



Mobilizing science  
for a global green renaissance  
3<sup>rd</sup> Edition



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A global competition where scientists, institutions, and countries accelerate the search for solutions that keep us within the boundaries of our Earth system.

The Frontiers Planet Prize aims to identify and recognize a National Champion for each participating country, and 3 International Champions who will each receive 1 million CHF to accelerate their research.





Frontiers Research Foundation launched the Frontiers Planet Prize to mobilize scientists and accelerate scientific solutions for healthy lives on a healthy planet.

# Planetary boundaries

Transgressed boundaries:

1. Biogeochemical flows
2. Biosphere integrity
3. Climate Change
4. Freshwater use
5. Novel entities
6. Land-system change

Sources: Updated Planetary Boundaries. Figure designed by Azote for Stockholm Resilience Centre, based on analysis in Wang-Erlandsson et al., 2022, Persson et al 2022 and Steffen et al 2015  
Image: based on Globaia



# Frontiers Planet Prize:

## Our mission



**frontiers**  
planet prize

### Mobilizing

The entire academic ecosystem, including universities, research institutions and national academies to join forces and find solutions

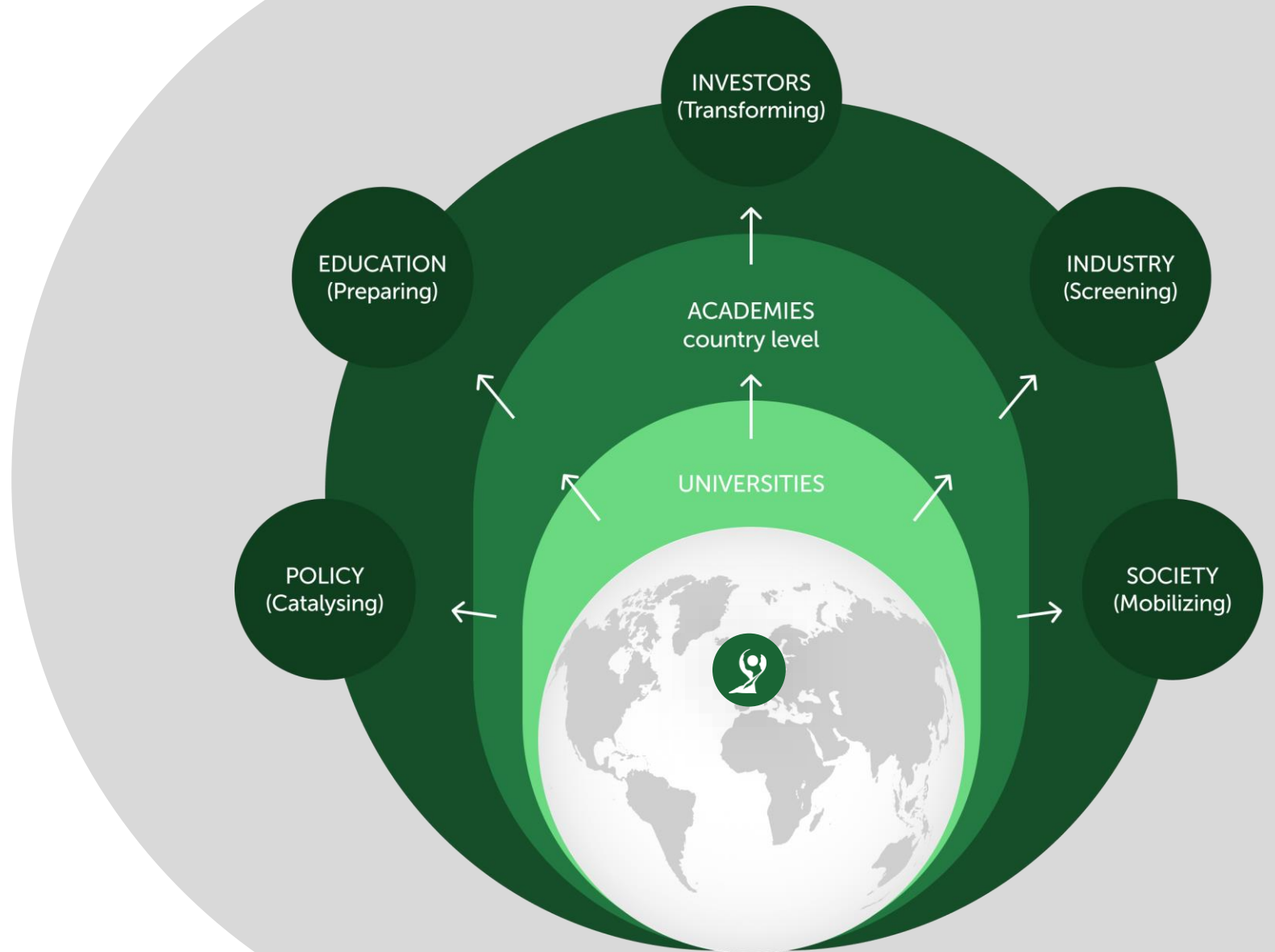
### Igniting

An international competition that accelerates scientific breakthroughs in planetary boundary science worldwide

### Catalysing

The search and adoption of scientific breakthrough by public and private stakeholders.

And what  
are we  
going to  
achieve?



