WIPO | GREEN
The Marketplace
for Sustainable Technology

International Symposium on Intellectual Property

WIPO GREEN Presentation

Amy Dietterich
Director, Global Challenges Division
World Intellectual Property Organization (WIPO)

Online
June 18, 2021

www.wipo.int/green

WIPO GREEN

Presentation outline:

1- What is WIPO GREEN?
2- Yesterday
3- Today
4- Tomorrow

WIPO GREEN

Online platform for accelerated adaptation, adoption, and deployment of green technology solutions

Connects seekers of environmentally sustainable solutions with technology and service providers

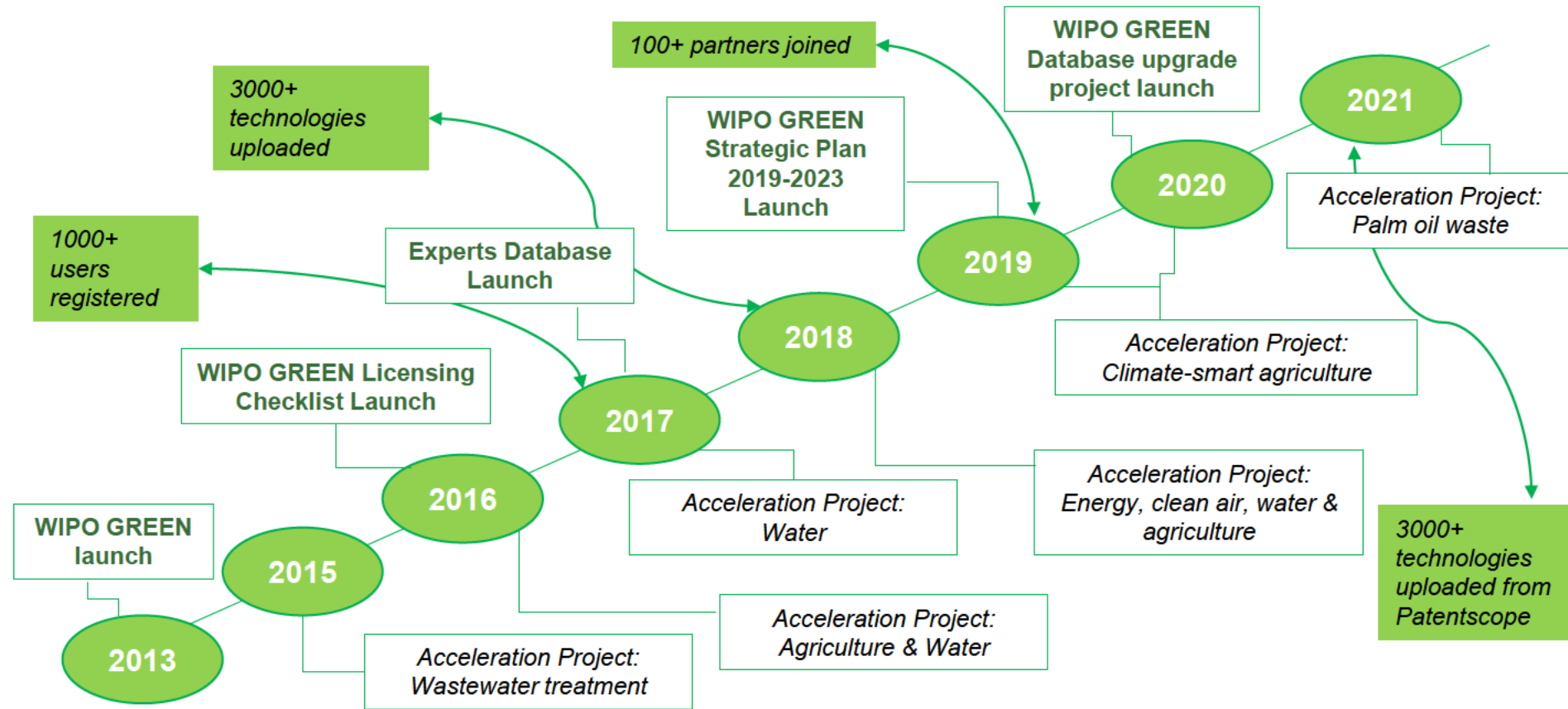**Enable** adaptation and deployment of green solutions through a transparent database

