

BEYOND MEDIATOR OF INFORMATION: LIBRARIAN AS SUSTAINABILITY AGENT

นอกเหนือจากผู้ไกล่เกลี่ยข้อมูล: บรรณารักษ์ในฐานะตัวแทนด้านความยั่งยืน




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“The greatest threat to our planet is the belief that someone else will save it.”

— ROBERT SWAN, AUTHOR





Sustainability is important to us because it addresses critical global challenges, preserves the environment, enhances economic stability, promotes social equity, and contributes to the well-being of current and future generations.



It is a holistic approach that recognizes the interconnectedness of environmental, social, and economic factors and seeks to balance these elements for the benefit of all.

WHY IS SUSTAINABILITY IMPORTANT?

Sustainability is important to us for several significant reasons

1. Preservation of the Environment
2. Resource Conservation
3. Mitigating Climate Change
4. Economic Stability
5. Social Equity
6. Health and Well-being
7. Energy Independence
8. Quality of Life



GREEN TECHNOLOGY AND SUSTAINABILITY MARKET SIZE

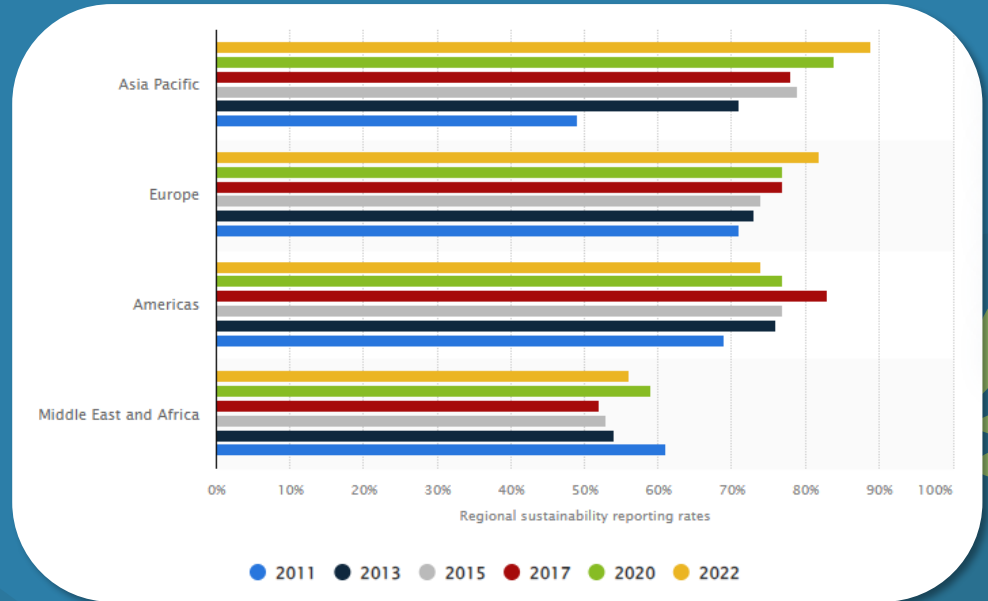
Between 2022 and 2030, the global green technology and sustainability market is forecast to grow. In 2022, the size of this market amounted to roughly 13.76 billion U.S. dollars.

By 2030, it is expected to peak at almost 62 billion U.S. dollars, increasing at a compound annual growth rate of 20.8% from 2023 to 2030.



SUSTAINABILITY REPORTING RATES OF FIRMS WORLDWIDE FROM 2011 TO 2022, BY REGION

- The Asia-Pacific region has had the largest growth rate in sustainability reporting, moving from roughly 50 percent of firms to almost 90 percent of companies engaging in sustainability reporting.
- The Middle East and Africa were the only regions to experience a regression as the number of firms participating in sustainability reporting dropped by five percent from 2011 to 2022.



LIBRARIAN RESPONSIBILITIES

The role of a librarian has evolved significantly over the years, and in today's world, librarians are increasingly seen as more than just mediators of information.

They can play a crucial role as sustainability agents in their communities and institutions.



