

Scientific, Technical & Medical Investor Seminar

9 November 2022

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STM investor seminar Agenda

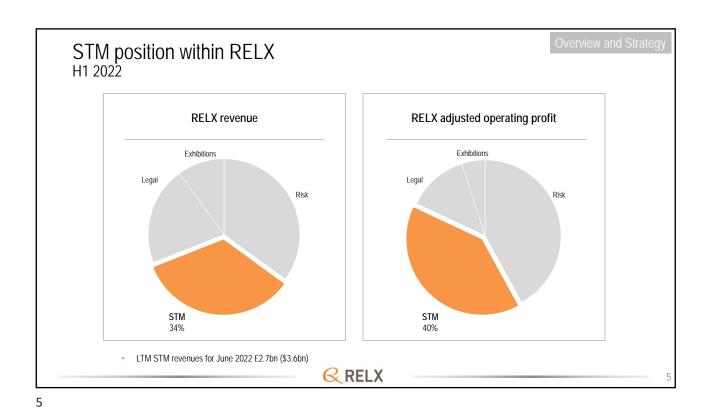
Overview and strategy	Slides 4-11
Primary research	Slides 12-16
Databases, tools & electronic reference	Slides 17-30
Technology	Slides 31-35
Concluding remarks	Slides 36-38
Q&A	

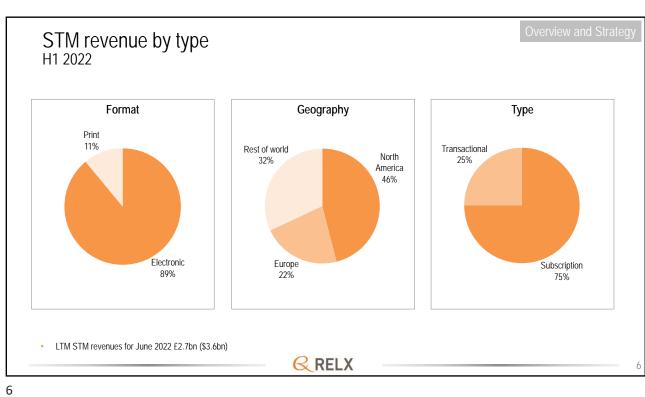
Speakers: Kumsal Bayazit, CEO STM; Maxim Khan, SVP Analytics Products and Data Platform; Cameron Ross, MD Life Sciences Solutions; Josh Schoeller, President Clinical Solutions and Commercial Healthcare; Jill Luber, CTO STM

