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THOMSON REUTERS PATENT CONTENT

Collections to Search ? [Collection Descriptions](#) | [Collection Schedule](#)

☐ Enhanced Patent Data - DWPI

☒ Patent Collections by Authority

DWPI Title ?

Control method for hazard light of vehicle, involves controlling hazard light of vehicle based on hazard control signal transmitted via wake-up signal cable in response to hazard input

Original Title ?

HAZARD LIGHT COMMUNICATION

DWPI Abstract ?

[\(WO2005052878A1\)](#)

Novelty

A reference density pattern of at least one component from three head rotation components and three head translation components is evaluated during a first time interval. The actual density pattern of the component is evaluated during a second time interval. The difference between the actual and reference density patterns is evaluated. A signal is output if the difference exceeds a predefined value.

☒ WIPO Applications

☒ French Applications

☒ British Applications

☒ German Utility Models

☐ Canadian Granted

☒ German Granted

☐ Canadian Applications

☒ German Applications

☐ Japanese Utility Models

☐ Korean Utility Models

☐ Chinese Utility Models

☐ Chinese Applications

filed

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CONTENT

- World class content covering all aspects of innovation lifecycle
- Focussed from scientists to business development
- Highly curated content to meet the needs of our customers
 - Interdisciplinary scientific information, Citation, Drug Pipeline
 - Clinical Protocol, Outcomes, Success Rates, Regulatory policy,
 - Patent, Trademarks, IP
 - Financials, News and Media



TECHNOLOGY

- Flexible delivery of content and analytics
 - Web portals, APIs, Sharepoint webparts, xml datafeeds
- Advanced analytics & integration technologies to maximise the value of content
- Web platforms for hosting customer content alongside TR & other content sources

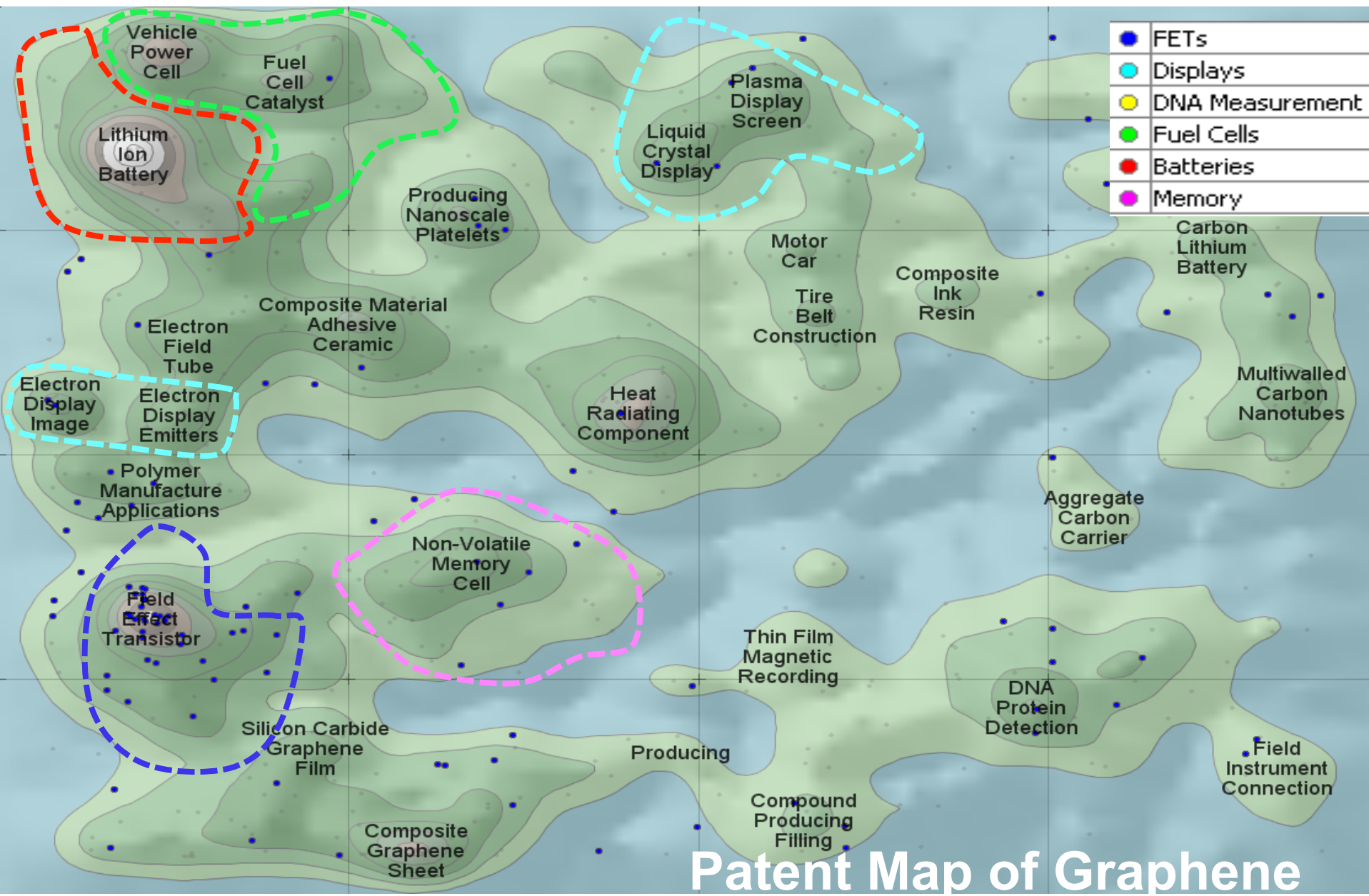


EXPERTISE

- Global, multi-disciplinary teams:
 - R&D Executives
 - PhD Scientists
 - Informatics Analysts
 - Computational Scientists and Mathematicians
 - Software Developers
- Consulting & Benchmarking services
 - Analytically driven insights that leverage our content
- Thought leadership & customer relationships
 - Pistoia, NIH,

