

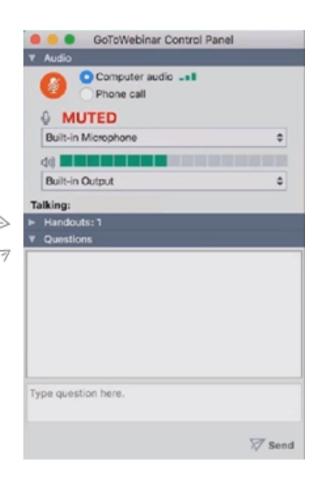


Housekeeping

 This webinar is being recorded, you will receive a link to access it, in a follow-up e-mail.

 You can download the slides from the Handouts Section

 If you have questions during the presentation, please send us via the Questions Section





Agenda

Introduction

Sustainability and the United Nations Sustainable Development Goals (SDGs)

A New Objective Way to Measure Sustainable Innovation

The Global Drivers of Sustainable Technological Development

SDG 13: Who is Currently Making Our Planet a Better Place?

Q&A

Presenter

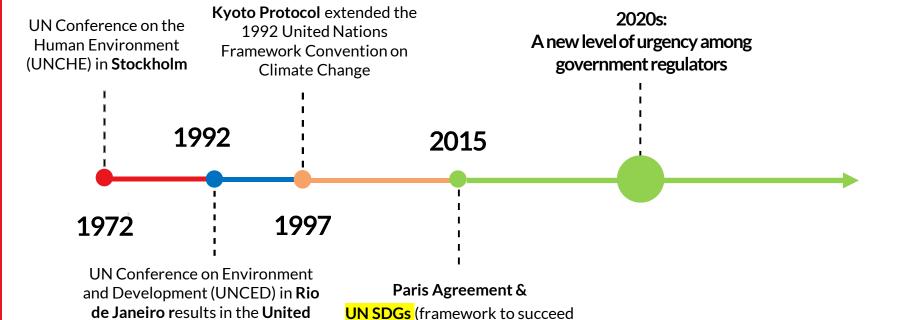


Marco Richter
Global Lead Product
and Customer Success





Sustainability through the years



the Millennium Development

Goals which ended in 2015)

THE WHITE HOUSE



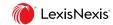
Biden admin committed to cutting greenhouse gas emissions by 50% by 2030



Revised Japan's Corporate Governance Code: emphasis on sustainability and ESG issues



European Green Deal &
EU Taxonomy for Sustainable
Activities



Nations Framework Convention

on Climate Change (UNFCCC)

The 17 Sustainable Development Goals defined by the United Nations



























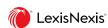






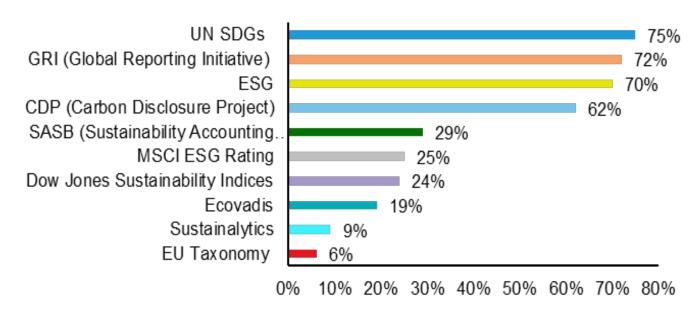






Innovators around the world are looking to report on sustainability

Type of framework mentioned in reporting of top 100 corporate patent owner



Source: Own research (2021)

Sample based on top 100 corporate patent owners by Portfolio Size (worldwide)



87% public, 13% private (or Chinese state-owned)

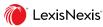


35% Japan, 21% USA, 19% China, 8% South Korea, 8% Germany, 3% Taiwan, 3% France, 1% Netherlands, 1% Finland, 1% Sweden

.



93% publish sustainability report

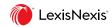


Why do the SDGs matter for your business?

- 78% of customers are now more likely to buy from companies that signed up to the SDGs agenda
- 71% of businesses say they are already planning how they will engage with the SDGs
- 41% of businesses say they will embed SDGs into strategy and the way the do business within five years



Source: PwC, Make it your business: Engaging with the Sustainable Development Goals



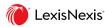
What is the most suitable framework to analyze sustainable innovation?

ESG

Environmental, Social, and Corporate Governance (ESG) refers to the three central factors in measuring the sustainability and societal impact of an investment in a company or business.