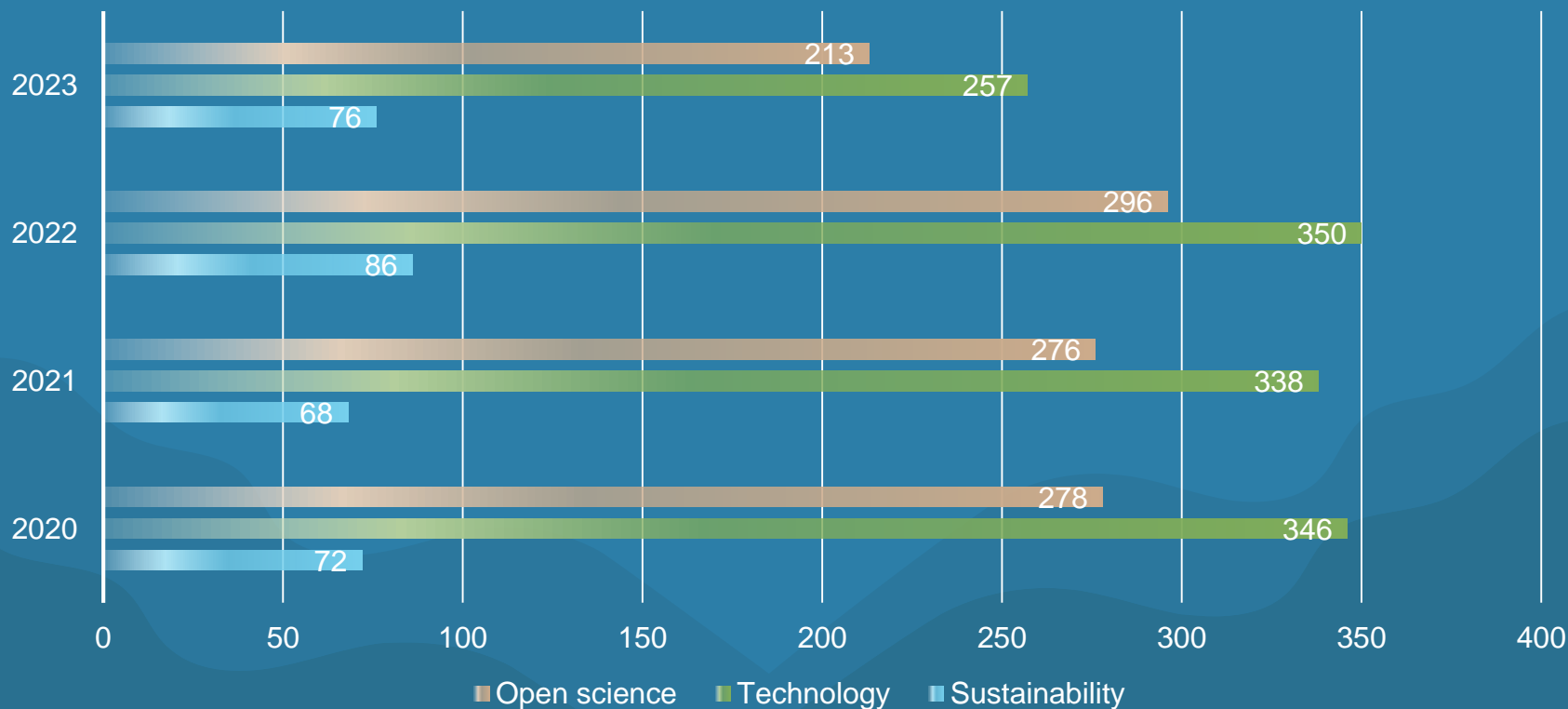
HOW DEEP ARE WE WILLING TO GO ON SUSTAINABILITY?

Does digital libraries and
smart libraries enough to
support sustainability?

