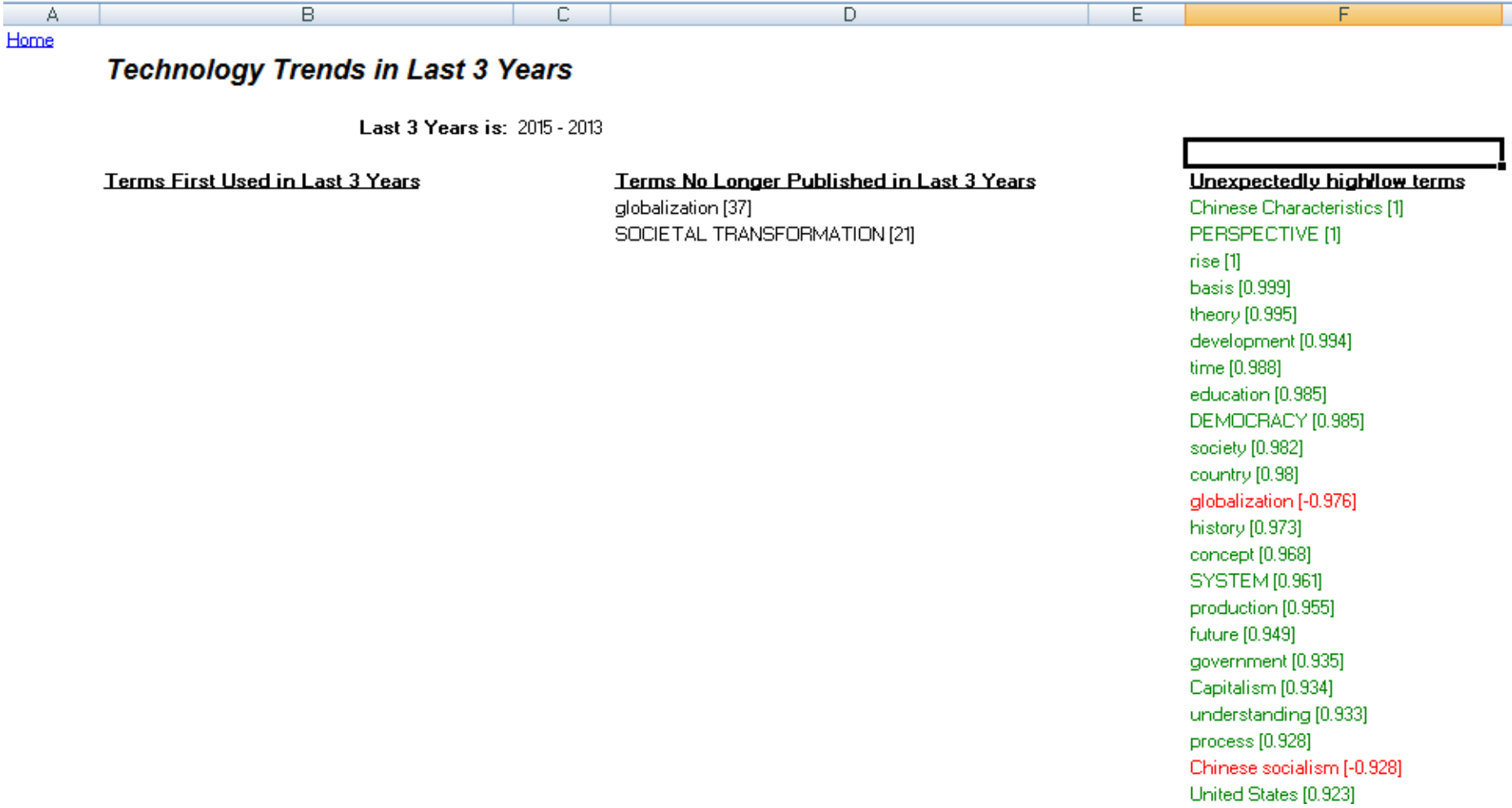
-0.53 STATE SOCIALISM
-0.52 MOBILITY
-0.52 REDISTRIBUTION
-0.42 patterns
分层，城市化，不均，市场转型，再分配
GROWTH
Combined Keywor
0.58 GROWTH
0.53 Market reforms
0.51 impact
0.46 MARKETS

研究发展趋势（热点的变迁）



A B C D E F

Home

Technology Trends in Last 3 Years

Last 3 Years is: 2015 - 2013

Terms First Used in Last 3 Years

Terms No Longer Published in Last 3 Years

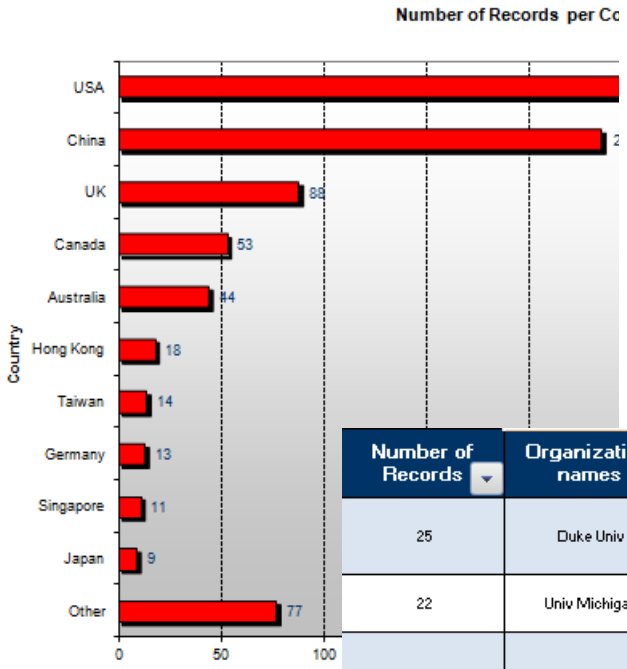
globalization [37]
SOCIETAL TRANSFORMATION [21]

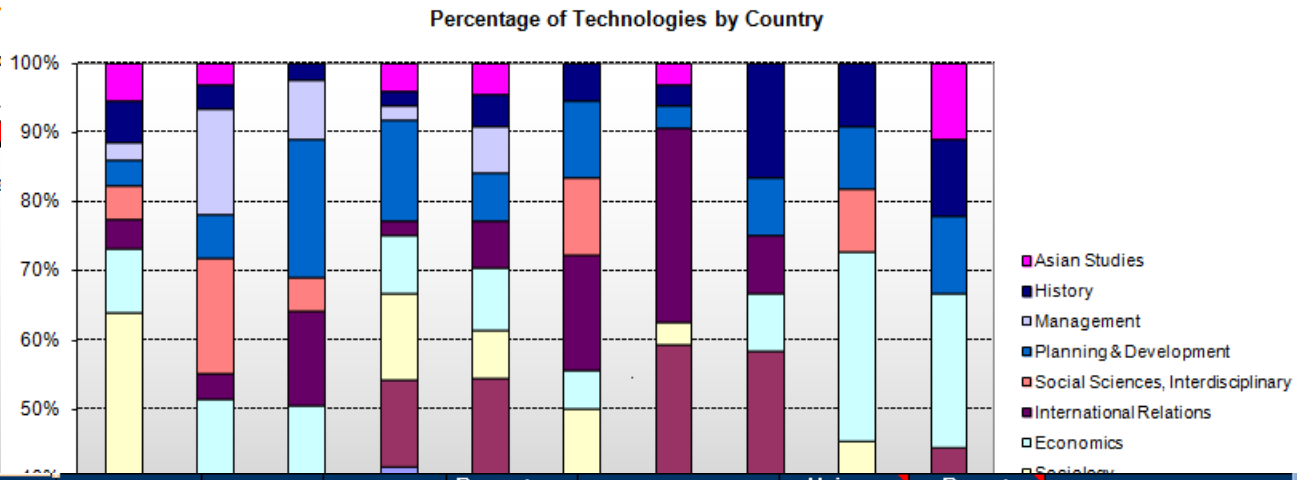
Unexpectedly high/low terms

Chinese Characteristics [1]
PERSPECTIVE [1]
rise [1]
basis [0.999]
theory [0.995]
development [0.994]
time [0.988]
education [0.985]
DEMOCRACY [0.985]
society [0.982]
country [0.98]
globalization [-0.976]
history [0.973]
concept [0.968]
SYSTEM [0.961]
production [0.955]
future [0.949]
government [0.935]
Capitalism [0.934]
understanding [0.933]
process [0.928]
Chinese socialism [-0.928]
United States [0.923]