SDG

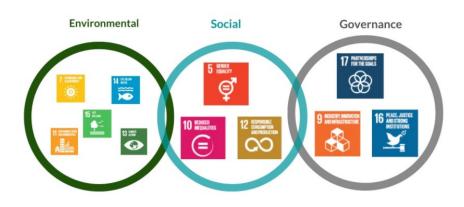
The United Nations Sustainable Development Goals collection of 17 interlinked global goals designed to be a "blueprint to achieve a better and more sustainable future for all". The SDGs were set up in 2015 by the United Nations General Assembly and are intended to be achieved by the year 2030.



Different attempts at trying to show overlaps and gaps between ESG and SDG









Source: Berenberg, Understanding the SDGs in sustainble investing

Source: Foresight Analytics, ESG & Sustainability Analytics

Source: DiligenceVault, DV Looks at ESG



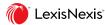
What is the most suitable framework to analyze sustainable innovation?

ESG

SDG

- No global definition and framework for ESG
- Not target-oriented, focused on processes
- No standardized metrics to calculation or presentation of ESG metrics
- Mapping of technologies would be vague

- ✓ Globally accepted and acknowledged framework
- ✓ Goals defined in the agenda 2030
- ✓ Clearly defined by 17 global goals 169 targets, 231 detailed indicators and accompanying metadata
- ✓ Allows to distinctly map patentable, novel and innovative technologies



"We cannot solve our problems with the same thinking we used when we created them."

Albert Einstein

A New Objective Way to Measure Sustainable Innovation





How we mapped all patents to the UN Sustainable Development Goals

Patents

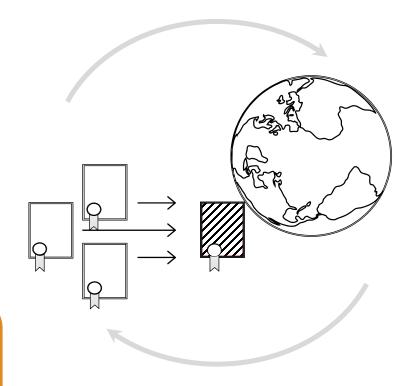
Patents are territorial rights granted for inventions in science and technology as per the law in each country where the patent has been applied for.

Across most nations, patents are granted for inventions that are:

- Novel
- Inventive and /or non-obvious and
- Capable of industrial application.



The searches and search topics are not generic, but are based on the targets, indicators and the metadata of each UN SDG. Therefore, more are covered than only those found in the Green Inventory of e.g., the WIPO. For a better understanding of the patents to SDG mapping fact sheets with direct linkage are created for each SDG and their respective sub targets.



UN SDG Targets

The United Nations Sustainable Development Goals (SDGs) are targets for global development adopted in September 2015, set to be achieved by 2030. All countries of the world have agreed to work towards achieving these goals. The 17 Sustainable Development Goals are defined in a list of 169 SDG Targets. Progress towards these Targets is agreed to be tracked by 232 unique Indicators.

Indicators

The Global SDG Indicators Database maintained and regularly updated by the Statistics Division makes data on the global SDG indicators available to all users and includes both country-level data and regional and global aggregates. As of July 2019, it includes data for 166 of the 232 indicators and more than 1.2 million data records.

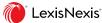
Metadata

An accompanying metadata repository provides the metadata for the indicators that have internationally established methodology and standards. Access to the country-level data and the metadata ensures full transparency with respect to the data and methodologies used for global reporting.



Our solution: easily accessible insights into sustainable innovation





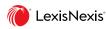
RELX

RELX is a dedicated signatory of the UN Global Compact which uses the SDGs to chart business participation in achieving these aims.



As an active contributor at the United Nations Rule of Law Steering Committee, LexisNexis helped set the UN SDGs in motion.





How does the patent to SDG mapping help you?





Patent data is an important source to measure a company's contribution to a sustainable world. Innovation has been identified a key contributor to more sustainability*.



Transparency

Including patent data in the SDG evaluation process helps to shed more light on the effort companies put into becoming SDG compliant and avoids "green washing.,"



Valuation

Patent data in combination with the Patent Asset Index™ reveals real champions and allows stakeholders as well as shareholders a better decisionmaking process.



Accessibility

PatentSight has mapped its global patent database to SDG related techfields. This enables non patent experts to easily access their fields of interest and gain valuable insights for their analyses.