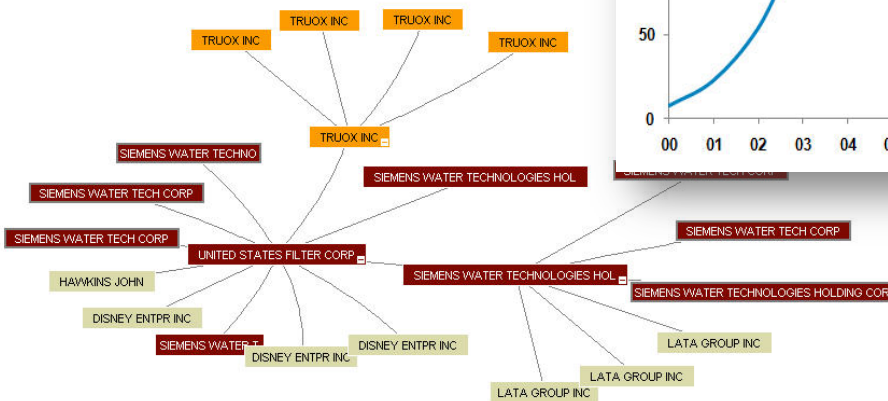
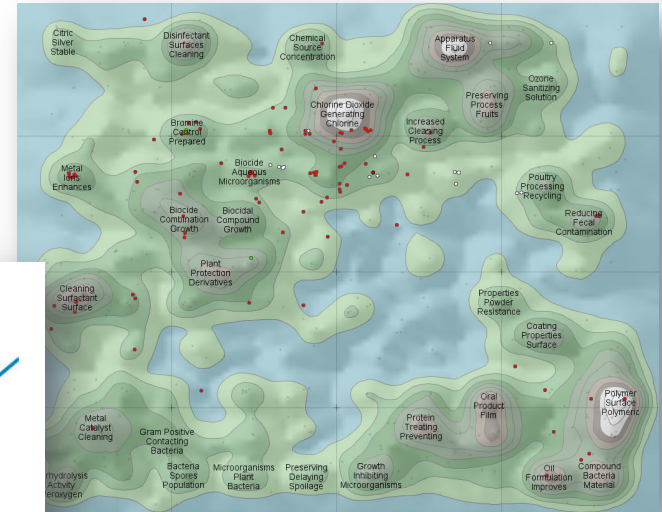
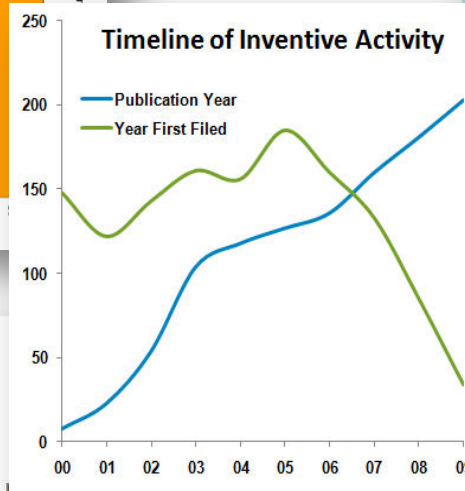
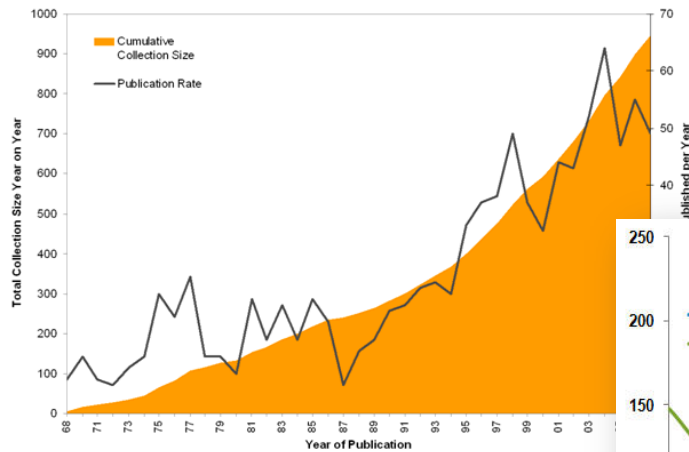


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Figure 1 - Cumulative Collection Size and Publication Rate

[illegible]