Engage with private sector

Contribute to global policy dialogue
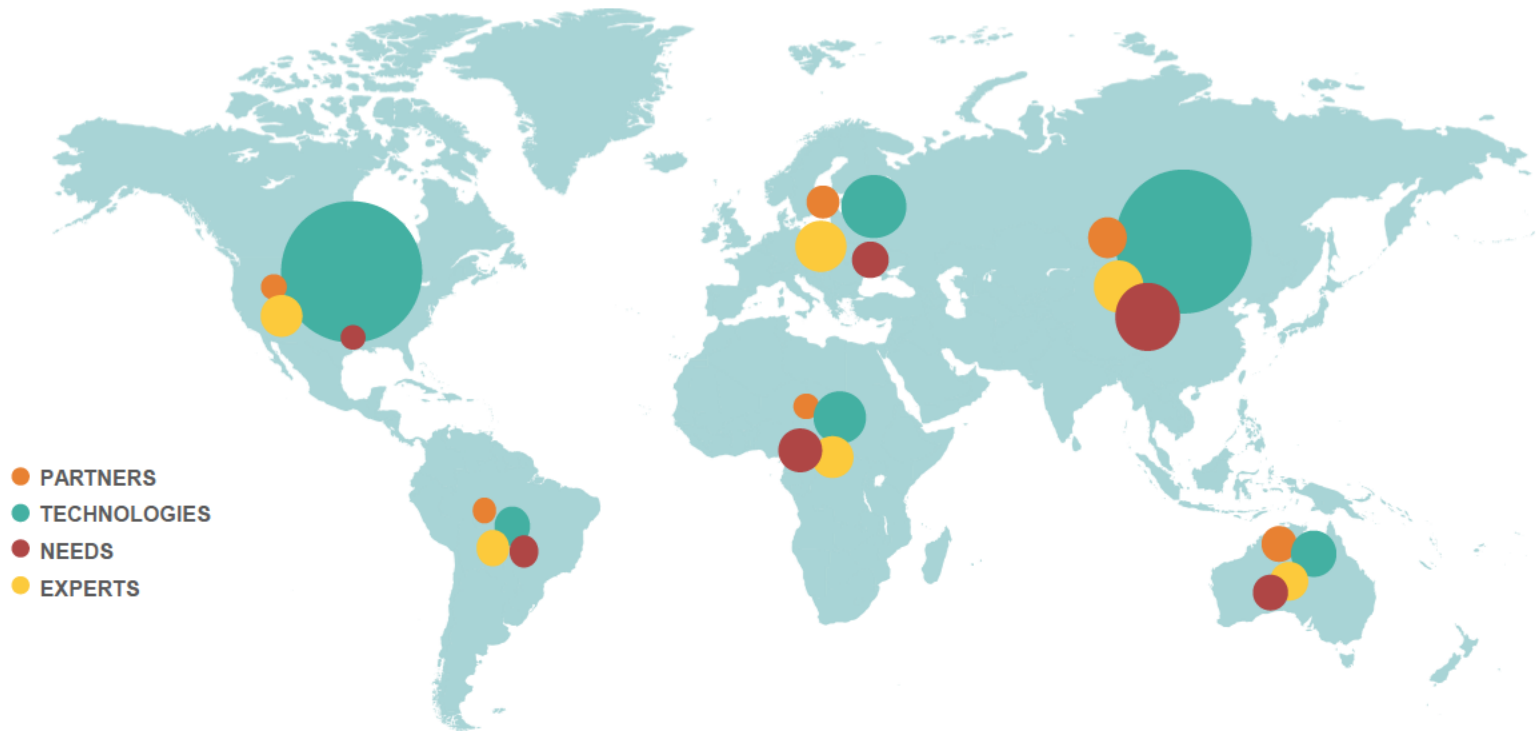
WIPO GREEN: brief history

