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Sustainability Statistics Compendium 2020

The Sustainability Statistics Compendium is designed to be the largest collection of sustainability facts and figures available.

We have collected and curated hundreds of publicly-available information which you can use in presentations and documents. Whenever you need a data point to support your sustainability business case, you'll find it here.

The compendium is regularly updated by the Circklo Team so you can be sure you always have access to the latest information.

The Circklo Sustainability Statistics Compendium

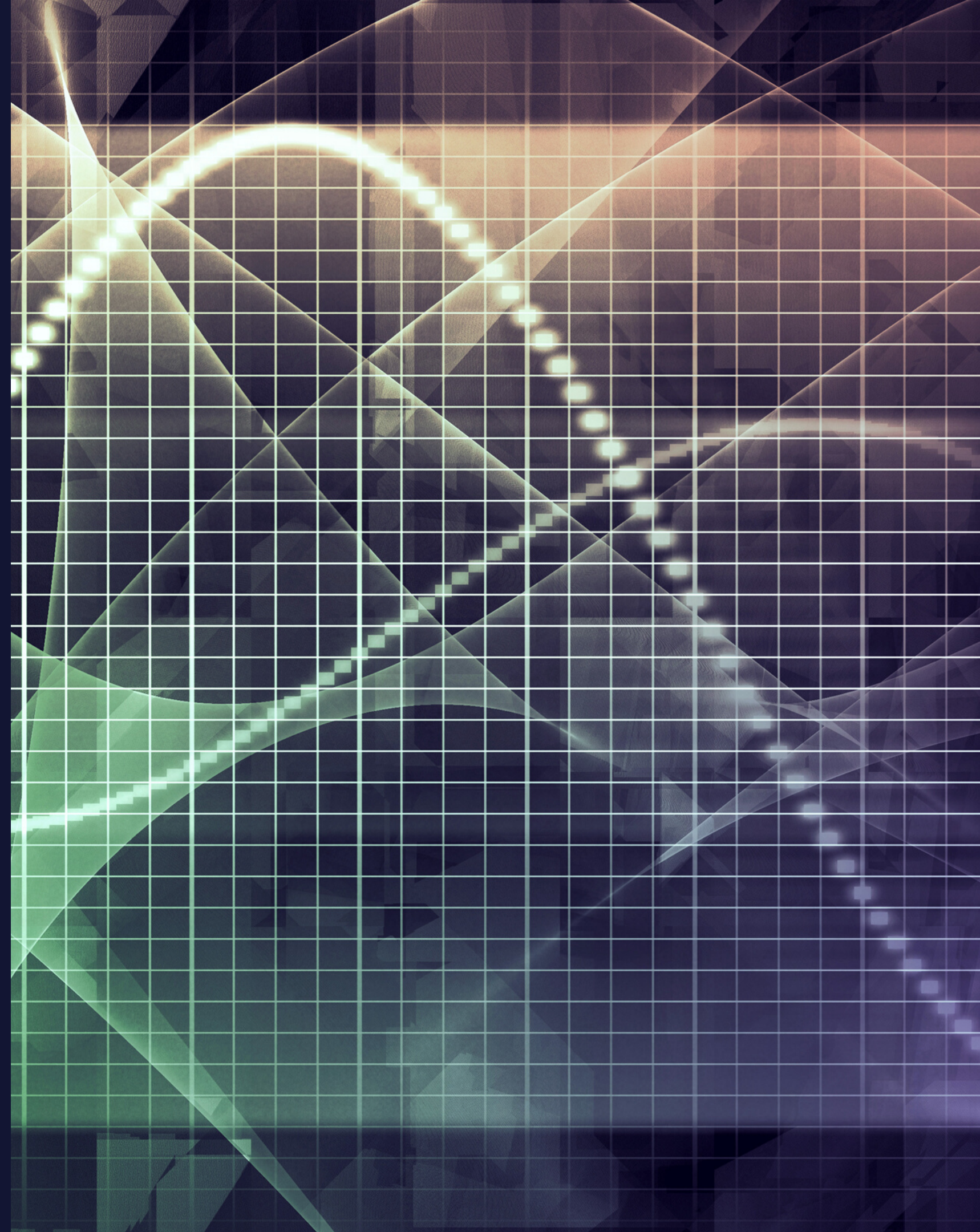
The Compendium is divided into five industry-specific sections so you can quickly discover the most relevant information:

