



CONFERÊNCIA **VALUATION** 20 BRASIL 2024

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Avaliações de interesse social

Social interest valuations



Áreas de desmatamento ilegal

Areas of illegal deforestation



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ILLEGAL DEFORESTATION

The felling of forests without legal permits or in an unregulated manner.

DESMATAMENTO ILEGAL

A derrubada de florestas sem autorização legal ou de forma não regulamentada.



DEFORESTACIÓN ILEGAL

La tala de bosques sin permisos legales o de manera no regulada.

Causas e consequências

As causas, o ritmo e a magnitude do desmatamento e da degradação florestal mudam ao longo do tempo e variam por região. Embora existam iniciativas globais para conter esses problemas, a perda florestal e a degradação continuam em níveis alarmantes, ameaçando ecossistemas e biodiversidade.

Las causas, el ritmo y la magnitud de la deforestación y degradación forestal cambian con el tiempo y varían según la región. Aunque existen iniciativas globales para frenar estos problemas, la pérdida y degradación de los bosques continúan a niveles alarmantes, poniendo en riesgo ecosistemas y biodiversidad.

The causes, pace, and magnitude of deforestation and forest degradation change over time and vary by region. Although global initiatives exist to address these issues, forest loss and degradation continue at alarming levels, threatening ecosystems and biodiversity.

EFFECTS GENERATED BY DEFORESTATION

- Alteration of hydrological cycles
- Loss of biodiversity
- Impacts on local communities
- Disease risk

EFEITOS GERADOS PELO DESMATAMENTO

- Alteração dos ciclos hidrológicos
- Perda de biodiversidade
- Impactos nas comunidades locais
- Risco de doença

EFFECTOS GENERADOS POR LA DESFORESTACIÓN

- Alteración de los ciclos hidrológicos
- Pérdida de biodiversidad
- Impactos en las comunidades locales
- Riesgo de enfermedades