一键生成报告

一键生成报告（Technology Report）



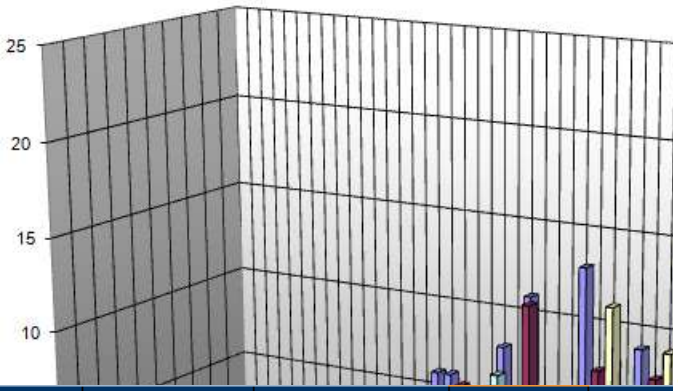


Number of Records	Organization names	Top Countries	Top People	Year Range	Percentage of Records in Last-	Top Technology Terms	Unique Technology Terms	Recent Technology Terms	Unexpected Technology Terms
25	Duke Univ	USA [25]; China [3]	Zhou, XG [8]; Dirlik, Arif [5]; LIN, N [4]	1981 - 2015	4% of 25	Sociology [10]; Political Science [5]; Area Studies [4]; Management [4]	None	None	Sociology [+0.997]; Economics [-0.959]; Management [+0.957]
22	Univ Michigan	USA [22]	Xie, Y [4]; WHYTE, MK [3]; Wu, XG [2]	1980 - 2014	14% of 22	Area Studies [9]; Sociology [8]; Asian Studies [3]	None	None	Sociology [+0.987]; Area Studies [+0.955]; Asian Studies [+0.942]
18	Cornell Univ	USA [18];Sweden [2]	Nee, Victor [8]; Zhou, XG [4]; Opper, Sonja [2]; Cao, Y [2]; Tuma, NB [2]; Moen, P [2]	1972 - 2010	0% of 18	Sociology [12]; Business [3]; Area Studies [2]; Management [2]; Economics [2]	None	No recent records	Sociology [+1]; Business [+0.991]; Reproductive Biology [+0.983]
18	ong Kong Univ Sci & Tech	[16];USA [9];Hong Ko	Bian, YJ [6]; Lin, YM [3]; Wu, Xiaogang [3]	1997 - 2012	0% of 18	Sociology [10]; Area Studies [4]; Economics [2]; Political Science [2]	None	No recent records	Sociology [+1]
18	Univ British Columbia	18];China [4];UK [2];Au	McGee, Terry G [4]; Dirlik, Arif [3]; Marton, Andrew M [2]; Lin, George C S [2]; Wang, Mark Y L [2]; Hanser, Amy [2]; Lin, GCS [2]; Wu, Jiaping [2]	1981 - 2014	6% of 18	Area Studies [9]; Planning & Development [3]; Geography [3]	None	None	Area Studies [+0.989]; Geography [+0.973]; Political Science [-0.973]
18	Univ Calif Los Angeles	USA [18];China [2]	Baum, R [4]; Shevchenko, A [2]; Fan, CC [2]; Szelenyi, Ivan [2]	1983 - 2011	0% of 18	Geography [6]; Area Studies [5]; Sociology [4]; Economics [4]	None	No recent records	Geography [+1]; Planning & Development [+0.911

THOMSON RE

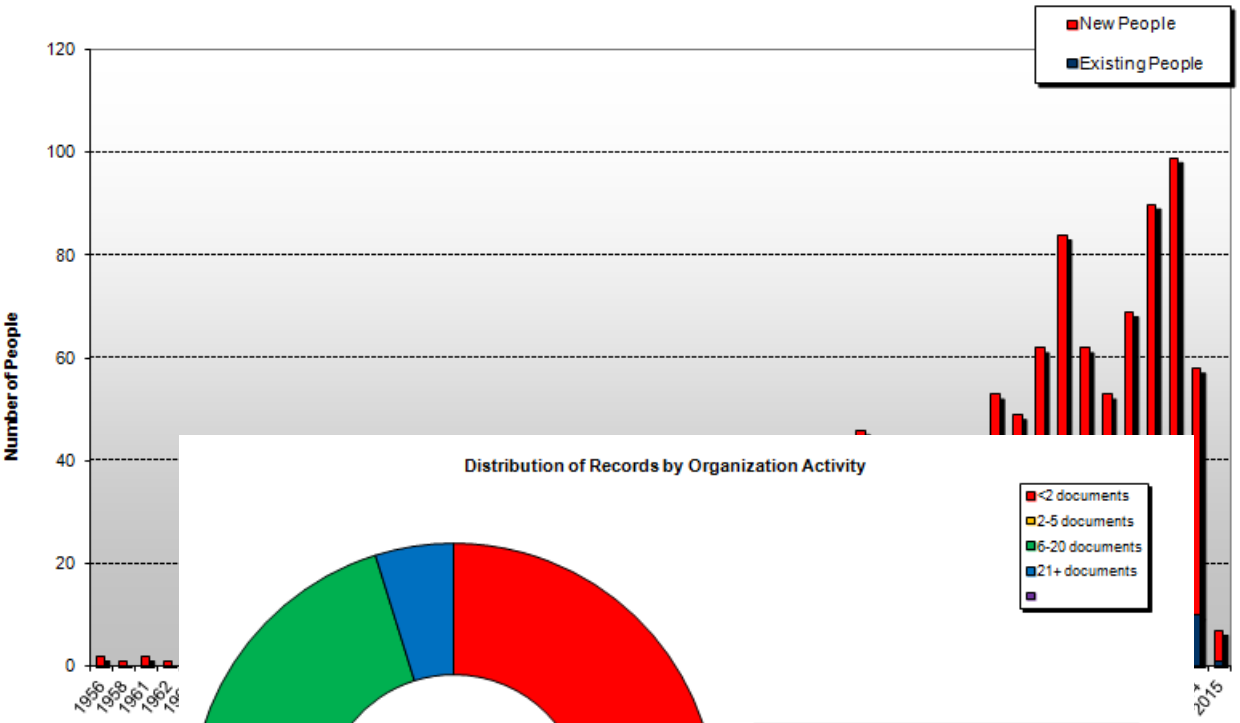
一键生成报告（Technology Report）

Number of Records by Technology and Year

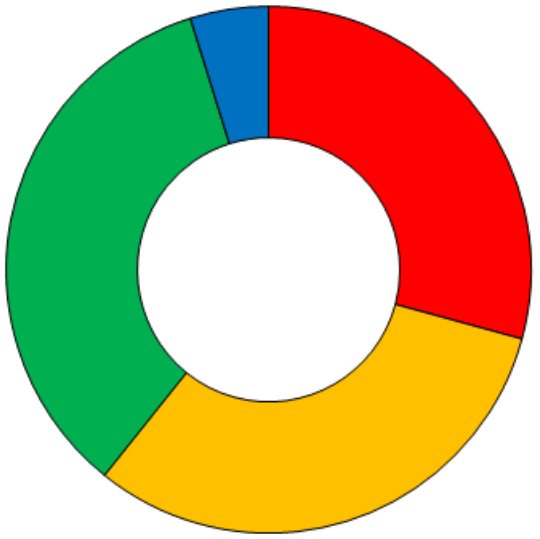


Number of Records	Person	Top Organization	Top-3 Collaborators (people)	Year Range	
17	Walder, Andrew G	HARVARD UNIV [8]	None	1986 - 2	
12	Dirlik, Arif	Duke Univ [5]	None	1981 - 2	
9	Bian, YJ	Kong Univ Sci & Tech	Logan, JR [3]; Shu, XL [2]	1996 - 2	
9	Zhou, XG	Duke Univ [8]	Zhao, W [2]; Moen, P [2]; Tuma, NB [2]	1993 - 2	
8	Nee, Victor	Cornell Univ [8]	Opper, Sonja [2]	1991 - 2010	0% of 8
7	Szelenyi, Ivan	Yale Univ [5]	None	1995 - 2013	14% of 7
6	Gerber, TP	Univ Arizona [3]	Hout, M [2]	1998 - 2004	0% of 6
6	Guthrie, Doug	NYU [4]	None	1997 - 2009	0% of 6
6	Williams, H	Columbia Univ [2]; Yale Univ [2]	None	1993 - 2001	0% of 6
5	[Anonymous]	None	None	1981 - 2009	0% of 5
5	Hurst, William	Univ Texas Austin [4]	None	2008 - 2009	0% of 5

Number of People Active by Year



Distribution of Records by Organization Activity



This pie chart shows how the records in the dataset are shared amongst organizations, and their relative strength within the area.

The organizations are categorized according to the number of records they hold within the dataset.

Organizations in the highest category hold a high number of records, those in the lowest hold only one record.

The size of each segment shows the number of records, not the number of organizations.

The larger the high-value segments, the more the dataset is dominated by fewer large-players in the area (potentially indicating a mature technology).

If dominated by lower-value segments, then this shows a large number of smaller players in the area (potentially indicating a new dynamic technology area).

Thomson Reuters

THOMSON REUTERS

大纲

64-位版本发布　处理量和处理速度提升的保证

用户界面

重新设计的，更时尚的表单页面和一键式报告

全新的可视化图表

Treemaps, Sunburst, Circle Pack

Browse Classifications

Patent Vital Signs

不仅仅是简单“有效”和“无效”分析

本地化语言界面

中文界面和用户手册

新版本TDA6.0 安装方法

大数据时代的TDA 64位版

版本介绍

从现在开始，TDA提供两个版本供您选择　32 bit 和64 bit版

如果您想选择64位版，您的电脑必须选择64位的操作系统 (operating system)

同时，为保证Aduna图的正常运行，您需要安装64位的Java，因此，您需要更新为64位的JAVA

64-BIT TDA: 大数据处理能力增强

TDA数据处理能力限制

对于32-bit, 微软Windows系统限制任何应用超过内存的容量2G

如果结果 >2GB， Windows将停止该程序(所有程序,不仅仅是TDA)

60.000条数据的文件很可能超过 2GB (取决于数据的字段输出数量和大小)

64位TDA的优化包括

更好的分析 Derwent Patent Citation Index (DPCI)数据(DPCI数据的输出不可避免的增加数据的大小)

