

CASE STUDY

Technology forecasting used in European Commission's policy designs is enhanced with Scopus and LexisNexis datasets



EXECUTIVE SUMMARY

The Joint Research Centre (JRC) is the European Commission's science and knowledge service, which employs scientists to carry out research in order to provide independent scientific advice and support to European Union (EU) policy.

Among its many activities, the JRC provides a wide variety of tools that enable the use of data to inform EC policies. One of these is the Tools for Innovation Monitoring, or TIM (www.timanalytics.eu). TIM is an analytics tool that supports policymaking in the field of innovation and technological development.

In order to support the information needs related to innovation networks, impact evaluation of EU programs, emerging trends and technologies, funding orientations, regional strategies, and other needs related to research and innovation policy, the JRC selected a RELX Group offering of two of its premiere database solutions to integrate within TIM: Elsevier's Scopus® and LexisNexis TotalPatent One®.



As the European Commission's science and knowledge service, the Joint Research Centre (JRC) offers to policy-makers data visualization and analytics tools in a variety of policy fields. Tools for monitoring innovation (TIM technology suite) are accessible to policymakers across the EU Institutions to provide them with a deeper understanding of the dynamics and evolution of technological development, to enable them in proactively designing policies that could be more conducive to future innovation.

By tracking emerging technologies, benchmarking trends and events across different fields of science and technology, TIM Technology tools allow policymakers to examine how research networks evolve with time and to detect gaps in scientific knowledge where investments are needed.

“JRC needs to be aware of and monitor new scientific developments that have a transformative impact on society. We want to base the detection of new scientific and technological trends and the monitoring of emerging technologies on the analysis of data, to complement the usual qualitative foresight approach.”

- OLIVIER EULAERTS, project portfolio manager



BACKGROUND

With the ever increasing speed of technology advancements comes escalating demands for more accurate and comprehensive monitoring of technology evolution. Incorporating additional data relevant for TIM Technology users is an ongoing challenge.

JRC has augmented its data capacity in order to improve its technology forecasting capabilities and future-proof its services for new and growing needs.

The TIM objective is to create a broader monitoring spectrum that better enables:

- Deeper dives across larger and broader sets of relevant data
- Earlier identification of evolving science and innovation
- More accurate foresight into technology evolution



(Left to right): Elsevier's Chief Academic Officer, Dr. Nick Fowler with Dr. Vladimír Šucha, the Director-General of the Joint Research Centre, the European Commission's science and knowledge service.

CHALLENGE

To bring this ambitious plan to fruition, JRC wanted to engage with an industry partner experienced in developing solutions that could meet its objectives quickly and confidently — in addition to providing more comprehensive sources of relevant data.

For the magnitude and nature of JRC's requirements, only two datasets warranted consideration, one of which was Elsevier's Scopus.

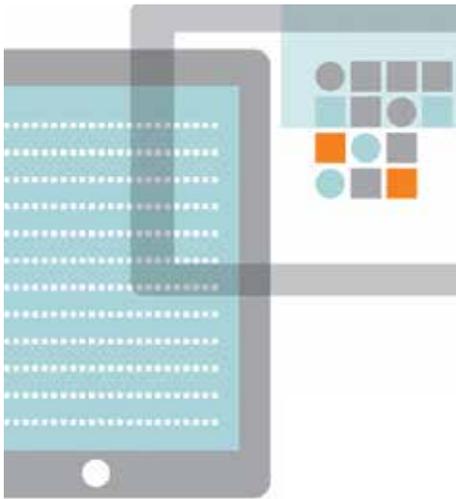
Elsevier, the global information analytics business of RELX Group, began engagement with JRC through a series of discoveries to understand what EU policymakers truly needed. Once a full understanding of needs was reached, additional sessions followed to demonstrate to the various stakeholders the capabilities that could be delivered through Elsevier's recommended offering, namely a pairing of Scopus citation data with LexisNexis IP patent data.

After an in-depth review of the Elsevier offer versus other considered solutions, it became apparent that the combination of the Elsevier and LexisNexis IP datasets was the most impactful in meeting JRC's requirements.

“The relationship with Elsevier and LexisNexis was extremely positive. Elsevier got on board with the initiative with enthusiasm and positivity. All the discussions were highly transparent and very professionally conducted. I really appreciate their willingness to collaborate and find win-win solutions.”

- OLIVIER EULAERTS, project portfolio manager

SOLUTION



Using a briefing provided by the JRC, the Elsevier Team decided to take a collaborative approach across its Product, Sales, Academic Relations and Research groups, with further assistance from colleagues in its sister RELX Group company, Lexis Nexis. Together, the combined team poured over JRC's requirements, in consultation with different domain experts, to finally arrive at a customized pairing of Elsevier's Scopus and LexisNexis IP's TotalPatent One datasets. This collaboration proved to be a winning strategy, as the offer was determined to be most effective in meeting the JRC's needs.

WHY SCOPUS

Elsevier's Scopus is the gold-standard leader in bibliographic indexing, being a highly recommended resource among institutions and organizations of all sizes for discovering the world of research. Recognized by 4,000 universities and 150 leading research organizations, Scopus is the largest abstract and citation database of peer-reviewed literature from over 5,000 publishers — encompassing scientific journals, books and conference proceedings that total more than 70 million records, 16 million author profiles and 70,000 affiliation profiles.

With Scopus, the JRC can gain access to a wide range of quality publication and citation information — collated specifically for higher education and industry research organizations, funding agencies and policymakers.

WHY TOTALPATENT ONE

Representing the major patent authorities around the world along with bibliographic information from over 120 million publications, including 90 million full-text documents in English, the inclusion of TotalPatent One gave JRC direct access to the world's largest and deepest collection of patent data.