DRIVERS OF DEFORESTATION BY FRONT | Fatores de desmatamento

Causas de la deforestación



Cattle ranching | Criação de gado

Campos de ganado



Large-scale agriculture | Agricultura em larga escala

Agricultura a gran escala



Smallholder farming | Agricultura familiar

Agricultura de baja escala



Tree plantations | Plantações de árvores

Plantaciones forestales



Large-scale logging | Exploração madeireira em larga escala

Logística a gran escala



Small-scale timber | Madeira em pequena escala

Explotación maderera a baja escala



Fuelwood and charcoal | Lenha e carvão

Explotación de Leña y carbón



Mining | Mineração

Explotación minera



Transport infrastructure | Inf. de transporte

Infraestructura de transporte



Hydroelectric power | Energia hidrelétrica

Energía hidroeléctrica



Urban expansion | Expansão urbana

Expansión urbana

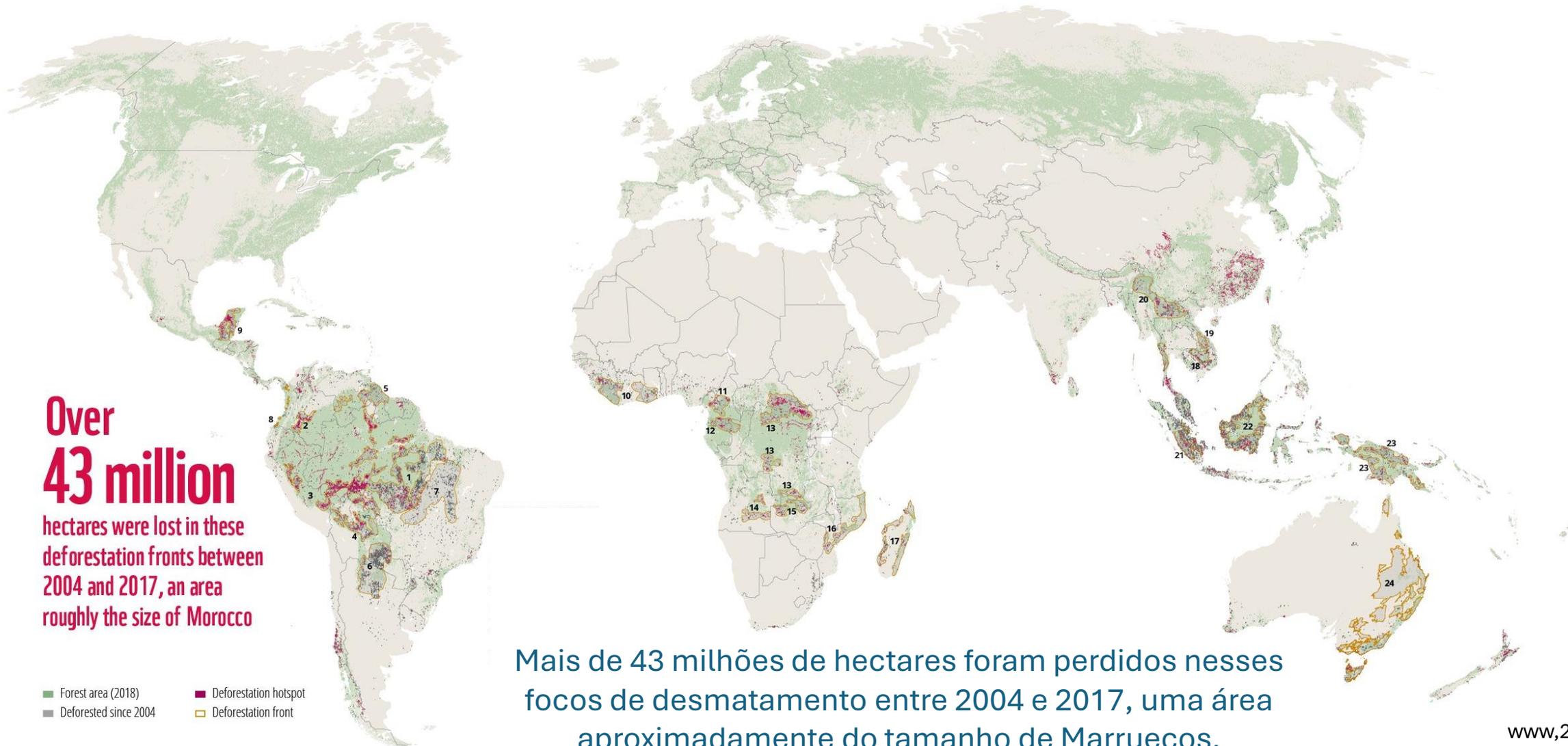


Fires | Incêndios

Incendios forestais

DEFORESTATION FRONTS

Zonas de mayor deforestación mundial



Over 43 million hectares were lost in these deforestation fronts between 2004 and 2017, an area roughly the size of Morocco

Mais de 43 milhões de hectares foram perdidos nesses focos de desmatamento entre 2004 e 2017, uma área aproximadamente do tamanho de Marruecos.

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DEFORESTATION FRONTS

Zonas de mayor deforestación mundial

**Over
43 million**
hectares were lost in these
deforestation fronts between
2004 and 2017, an area
roughly the size of Morocco

■ Forest area (2018)
■ Deforested since 2004

■ Deforestation hotspot
□ Deforestation front



LATIN AMERICA

- 1 Amazon – Brazil
- 2 Amazon – Colombia
- 3 Amazon – Peru
- 4 Amazon – Bolivia
- 5 Amazon – Venezuela/Guyana
- 6 Gran Chaco – Paraguay/Argentina
- 7 Cerrado – Brazil
- 8 Chocó-Darién – Colombia/Ecuador
- 9 Maya Forests – Mexico/Guatemala

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Forest area (2018)