100+ partners joined

WIPO GREEN
Database upgrade
project launch

3000+
technologies
uploaded

2021

**WIPO GREEN
Strategic Plan
2019-2023
Launch**

*Acceleration Project:
Palm oil waste*

1000+
users
registered

2020

**Experts Database
Launch**

2019

2018

*Acceleration Project:
Climate-smart agriculture*

**WIPO GREEN Licensing
Checklist Launch**

2017

*Acceleration Project:
Water*

*Acceleration Project:
Energy, clean air, water &
agriculture*

2016

**WIPO GREEN
launch**

2015

*Acceleration Project:
Agriculture & Water*

3000+
technologies
uploaded from
Patentscope

2013

*Acceleration Project:
Wastewater treatment*

WIPO GREEN Highlights 2020

- **166,000+** Page views *(80,000+ in 2019）*

- **120,000+** Unique page views *(60,000+ in 2019）*

- **7,400+** Newsletter subscribers *(6,700+ in 2019)*

    - **3,750+** Technologies, needs and experts *(3,100+ in 2019）*

    - **780+** Connections *(678+ in 2019）*

    - **118** Partners *(100 in 2019）*

    - **50** News items published *(15 in 2019）*

WIPO | GREEN
The Marketplace
for Sustainable Technology

WIPO GREEN Global – 126 partners
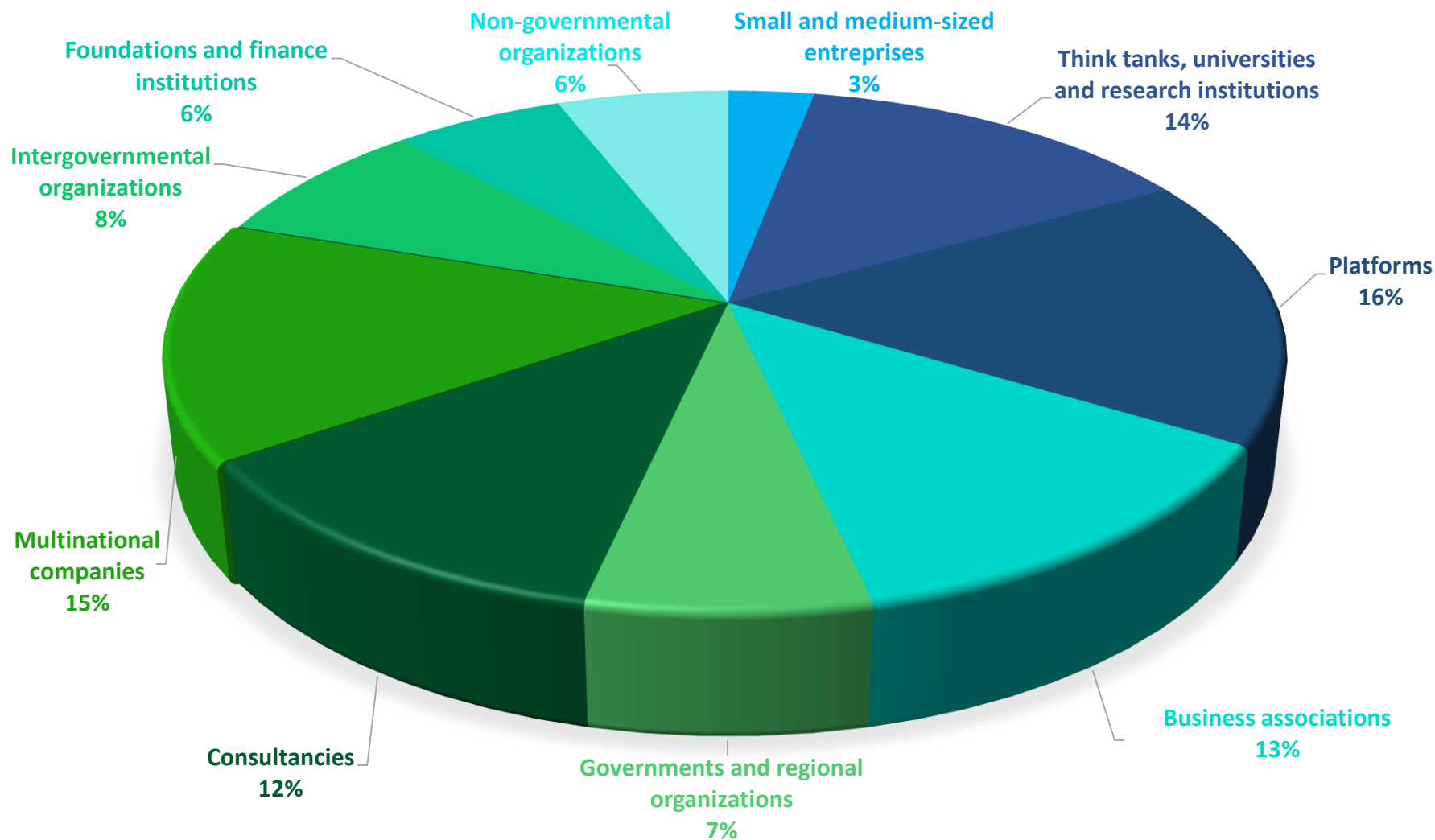

PARTNERS
TECHNOLOGIES
NEEDS
EXPERTS

1,800+
REGISTRED
USERS

6,500+
TECHNOLOGIES
UPLOADED

250+
NEEDS

WIPO GREEN partners by category

Non-governmental organizations 6%
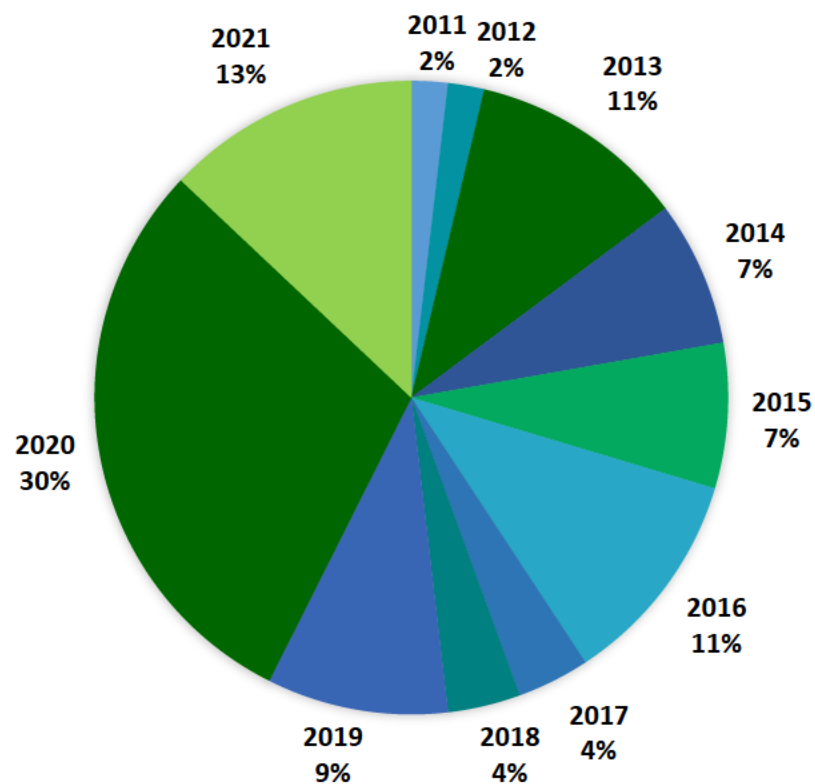
Foundations and finance institutions 6%