整体专利组合分析

国别分析

技术领域分析

用户界面提升

Summary Sheet

TDA Reports

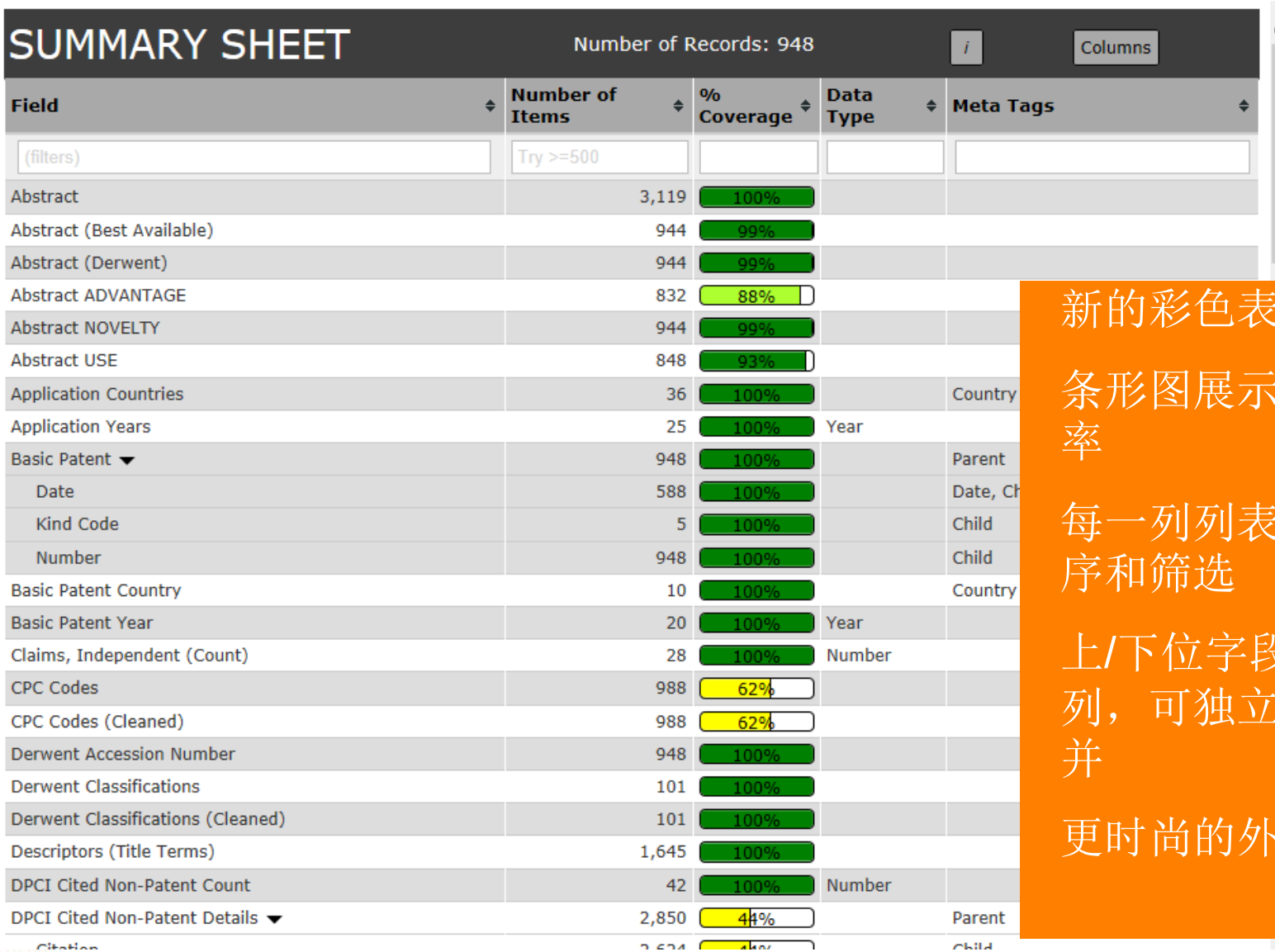
旧的数据汇总页面

Number of Records: 2,849 Source Database: Thomson Innovation - Patents (TDA format)

Source Date: Apr 25 2014 19:10 Source File: C:\Users\u0032371\Downloads\dataAnlz2014-04-25-18-52-17.txt

Field	Number of Items	% Coverage	Data Type	Meta Tags
::nils class	2,849	13%	Record Cla	
::type	2,849	0%	Record Cla	
Abstract	4,759	68%		
Abstract (Best Available)	1,583	55%		
Abstract (Derwent)	1,583	55%		
Abstract : test	2	32%		
Abstract : test (2)	78	32%		
Abstract : test 2	17	21%		
Abstract : test 2 (2)	18	25%		
Abstract ADVANTAGE	1,291	45%		
Abstract NOVELTY	1,583	55%		
Abstract USE	1,293	46%		
Application Countries	81	100%		Country
Application Countries (FIPS codes)	80	100%		Country
Application Countries:Bubble Countries	5	61%		Country
Application Years	31	100%	Year	
Basic Patent	1,599	56%		Parent
Number	1,599	56%		Child
Kind Code	14	56%		Child
Date	1,051	56%		Date; Child
Basic Patent Country	28	56%		Country
Basic Patent Year	31	56%	Year	
Claims, Independent (Count)	61	100%	Number	
CPC Codes	1,808	81%		
CPC Codes (Cleaned)	1,808	81%		
Derwent Accession Number	1,600	56%		
Derwent Classifications	113	56%		
Derwent Classifications (Cleaned)	113	56%		
Descriptors (Title Terms)	2,575	56%		