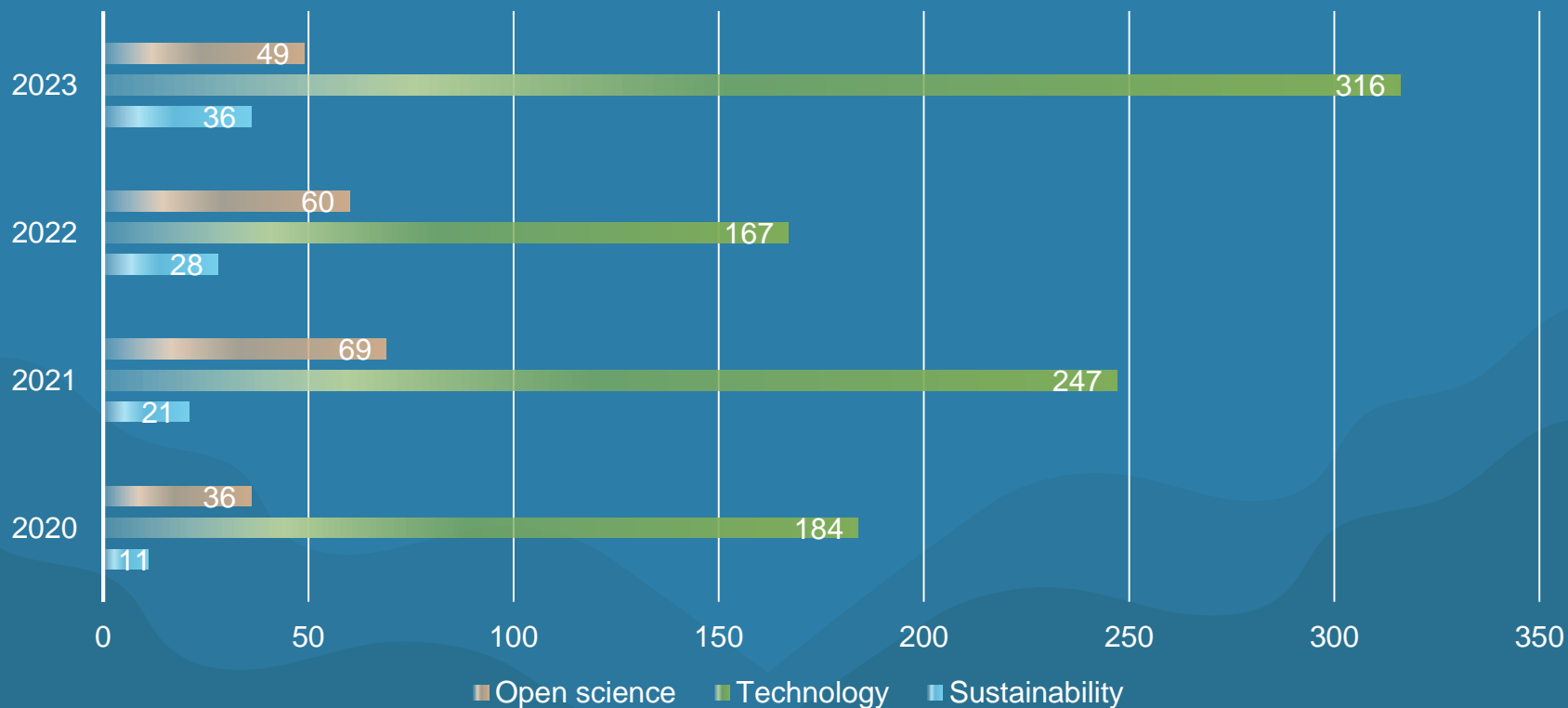




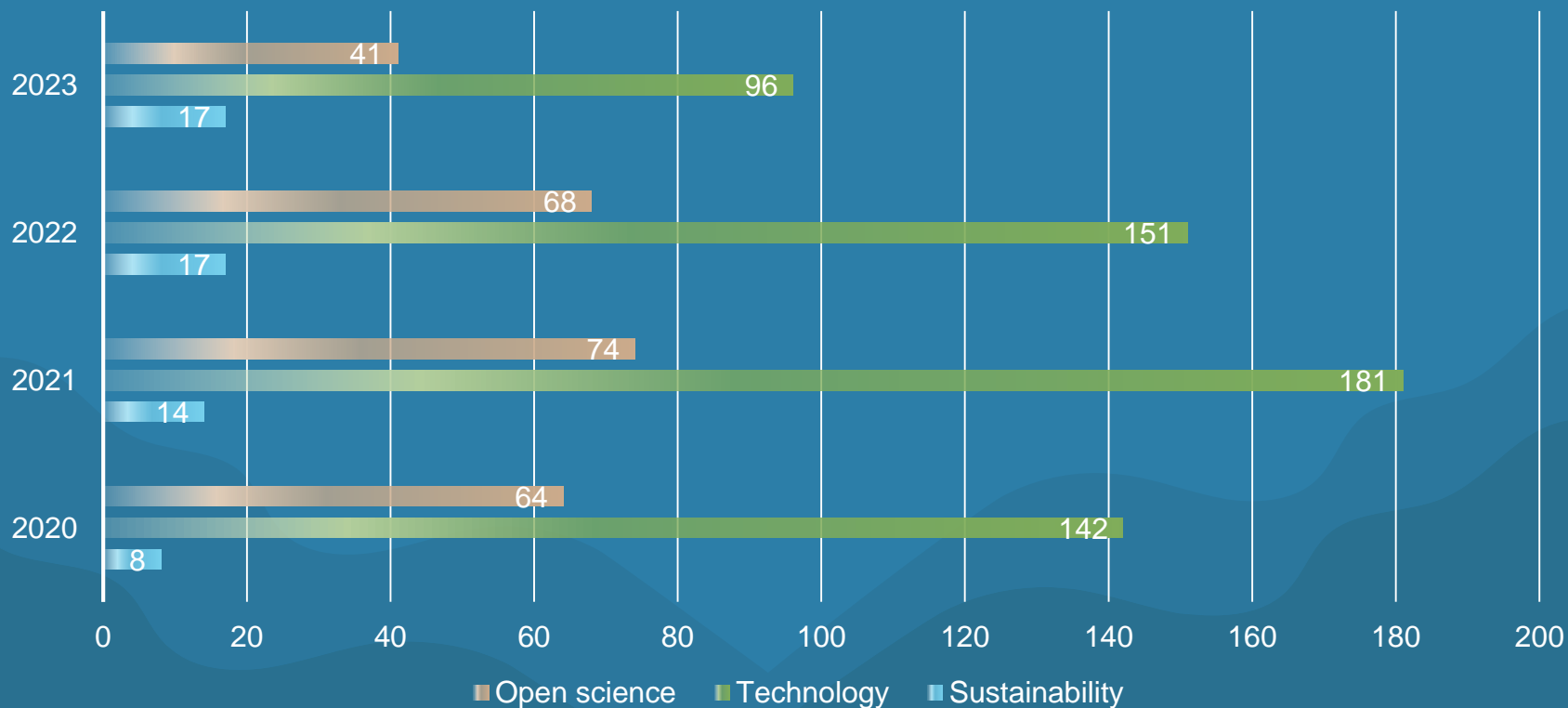
EMERALD INDEX – 13 OCT 2023



SCOPUS INDEX – 13 OCT 2023

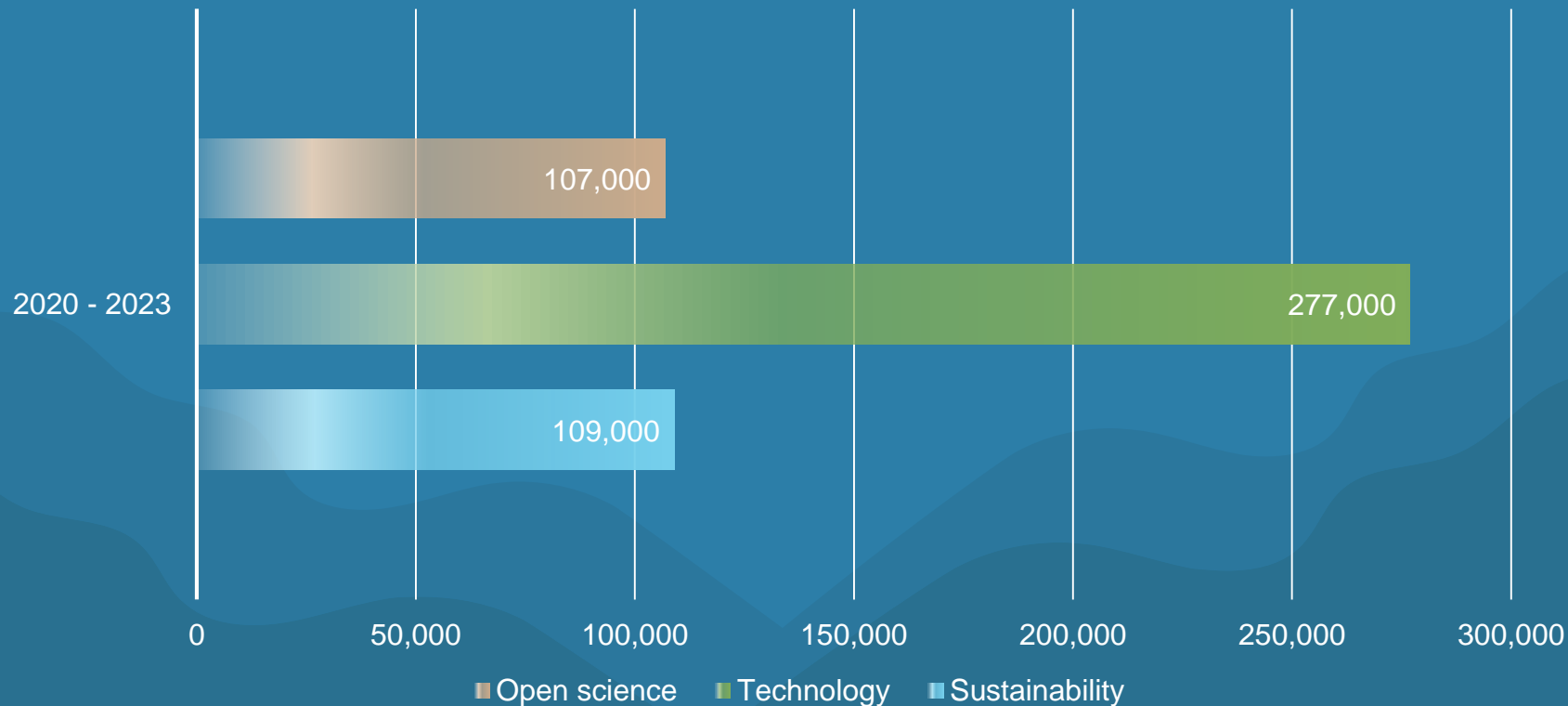


WOS INDEX – 13 OCT 2023

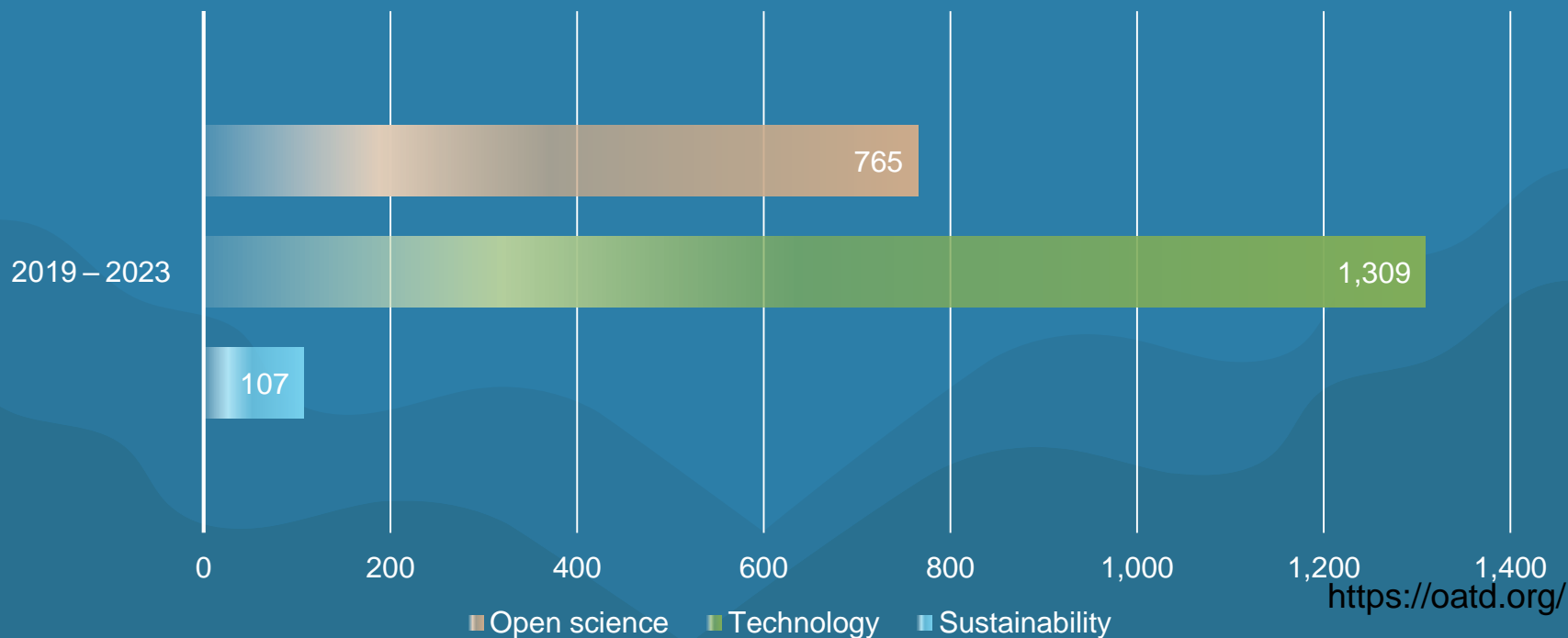




GOOGLE BOOK – 13 OCT 2023



OPEN ACCESS THESES AND DISSERTATIONS (4 YEARS) – 13 OCT 2023



A photograph of three hands, each holding a small green seedling with four leaves growing out of a mound of dark brown soil. The hands are positioned in a triangular arrangement, with the palms facing upwards. The background is a blurred green field.

WHERE SHOULD WE START?