^{*}Boons, F.; Luedeke-Freund, F. Business models for sustainable innovation: State-of-the-art and steps towards a research agenda. J. Clean. Prod. 2013, 45, 9–19.



Why LexisNexis PatentSight is uniquely positioned to bring this solution to market

Redefining patent analytics by overcoming fundamental data problems

Legacy patent software problems:



Incomplete ownership information



Ambiguous legal status information, not readily available for analytics



No accurate trend analysis possible



Legacy indicators with limited applicability, often put in black boxes

PatentSight's solutions:



Mapping all worldwide patents to their ultimate owner



Providing industry leading legal status information



Point in time historic data, enabling true trend analyses

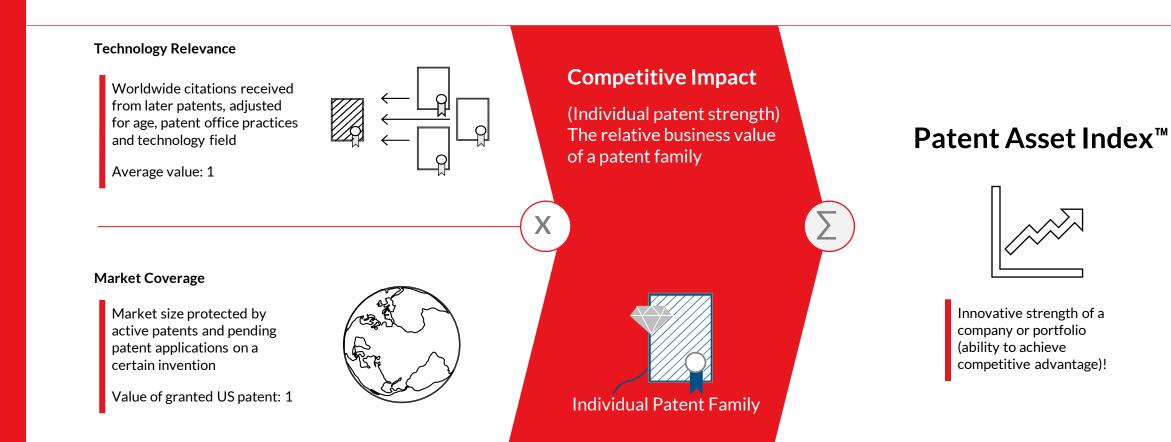


Scientifically proven and industry-wide accepted indicators around the Patent Asset Index™



LexisNexis applies its unique Patent Asset Index to measure innovation

The Patent Asset Index™ is the only scientifically developed, peer-reviewed and industry wide adopted patent indicator



Ernst, H., Omland, N. (2011): The Patent Asset Index - A New Approach to Benchmark Patent Portfolios. World Patent Information 33, pp. 34-41.



We have a strong track record in the world of patent analytics



The European Commission analyses the technology share using the Patent Asset Index™ to examine the Dow-DuPont and Bayer-Monsanto mergers and assess dominance in M&A cases



"The method is valuable not only to demonstrate the importance of our patent portfolio to investors, but also to internally evaluate our patent strategy over time" Dr. Andreas Kreimeyer, Member of the Board of Executive Directors



In front of the U.S. Tax Court, the Patent Asset Index™ is used to measure the relative value of certain patents over time for expert reports in depositions and testimony at trial (U.S. Treasury against Amazon)



"The Patent Asset Index™ from PatentSight® evaluates global coverage and Competitive Impact. According to the results, Symrise's IP portfolio has the most competitive impact in the entire industry" Symrise Annual Report



"This method provides an accurate, overall view of the impact and efficiency of an enterprise's investment in innovation"
Dr. William F. Banholzer, Executive Vice President and CTO



What is the role for information and data in achieving the SDGs?

"Business is a vital partner in achieving the Sustainable Development Goals. Companies can contribute through their core activities, and we ask companies everywhere to assess their impact, set ambitious goals and communicate transparently about the results."

"In making sure that the SDGs are all implemented in its entirety, it's important that we need to have various systematic and scientific checking and assessment of the situation and (...) information and data can play a very important role. Without knowing how much we are making progress you will not be able to know where we are going."

Ban Ki-moon, United Nations Secretary-General (2007-2016)





"There's a realm of difference between those who are trying to make sustainability part of their core business strategy and those who still see it as an "add-on."