Deforested since 2004

Deforestation hotspot

Deforestation front



SUB-SAHARAN AFRICA

- 10** West Africa – Liberia/Ivory Coast/Ghana
- 11** Central Africa – Cameroon
- 12** Central Africa – Gabon/Cameroon/ Republic of Congo
- 13** Central Africa – DRC/CAR
- 14** Central Africa – Angola
- 15** East Africa – Zambia
- 16** East Africa – Mozambique
- 17** East Africa – Madagascar

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DEFORESTATION FRONTS

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 Forest area (2018)

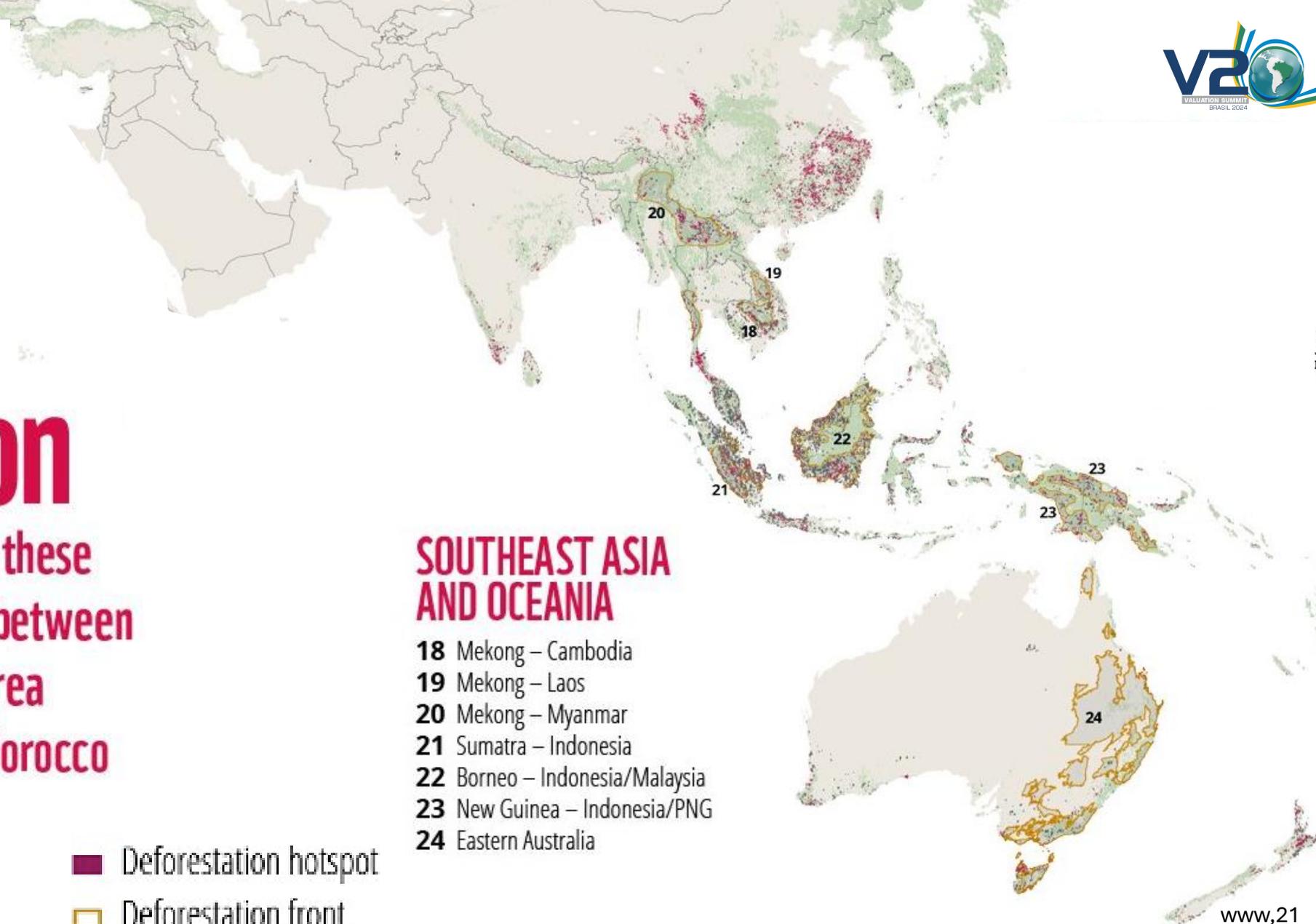
 Deforested since 2004

 Deforestation hotspot

 Deforestation front

SOUTHEAST ASIA AND OCEANIA

- 18 Mekong – Cambodia
- 19 Mekong – Laos
- 20 Mekong – Myanmar
- 21 Sumatra – Indonesia
- 22 Borneo – Indonesia/Malaysia
- 23 New Guinea – Indonesia/PNG
- 24 Eastern Australia



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FOREST COVER LOSS AND FOREST DEGRADATION BY BIOME IN THE PERIOD 2000-2018

Perda de cobertura florestal e degradação florestal por bioma no período 2000-2018