新的基于HTML的数据汇总页面



新的彩色表单

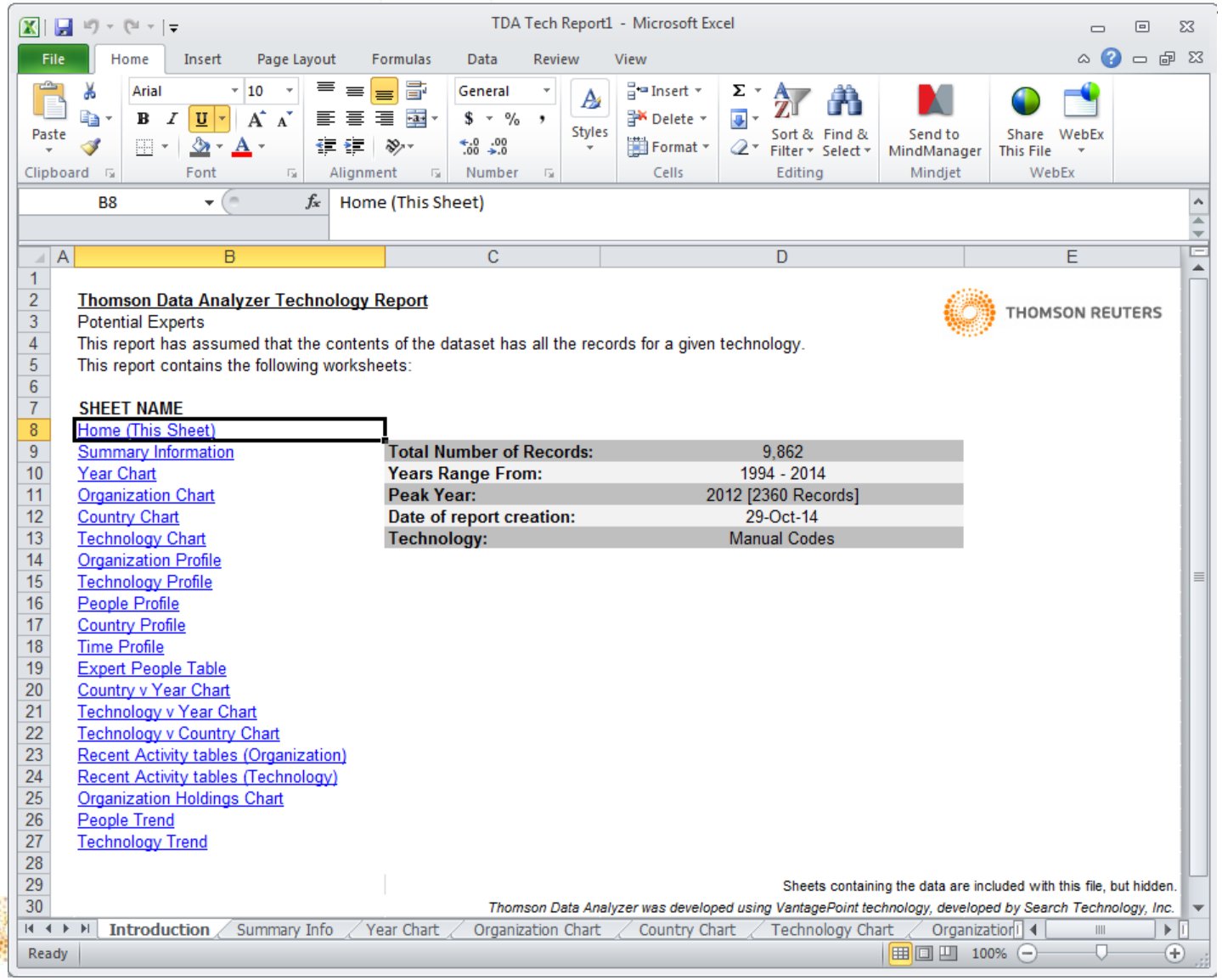
条形图展示数据覆盖率

每一列列表都支持排序和筛选

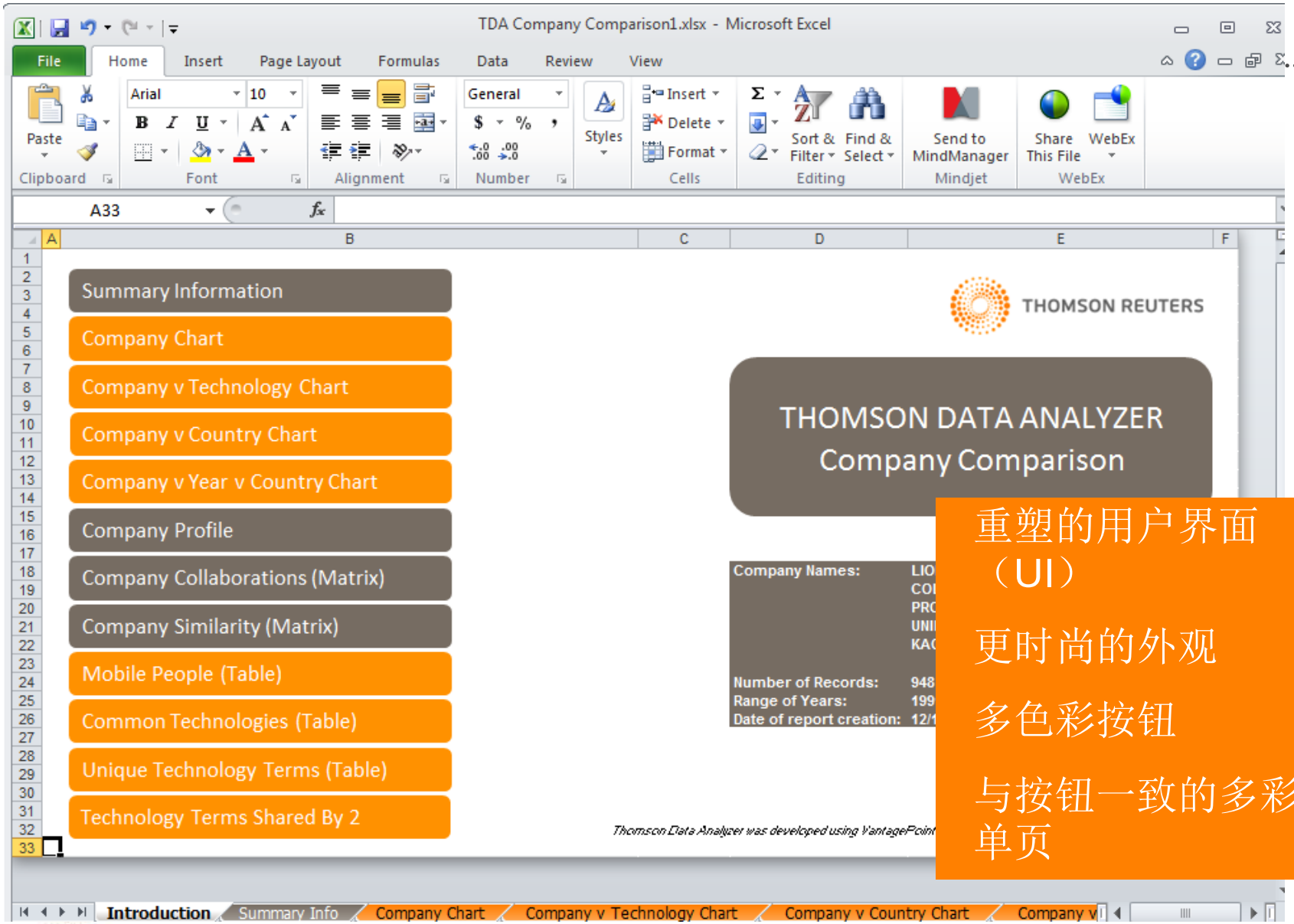
上/下位字段层级排列，可独立展开或归并

更时尚的外观和样式

之前的TDA技术报告


TDA Tech Report1 - Microsoft Excel
File
Home
Insert
Page Layout
Formulas
Data
Review
View
Paste
Clipboard
Arial
10
Font
Alignment
General
Number
Styles
Insert
Delete
Format
Cells
Sort & Filter
Find & Select
Editing
Send to MindManager
Mindjet
Share This File
WebEx
WebEx
B8
Home (This Sheet)
Thomson Data Analyzer Technology Report
Potential Experts
This report has assumed that the contents of the dataset has all the records for a given technology.
This report contains the following worksheets:
THOMSON REUTERS
SHEET NAME
Home (This Sheet)
Summary Information
Year Chart
Organization Chart
Country Chart
Technology Chart
Organization Profile
Technology Profile
People Profile
Country Profile
Time Profile
Expert People Table
Country v Year Chart
Technology v Year Chart
Technology v Country Chart
Recent Activity tables (Organization)
Recent Activity tables (Technology)
Organization Holdings Chart
People Trend
Technology Trend
Total Number of Records: 9,862
Years Range From: 1994 - 2014
Peak Year: 2012 [2360 Records]
Date of report creation: 29-Oct-14
Technology: Manual Codes
Sheets containing the data are included with this file, but hidden.
Thomson Data Analyzer was developed using VantagePoint technology, developed by Search Technology, Inc.
Introduction
Summary Info
Year Chart
Organization Chart
Country Chart
Technology Chart
Ready
100%

新报告风格



重塑的用户界面（UI）

更时尚的外观

多色彩按钮

与按钮一致的多彩表单页

全新
可视化图表

Aimed at hierarchical info

新TDA图表

Treemap树形图

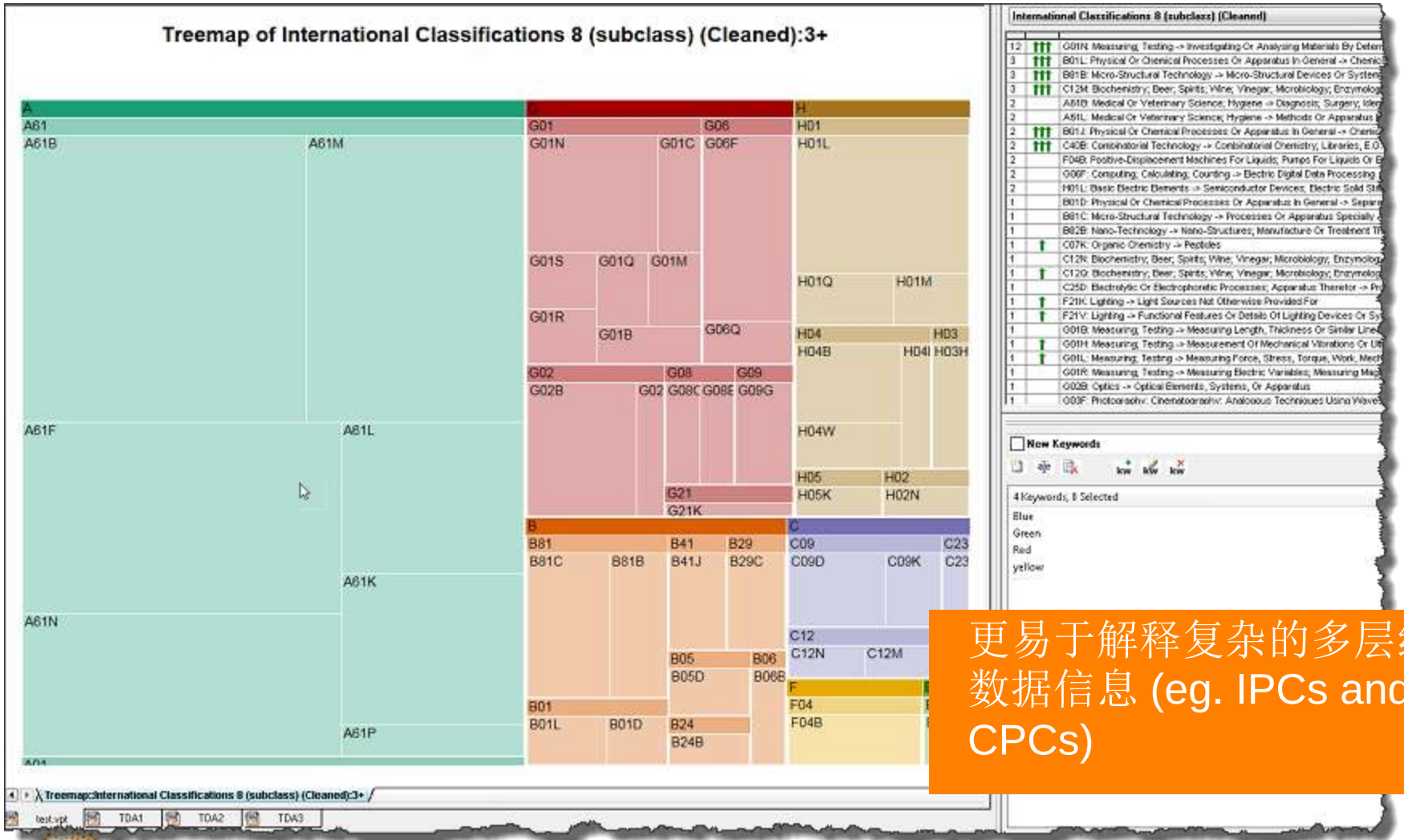
Sunburst

Circle Pack

Browse Classification
分类号浏览

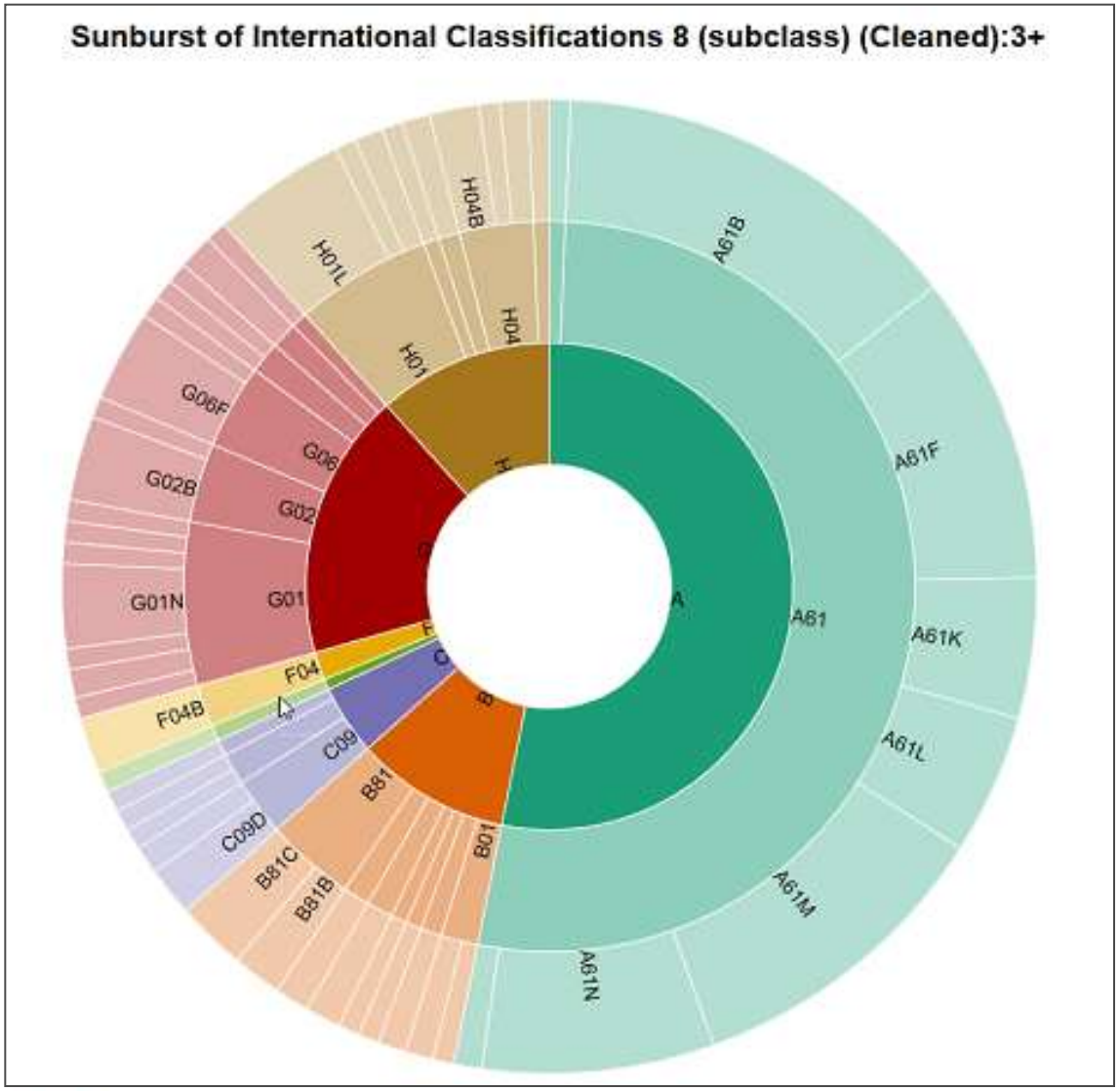
- 全新的工具帮助理解多层级数据
  - ✓ 如. IPCs, CPCs
- 适用于快捷键， 见
  和
  按钮