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CASE STUDIES



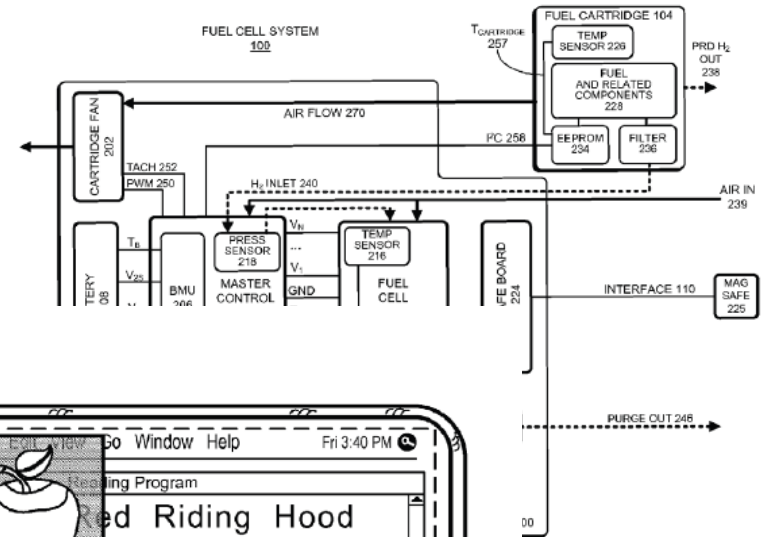
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CASE STUDIES

1. INSIDE THE SMARTPHONE WARS



- Fuel Cell System to Power a Portable Computing Device:** Patent # US20110311895, filed by Apple in August 2010, which addresses a new battery technology that will allow a portable device to stay charged for days or even weeks without interruption (see drawing).



- Assist Features for Content Display Device:** Patent # US20110167350, filed by Apple in January 2010, which addresses education by allowing users to interact with text via a

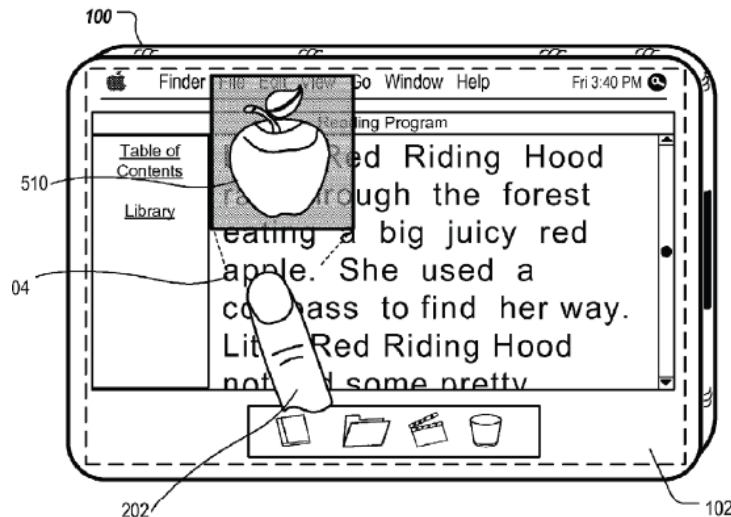
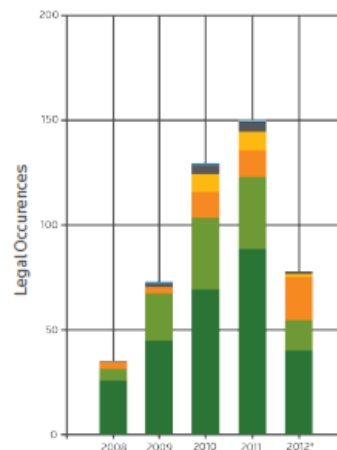


Figure 3 depicts the rapidly increasing pace of Apple IP litigation, with over 150 IP lawsuits in 2012.

FIGURE 3



Legal Roles	Occurrences	%
Defendant	263	54.9%
Counter-Claimant	120	25.1%
Plaintiff	51	10.6%
Respondent	20	4.2%
Counter-Defendant	14	2.9%
Movant	3	0.6%
Counter-Plaintiff	2	0.4%
Appellant	1	0.2%
Appellee	1	0.2%
Other Legal Roles	4	0.8%

CASE STUDY 2: UNIVERSITY COMPARISON

The Challenge

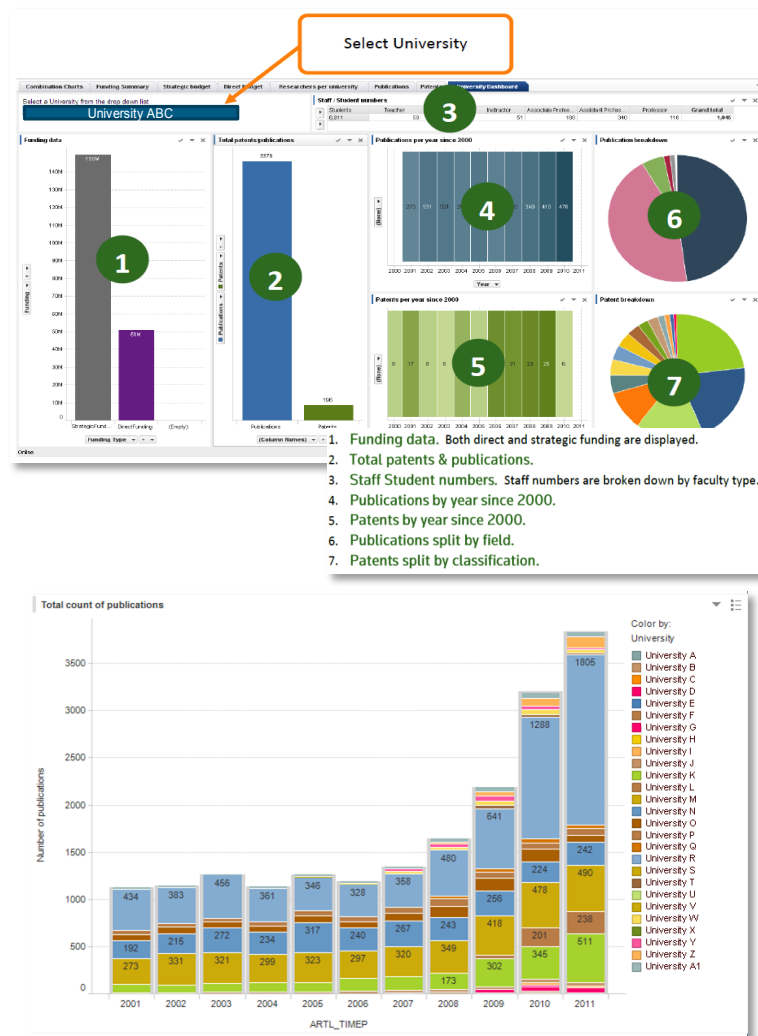
- Provide meaningful data aiming at establishing a comparison between the main Universities across the Middle East Region based on a thorough evaluation of literature and Patent output, grant data, staff data etc
- Deliver an interactive dashboard showing key trending and decline/ growth in patent/publication activities across the main scientific disciplines