Intergovernmental organizations 8%

Small and medium-sized entreprises 3%

Think tanks, universities and research institutions 14%

Platforms 16%

Multinational companies 15%

Business associations 13%

Consultancies 12%

Governments and regional organizations 7%

Regional distribution of users

North America
13%

Latin America and
Caribbean
7%

Europe
29%

Northern Africa and
Western Asia
6%

Sub-Saharan Africa
12%

Central and
Southern Asia
10%

Southeast Asia, East
Asia and Oceania
23%

WIPO | GREEN
The Marketplace
for Sustainable Technology
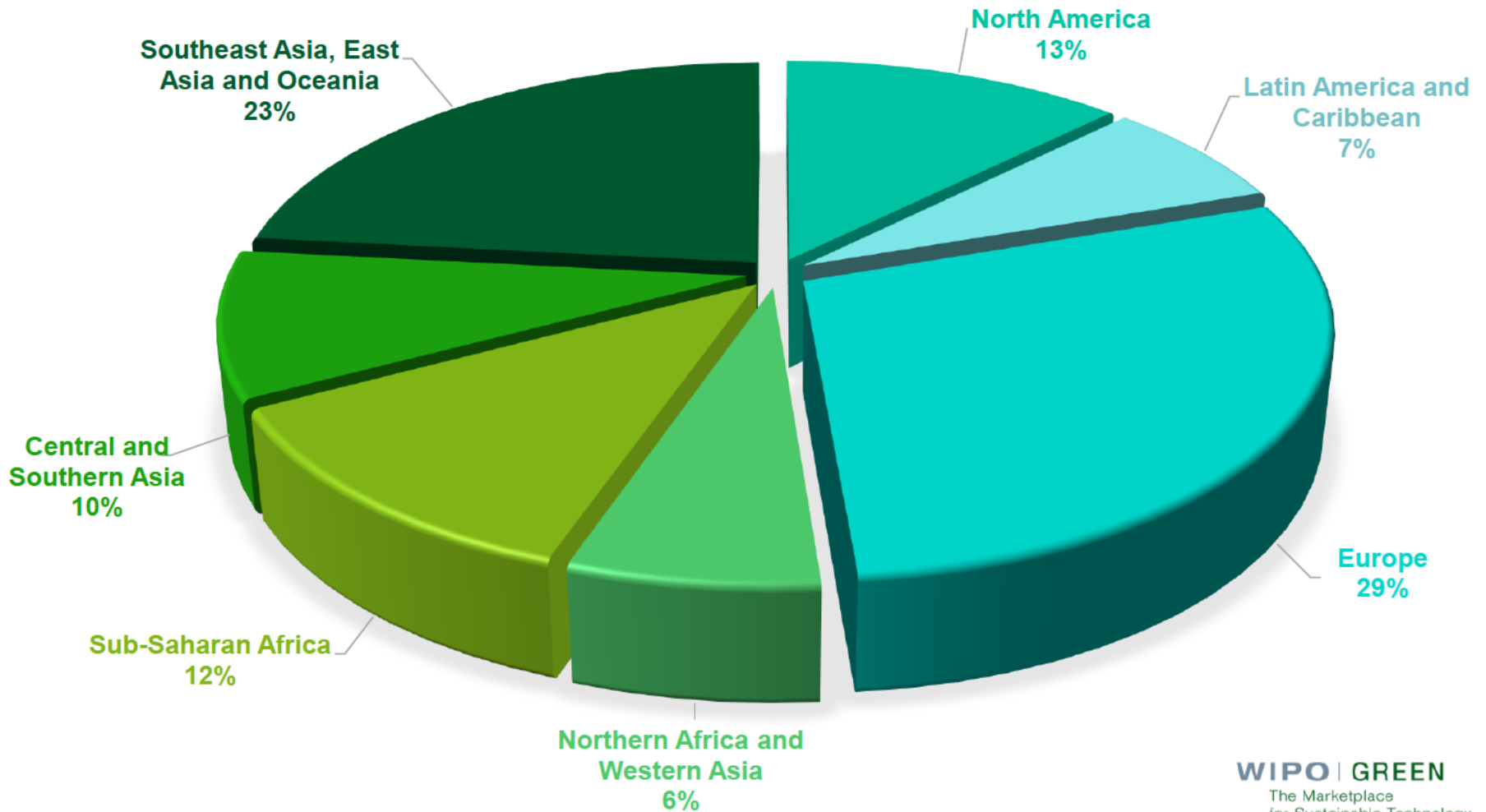
Partner contributions