# The Prize Mechanics

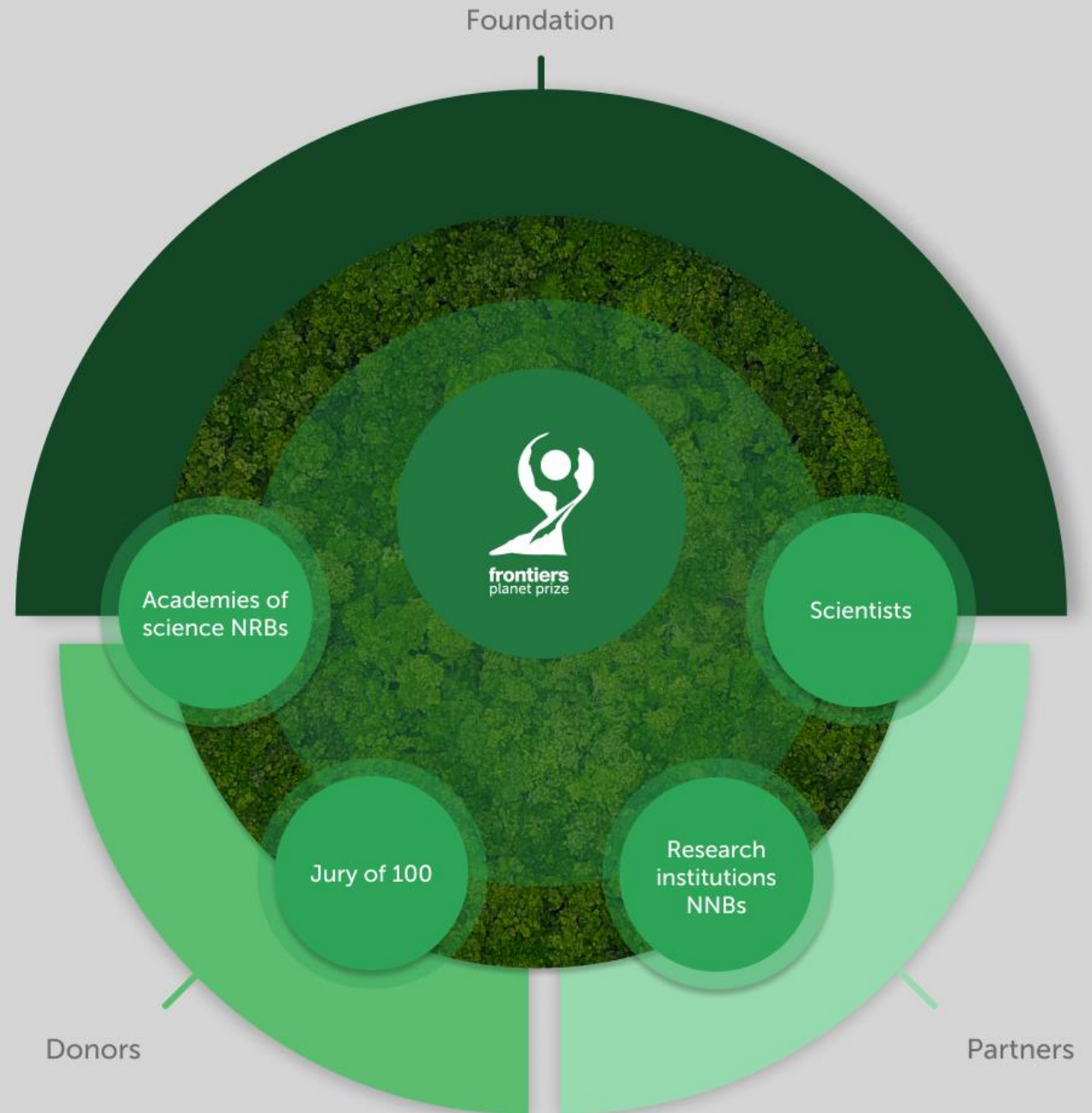
# The Frontiers Planet Prize ecosystem

## NNBs:

National Nominating Bodies are universities and research institutions that have agreed to nominate their scientists for the Frontiers Planet Prize.

## NRBs:

National Representative Bodies are national academies, funding bodies, and organizations of participating countries that agreed to collect nominations made by the NNBs.



# The Jury of 100

Covers the full spectrum of scientific backgrounds that are needed to judge the global impact of each scientific discovery.



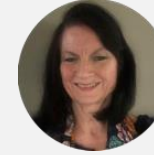
Johan Rockström



Prof Katharine Abernethy



Prof Priyanga Amarasekare



Prof Angela Arthington



Prof Xuemei Bai



Prof Govindasamy Bala



Dr Elena



Prof Mercedes Bustamante



Prof Wouter Buytaert



Dr Stephen Carpenter



Prof Matthew Collins



Prof Robin Craig



Prof Gretchen Daily



Prof Wim



Prof Daniel Esty



Prof James Evans



Dr Mariele Evers



Dr Richard Florizone



Prof Carl Folke



Prof Hayley Fowler



Prof Pierre Fr



Prof Andrew Haines



Dr Shakuntala Haraksingh Thilsted



Prof Bronwyn Hayward



Prof Terry Hughes



Prof Hans J. Schellnhuber



Prof Kevin Jones



Prof Sirkk



Prof Louis Kotzé



Prof Praveen Kumar



Ms Rachel Kyte



Prof Rattan Lal



Dr Miriam L Diamond



Prof Eric Lambin



Prof Tim

# Chair of the Jury

Professor  
Johan Rockström



The world's leading sustainability scientists  
chaired by Professor Johan Rockström



In charge of the voting process for both  
the National Champion for each participating  
country and the three International Champions  
impact of each scientific discovery.



The Jury works completely independently from  
the nominating bodies, and the foundation, and  
values a process that is rigorous, equitable and  
transparent.

# Our Advisory Board



Peter  
Gluckman



**International  
Science Council**  
The global voice for science



Lise  
Korsten



**The African  
Academy of Sciences**



Wendy  
Broadgate



Research. Innovation. Sustainability.