Reacting to the sustainability movement involves a combination of personal actions, community involvement, and support for broader initiatives aimed at promoting environmental and social sustainability



Saving The Planet Isn't Just For
Superheroes. And It's Not Just
Wishful Thinking, Either.

Tiny Steps Can Have A
Huge Impact When We
All Agree To Play Our Part

YOU SHOULD START FIRST

1

Educate
Yourself



2

Save water



3

Conserve
Resources



YOU SHOULD START FIRST

4

Energy
Efficiency



5

Reduce Waste



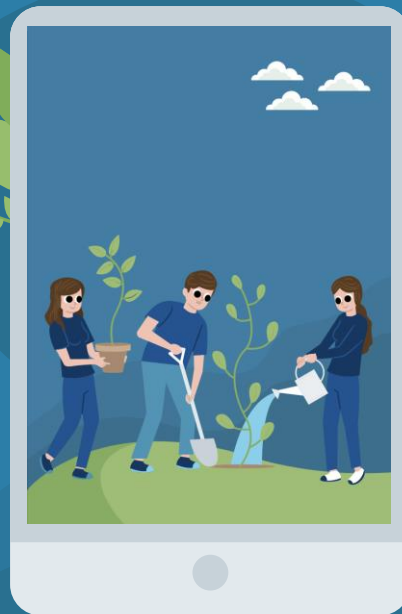
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Educate
Others



Part 2

How can librarians play a
role in the sustainability
movement



LET'S FOCUS ON THIS SUSTAINABILITY MOVEMENT



01
**PROMOTING SUSTAINABLE
PRACTICES**