Actions

- Using its unrivalled data resources, Thomson Reuters curated relevant patent and publication data to respond to this challenge
- Use of common parameters (Publication and Patent activities, Funding sources, National Citation Index etc) to establish relevant comparisons between Universities

Benefits

- The client was able to highlight the key strengths/weaknesses between the Universities of the Middle East region based on strategic key performance indicators.
- The interactive dashboard provides real time information
- For the purpose of collaboration or monitoring, the analysis can easily focus on Universities/Institutions of specific interest



CASE STUDY 3: INSTITUTIONAL BENCHMARKING

The Challenge

- A university in the Asia Pacific region wanted to evaluate its performance against national and regional benchmarks and relative to selected comparator institutions

Actions

Thomson Reuters used proprietary datasets and in house expertise to:

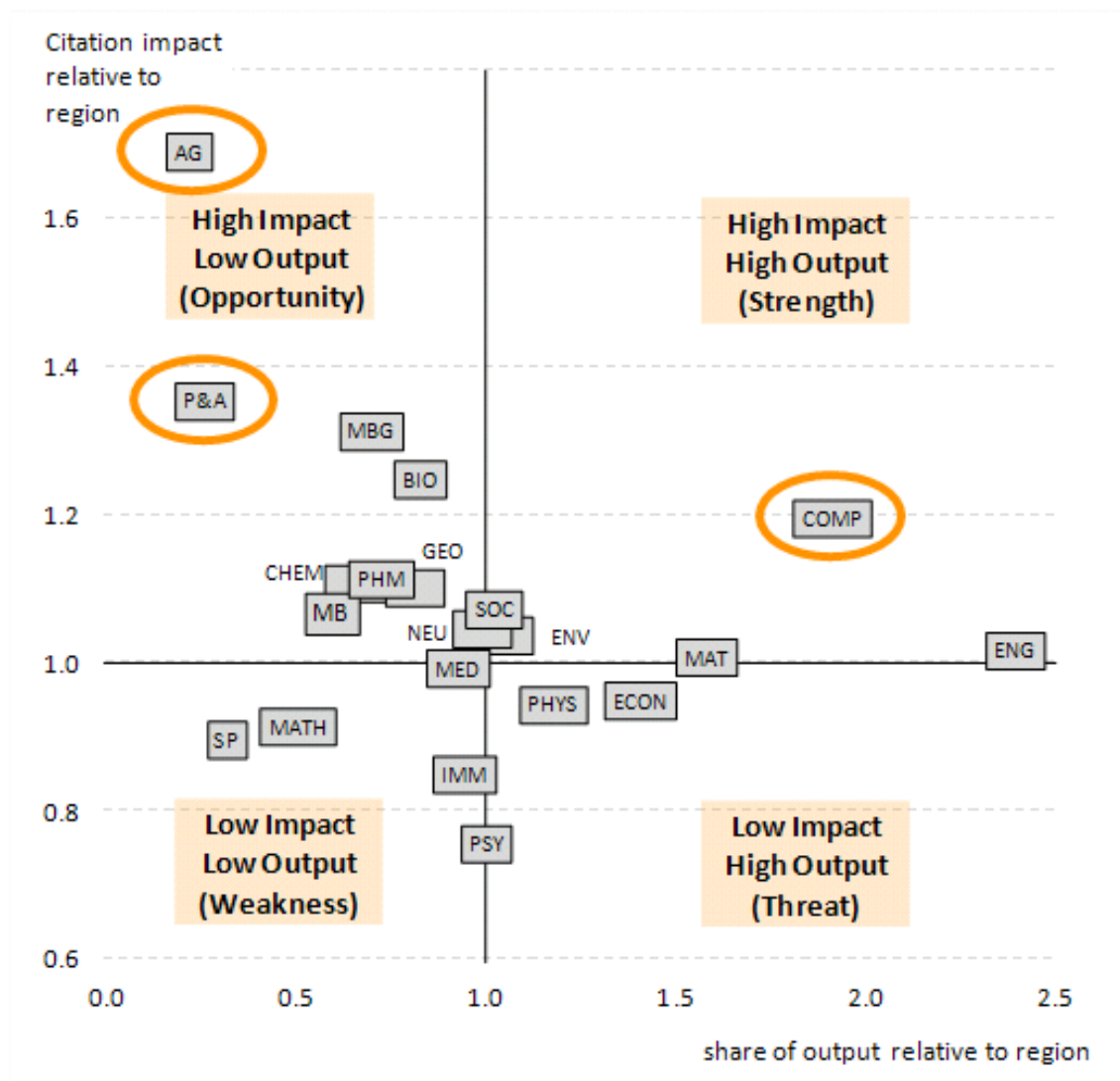
- Compare performance with national and regional benchmarks
- Compare performance with selected institutions
- Analyse performance in particular fields
- Identify excellent research groups and researchers