TREEMAPS（树形图）

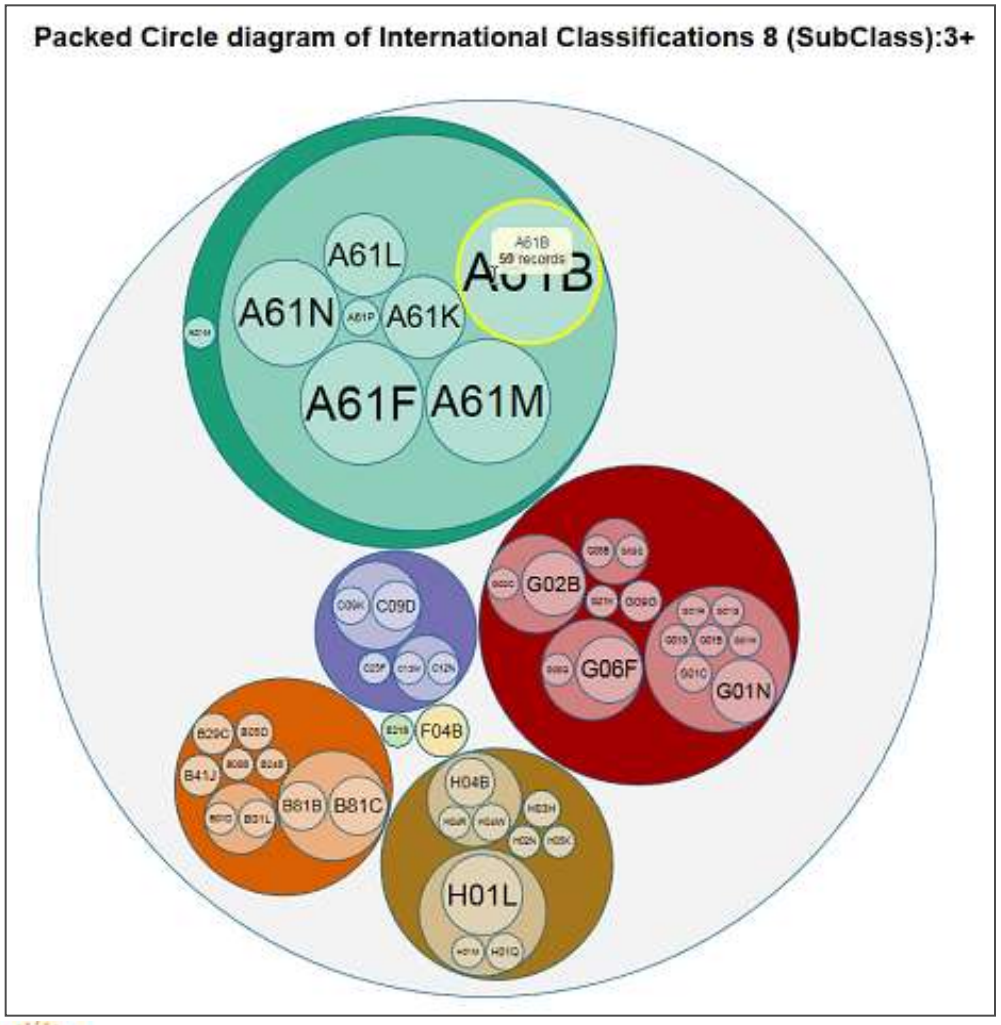


更易于解释复杂的多层级数据信息 (eg. IPCs and CPCs)