02
EDUCATIONAL INITIATIVES



03
COMMUNITY ENGAGEMENT



04
INFORMATION LITERACY

PROMOTING SUSTAINABLE PRACTICES

- Librarians can **lead by example** by implementing sustainable practices within the library itself.
- This can include reducing energy consumption, promoting recycling and waste reduction, and adopting eco-friendly technologies.



ADVOCATING FOR GREEN BUILDINGS

If the library is involved in building projects, librarians can advocate for sustainable design principles, such as energy-efficient lighting, heating, and cooling systems, as well as green building materials.

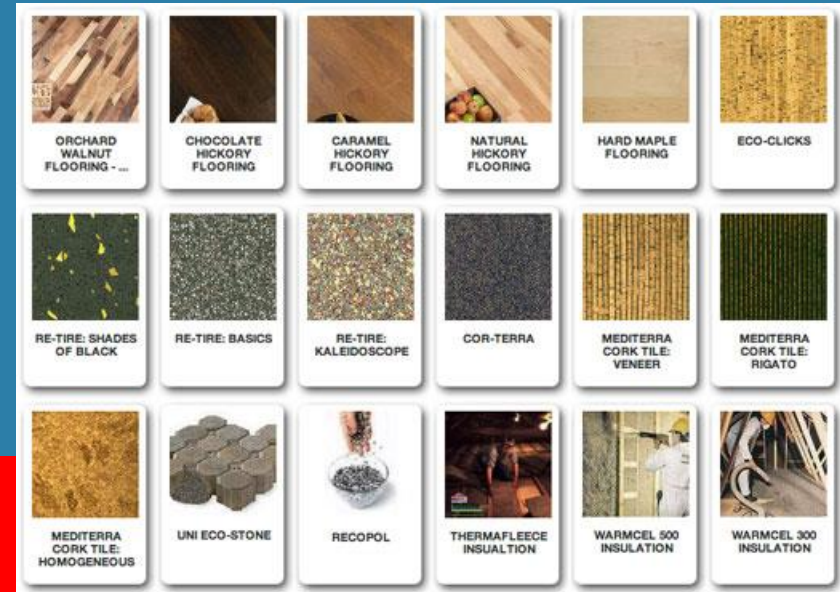


GREEN BUILDING MATERIAL

What is a green building product or material?