JRC also appreciates the fact that LexisNexis IP provides translated data, which comes with patent claims and descriptions in full text. Such details bring advantages through increased coverage, detection and sensitivity of tech monitoring, as well as search.

CONCLUSION

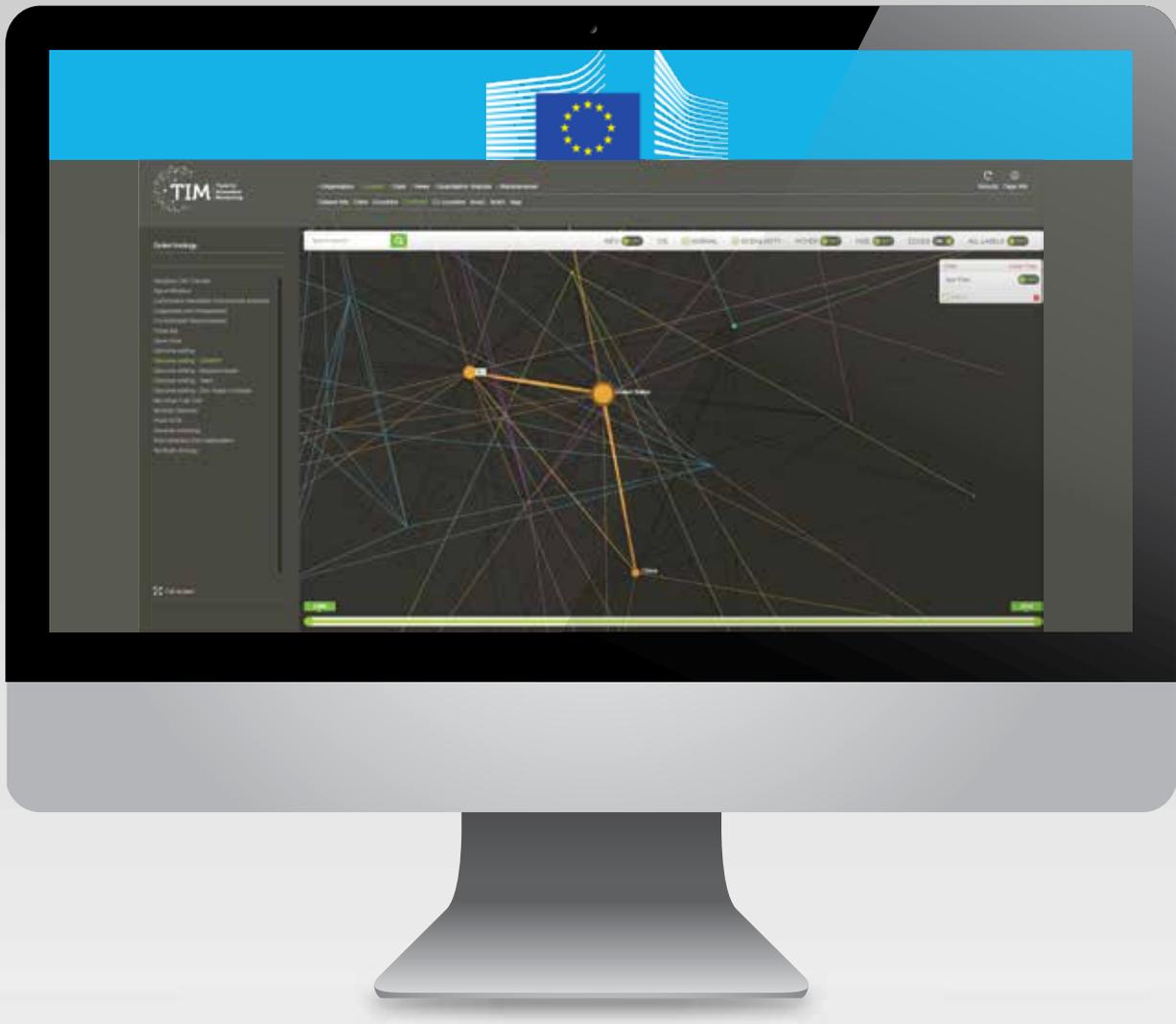


As research challenges become more complex, data-driven insights into trends and impact become increasingly essential.

The TIM data foundation delivered by adding Scopus and TotalPatent One comprises a broader and deeper range of relevant datasets to enable more effective information bridging. Not only is the scope of analysis expanded, but a system to deliver the best possible result is enabled — and all with just one semantic search.

“TIM is not just about innovation, it's about extraction of business intelligence from complex datasets. Pulling data together in one single IT system is not trivial.”

- OLIVIER EULAERTS, project portfolio manager



Data extracted from Elsevier's Scopus and the LexisNexis TotalPatent One databases power the JRC's TIM Datasetgram.

ABOUT LEXISNEXIS

LexisNexis IP is the provider of best-in-class information-based solutions and services to meet the needs of the intellectual property market and government agencies around the world. LexisNexis IP offers a suite of intellectual property solutions that deliver the results you need across the patent workflow. LexisNexis IP is part of LexisNexis Legal & Professional, which serves customers in more than 130 countries with 10,000 employees worldwide.

For more information about LexisNexis Intellectual Property Tools, please visit www.lexisnexis.com/en-us/intellectual-property/

Scopus

ABOUT SCOPUS

Scopus is the largest abstract and citation database of peer-reviewed scholarly literature, including journals, books and conference proceedings. Delivering a comprehensive overview of the world's research output in the fields of science, technology, medicine, social sciences, and the arts and humanities, Scopus features smart tools to track, analyze and visualize research.



For more information about Scopus, please visit www.elsevier.com/solutions/scopus