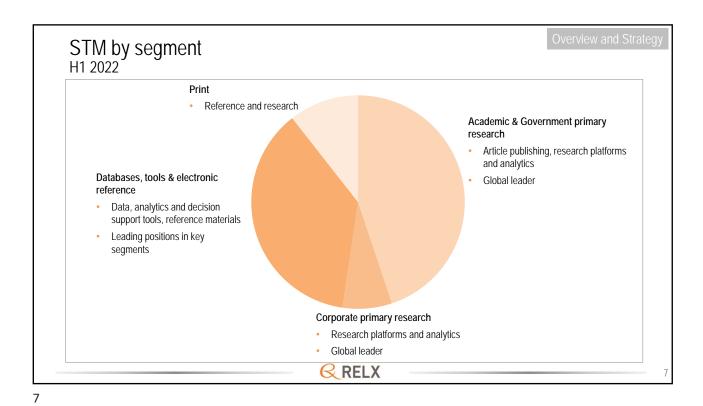


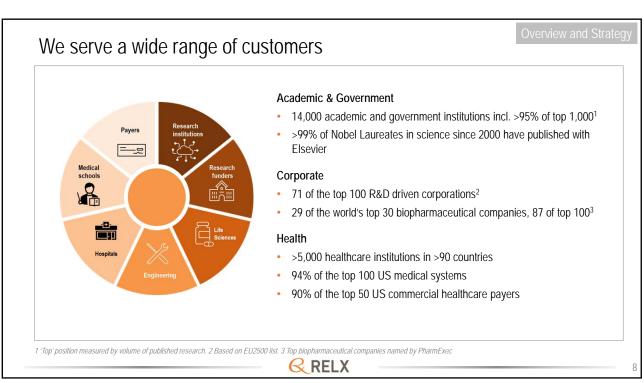
Overview and strategy

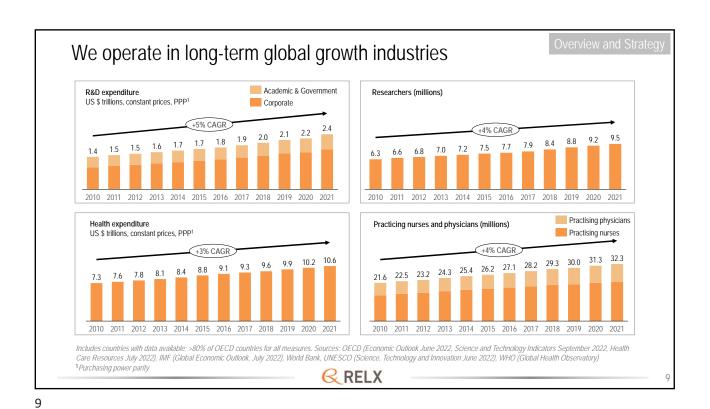


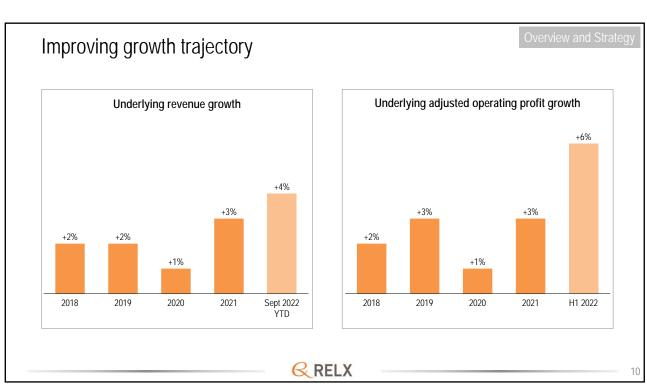


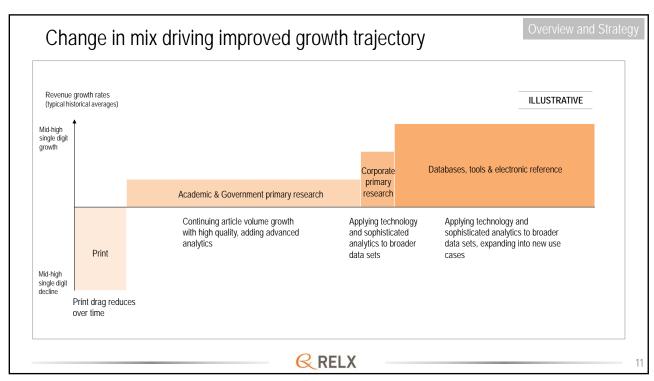


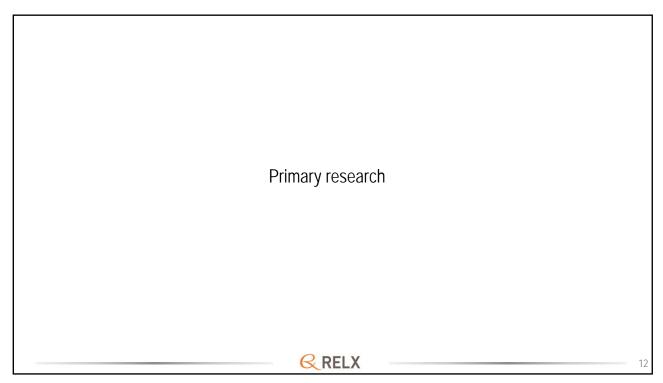


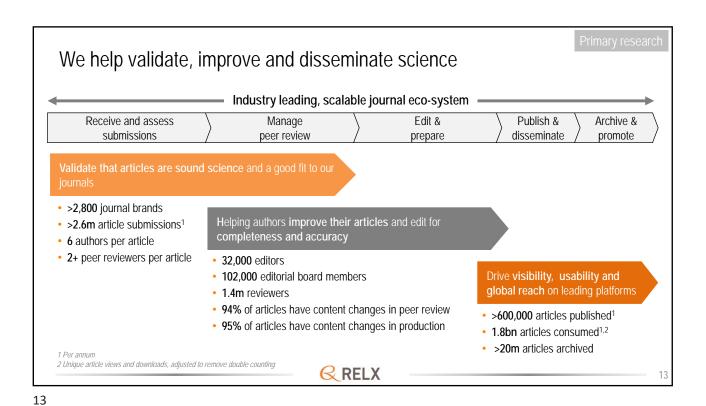


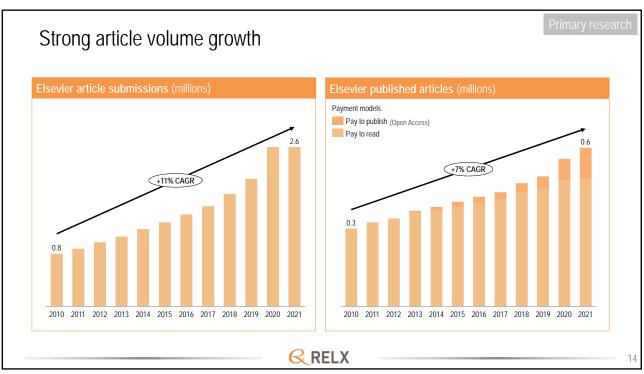


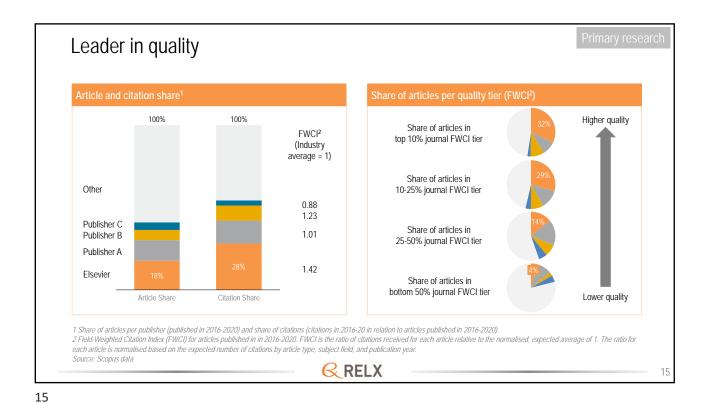












Leading research platforms with global reach and scale >100m >50m 1.8bn Monthly visits Unique monthly Articles consumed¹ +25% CAGR since visitors per year 2017 >600k >70 Searches per Article views per day second Increasing article volume, search and usability, adding sophisticated analytical capabilities 1 Unique article views and downloads, adjusted to remove double counting. **RELX**

Databases, tools & electronic reference



Databases, tools &

Segment	Academic & Government	Corporate	Health