Benefits

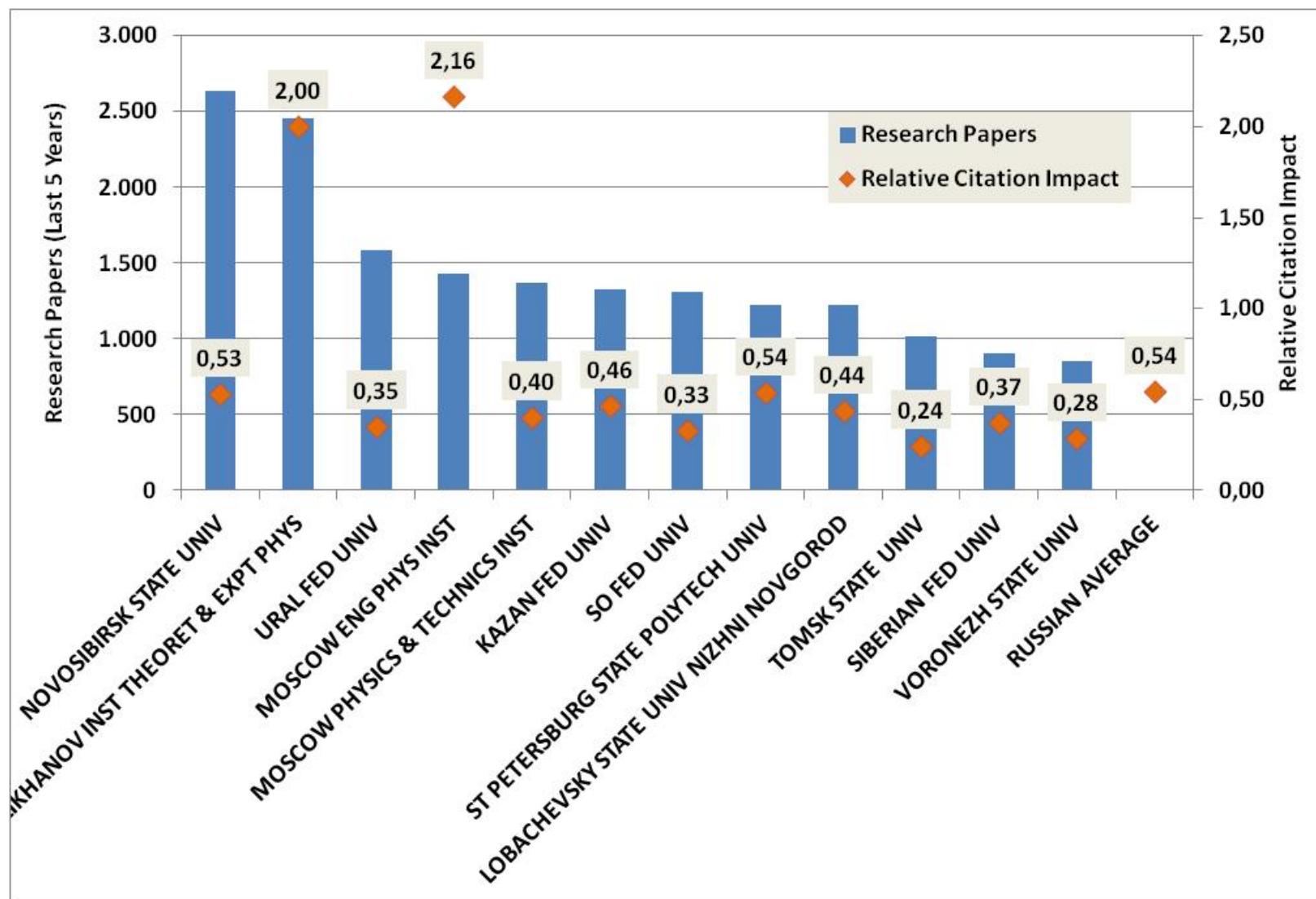
The client was able to understand:

- How its citation impact compared to national and regional benchmarks
- How its research output and citation impact compared with other institutions
- Specific disciplines of strength and those with potential for growth

CASE STUDY 3: INSTITUTIONAL BENCHMARKING



PRODUCTIVITY & PERFORMANCE



CASE STUDY 4: TREND ANALYSIS

The Challenge

- Provide information on the key trends globally for the national priority areas to enable strategic decision making about funding research and research direction in each technology area
- Deliver an interactive dashboard showing key trending and decline / growth in technology areas

Actions

- Using its unrivalled data resources, Thomson Reuters curated relevant patent and publication data to respond to this challenge
- Important common parameters were defined to assess different research activities and areas of research
- Areas of specialisation and innovation were highlighted and mapped geographically. Active companies and institutions were highlighted through their publication and patent filing trends

Benefits

- The funding body was able to highlight areas of research strength and weakness and plot trends over time by technology area
- The interactive dashboard provides real time information
- For the purpose of collaboration or monitoring, institutions and companies publishing patents that are close to the institution's IP are highlighted

Assess Overall Solar Landscape (2006 to date)