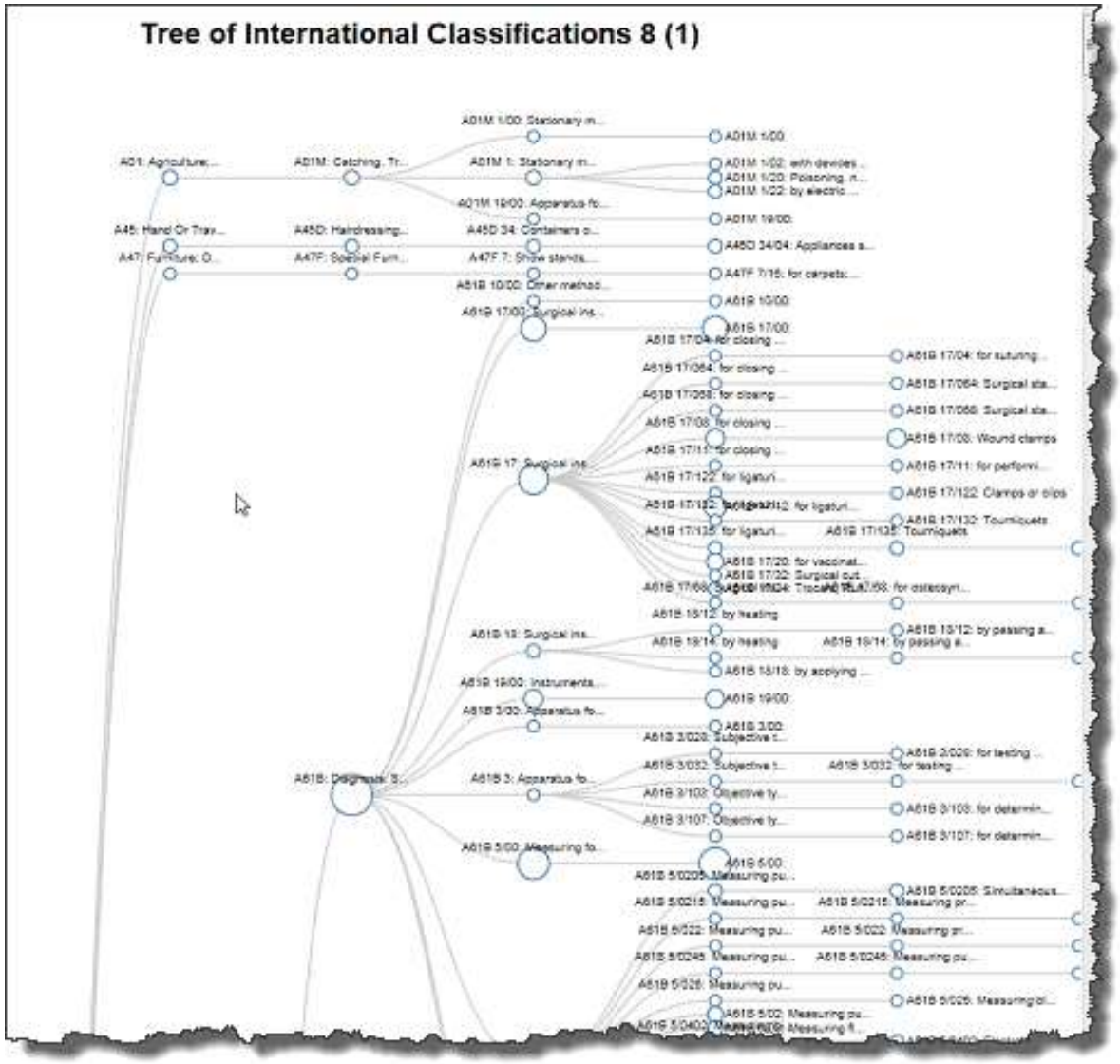
SUNBURST（多层轮状图）



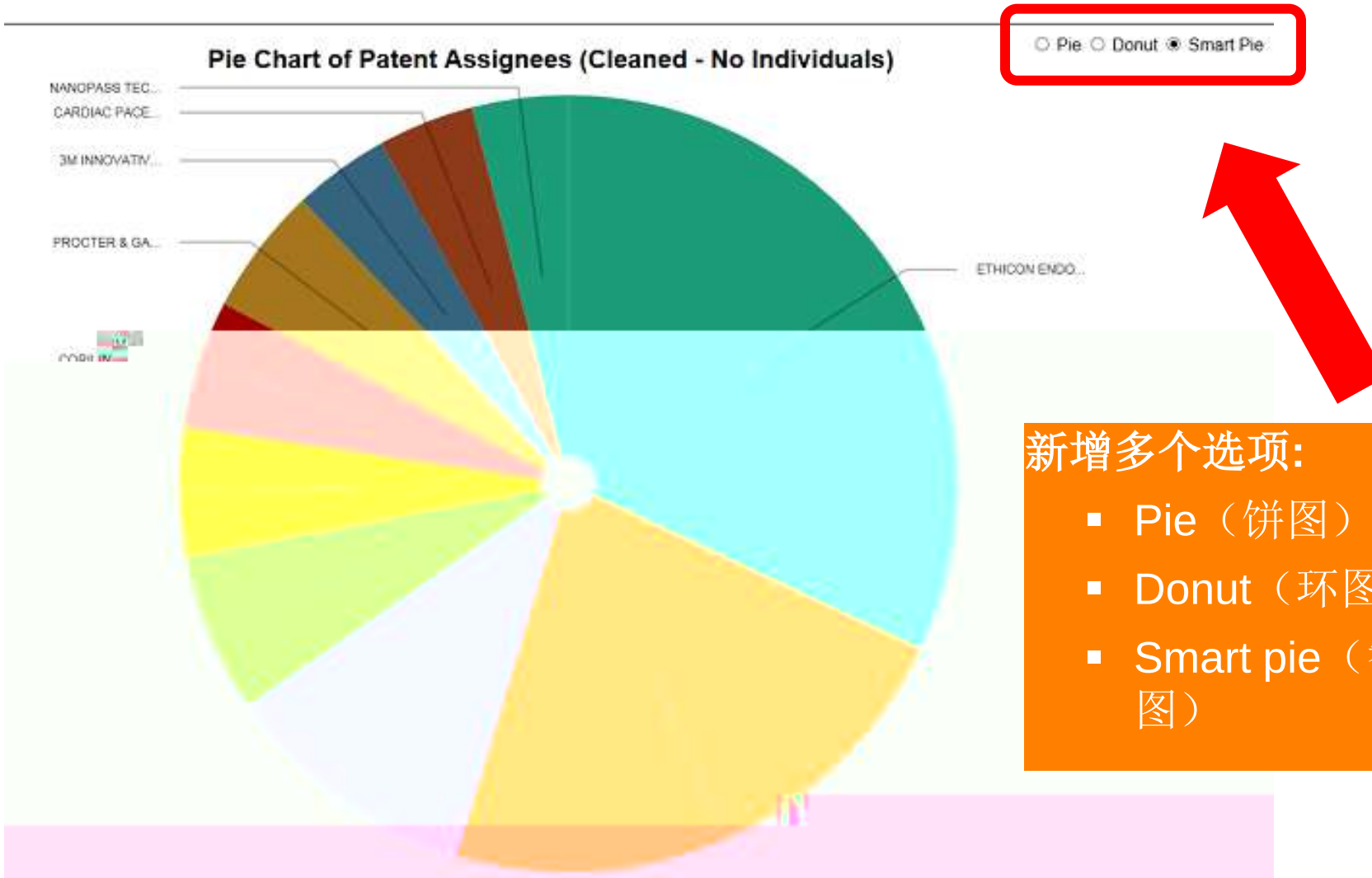
CIRCLE PACK


Packed Circle diagram of International Classifications 8 (SubClass):3+
A61L
A61B
A61B
59 records
A61N
A61K
A61F
A61M
C09D
G02B
G06F
G01N
F04B
B61B
B81C
H04B
H01L

BROWSE CLASSIFICATION



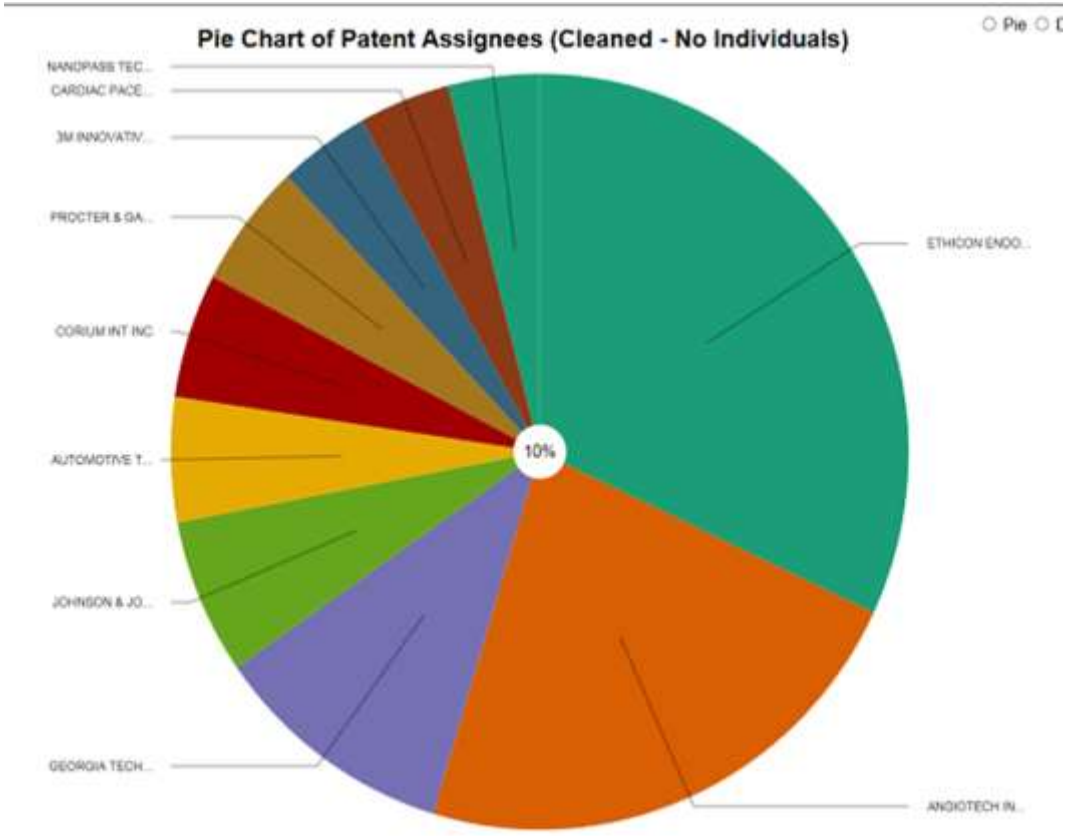
更新的CIRCLE CHART（饼状图）



新增多个选项:

- Pie（饼图）
- Donut（环图）
- Smart pie（智能饼图）

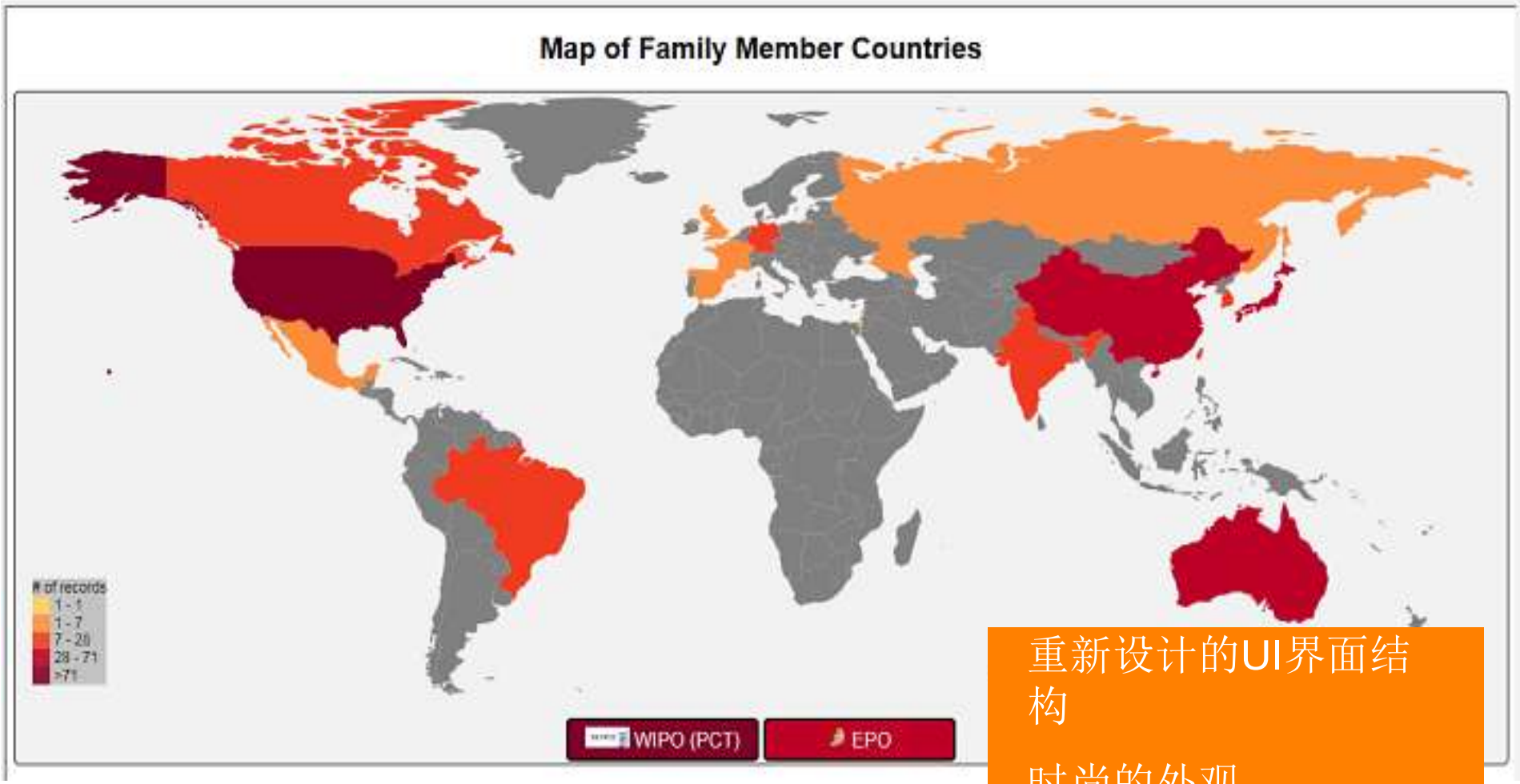
SMART PIE（智能饼图）



中间的 %表明不同饼间彼此重叠的百分比.

本案例中，专利权人中有10%的数据是彼此重叠的

更新的世界地图



重新设计的UI界面结构

时尚的外观

PATENT VITAL SIGNS

How healthy are your patents?

PATENT VITAL SIGNS THE BASICS

专利的法律状态数据比较复杂，之前版本中简单的 Dead or Alive 不足以支撑客户的分析需求

Vital Signs用颜色代码去标记专利的 健康 程度

如何做到的?