- **FASHION** - From cultivation to design, manufacturing to recycling and resale. Understand the numbers that are changing the modern fashion industry.
- **FMCG/CPG** - Numbers and insight to help you move from Fast-Moving Consumer Goods, to Fast-Moving Sustainable Goods.
- **RETAIL** - Statistics that show consumer demand for a new retail responsibility.
- **PHARMACEUTICAL** - The world of public and private healthcare and research.
- **TECHNOLOGY** - Understand and share the growth and impact of blockchain, AI, VR and other disruptive technology in consumer markets.



Technology

Circklo Sustainability Statistics Compendium 2020





22%

Water network energy
savings generated in three
months via United Utilities
**AI-Powered Flexible
Energy Platform**





Machine learning helps to
cut energy consumption by

40%

in Google's data centers





Autonomous vehicles alone can reduce oil consumption and related greenhouse gas emissions by 2% -4%, annually over the next 10 years.



AI-enabled traffic lights in Pittsburgh have reduced travel time by **25%** and idling by more than **40%**

<https://www.recode.net/ad/18027288/ai-sustainability-environment>



50% Documented energy savings in smart lighting installations.



**Real-time monitoring
for behavioral changes
can affect up to**

40%

**of a building's energy
consumption,**





Residential
customers using
smart meters save
nearly **\$42 a year**
on their energy bill.



74% of business-decision makers working in environmental sustainability agree AI will help solve long-standing environmental challenges; **64%** agree the Internet of Things will help solve these challenges.

AI levers could reduce worldwide greenhouse gas emissions by 4% in 2030, equivalent to the 2030 annual emissions of Australia, Canada and Japan combined.



AI could potentially deliver additional economic output of around **\$13 trillion by 2030**, boosting global GDP by about 1.2% a year.



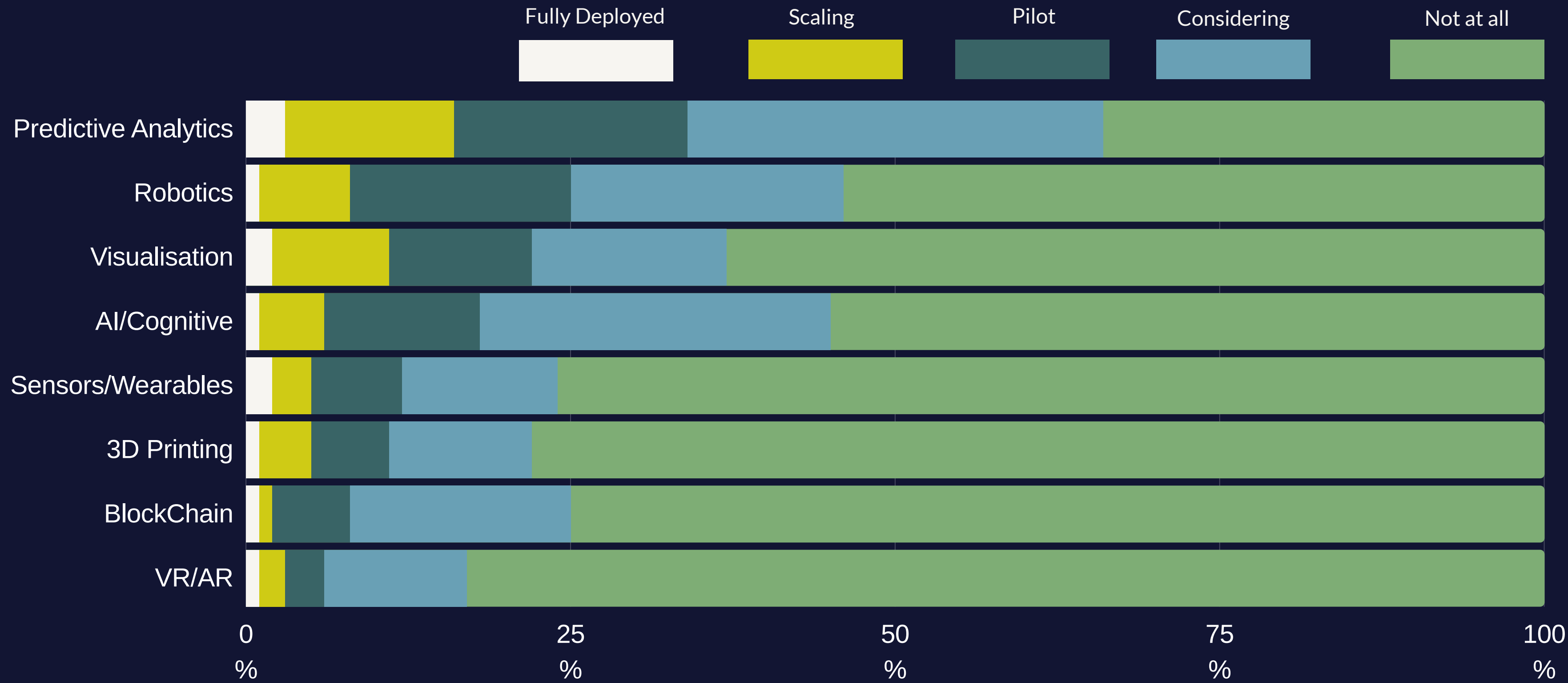
Using AI for environmental applications could contribute up to **\$5.2 trillion USD** to the global economy in 2030, a 4.4% increase relative to business as usual.