Customers	Universities Government Funding organisations	Research-intensive corporations, key segments: Life Sciences Chemicals Engineering	Healthcare providers Healthcare payers Healthcare IT Pharmacies Medical and nursing schools
Objectives	Make funding allocation decisions Accelerate and improve research and collaboration Evaluate and benchmark research performance	Support drug research and discovery Help engineering intensive companies drive innovation	Support treatment selection and standardise care; enable evidence-based clinical decision making at point of care Measure and improve learning outcomes Support clinical and operational decisions with real time data

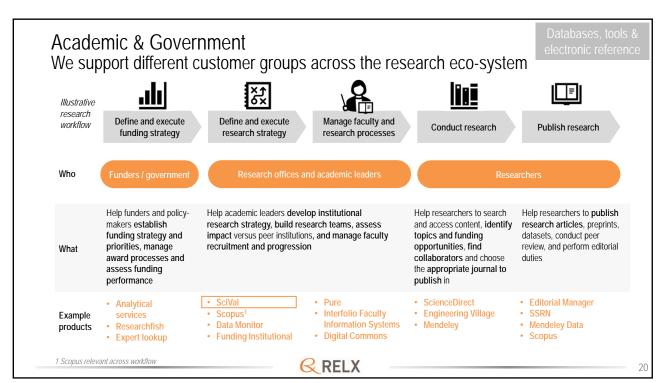
Leveraging our four key capabilities to deliver analytics and decision tools

Databases, tools & electronic reference

- Deep customer understanding and domain knowledge
- · Leading content and data sets, eg primary research, patents, drug databases, medical claims
- Advanced linking capability and sophisticated analytics
- · Powerful technology in global, modular, scalable platforms leveraging RELX capabilities