Submissions per year

2011 2%
2012 2%
2013 11%
2014 7%
2015 7%
2016 11%
2017 4%
2018 4%
2019 9%
2020 30%
2021 13%

Submissions per category

Water 13%
Building & Construction 5%
Energy 20%
Transportation 13%
Farming & Forestry 10%
Products, materials and processes 20%
Pollution & Waste 19%
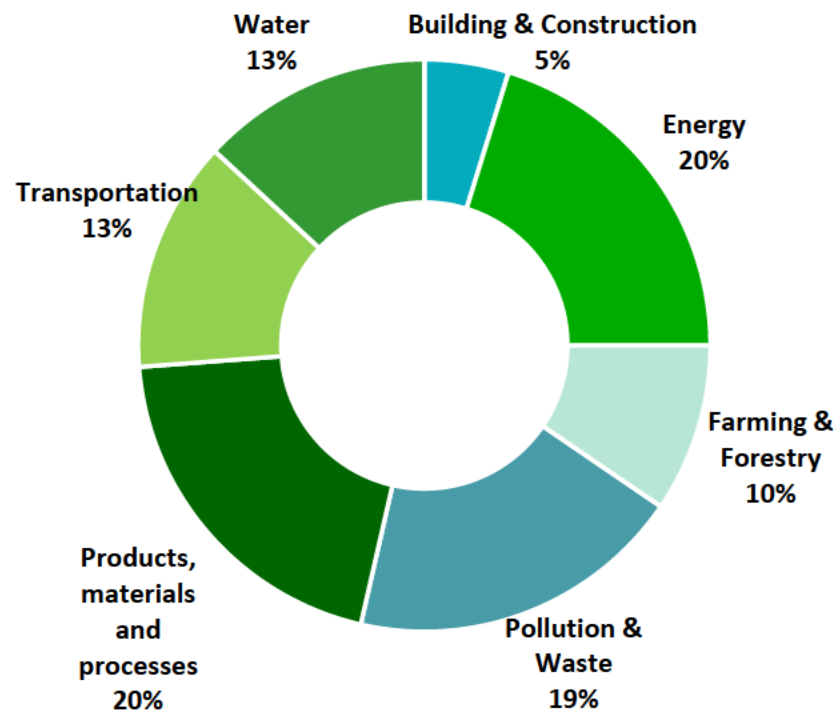
WIPO GREEN Database Highlights