Example: Solar Energy
Identification of regions with high impact publications

Materials for Solar Collectors or Concentrators				
Primary Authorship Country or Region	# of Publications	Total Citations	Average Cites per Publication	Highest Cited Publication
Europe	359	654	3.5	43
Asia Pacific	246	388	4.3	47
US/Canada	123	158	4.5	53
Russian Repubs	58	46	2.7	11
Mid-East	48	144	4.1	20
Central/South America	47	67	2.7	17
Africa	21	27	1.8	7
ALL	902	1484	3.7	53

CASE STUDY 5: RANKINGS CONSULTANCY

CWTS Leiden Ranking
Meaningful metrics

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CWTS Leiden Ranking 2013

Select field and region/country

Field:

Region:

Country:

> Advanced parameters

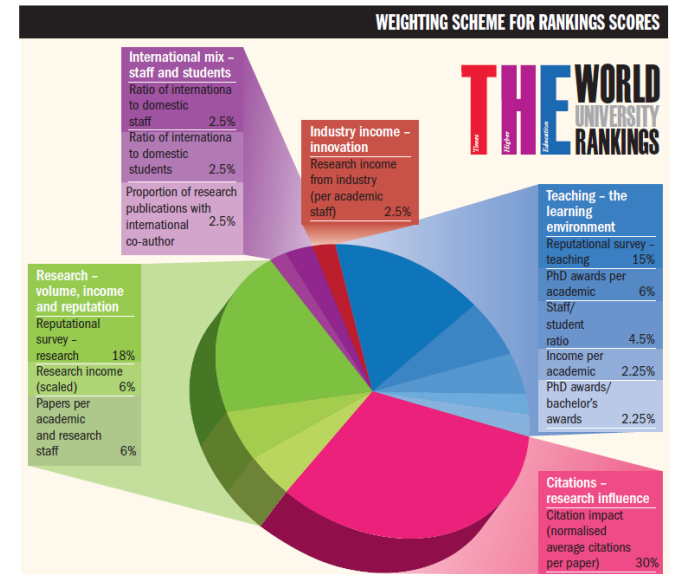
Select indicators

Type of indicators:

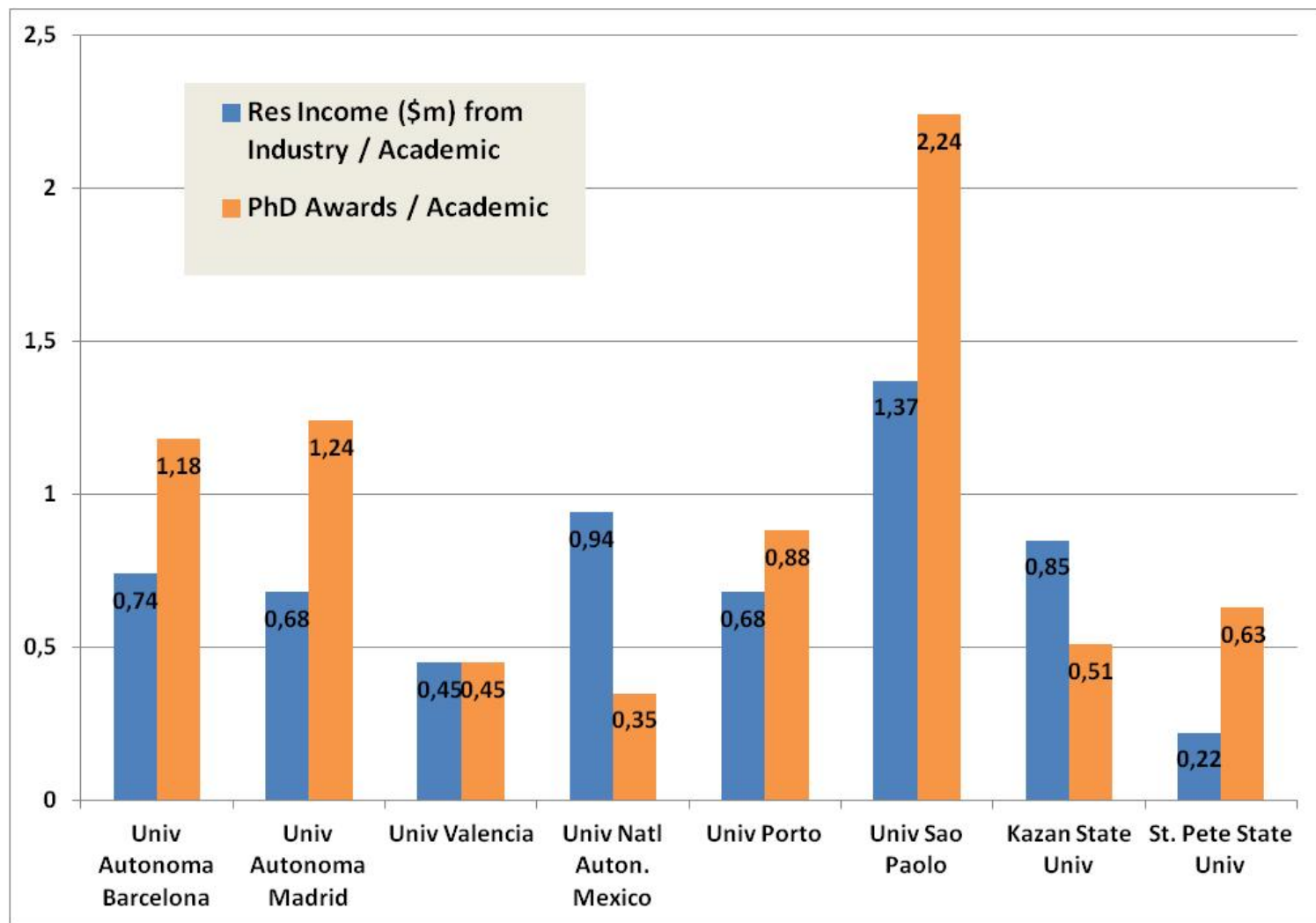
Indicator used for ranking:

Minimum number of publications: 100 500 1000 5000 10000

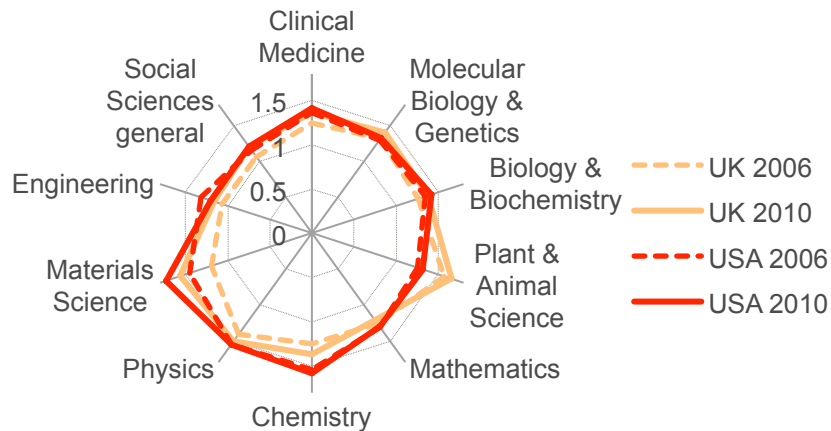
Rank	University	Country	P	PP(top 10%)	Stability interval
1	Univ Cape Town		2291	10.7%	
2	Stellenbosch Univ				
3	Univ Witwatersrand				
4	Univ KwaZulu-Natal				
5	Univ Pretoria				
6	Cairo Univ				



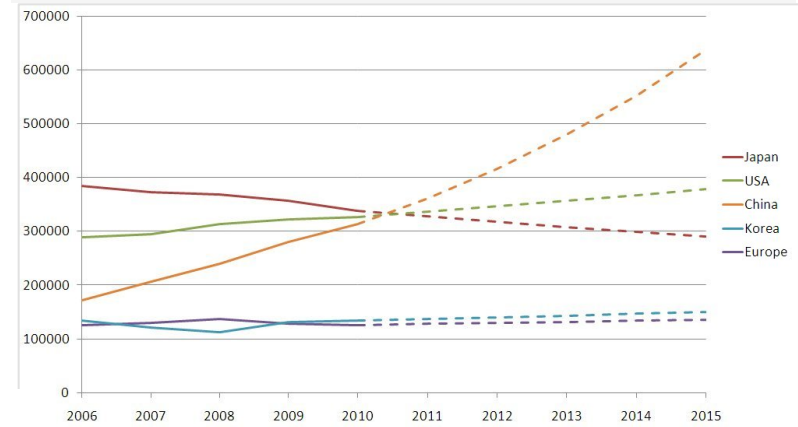
CASE STUDY 5: RANKINGS CONSULTANCY



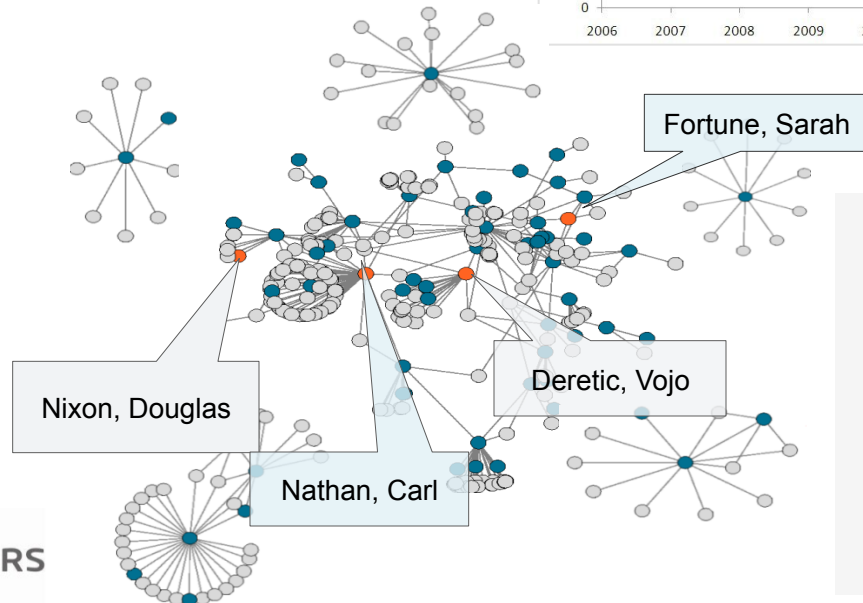
CASE STUDY 6: COLLABORATION STRATEGY



Which nations are projected to lead IP innovation?



In what fields can the U.K. complement U.S. R&D?



Who are the emerging new experts in a field to fund and connect with established teams?