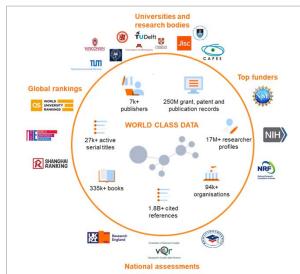


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Academic & Government Linked data powers our analytics products

Databases, tools &



- Deep, accurate and authoritative data set (eg publications, grants, patents) with >250m records and 2.8bn links
- Links research inputs and outputs, such as topics, researchers, organisations, grants, patents, citations
- Wide customer base across research ecosystem, including top national funders and global ranking organisations
- Flexible delivery
 - · Decision tools and analytics, such as Scopus, SciVal
 - API¹ machine readable data
 - Combining our data with customer data

1 Application programming interface

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Academic & Government Product demo: SciVal

Databases, tools & electronic reference

Use case: A university wants to identify topics of research where it should leverage strengths and build capabilities in order to maximise research funding

Key issues:

- Research funding is a critical revenue source for universities; eg in the UK research funding is 20% of total university income¹
- Institutions need to know which topics have greatest funding potential and where they are best-positioned to compete

Solution:

- We use our network of over 1bn citation links and distil into ~96,000 topics and 1,500 topic clusters to create topic prominence metrics
- This enables universities to quickly assess which topics have greatest funding potential globally
- University leaders can view their performance in these topics, the performance of their peers, and the leading academics within each field

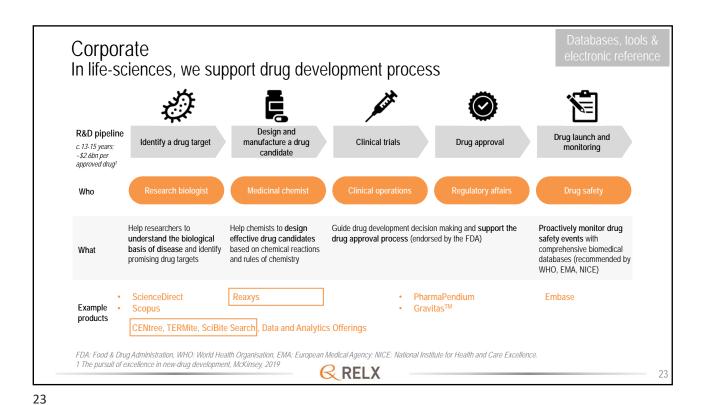
Benefits to customer:

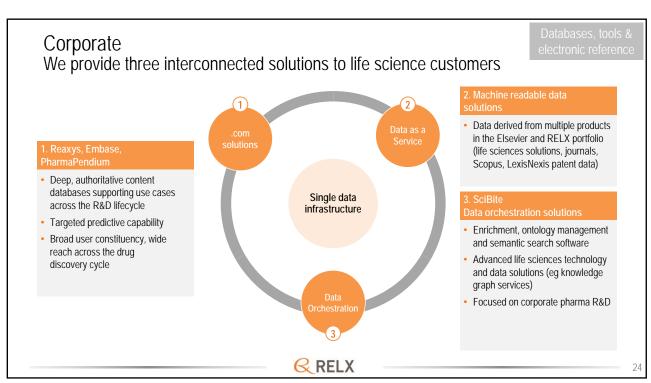
- Enables university leaders to assess where they have highest potential to generate research revenue
- Equips leaders to make strategic choices about where to invest in terms of talent acquisition
- Helps to identify partnership opportunities eg if a university seeks to build strength in a specific geography, it can identify potential academic and corporate partners
- Helps identify leading academics on a research topic to develop project-specific funding proposals and set collaborations

1 HESA Finance Record, 2020/21



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Corporate Product demo: Reaxys

Databases, tools & electronic reference

Use case: A pharmaceutical R&D team wants to improve the efficacy of the drug development process and reduce the amount of time taken in trial and error to synthesise target compounds

Key issues:

- Chemists typically need to make 200-300 new drug candidates per project to obtain an effective compound¹
- Drug development is expensive and time consuming; it is critical to identify issues early, eg the suitability of a compound to disease pathway, efficacy, toxicity, existing IP, formulation issues, cost
- There are ~7m chemistry-related articles and patents released annually, making it challenging to address key questions

Solution:

- Comprehensive content and data from journals and patents: 256m substances, 60m reactions, 100m documents and 35m patents
- Data is enriched and linked, with AI analytics answering key drug development questions
- Predictive Retrosynthesis tool applying 400k rules of chemistry to provide alternative options to build a target compound and probability of success

Benefits to customer:

- Shortens drug development process by providing predictive tools and analytics which allow rapid exploration of IP, efficacy, toxicity, stability of alternative approaches
- Enables chemists to drive better outcomes by screening out compounds which are likely to encounter issues (eg cost, time to market, IP)
- Reduces time to market and research costs with the fastest access to new patents – 4x faster than the nearest alternative, and Retrosynthesis tool which provides practical routes for novel compounds within minutes

1 Richard Law, Chief Business Officer, Exscientia, Bio-IT conference, 2021



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Corporate Product examples: CENtree T

Product examples: CENtree, TERMite, SciBite Search

hich genes are related to a

Use case: A pharma R&D team is embarking on a drug discovery project. The team wants to identify which genes are related to a specific disease presentation, and needs to search across both internal and external documents for relevant relationships

Key issues:

- Scientific content predominantly exists as unstructured text
- R&D data is often siloed and disjointed

 eg a gene can have many different
 names across scientific sources
- As a result, data scientists can spend almost half¹ of their time collating, cleaning and preparing data

Solution

- Tools supporting the digital transformation of scientific data to a machine-readable format
- CENtree enables the development of terminology to define how scientific data should be represented across an organisation
- TERMite extracts relevant information from scientific texts aligned to this terminology, transforming unstructured content into machinereadable structured, meaningful data
- SciBite Search then enables researchers to search this information for specific entities as well as the relationships between them - eg where a gene, an effect, and a disease are referenced in a specific relationship

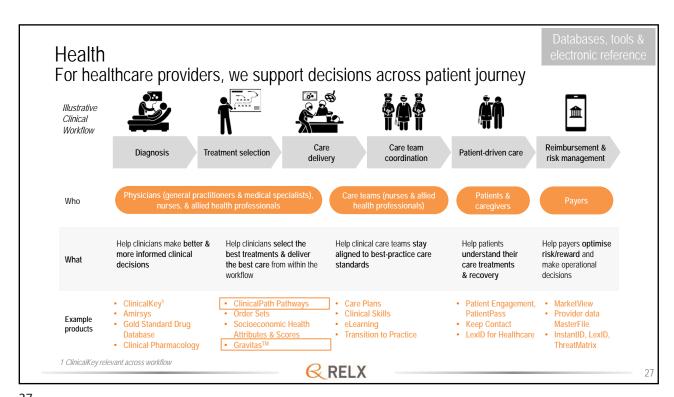
Benefits to customer:

- Researchers can locate highly-specific data from millions of documents in seconds, saving substantial time in the R&D process
- Connects data that were previously in silos to help identify new R&D opportunities with disparate data assets – eg to identify new therapeutic benefits from an existing drug
- Interoperability of data sources across an organisation increases accuracy and saves time – eg enabling data acquired during M&A to be processed computationally
- Clean and structured data enables many other downstream applications, such as analytical dashboards and knowledge graphs

1 The State of Data Science 2020, Anaconda



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Health

Product example: ClinicalPath

Databases, tools & electronic reference

Use case: A leading US cancer centre wants to ensure cancer patients are given optimum treatment at each step based on their disease presentation, results, and genetic makeup and in line with nationally accepted guidelines

Key issues:

- Lack of evidence-based standardisation of care in an increasingly complex field of oncology
- Novel drugs and treatments not always known to treating oncologist
- Unintended variability in care adversely impacts patient outcomes, readmissions and healthcare cost

Solution:

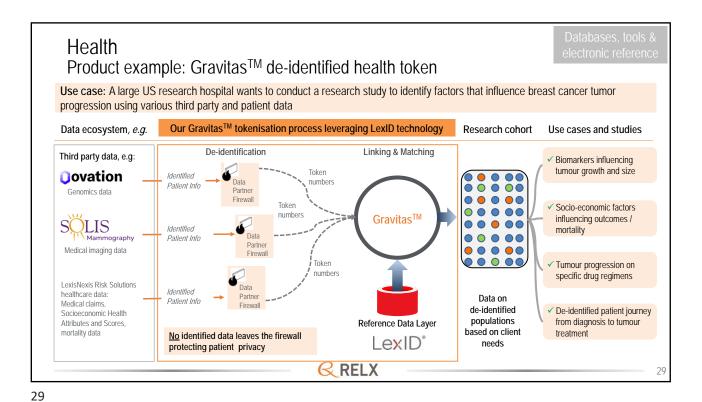
- ClinicalPath: expert-defined clinical guidance developed by top oncologists in the US (385 voting members and 24 Oncology Committees) and delivered into the workflow at point of care
- Pathway tailored to patient age, gender, medical profile
- Identifies targetable biomarkers and mutations supporting precision medicine

Benefits to customer:

- Personalised medicine with improved efficacy
- Enables accurate tracking of treatments and outcomes
- Promotes enrolment in relevant clinical trials that could improve patient outcomes. This can reduce the time to recruit patients by over 40%¹
- Used by 15% of medical oncologists in the US, treating more than 450,000 patients

1 Based on data from a ClinicalPath customer



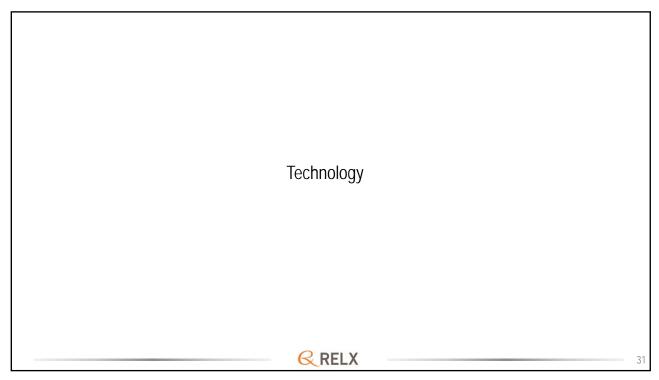


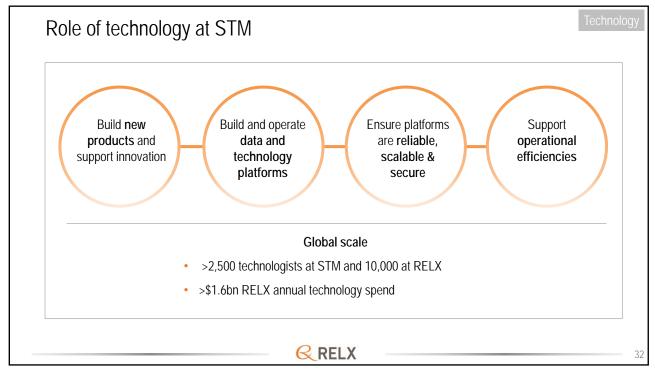
Summary - Databases, tools & electronic reference