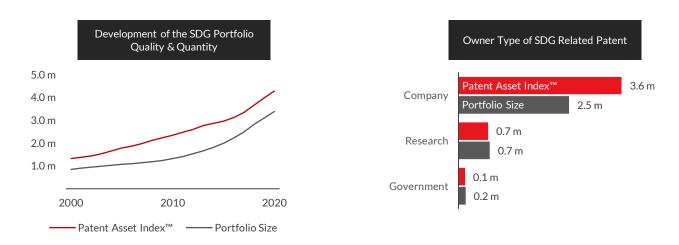
Mark Malloch-Braun Chairman of the Business and Sustainable Development Commission

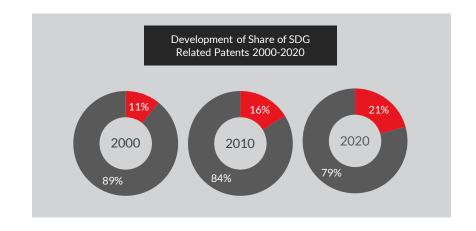
The Global Drivers of Sustainable Technological Development

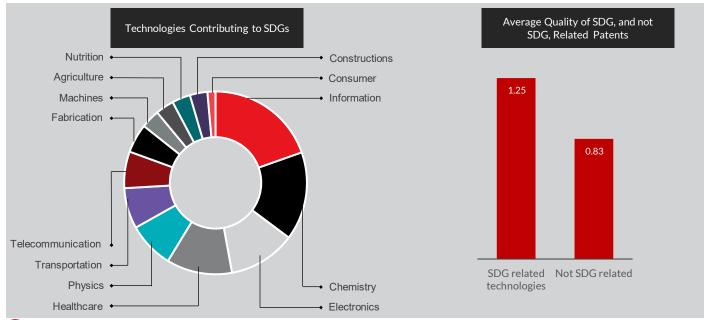


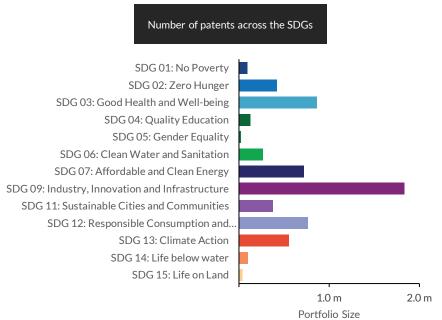


Sustainable Development Goal Dashboard



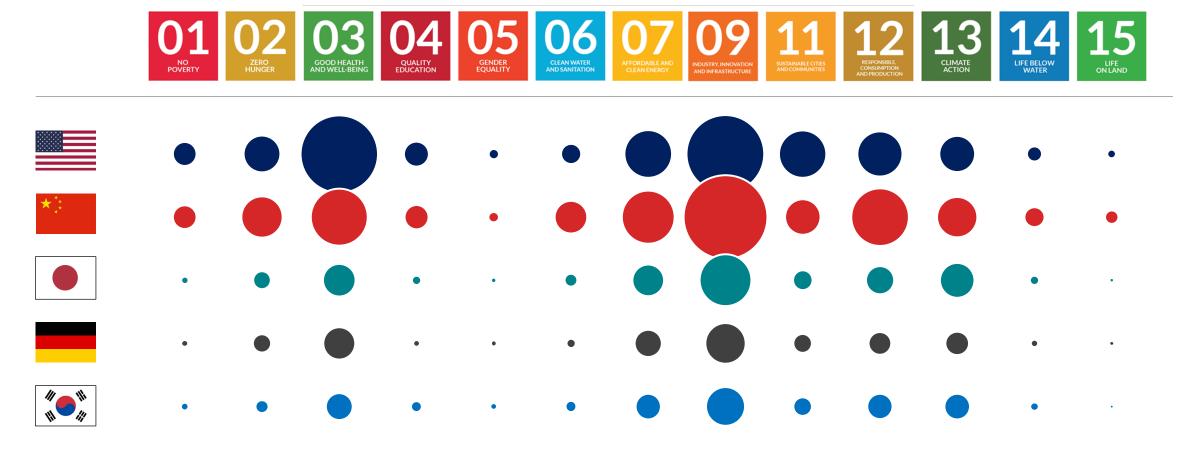




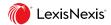




Patent Asset Index™ distribution of the UN SDGs across Top 5 authorities



Bubble Area: Patent Asset Index™



Patent Asset Index™ distribution of the UN SDGs across Top 10 Companies

















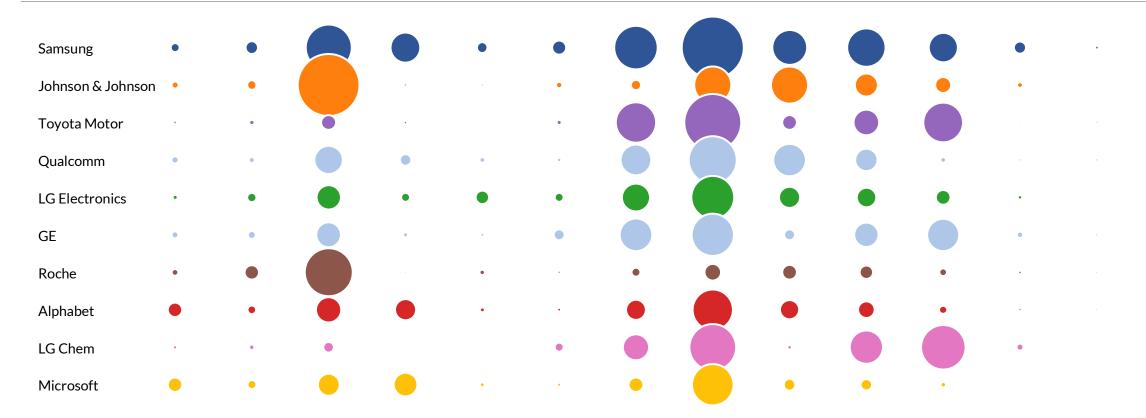








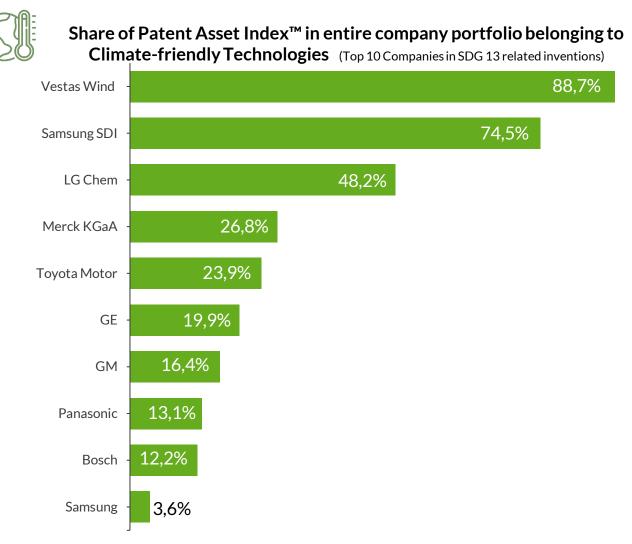






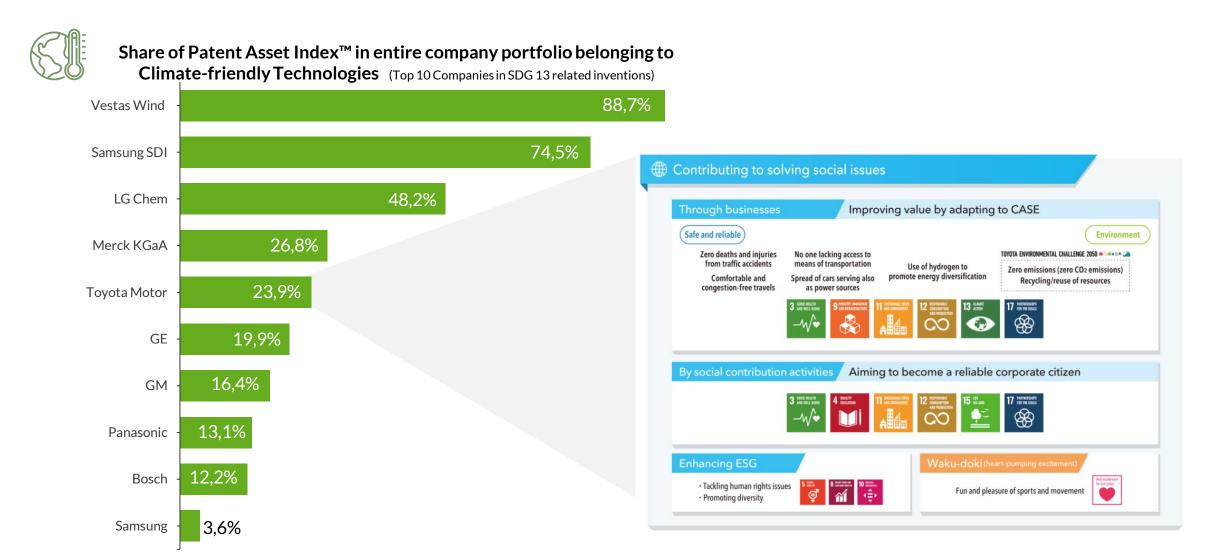


Patent data reveals the true effort companies put into more sustainability



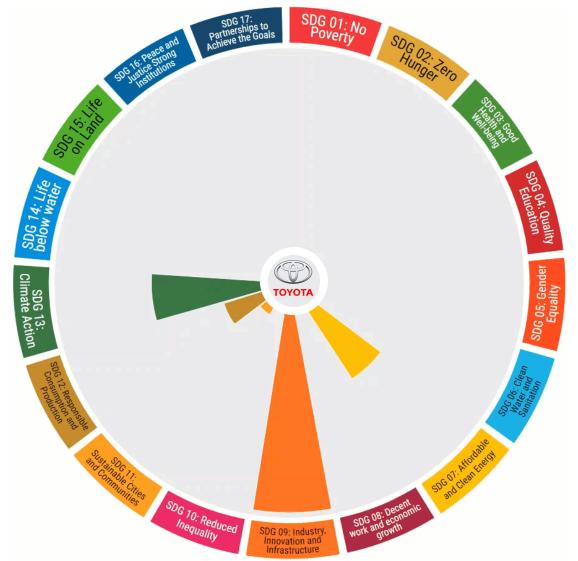


Patent data reveals the true effort companies put into more sustainability





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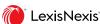


ACCELERATING SDG 7 ACHIEVEMENT POLICY BRIEF 16 INTERLINKAGES BETWEEN ENERGY AND TRANSPORT

Developed by

FIA Foundation, UN Environment, United Nations Economic Commission for Europe (UNECE), International Civil Aviation Organization (ICAO) and International Maritime Organization (IMO)