Green building materials are composed of renewable, rather than nonrenewable resources.

Green building materials offer :
Reduced maintenance/replacement costs over the life of the building.
Energy conservation. Improved occupant health and productivity.



GREEN BUILDING MATERIAL

Invest In Practical Furniture :

- Pieces like chairs and tables made from sustainable materials like wood, bamboo or recycled plastic are a great way to reduce your environmental impact.



LEDS



- Light emitting diodes (LEDs) are a type of solid-state lighting -- semiconductors that convert electricity into light.
- LED lighting **enhances the reading experience** by reducing glare, improving uniformity, and providing adjustable light temperature.
- Libraries benefit from LED lighting's energy efficiency, long lifespan, sustainability, and flexible design options.



LEDs use up to 90% less energy and last up to 25 times longer than traditional bulbs.

SOLAR ENERGY

Solar panels are a great way to reduce your library's environmental impact.

Installing solar panels is a big investment, but it will pay off in the long run.



****California's Stevens Library is the very first net-zero energy library in the US

SOLAR ENERGY CAN SUPPORT SUSTAINABILITY IN LIBRARIES IN SEVERAL WAYS



LOWERING OPERATING COSTS

Solar power can significantly reduce energy costs, enabling libraries to allocate more of their budget towards educational resources and services.



EDUCATIONAL OPPORTUNITY

Libraries can use their solar installations as educational tools, teaching patrons about renewable energy, sustainability, and the benefits of solar power.



GREEN BUILDING CERTIFICATION

Solar energy can help libraries achieve green building certifications, which can boost their reputation and contribute to a more sustainable community.



LONG-TERM INVESTMENT

Solar panels are a long-term investment that can generate clean energy for decades, supporting the library's sustainability goals for years to come.



HERE ARE SOME COST CONSIDERATIONS

Library Size:

Larger libraries with higher energy consumption will require more extensive solar installations, which will increase the overall cost.

Geographic Location:

Areas with more sunlight are generally more conducive to solar energy production.

Solar Panel Type:

The type and quality of solar panels used will affect the cost. High-efficiency panels may cost more but can produce more energy in a smaller space.

Incentives and Rebates:

Government incentives, tax credits, and rebates can significantly reduce the cost. These incentives vary by region and can make solar installations more affordable.

Installation Costs:

The cost of labor, permitting, and other installation-related expenses will factor into the overall cost.

Maintenance and Monitoring:

Ongoing maintenance and monitoring costs should also be considered.



EDUCATIONAL INITIATIVES

2



- Librarians can organize workshops, lectures, and educational programs on sustainability topics.
- These programs can be targeted at library patrons, students, faculty, and the broader community to raise awareness and provide practical knowledge.



Understand the specific sustainability and environmental issues in your community.

Define **clear objectives** for your initiative, such as 1) reducing waste, 2) conserving resources, or 3) promoting green living.

Recruit staff members, volunteers, or partner with local environmental organizations to help organize and run the initiative.

IDENTIFY THE NEED AND GOALS



By taking these steps, your library can become a hub for sustainability and environmental awareness in your community, fostering a sense of shared responsibility for protecting the environment and promoting a sustainable future.



LIBRARY RESOURCES

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- Curate a collection of books, magazines, and digital resources on sustainability, environmental conservation, and related topics.
- Section in the library website or dedicated book shelf/library corner

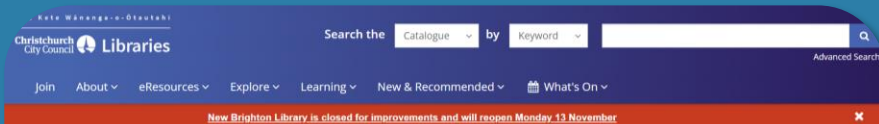


Source: U.N. DESA. Chart is provided for illustrative purposes.

EDUCATIONAL INITIATIVES

Host workshops, seminars, or webinars on sustainability, recycling, energy conservation, and eco-friendly practices.





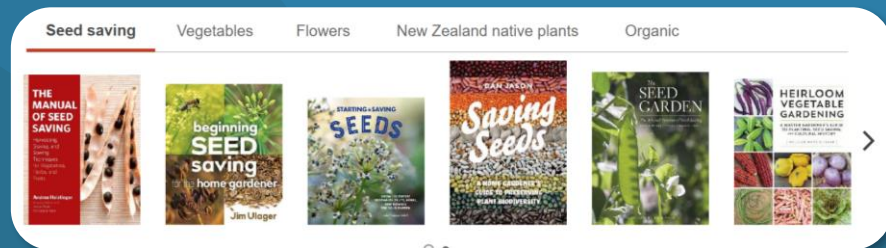
The Great Library Seed and Plant Swap

Every year in September Christchurch City Libraries hosts the Great Library Seed and Plant Swap. Come along to your local library and bring any seeds or seedlings you'd like to swap. Don't have anything to swap but would like something to take away and grow? That's okay too.