Sybil  
Seitzinger



Lee  
Howell



# Mechanics

## An “Olympic” race for solutions



Foundation

NNBs  
National Nominating Body

NRBs  
National Representative Body

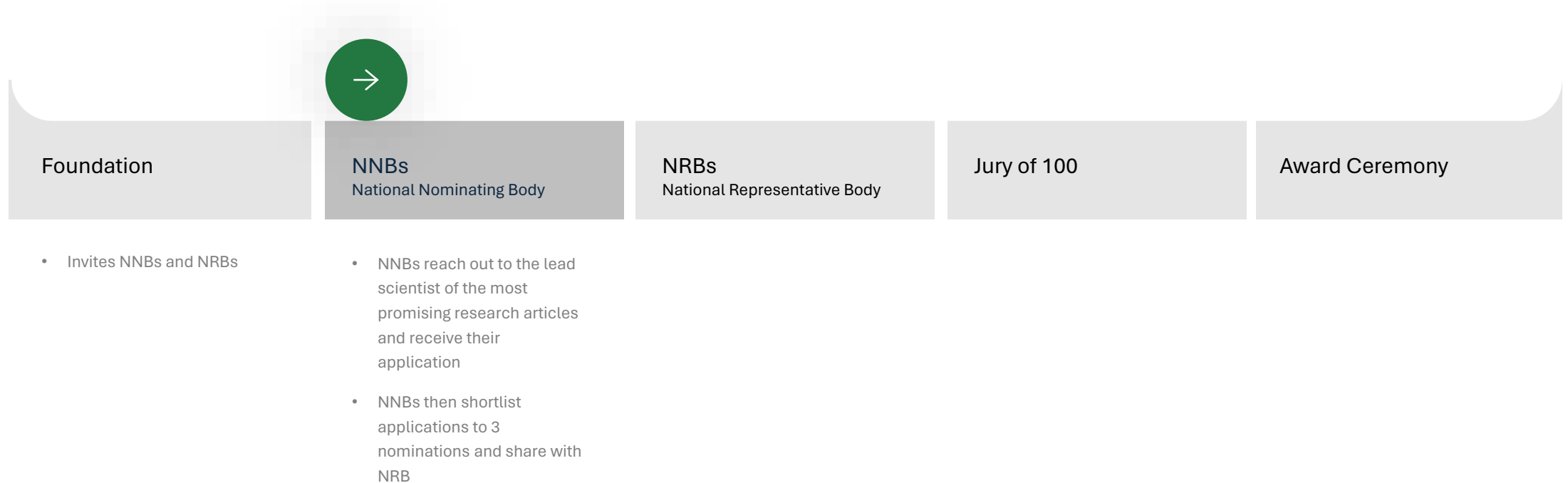
Jury of 100

Award Ceremony

- Invites NNBs and NRBs

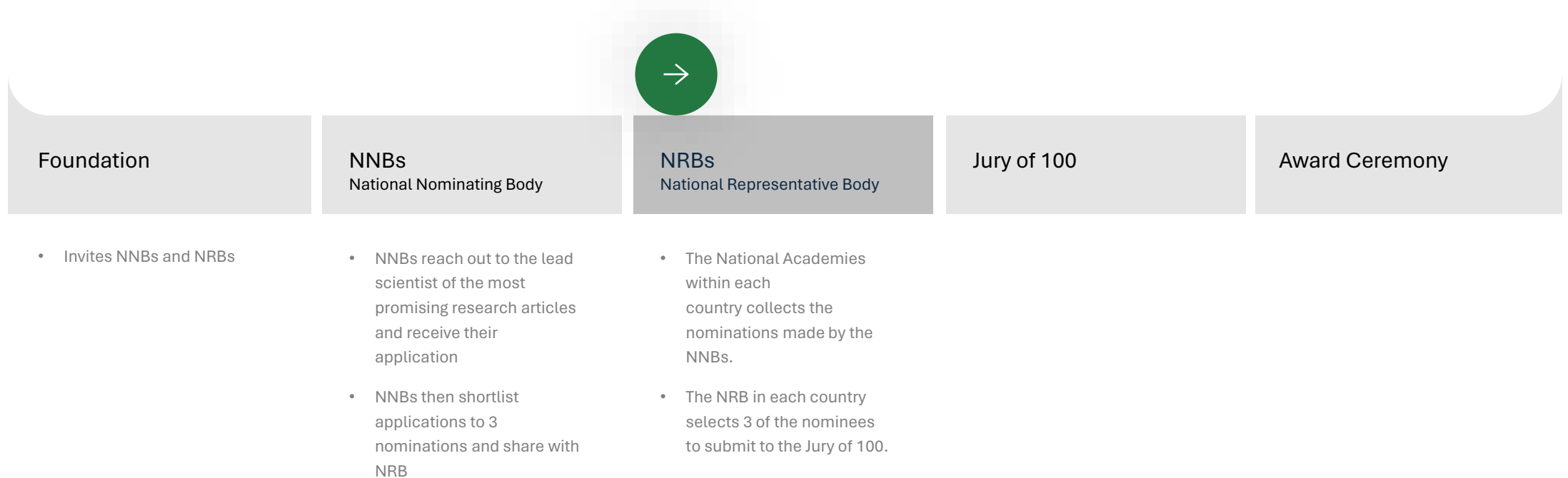
# Mechanics

## An “Olympic” race for solutions



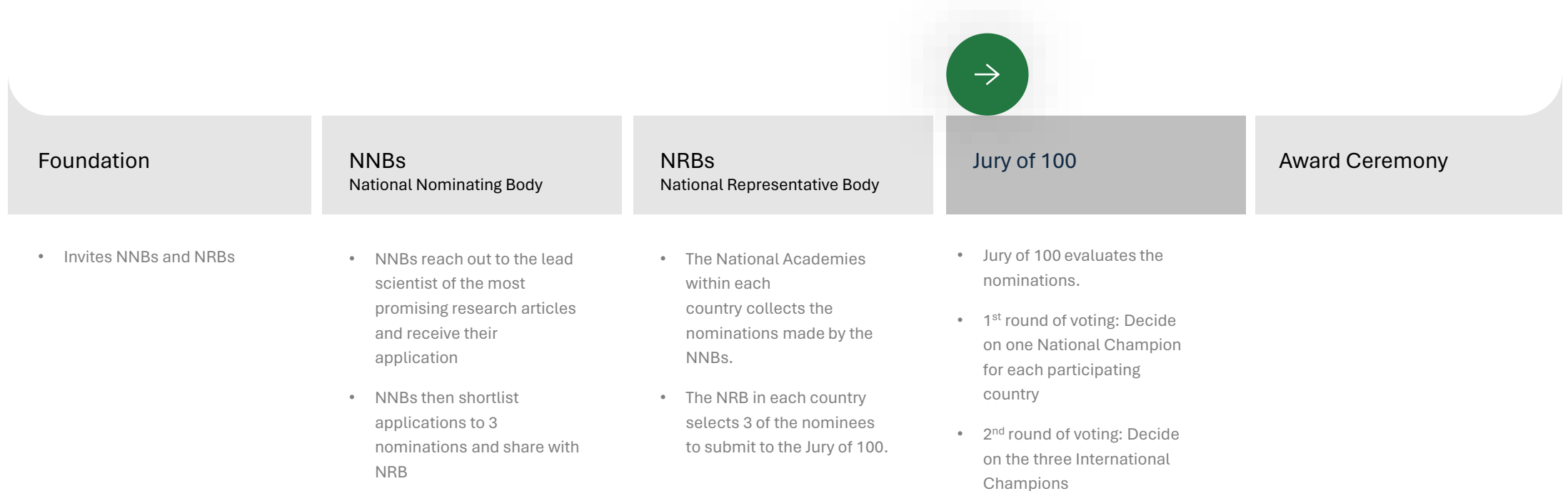
# Mechanics

## An “Olympic” race for solutions



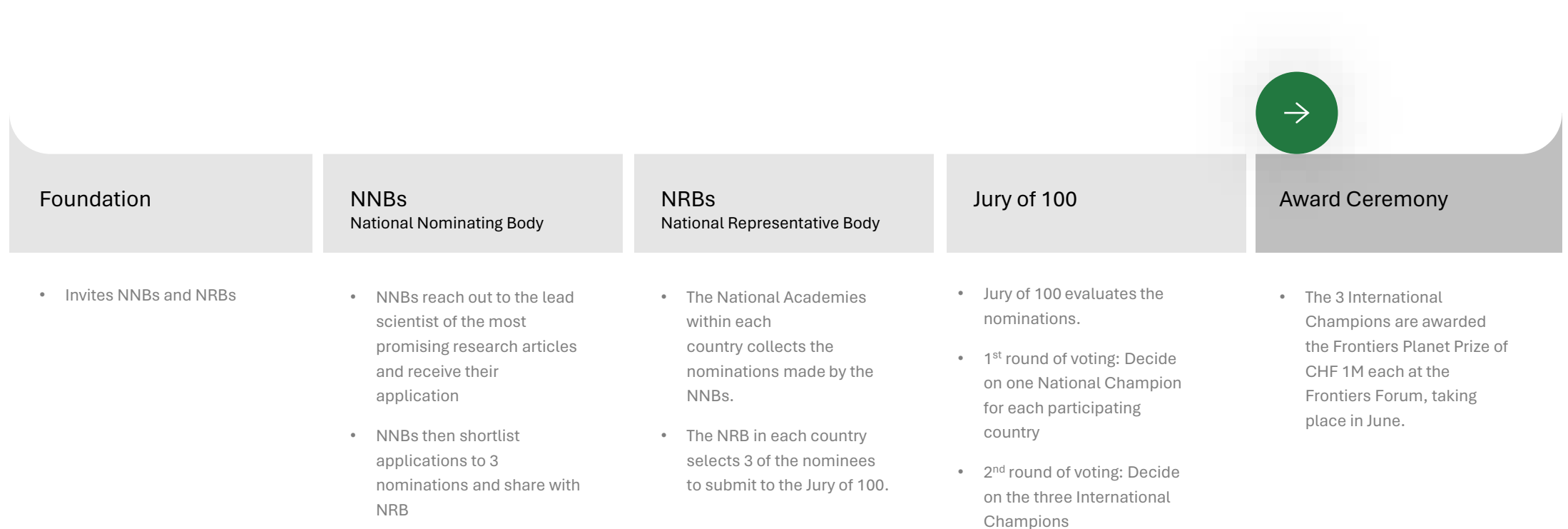