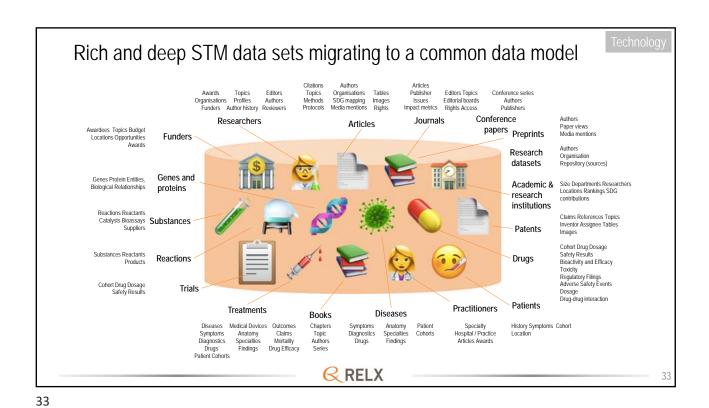
Databases, tools & electronic reference

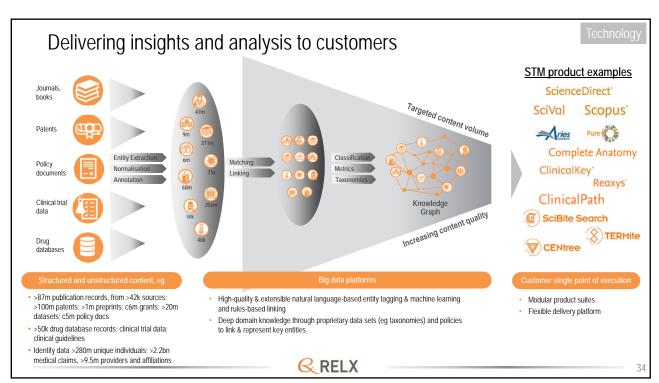
- · Helping customers solve critical and complex problems for specific use cases across segments
- Delivering higher value add analytics and decision tools by combining deep domain knowledge, leading content and data sets, sophisticated analytics and powerful technology
- Driving strong growth through
 - New modules on existing products with new datasets and analytics
 - New use cases through organic product development and add-on acquisitions
- Leveraging RELX sister divisions' datasets; product and technology capabilities
- · Constant experimentation and innovation drives product pipeline

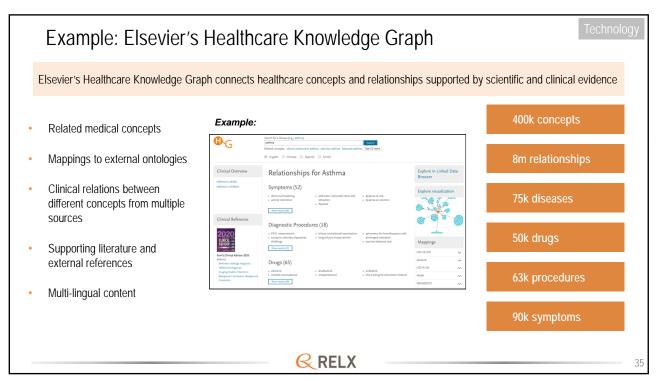


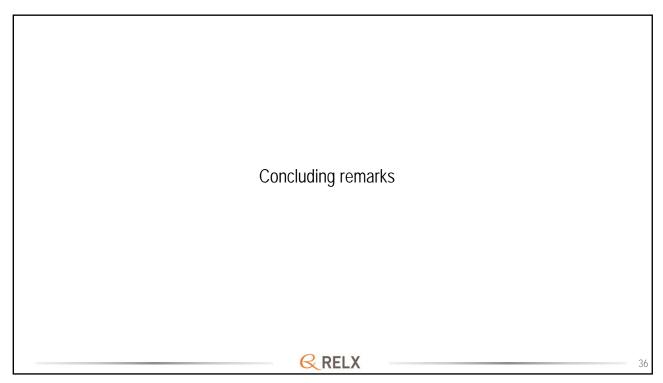












Positive impact on society

We contribute to advancing human welfare and economic progress through our science and health information, tools and analytics and by working in partnership with the communities we serve

Access to knowledge

- Support for health crises (HIV, Ebola, Zika, Covid-19, Monkeypox)
- Free access to research to patients and caregivers
- Founder and contributes ~25% of materials on Research4Life providing 125 developing countries with free and low-cost access to scientific research

Inclusive research and health

- Promoting diversity of participation in research & integrating diversity into research design
- Supporting inclusive healthcare delivery with product innovation, e.g. Complete Anatomy Female model, Shadow Health LGBTQI character simulation in nursing education
- Women on our editorial boards grew from 15% in 2016 to 29% in 2022, with The Lancet at 50%

Supporting UN SDGs

- Elsevier Foundation supports sustainable development projects with \$1.5 million annually
- Supports University Impact Rankings by Times Higher Education (THE), which measures progress towards the UN SDGs
- Measures contribution of universities and countries to SDG research

Climate action

- One Earth journal won 2022 PROSE award for original research on climate issues
- The Lancet's annual Countdown report assessing progress towards the goals of the Paris Agreement
- 2021 Pathway to Net Zero report exploring trends to maximise the impact of clean-energy research



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Summary

- Helping our customers solve critical and complex problems
- Operating with leading positions in attractive global growth markets
- Delivering higher-value decision tools by combining content, data, technology and analytics
- Continuing on improved growth trajectory through evolving business mix



Q&A

Sell side analysts and institutional investors wishing to ask a question please dial in using the number and conference code below:

UK: +44 (0) 33 0551 0200 / UK Toll Free: 0808 109 0700 US: +1 212 999 6659 / 1 866 966 5335 Code: Quote RELX when prompted by the operator