In addition to improving the efficiency of petrol combustion engines, further measures are needed to support expansion of the fleet of road vehicles propelled by alternative and renewable fuels, such as liquefied natural gas (LNG) and biofuels, hydrogen and fuel cells, and expanding the fleet of hybrid electric vehicles (HEV) and electric vehicles (EV). The extent of the contribution of EVs will depend both on improving battery vehicle range on a single charge without adding significant additional cost and on the construction of EV charging infrastructure networks. The use of sustainable aviation fuel and other clean energy in air transport https://sustainabledevelopment.un.org/content/documents/17501PB16.pdf



Take-aways from today - let our customers have the last word

It would not have been easy to create the search query for 17 goals by ourselves, so we feel that it is very useful for us to understand our own patent strength and to compare with other companies by providing it as a new function. We immediately compared our company with our competitors.

Already actively using the SDGs to look for sustainable research collaboration partners

We've subscribed several patent analytics tools, but PatentSight

SDGs makes us take a trial phase because PS SDGs is **very unique** and interesting for IR purpose.

"How long have you been working on this project? This is huge amount of work"

SDG intelligence **will be shared with all members of the company** to create significant opportunities for each market in the business.

Sustainability is a common issue which comes up, actively looking to use the PatentSight SDG in C-and Board-level discussions

Will use to implement a "sustainability-related patent KPI" for performance monitoring

SDGs has been focused by large-scaled enterprises in recent years. We witnessed the new functionalities of PatentSight SDG during **yesterday's training session**, **it was extraordinary**. There will be multiple ways to utilize the SDG module.

Being able to classify patents by SDG categories is very useful to easily promote the strengths of our technology or complement its weaknesses from a different perspective.

Having just been asked by top management to check our portfolio in relation to SDGs, this is very useful. **The objective criteria of SDGs is very important because we tend to create results that fit our own good image**.



More about Advanced Analytics with LexisNexis PatentSight

Click to download whitepaper



Visit: www.patentsight.com

Schedule a demo at: www.patentsight.com/demo