# Mechanics

## An “Olympic” race for solutions



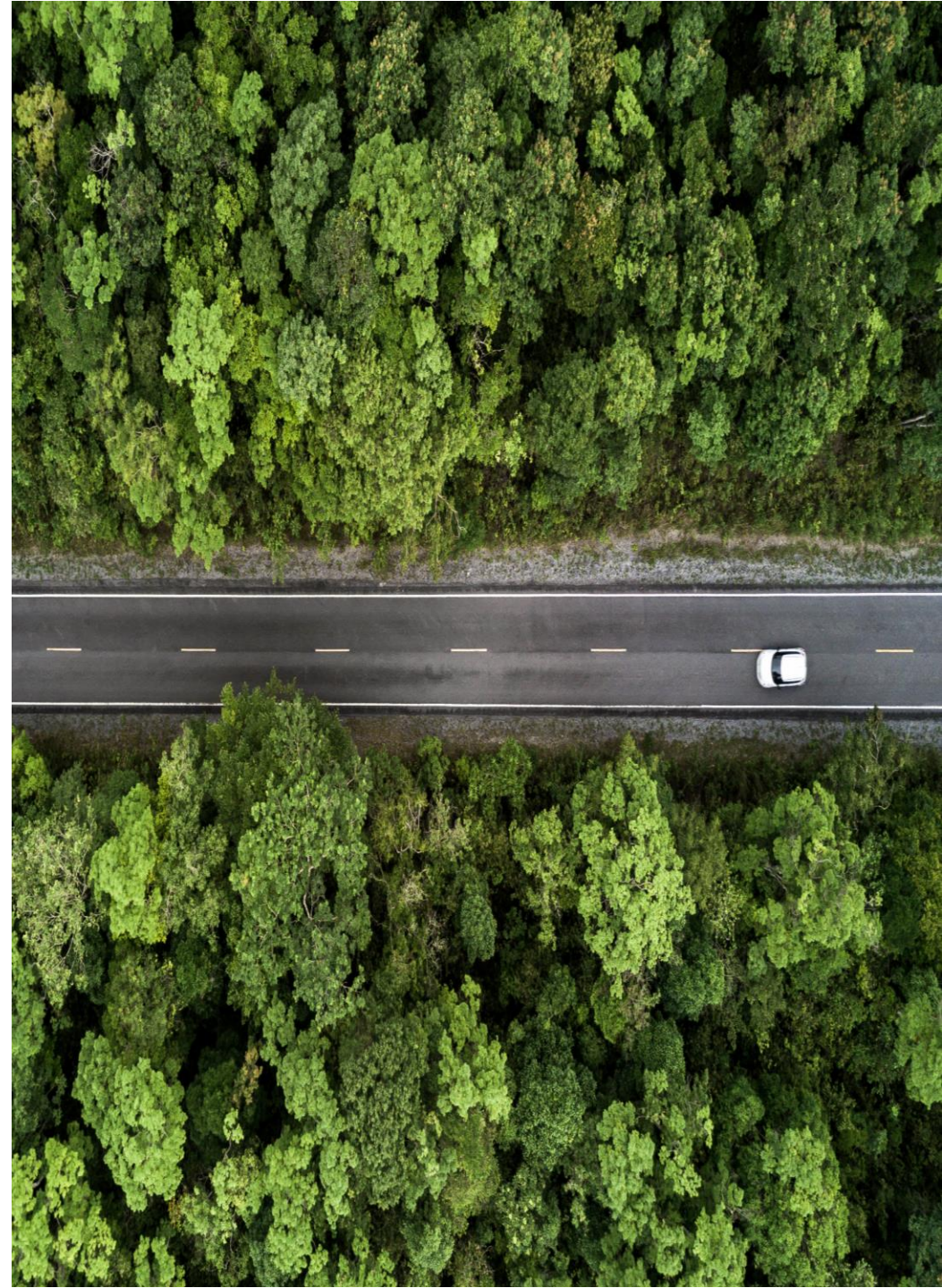
# Mechanics

## An “Olympic” race for solutions



# The criteria

- The Frontiers Planet Prize will be awarded to the best research published in established peer-reviewed scientific journals, with robust peer review and transparent publication procedures.
- Acceptance date of the article: 1<sup>st</sup> November 2022 to 31 October 2024  
scientific excellence is the default principle to participate in the Frontiers Planet Prize