While forests covered about **50%** of the earth's land area 8,000 years ago



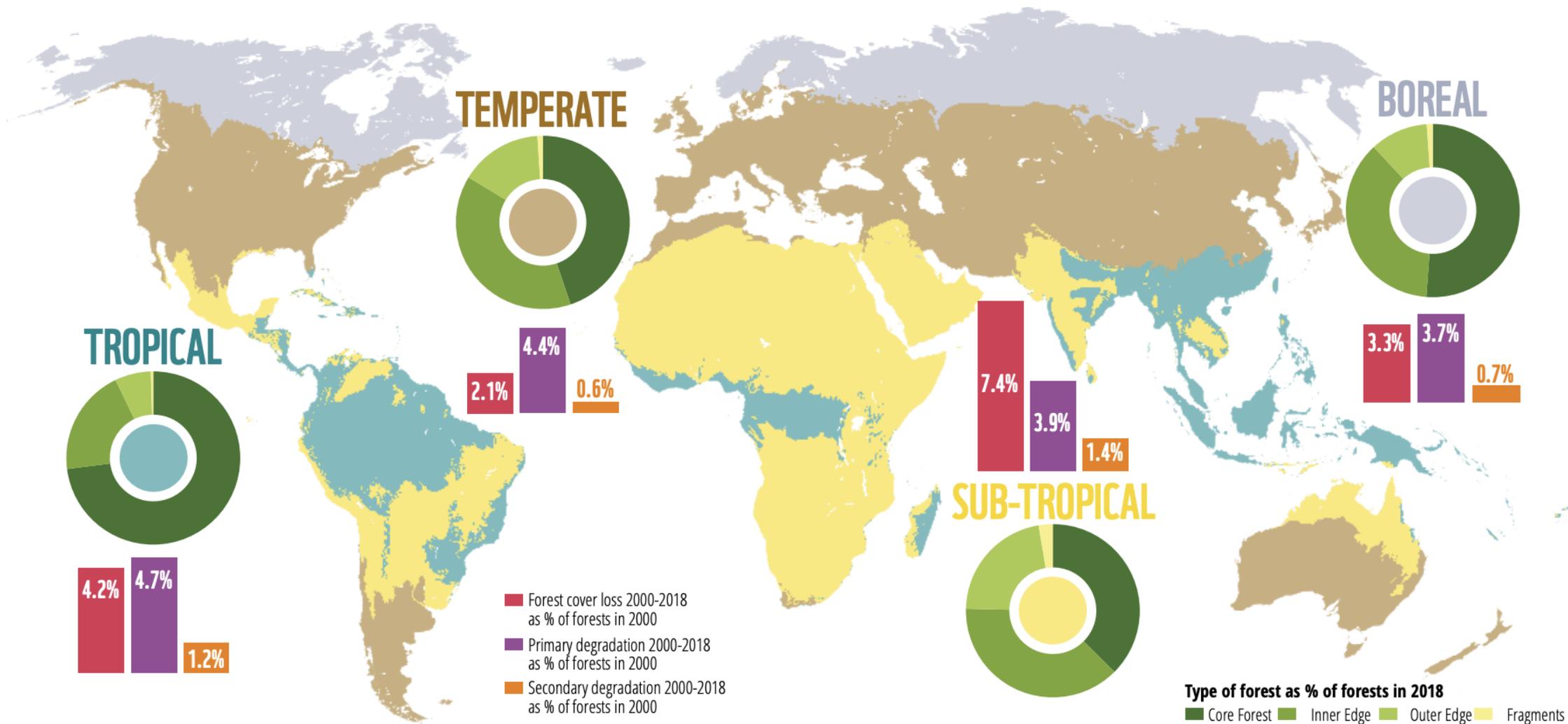
Today only **30%** of land is forested



Pérdida de cobertura forestal y degradación