This page has information about seeds, gardening and the locations and dates for seed swaps at libraries around Christchurch.



Every year in September Christchurch City Libraries hosts the Great Library Seed and Plant Swap



THE GREAT LIBRARY SEED AND PLANT SWAP PROGRAMME

Christchurch City Libraries,
New Zealand





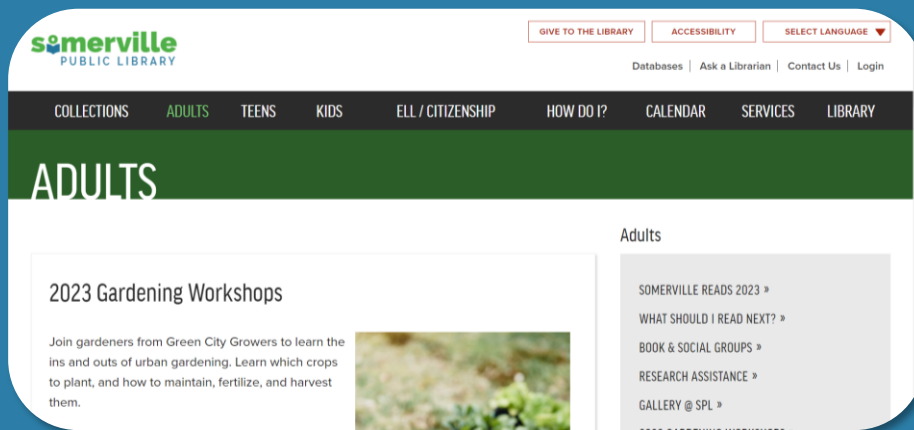
RECYCLING AND UPCYCLING WORKSHOPS

Kempsey Library,
New South Wales, Australia



The three workshops will be held at the Kempsey Library.

1. Give your old t-shirt a new life - no sewing skills required
2. Make your own reusable produce bags from old curtains
3. Learn how to make your own soil



Somerville Public Library (Massachusetts) and Green City Growers are hosting a series of urban gardening workshops to help community members learn how to care for an urban garden all year long—from “waking up the garden” in spring, to planting and harvesting throughout summer and fall, and winterizing the garden at the end of season.

COMMUNITY GARDENS IN LIBRARY

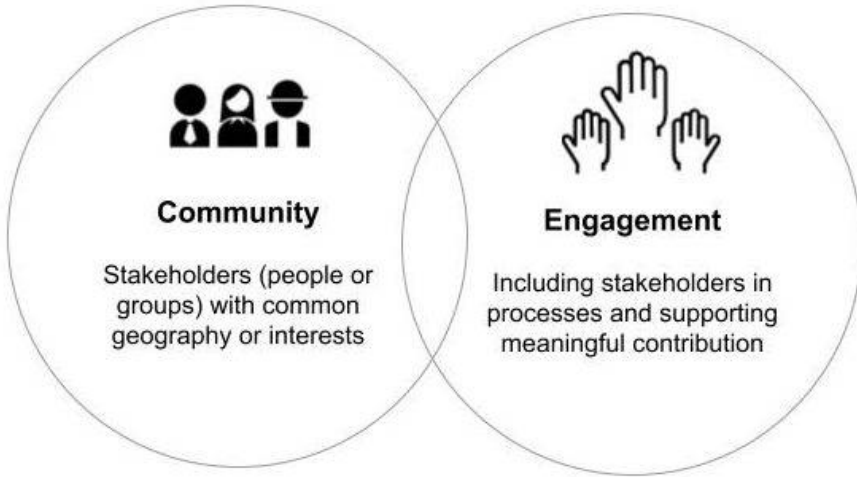
Somerville Public Library,
Massachusetts, United
States

somerville
PUBLIC LIBRARY



COMMUNITY ENGAGEMENT

3



- Community engagement **refers to the process of involving and collaborating with individuals, organizations, and communities in decision-making, planning, and problem-solving processes that affect them**
- Community engagement can take various forms, including public meetings, surveys, focus groups, workshops, online platforms, and more