- 分割并筛选出kind code
- 查找 INPADOC 法律状态信息
  - 正面(+)或负面 (-)?
  - 法律事件发生的时间点?（授权时间点，申请日时间点）
- 准确计算剩余生命周期
  - 授权: 优先权年 + 20
  - 申请: 公开年 + 10

BEST PRACTICE　DATA EXPORT

Patent Vital Signs处理原文数据(一次文献　FLD)

- 评估单篇专利的健康状况

最佳方式:

- 检索一次文献（专利原文）
- 扩展到全部 INPADOC同族成员

不适用于Derwent World Patents Index (DWPI)记录，因为DWPI是　一个记录一个专利同族

- 对于每个记录，也无法给出准确的法律效力的指示

Why? This grabs all docs related to the family, then gets rid of any apps that have a corresponding grant.

如果得到PATENT VITAL SIGNS的结果

从菜单条中选择:

从总览表中选择:

SUMMARY SHEET — Number of Records: 948 — Columns

Field	Number of Items	% Coverage	Data Type	Meta Tags
Abstract	3,119	100%		
Abstract (Best Available)	944	99%		
Abstract (Derwent)	944	99%		
Abstract ADVANTAGE	832	88%		
Abstract NOVELTY	944	99%		
Abstract USE	848	89%		
Application Countries	36	100%		Country
Application Years	25	100%	Year	
Basic Patent	948	100%		Parent
Date	588	100%		Date, Child
Kind Code	5	100%		Child
Number	948	100%		Child
Basic Patent Country	10	100%		Country
Patent Vital Signs	3,989	100%		Parent
Number	3,989	100%		Child
Kind Code	8	100%		Child
Date	1,413	100%		Child, Date
Derwent Accession Number	1,977	99%		Child
Legal Status (most recent +/-)	2	1%		Child
Legal Status (year of most recent +/-)	16	1%		Child
Years Remaining (Earliest Priority Year + 20 - 2014)	25	25%	Number	Child
Years Remaining (Publication Year + 10 - 2014)	20	73%	Number	Child

PATENT VITAL SIGNS:颜色含义

绿色: 极大可能是正向的结果. 可以认为是 及其可能是健康

蓝色: 可能是健康，因为专利还未到期

橙色/黄色：需要进一步核实，既然存在负面的法律状态信息

红色：极可能到期

Patent Vital Signs
一维表单

可排序

	# Records	# Instances	Publication Number (long)								APPLICATIONS	GRANTS	UTILITIES	Grant - probably active with positi	Grant - probably active no +/- LLS	Grant - probably active with negat	Grant - probably expired (20 year	App - probably active with positiv	App - probably active no +/- LLS	App - probably active with negath	App - probably expired (10 years)
			Number	Kind Code	Date	Derwent Accession Number	Legal Status (most recent +/-)	Legal Status (year of most rec	Years Remaining (Earliest Prio	Years Remaining (Publication											
5097	1	1	EP1958627A2	A2	2008-08-20	2008-L47093	-	2014		4	☑	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐
5098	1	1	EP1958627A3	A3	2010-09-01	2008-L47093	-	2014		6	☑	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐
5099	1	1	WO2007122146A1	A1	2007-11-01	2008-L50489	+	2008		3	☑	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐
5100	1	1	EP2010292A1	A1	2009-01-07	2008-L50489	-	2013		5	☑	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐
5101	1	1	CN101426553A	A	2009-05-06	2008-L50489	-	2012		5	☑	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐
5102	1	1	IN2006006521I3	I3	2008-01-25	2008-L50489				4	☑	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐
5103	1	1	MX2008013710A	A	2008-11-04	2008-L50489				4	☑	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐
5104	1	1	BRPI0710369A2	A2	2011-08-09	2008-L50489	-	2014			☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
5105	1	1	JP05041135B2	B2	2012-10-03	2008-L60337	+	2012	12		☐	☑	☐	☑	☐	☐	☐	☐	☐	☐	☐
5106	1	1	JP2008156309A	A	2008-07-10	2008-L60337	+	2012		4	☑	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐
5107	1	1	ZA200904835A	A	2012-09-26	2008-L68069				8	☑	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐
5108	1	1	US20080166307A1	A1	2008-07-10	2008-L68069				4	☑	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐
5109	1	1	PH12009501376A	A	2008-07-17	2008-L68069				4	☑	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐
5110	1	1	MX2009007389A	A	2009-09-02	2008-L68069				5	☑	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐
5111	1	1	WO2008086457A2	A2	2008-07-17	2008-L68069	+	2009		4	☑	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐
5112	1	1	BRPI0806516A2	A2	2011-09-13	2008-L68069	+	2014			☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
5113	1	1	IN200904479P1	P1	2010-04-09	2008-L68069				6	☑	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐
5114	1	1	WO2008086457A3	A3	2008-10-09	2008-L68069	+	2009		4	☑	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐
5115	1	1	AU2008204867A1	A1	2009-07-30	2008-L68069	-	2013		5	☑	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐
5116	1	1	AU2008204867B2	B2	2011-07-14	2008-L68069	-	2013	13		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☐
5117	1	1	CA2674609A1	A1	2008-07-17	2008-L68069	-	2013		4	☑	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐
5118	1	1	EP2117569A2	A2	2009-11-18	2008-L68069	-	2011		5	☑	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐
5119	1	1	SG154004A1	A1	2009-08-28	2008-L68069				5	☑	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐
5120	1	1	CN101687000A	A	2010-03-31	2008-L68069	-	2013		6	☑	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐
5121	1	1	JP2010515749A	A	2010-05-13	2008-L68069	-	2013		6	☑	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐

Patent Vital Signs
二维表格

Reset		Patent Assignees (long)	1	2	3	4	5	6	7	8
		# Records	1217	505	930	1753	666	308	911	248
Publication Number (long)	# Records	Show Values >= 1 and <= 609 Cooccurrence # of Records	App - probably active no +/- LLS	App - probably active with negative (-)	App - probably active with positive (+)	App - probably expired (10 years)	Grant - probably active no +/- LLS	Grant - probably active with negative (-	Grant - probably active with positive (+	Grant - probably expired (20 years)
1	2044	COLGATE PALMOLIVE CO (COLG)	609	88	431	222	275	47	226	58
2	1146	PROCTER & GAMBLE CO (PROC)	154	136	121	347	102	70	137	64
3	877	PROCTER&GAMBLE CO (PROC)	163	136	131	183	86	42	96	27
4	713	UNILEVER NV (UNIL)	113	49	62	249	69	31	69	54
5	678	UNILEVER PLC (UNIL)	113	50	62	231	69	31	68	37
6	451	HINDUSTAN LEVER LTD (UNIL)	67	31	30	169	61	28	53	
7	353	HENKEL KGAA (HENK)			16	183	18	27	44	11
8	351	LION CORP (LIOY)	61	28	45	124	4	2	73	4
9	309	HUBER CORP J M (HUBE)	72	48	32	61	30	21	35	
10	292	KAO CORP (KAOS)	21	13	70	70	13	9	84	8
11	272	L'OREAL SA (OREA)	20	6	13	108	27	24	39	29
12	270	PRENCIPE M (PREN-I)	89	16	55	19	43	3	32	
13	214	MASTERS J G (MAST-I)	56	7	37	23	47	5	32	
14	205	SYMRISE GMBH&CO KG (SYMR)	30	27	26	52	24	9	33	
15	198	UNILEVER HOME & PERSONAL CARE US	23	5	6	99	30	14	20	
16	179	NOVO-NORDISK AS (NOVO)	7	1	5	89	14	28	34	
17	178	NOVOZYMES AS (NOVO)	6	3	9	84	13	27	35	
18	176	TAKASAGO PERFUMERY CO LTD (TAKS)	24	11	18	53	17	10	36	5
19	163	CONOPCO INC DBA UNILEVER (UNIL)	58	8	47	3	19	4	18	
20	156	ROBINSON R S (ROBI-I)	62	9	38		18	2	19	

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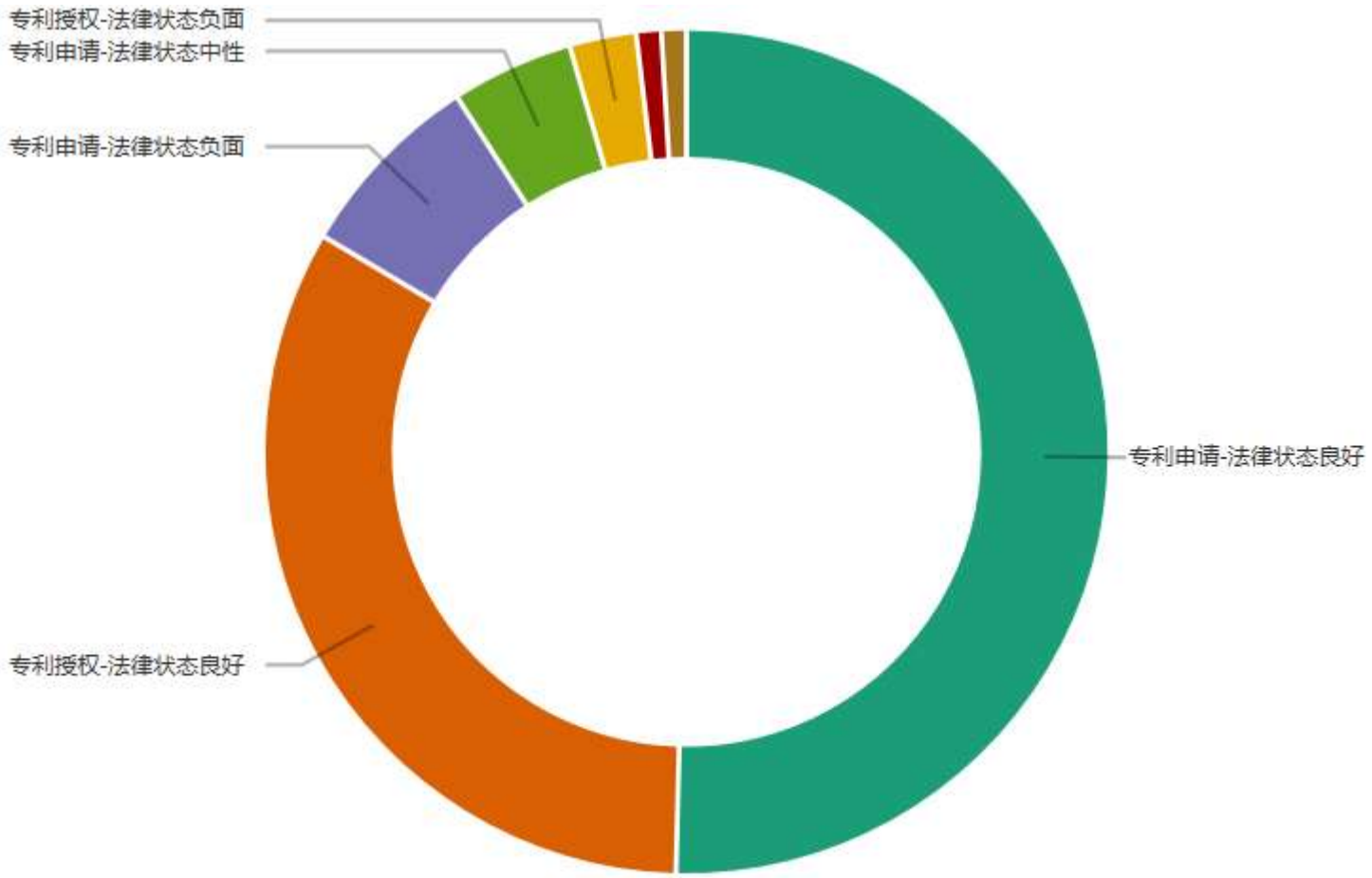