CASE STUDY 7: STEM CELL THERAPIES

The Challenge

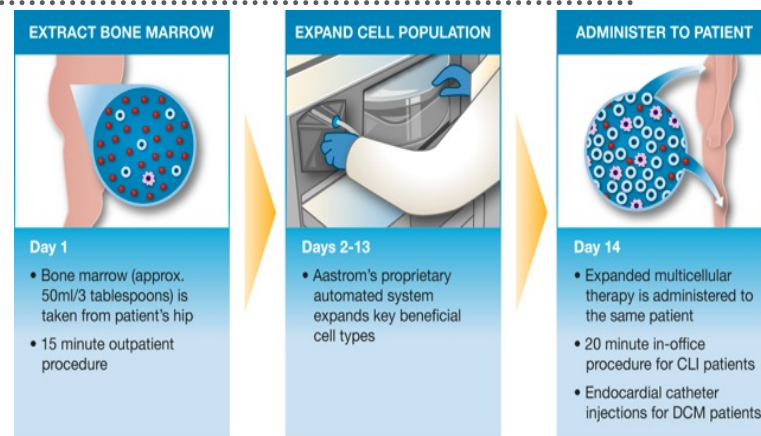
- A biomedical research funding body in the Asia-Pacific region requested a competitive landscape of autologous stem cell therapies in development for specific indications
- The information was needed to understand the commercial potential of autologous cell therapies and the challenges facing their development

Actions

- Thomson Reuters developed an approach combining data mining of Thomson Reuters databases with additional primary research to provide insights from industry perspectives
- The resulting information was combined and analysed to produce concise overviews of the current competitive landscape and upcoming developments

Benefits

- The client was provided with a comprehensive database of autologous stem cell therapies in development together with profiles of key biotech companies
- The client was able to appreciate challenges facing the commercialisation of stem cell therapies and the key competitive advantages to realise their potential



SC1	Title	Sponsor / Collaborators	Phases	Start Date	Completion Date	Country
NCT01676441	Safety and Efficacy of Autologous Mesenchymal Stem Cells in Chronic Spinal Cord Injury	Pharmicell Co., Ltd.	Phase 2 / Phase 3	Aug-08	Dec-14	Korea
NCT01490242	To Study the Safety and Efficacy of Autologous Bone Marrow Stem Cells in Patients With Spinal Cord Injury	Totipotent RIX Cell Therapy Pvt. Ltd. / Fortis Healthcare	Phase 1 / Phase 2	-	-	India
NCT0186679	Safety and Efficacy of Autologous Bone Marrow Stem Cells in Treating Spinal Cord Injury	International Stem Cell Services Limited	Phase 1 / Phase 2	Jan-08	Aug-10	India
NCT01274975	Autologous Adipose Derived MSCs Transplantation in Patient With Spinal Cord Injury.	RNL Bio Company Ltd.	Phase 1	Jul-09	Feb-10	Korea
NCT01624779	Intrathecal Transplantation of Autologous Adipose Tissue Derived MSC in the Patients With Spinal Cord Injury	Bukwang Pharmaceutical	Phase 1	Apr-12	Dec-13	Korea
NCT01162915	Transfer of Bone Marrow Derived Stem Cells for the Treatment of Spinal Cord Injury	TCA Cellular Therapy	Phase 1	Jul-10	Jun-12	USA

CASE STUDY 8: EMERGING MEDICAL TECHNOLOGY

The Challenge

- A public investment body was looking for a commercial assessment of an emerging medical technology they were considering investing in
- Within the scope of the project the market outlook and technology commercialization processes were considered

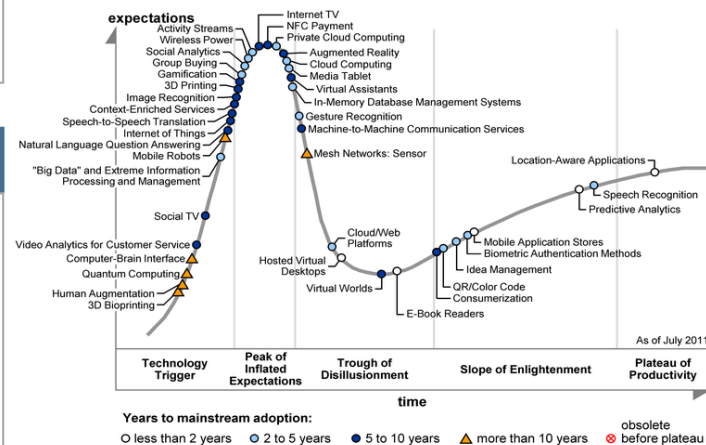
Actions

- Numerous interviews with industry experts involved in developing similar technologies were conducted
- Current and future clinical practices involving the technology were assessed in order to predict market sizes for potential use indications
- Funding for the technology and publication and patenting trends were investigated
- A competitive assessment of similar technologies in development was conducted
- Cost expectations were investigated
- The path to commercialization including market access, regulatory and ethical considerations were assessed

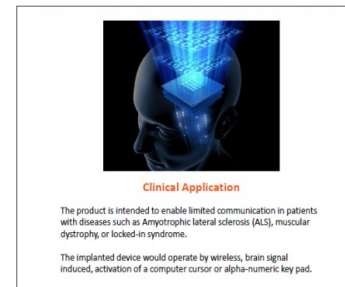
Benefits

- The client was provided with a comprehensive report detailing the investment case for the technology
- The client was able to make an objective informed investment decision
- The client was made aware of potential risks to development, approval, market access and prescriber / patient usage

Assessing potential expectations for an emerging technology:



Product concepts for the emerging medical technology:



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