forestal por bioma en el periodo 2000-2018

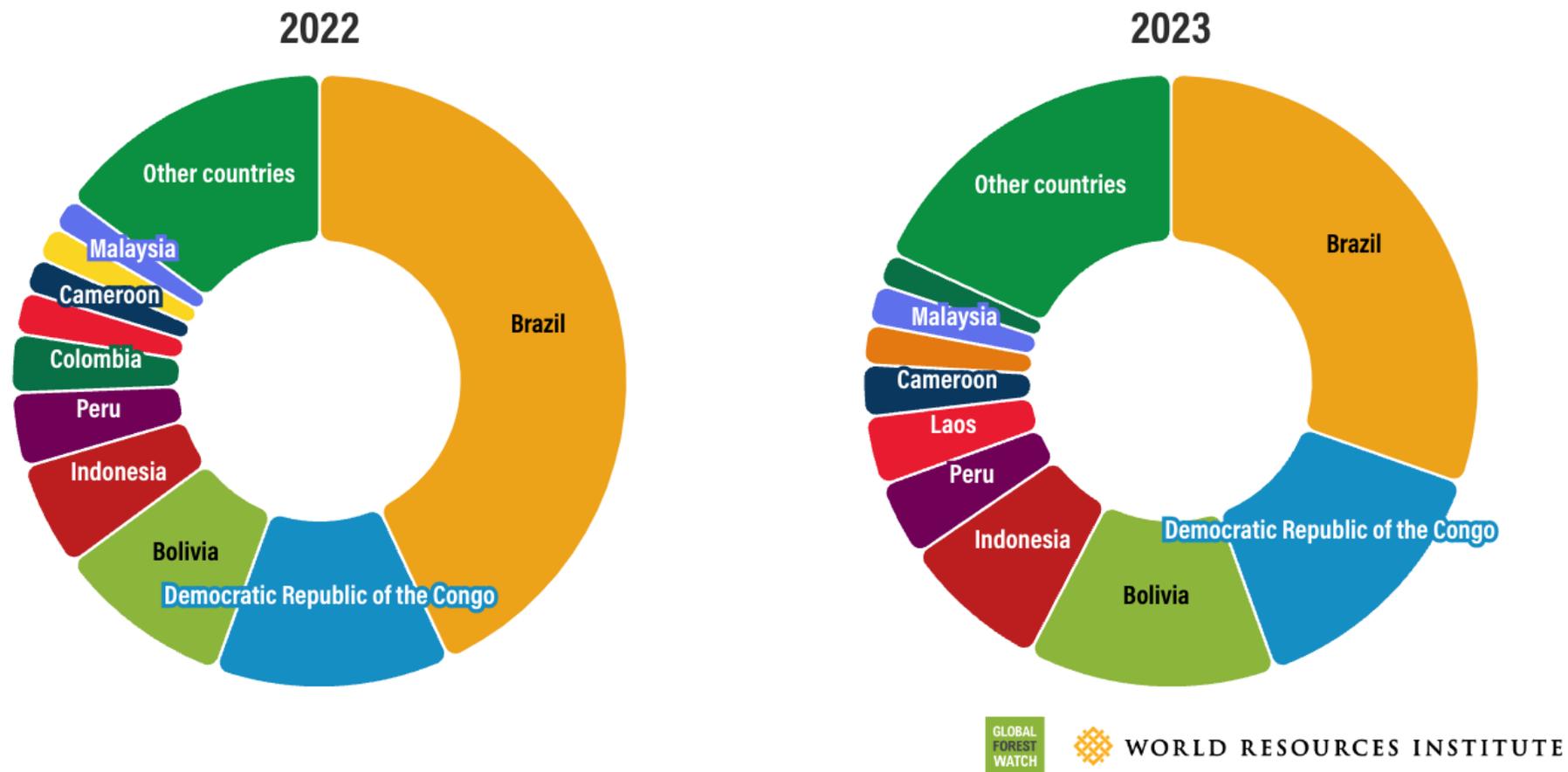
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FOREST COVER LOSS AND FOREST DEGRADATION BY BIOME IN THE PERIOD 2000-2018