At the same time as productivity improvements, AI could create **38.2 million net new jobs** across the global economy offering more skilled occupations by 2030.



Current use of disruptive technology in consumer goods supply chains



60% of occupations have at least
30% of activities that could be
automated by adopting and
integrating technologies that
exist today.



Worldwide spending on blockchain solutions is expected to grow from \$1.5 billion in 2018 to an estimated \$15.9 billion by 2023.

<https://www.statista.com/topics/5122/blockchain/#:~:text=Worldwide%20spending%20on%20blockchain%20solutions,estimated%2015.9%20billion%20by%202023.&text=The%20financial%20sector%20accounts%20for,industry%20from%20healthcare%20to%20agriculture.>

Technology already available today could **reduce energy usage in the U.S. by 12 to 22%**, according to The Information Technology Industry Council (ITI),



75% of IoT Projects Concentrate on Five SDGs

- #9 Industry, innovation, and infrastructure (25%)
- #11 Smart cities and communities (19%)
- #7 Affordable and clean energy (19%)
- #3 Good health and well-being (7%)
- #12 Responsible production and consumption (5%)

These goals correspond to the most profitable industry applications. This suggests that **these projects' significant impact on sustainability is almost unintended**, or at least not their main driver.

While 60% of business leaders increased AI investments in 2017, **only 3% said they would invest significantly in training and reskilling** programmes through 2020.



1,300 tonnes

Amount of CO2 reductions from Karma, an app that redistributes waste food from supermarkets. This reduction equates to almost 900 tonnes of food which would otherwise have been destroyed.

<https://www.raconteur.net/sustainability/ai-sustainability-for-against>



45%

Increase in levels of attention in the brain when experiencing Augmented Reality, compared to TV viewing or general online browsing.





58% of consumers say they are curious about the carbon footprint released as a result of product distribution.

18%

Percentage of global consumer who say they are aware of the existence of blockchain technology.



Walmart has partnered with Nestle, Dole, Unilever, and Tyson Foods to implement blockchain in the food industry. Statistics show that blockchain implementation could generate \$700 million in increased productivity.



Carrefour believes
blockchain implementation
will revolutionize its supply
chains, helping raise **\$5
billion in organic food sales
by 2022.**



Consumer products
marketed as sustainable
typically increase sales

5.6X

faster than those that are not.

"Blockchain will be the primary force reshaping the food value chain. It solves several critical consumer, food manufacturing and retail problems"

Rob Holston

Global Consumer Industries Advisory Lead at EY