6,500+ technologies   **250+ needs**

ENERGY	POLLUTION & WASTE	FARMING & FORESTRY	PRODUCTS, MATERIALS & PROCESSES	BUILDING & CONSTRUCTION	TRANSPORTATION	WATER
2,300+	1,700+	950+	940+	670+	370+	300+
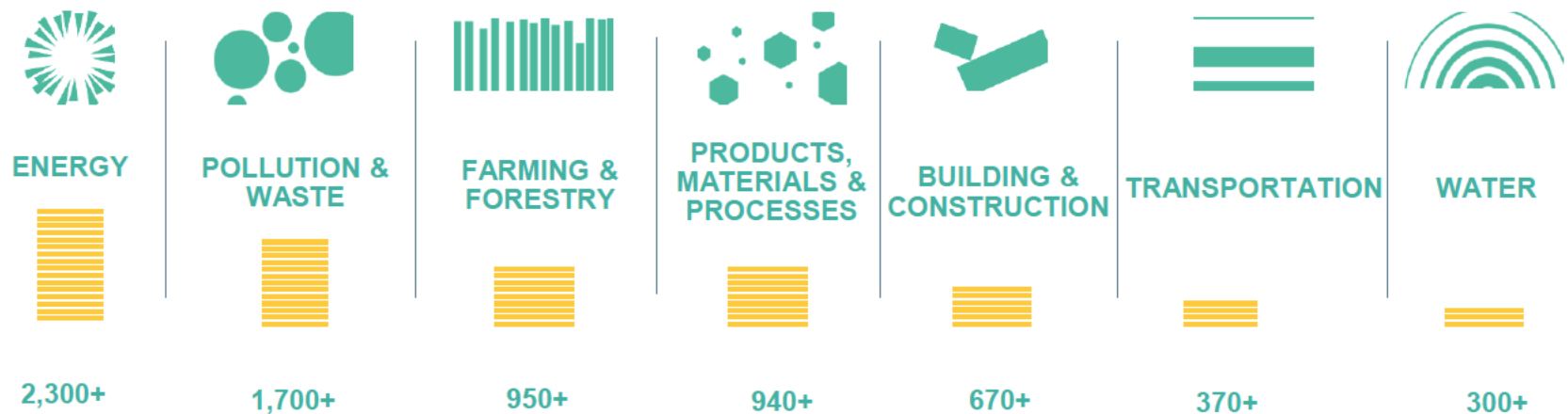
- Increase in number of registered users from 1,417 in 2019 to 1,717 in 2020 (20+%)

WIPO | GREEN
The Marketplace
for Sustainable Technology

Pollution & Waste

- Air
- Solid waste treatment
- Waste water treatment
- Recycling & reuse
- Carbon capture & storage
- Waste disposal
- Land
- Waste avoidance
- Bio-remediation
- Waste collection & transport
- Measuring & monitoring green house gasses
- Pollution detection, measurement & monitoring
- Food waste
- Cleaner coal
- Composting
- ICT in pollution & waste management

Bi-Modal Real-Time Air Quality Solution
By Clarity & Ramboll (China, 2020)

Scalable air quality monitoring:
Street by street atmospheric pollution data
Rigorous and robust modeling
Forecast peak pollution events

WIPO | GREEN
The Marketplace
for Sustainable Technology

Credit: Clarity

Farming & Forestry

- Farming technologies
- Improved farm inputs
- Forest production (sylviculture)
- Fish farming (aquaculture)
- Forest, biodiversity & ecosystem restoration/conservation
- Food processing
- Irrigation
- Hazard prevention & early warning systems
- Plant & livestock varieties
- Soil improvement
- Harvest & storage
- Stress tolerant cultivation
- Livestock
- ICT in farming
- Land use management
- GIS & Earth observation

Fruit care biospray
By Cultiva
(USA, 2020)

Protective shield:
Improves fruit quality and yields
Prolongs shelf life and avoid food waste
Safe ingredients

WIPO | GREEN
The Marketplace
for Sustainable Technology

Success stories

Leveraging micropayment technology to increase access to safe drinking water

Through this collaboration, Cubo and Susteq plan to bring safe drinking water to over 20,000 beneficiaries in Nigeria and Kenya by 2019, with the possibility to extend their impact in countries like Senegal and India in the near future.

Prices are kept down by combining the low treatment and operation cost of Cubo's equipment with the simplicity and security of the micropayment system developed by Susteq.

Success stories

**Using innovative technology to educate future changemakers**

WIPO GREEN matchmaking helped the Innovation Hub of Bali's multi-awarded Green School establish a collaboration with the US-born company Zero Mass Water to bring sustainable drinking water to its students, thus continuing in its mission to raise awareness on environmental challenges and green solutions.

Fujitsu concludes green technology licensing agreements

Fujitsu signed intellectual property (IP) licensing agreements for two technologies with Kyushu University and University of the Ryukyus.