- We welcome breakthrough science across all disciplines on condition it is focused on Planetary Boundaries and presents original research findings or insightful reviews and syntheses .



# The criteria

The Frontiers Planet Prize wants to honor:



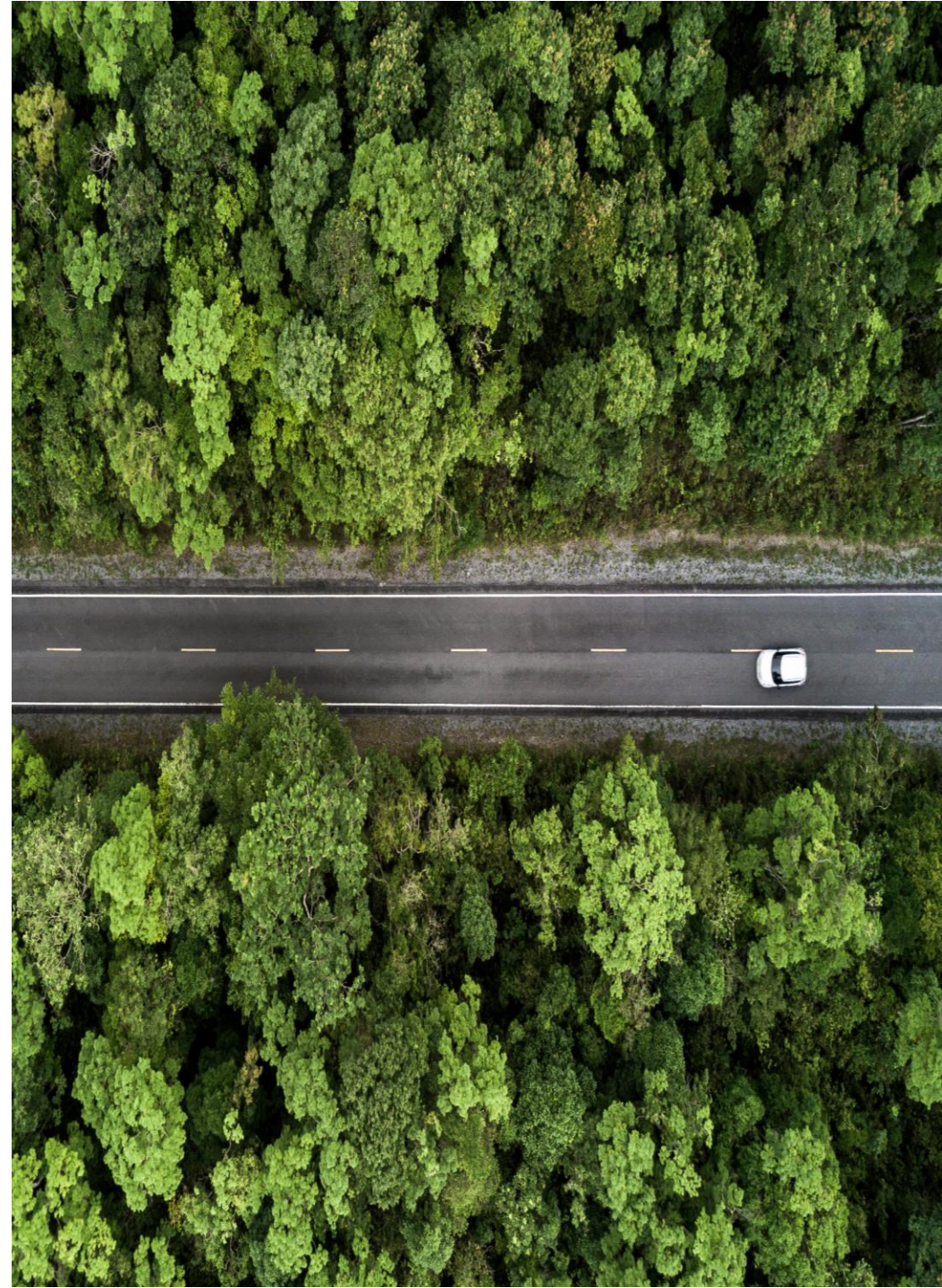
The research outlines systemic solutions or pathways that can be implemented in policies, adapted commercially, or otherwise contribute to keep global development within Planetary Boundaries.