Top 10 countries for primary forest loss in 2022 and 2023

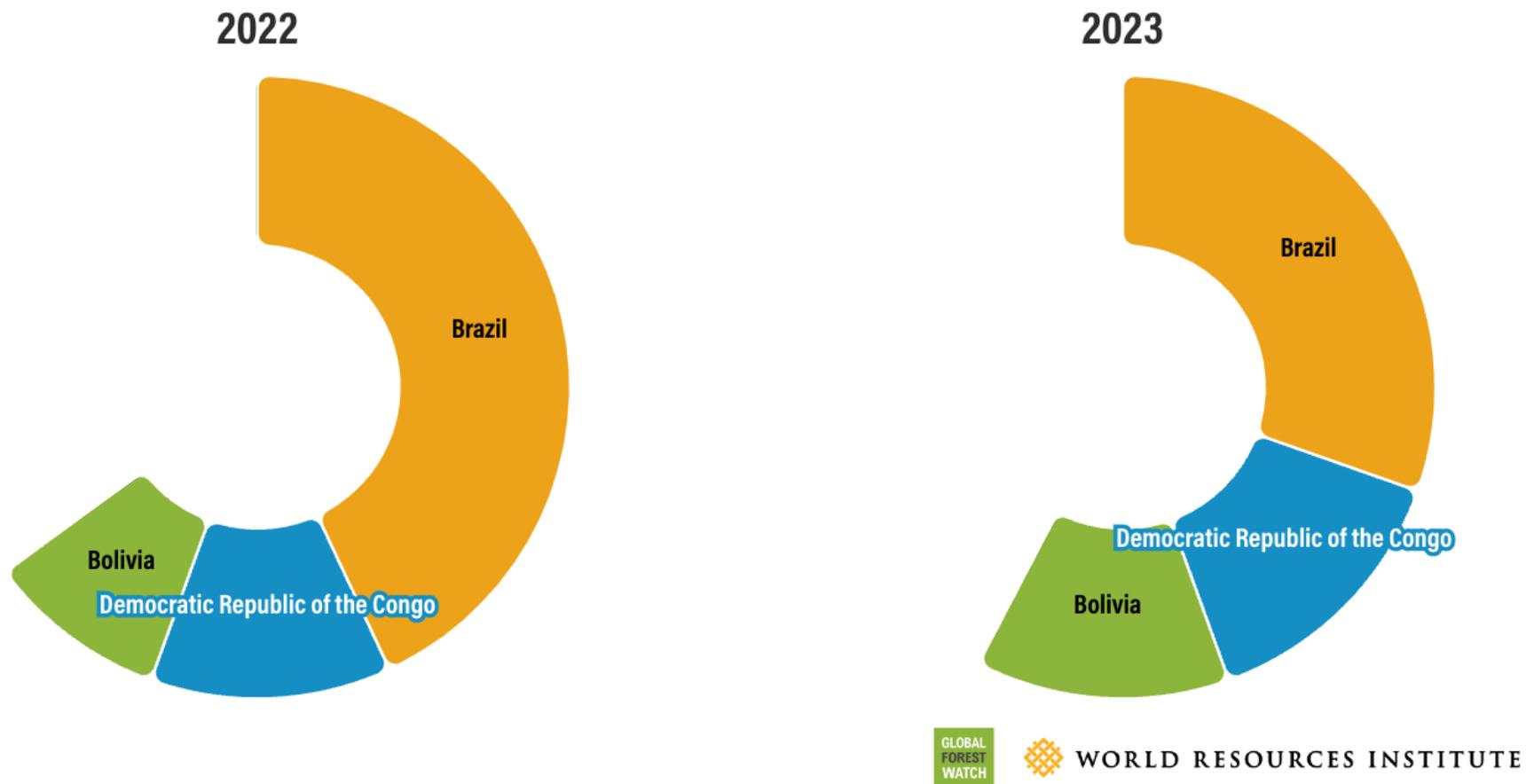
Os 10 principais países com perda de floresta primária em 2022 e 2023