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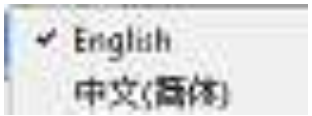
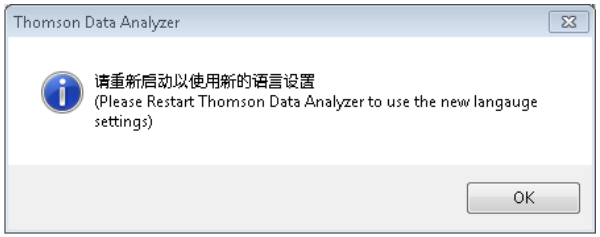
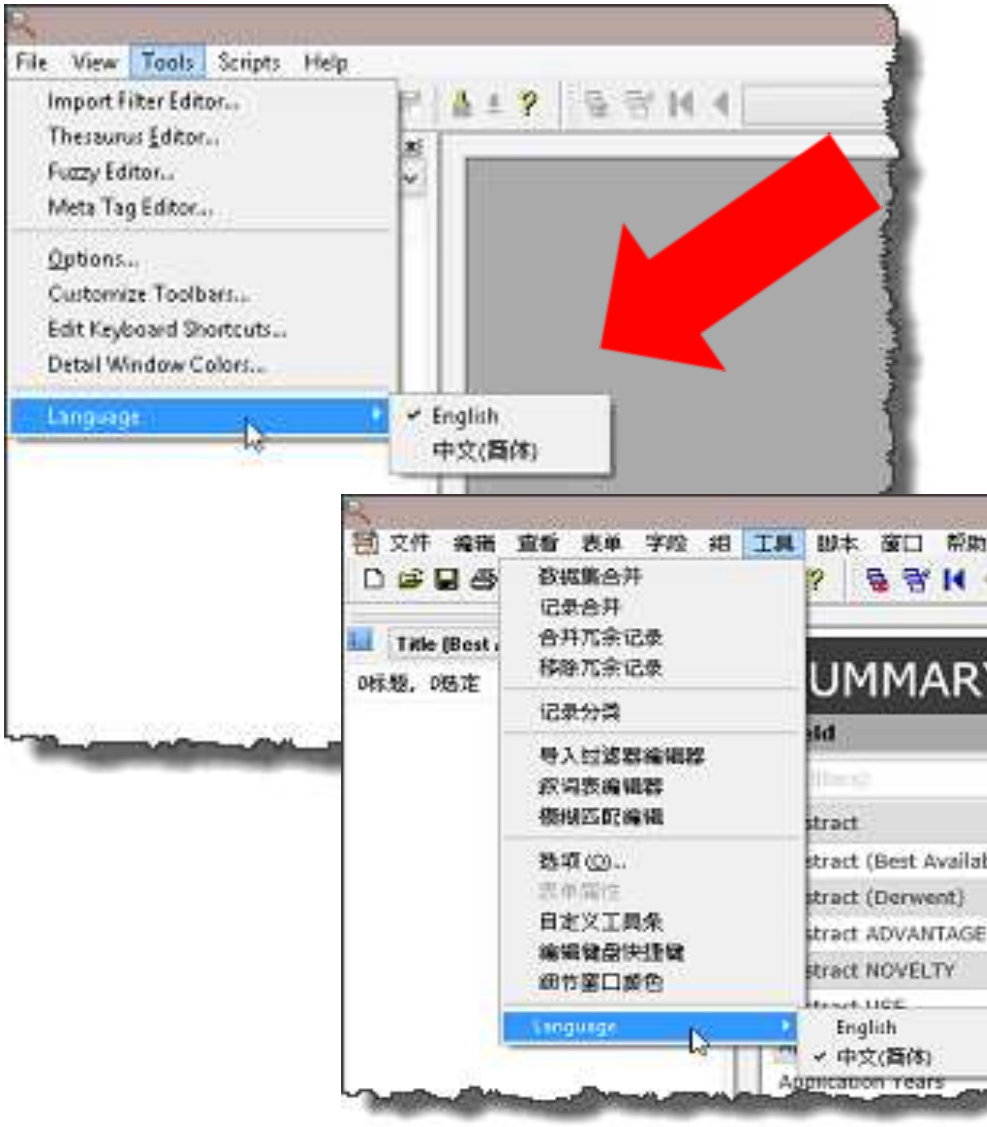
1. 选择Tools → Languages →选择



2. 出现如下对话框:



3. 退出 TDA.
4. 重启 TDA.



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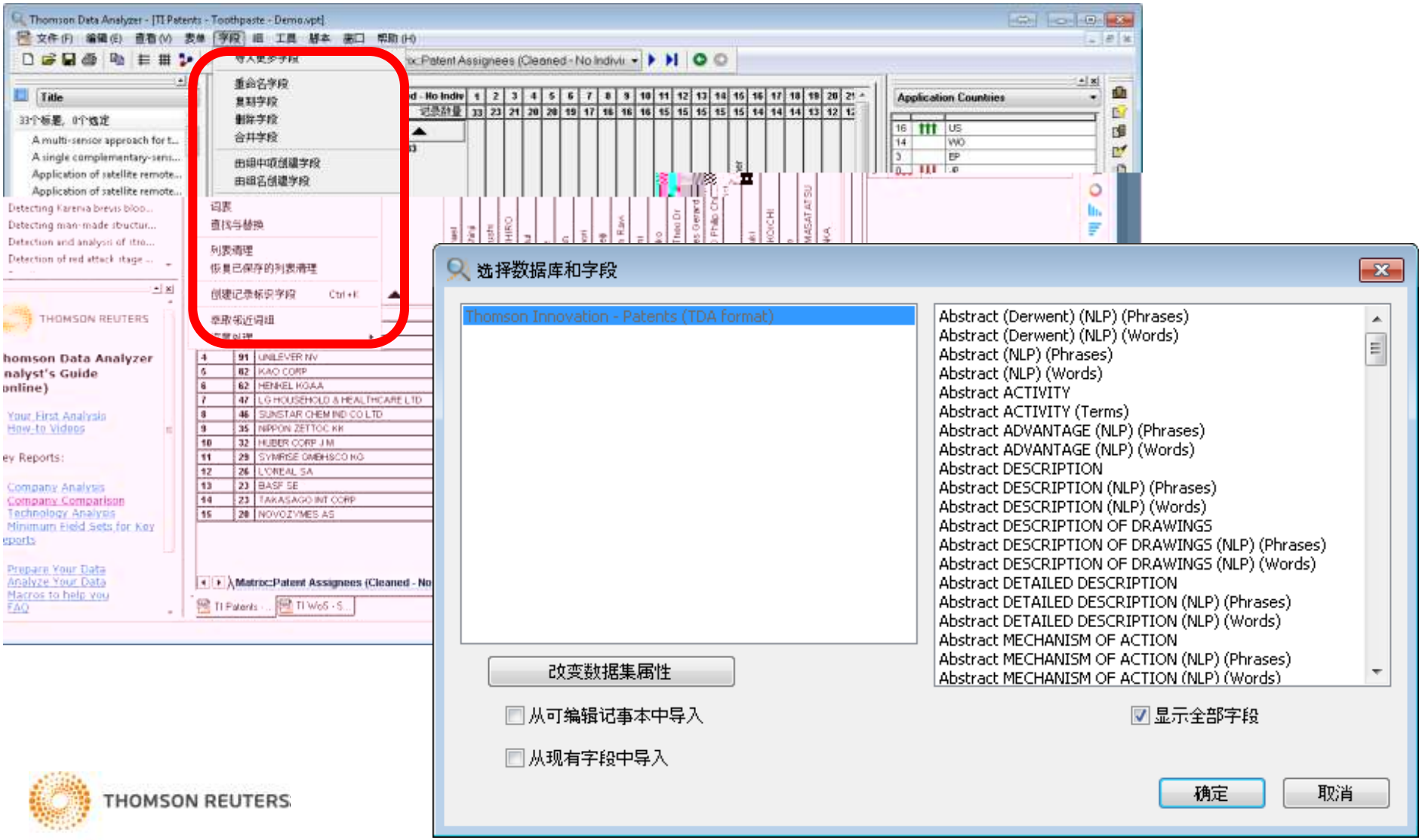
TDA-CN:


选择数据库和字段
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Abstract (Derwent) (NLP) (Phrases)
Abstract (Derwent) (NLP) (Words)
Abstract (NLP) (Phrases)
Abstract (NLP) (Words)
Abstract ACTIVITY
Abstract ACTIVITY (Terms)
Abstract ADVANTAGE (NLP) (Phrases)
Abstract ADVANTAGE (NLP) (Words)
Abstract DESCRIPTION
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非 常 感 谢

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