The research advances the scientific understanding and quantification of Planetary Boundaries. It explores how Planetary Boundaries are affected or impact life support systems/the Earth system or investigates the implications of adopting Planetary Boundaries thinking across disciplines, sectors and activities/applications



The research must connect to several Planetary Boundaries at the Earth system scale. Research that explores interactions/relations between multiple Planetary Boundaries will be prioritized.



# Outputs of the First Edition

# A promising start for the 1<sup>st</sup> edition

- A total of 233 Institutions registered as National Nominating Bodies
- A total of 28 countries participated in the prize
- A total of 13 National Academies Registered as National Representative Bodies:



# 20 National Champions 2023



**Peter Macreadie**  
Deakin University



**Pierre Coheur**  
Université libre de Bruxelles



**Ricardo Rodrigues**  
University of Sao Paulo



**Marie-Josée Fortin**  
University of Toronto



**Baojing Gu**  
Zhejiang University



**Klement Tockner**  
Goethe University Frankfurt



**Gábor Szatmári**  
Institute for Soil Sciences, Centre for  
Agricultural Research



**Jonathan Belmaker**  
Tel Aviv University



**Andrea Castelletti**  
Politecnico di Milano



**Jian Feng Ma**  
Institute of Plant Science and  
Resources, Okayama University



**Paul Behrens**  
Leiden University, Faculty of  
Science: Institute of  
Environmental Sciences



**Bartosz Grzybowski**  
Polish Academy of Sciences,  
Korea's Institute for Basic Science,  
and Allchemy



**Mark New**  
University of Cape Town



**Lian Pin Koh**  
National University of Singapore



**Soon-Il An**  
Yonsei University



**Luis Guanter**  
Universitat Politècnica de València



**Maria Nilsson**  
Department of Epidemiology and  
Global Health, Umea University



**Bernhard Schmid**  
Department of Geography,  
University of Zurich



**Carlos Peres**  
University of East Anglia



**Edward Kolodziej**  
University of Washington

# Frontiers Planet Prize

4 International Champions receiving CHF 3 million to support their transformational science for planetary health



Carlos Peres

University of East  
Anglia, UK



Mark New

University of Cape Town,  
South Africa



Paul Behrens

Leiden University,  
Netherlands



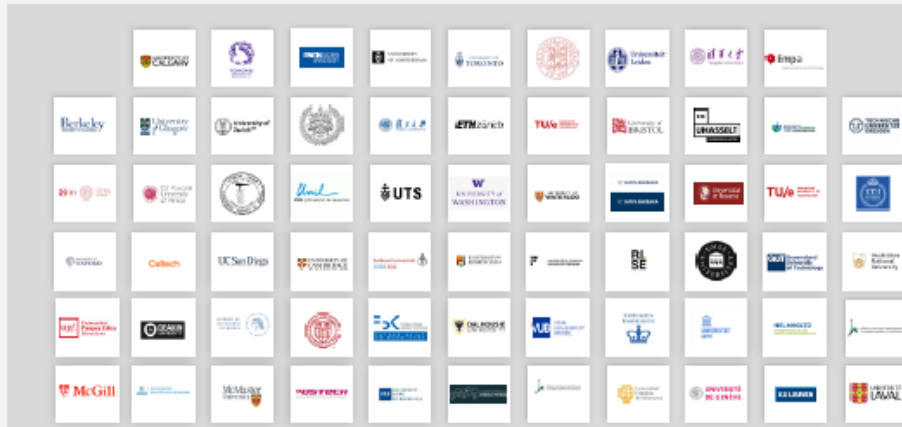
Baojing Gu

Zhejiang University,  
China

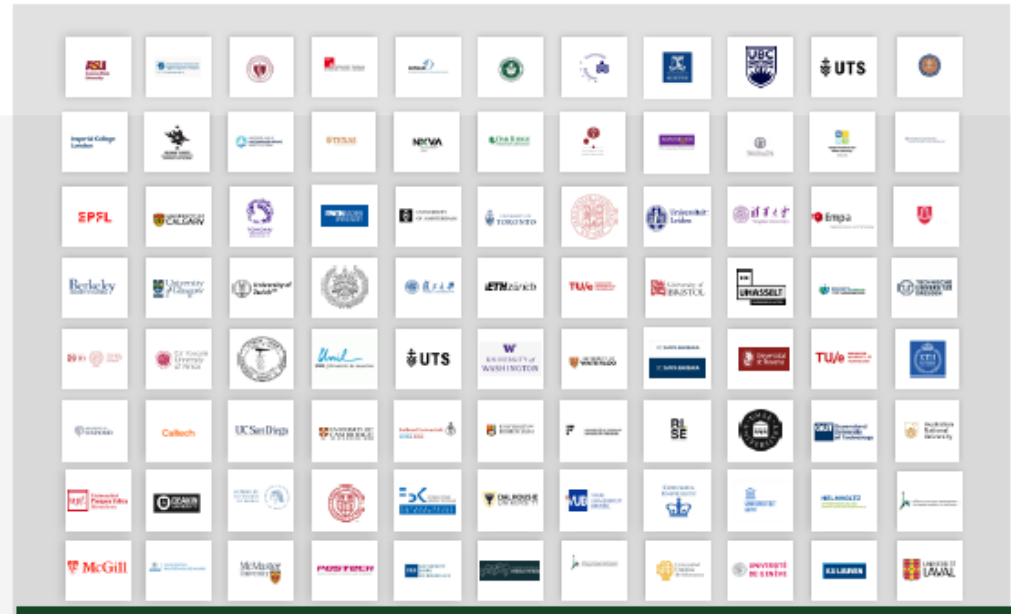