Platform upgrade
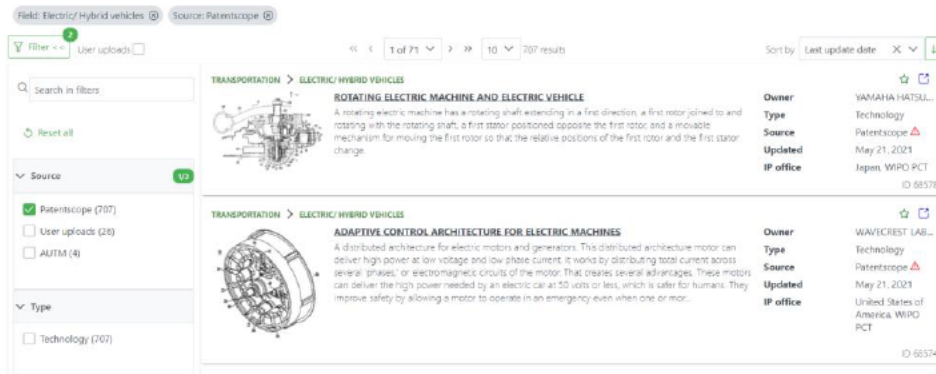
- New database launched
- Still hybrid between old and new that gradually will transform
- New search interface (simple, advanced, full-text AI assisted)
- Saved searched + alert, bookmarks, my submissions, profile page with permissions
- New filter options
- New list and details screens
- Simplified user registration

WIPO | GREEN
The Marketplace
for Sustainable Technology

Platform upgrade – what's next

- Continuous improvements
- Full Patentscope imports
- Patent2solutions (AI assisted search)
- Featured articles (needs, technologies, knowledge material etc.)
- User-dashboard
- Auto-matching
- Collections
- Integration of experts database

WATER > WATER TREATMENT

EcoMBR: Energy-saving Membrane Bioreactor Using Ozonated Water to Clean Membrane Filter

The EcoMBR is able to achieve a high-quantity flux, or quantity of permeated water per membrane surface area, that is more than twice the rate of conventional MBRs. The key is regularly backwashing the membranes with highly concentrated ozonated water to remove virtually all organic foulants, thereby increasing membrane permeability. In addition, the EcoMBR lowers energy consumption by using a reduced flow rate for air bubbles that are emitted from a blower to clean the membrane surfaces. The EcoMBR also enables the use of fewer membranes, resulting in smaller plant and system footprints.

Owner	Mitsubishi Elec...
Published	Apr 5, 2021
Updated	Apr 5, 2021
Type	Technology
Source	Native
ID	20623

TECHNOLOGY FEATURES

Resources to be saved or improved	Water
Technology type	Solid Fuel
Technology categories	Water > Water treatment

Benefits

EMAIL OWNER   VISIT WEBSITE

Mitsubishi Electric Corporat...

The EcoMBR efficiently removes foulants from the membrane filter through repeated washing with ozonated

WIPO | GREEN
The Marketplace
for Sustainable Technology

Looking ahead

- What will it take to get the global IP community behind WIPO GREEN?

- Deeper, more meaningful, purposeful, value-added engagement; it is what you make it.

- Defining challenges and addressing them: Stimulating demand, relevance for developing countries, leveraging the IP niche while going beyond

- Supporting new ways of innovating together, and improving access to funding by connecting entrepreneurs with capital and investors to connections established through WIPO GREEN.

- Directly and actively supporting the UNFCCC Technology Mechanism and SDGs (walking the IP and innovation talk)

- Learning, evolving, demonstrating the power of IP and innovation to help address climate change

WIPO | GREEN
The Marketplace
for Sustainable Technology

Thank you!

WIPO GREEN

Queries:

wipo.green@wipo.int

Further information:

www.wipo.int/green

WIPO GREEN Newsletter

Register as a database user

WIPO | GREEN
The Marketplace
for Sustainable Technology