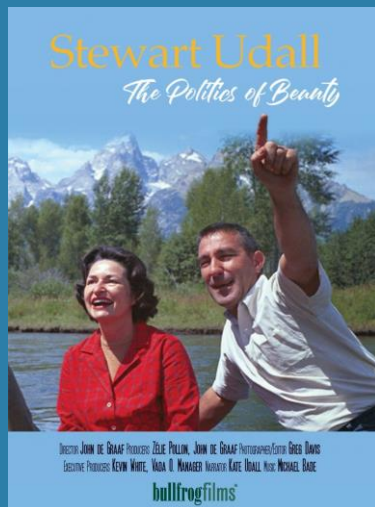
Increased Relevance

Building Trust

COMMUNITY RESEARCH



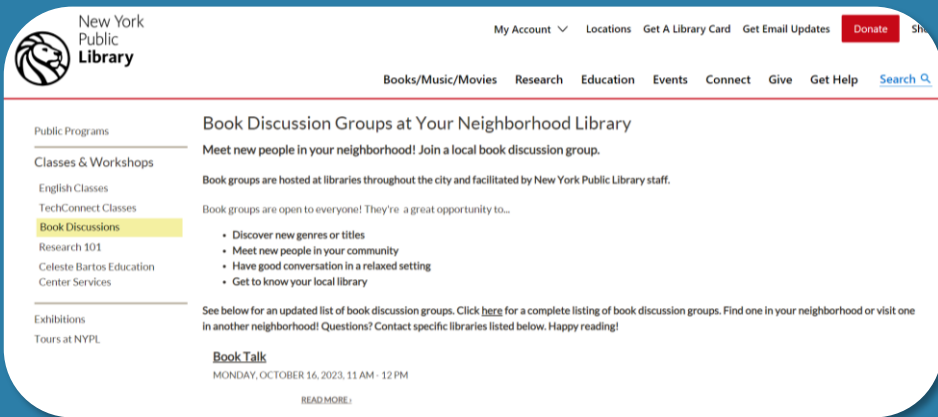
- **Water Management:** Studies on sustainable water use, water quality, and the preservation of freshwater resources.
- **Green Building and Urban Planning:** Research on sustainable architecture, urban design, and smart city initiatives to reduce environmental impact.
- **Sustainable Transportation:** Studies on electric vehicles, public transportation, and cycling as alternatives to traditional transportation modes.
- **Waste Management:** Research on waste reduction, recycling, composting, and responsible waste disposal.



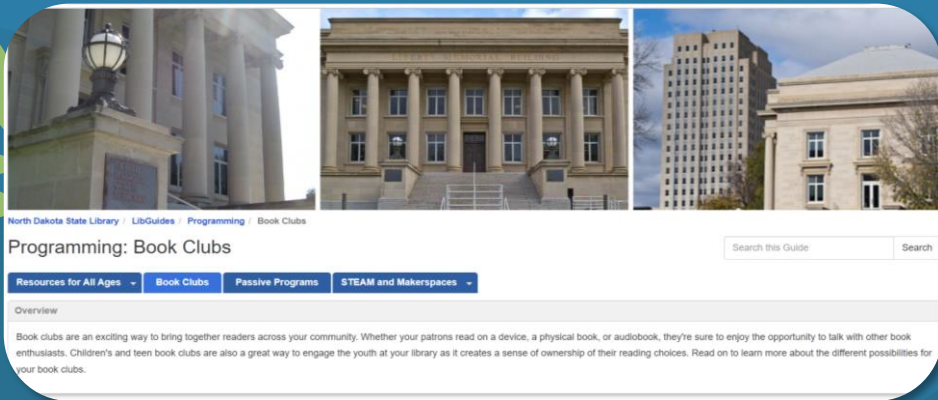
FILM SCREENINGS



Sustainability Film Series



New York Public Library



North Dakota State Library



BOOK CLUBS

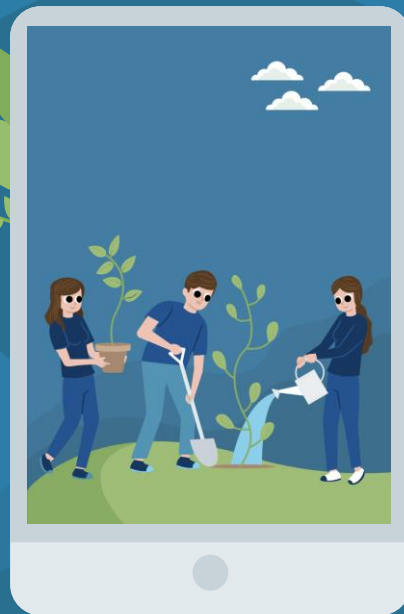
Library book clubs are a great way for libraries to engage with their communities, promote reading and literacy, and provide a forum for meaningful discussions.

These clubs can be organized by the library or initiated by patrons.

CITIZEN SCIENCE

Citizen science is any activity that involves the public in scientific research and thus has the potential to bring together science, policy makers, and society as a whole in an impactful way.

The main benefit of involving citizens in science activities and then in measures proposal is the fact that people become more aware, direct involved, and concerned.



INFORMATION LITERACY

- Librarians can teach information literacy skills that are particularly relevant in the context of sustainability.
- This includes critical evaluation of sources, understanding bias, and navigating complex scientific and environmental data.



INFORMATION LITERACY ABOUT SUSTAINABILITY



SOURCE EVALUATION



DATA LITERACY



MEDIA LITERACY



SEARCH STRATEGIES



**CITATION AND
ATTRIBUTION**



SCIENTIFIC LITERACY

MEASURING IMPACT

- Librarians can assess the impact of their sustainability initiatives by tracking metrics like resource usage, program attendance, and user satisfaction.
- This data can be used to refine and improve sustainability efforts over time.



MEASURING IMPACT : SOME OF THE MEASUREMENT

1. Energy Consumption
2. Water Usage
3. Green Building Certification
4. Community Engagement – feedback
5. Green Purchasing
6. Long-Term Goals





IN SUMMARY

- Librarians can go beyond being mere mediators of information and actively contribute to sustainability efforts in their institutions and communities.
- By curating resources, promoting sustainable practices, educating others, and advocating for sustainability, librarians can play a vital role in addressing environmental and societal challenges.

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LIBRARIAN AS SUSTAINABILITY AGENT

ขอขอบคุณ



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