# Outputs of the Second Edition

# The 2nd edition of the Frontiers Planet Prize

## National Nominating Bodies



1<sup>st</sup> EDITION  
233 institutions



2<sup>nd</sup> EDITION  
475 institutions

# The 2nd edition of the Frontiers Planet Prize



**International  
Science Council**  
The global voice for science





Dr Pedro Jaureguiberry  
Instituto Multidisciplinario  
de Biología Vegetal  
CONICET-UNC



Dr Federico Maggi  
The University of Sydney



Dr Marta Kozicka  
International Institute for  
Applied System Analysis



Prof Alexander Turra  
University of São Paulo



Dr Umberto Berardi  
Toronto Metropolitan  
University



Dr Yang Ou  
Peking University



Prof Minik Rosing  
University of Copenhagen



Dr Olga Tammeorg  
University of Helsinki



Prof Dr Peter Haase  
Senckenberg Society  
for Nature Research



Dr Daniel Muth  
HUN-REN Centre for  
Economic and Regional Studies



Dr Francesco Maria  
Sabatini  
University of Bologna



Prof Evan Economu  
Okinawa Institute for  
Science and Technology



Dr Rebecca  
Gladstone-Gallagher  
The University of Auckland



Dr Michał Bogdziewicz  
Adam Mickiewicz  
University Poznań



Prof Raquel Peixoto  
King Abdullah University of  
Science and Technology



Dr Mia Strand  
Nelson Mandela  
University



Prof Seung-Ki Min  
Pohang University of  
Science and Technology



Dr Alexandra Veltý  
The Technical University  
of Valencia



Dr Gerard Rocher-Ros  
Umeå University



Prof Dr Gabriela  
Schaepman-Strub  
University of Zurich



Prof Dr Mustafa Sahmaran  
Hacettepe University



Prof Stephen Widdicombe  
Plymouth Marine  
Laboratory



Prof Jason Rohr  
University of Notre Dame

# Timeline and Next Steps

# Timeline



# What are the **next steps**?

1

Register on our platform to formalize your participation as a National Nominating Body.

2

Nominate the **lead scientists** of the most promising research articles of your institution that have been accepted for publication between 1<sup>st</sup> November 2022 and 31<sup>st</sup> October 2024

## Who is the **lead scientist**?

The lead scientist best represents the research of the published article

In the event that the individual is awarded the International Champion, they will manage the prize money to drive the project forward.

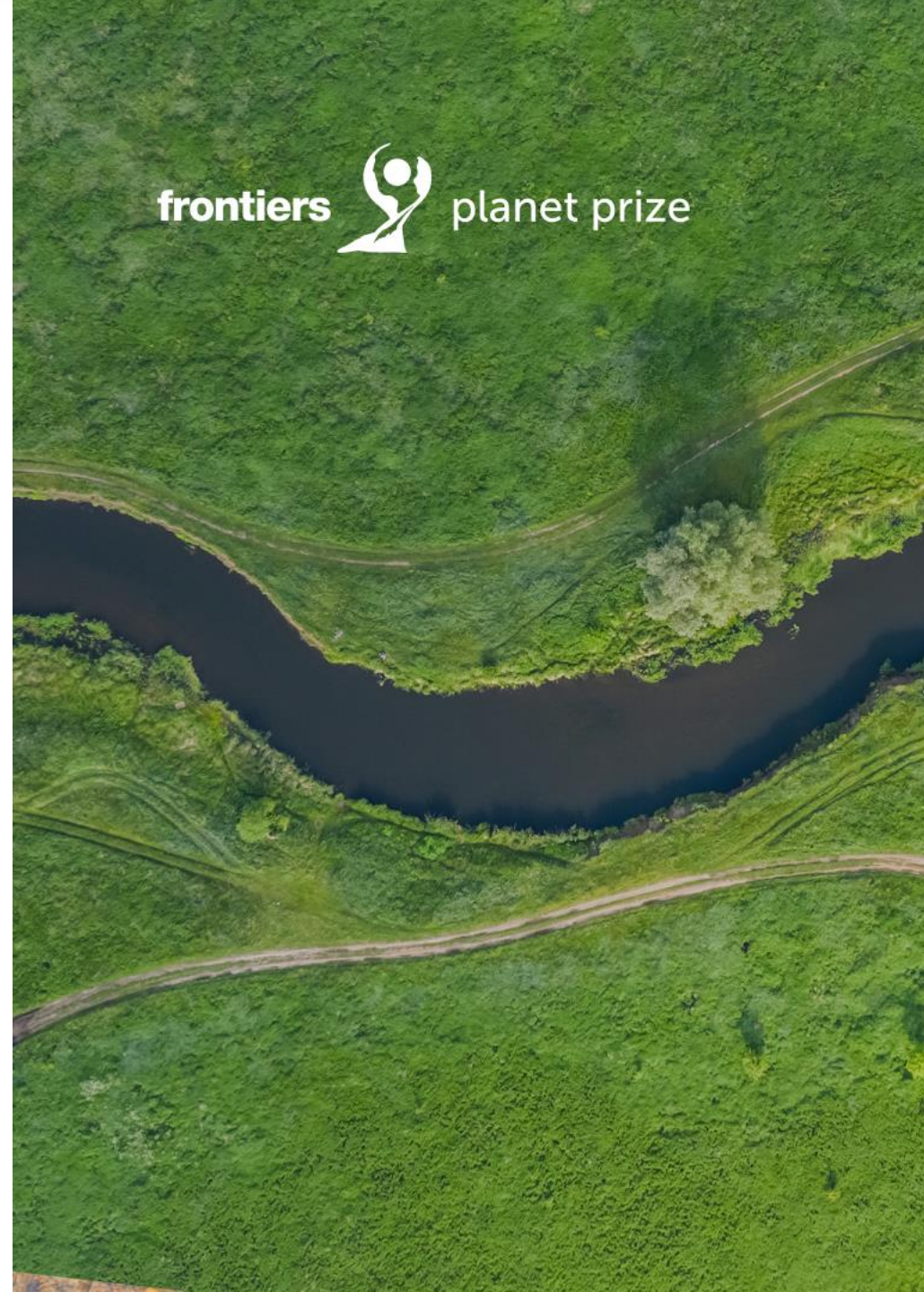
The lead scientist is selected directly by the NNB. Being a lead scientist is not based on the hierarchical position of the author

3

Invite them to apply by filling out the application form attached in the resource hub, also attaching a PDF of the published article by a deadline set by you.

4

Review the applications, select the top three and share with your NRB.



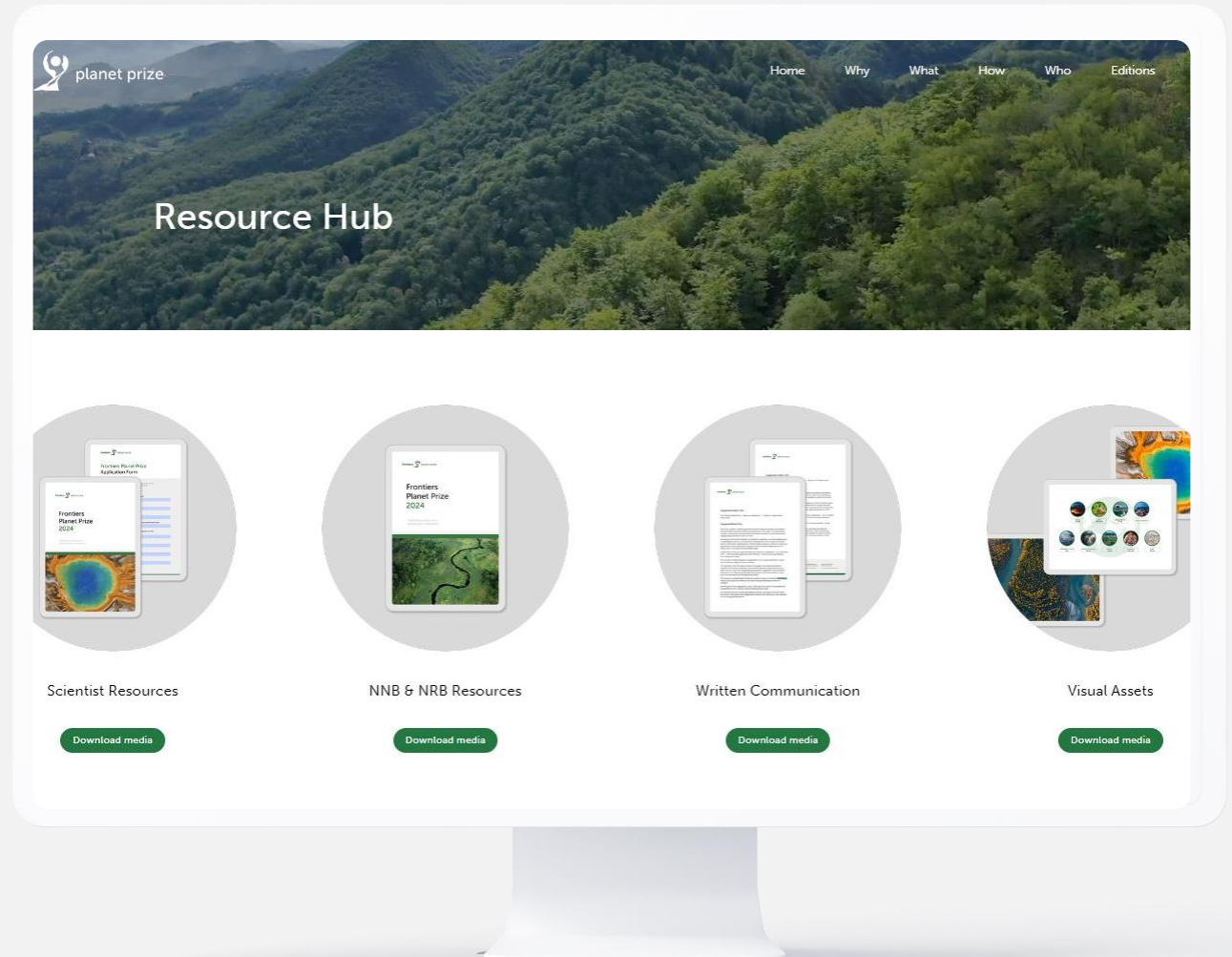
# The Resource Hub

Scientist Resources →

NNB & NRB Resources →

Written Communication →

Visual Assets →



# Your support as a National Nominating Body is **essential**

- This is the only scientific competition in planetary boundary science that recognizes the science of countries and institutions.
- You are best placed to select the competitors for the prize.
- In return, your scientists and your institutions will benefit from international recognition.

The Green Renaissance will not happen  
without your participation.



The foundation  
facilitates the prize,  
the world of science  
owns it



[linkedin.com/company/frontiers-planet-prize](https://www.linkedin.com/company/frontiers-planet-prize)



[Frontiersplanetprize.org](https://Frontiersplanetprize.org)



Prof Dr Jean-Claude Burgelman  
Director

[jean-claude.burgelman@frontiersplanetprize.org](mailto:jean-claude.burgelman@frontiersplanetprize.org)



Dr Gilbert De Gregorio  
Associate Director

[gilbert.degregorio@frontiersplanetprize.org](mailto:gilbert.degregorio@frontiersplanetprize.org)