Los 10 principales países con pérdida de bosques primarios en 2022 y 2023

Top 10 countries for primary forest loss in 2022 and 2023

Os 10 principais países com perda de floresta primária em 2022 e 2023



Los 10 principales países con pérdida de bosques primarios en 2022 y 2023

Deforestation of the Amazon

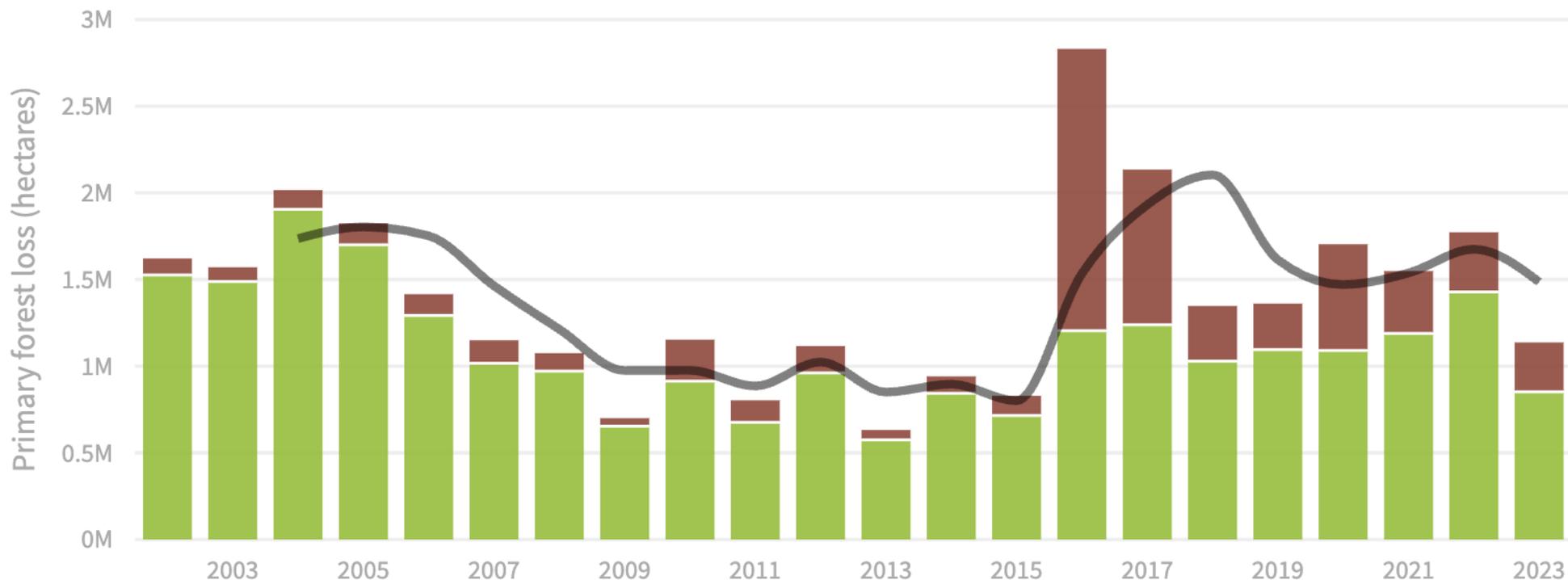
Desmatamento da Amazônia



<https://www.lavanguardia.com>

Brazil primary forest loss, 2002-2023

■ Non-fire related loss
 ■ Fire related loss
 ■ Moving average



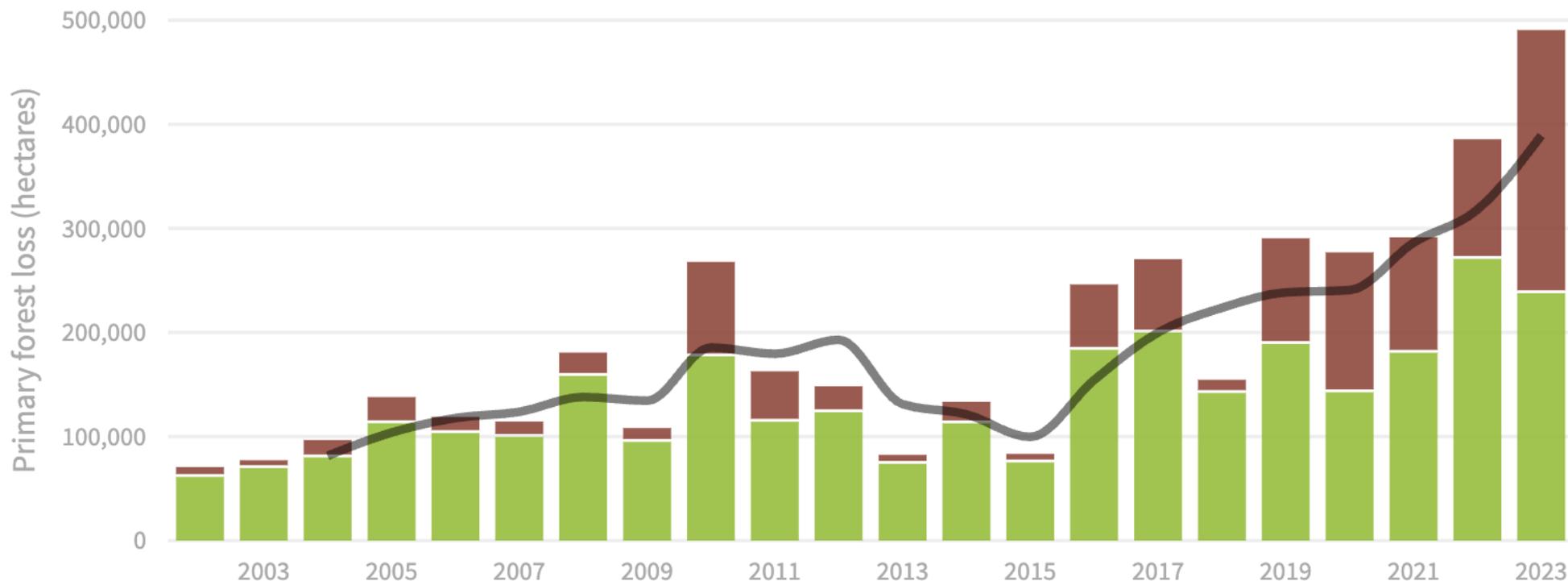
Non-fire related loss can occur from mechanical clearing for agriculture and logging, as well as natural causes such as wind damage and river meandering. The three-year moving average may represent a more accurate picture of the data trends due to uncertainty in year-to-year comparisons. All figures calculated with a 30 percent minimum tree cover canopy density.



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Bolivia primary forest loss, 2002-2023

■ Non-fire related loss
 ■ Fire related loss
 ■ Moving average



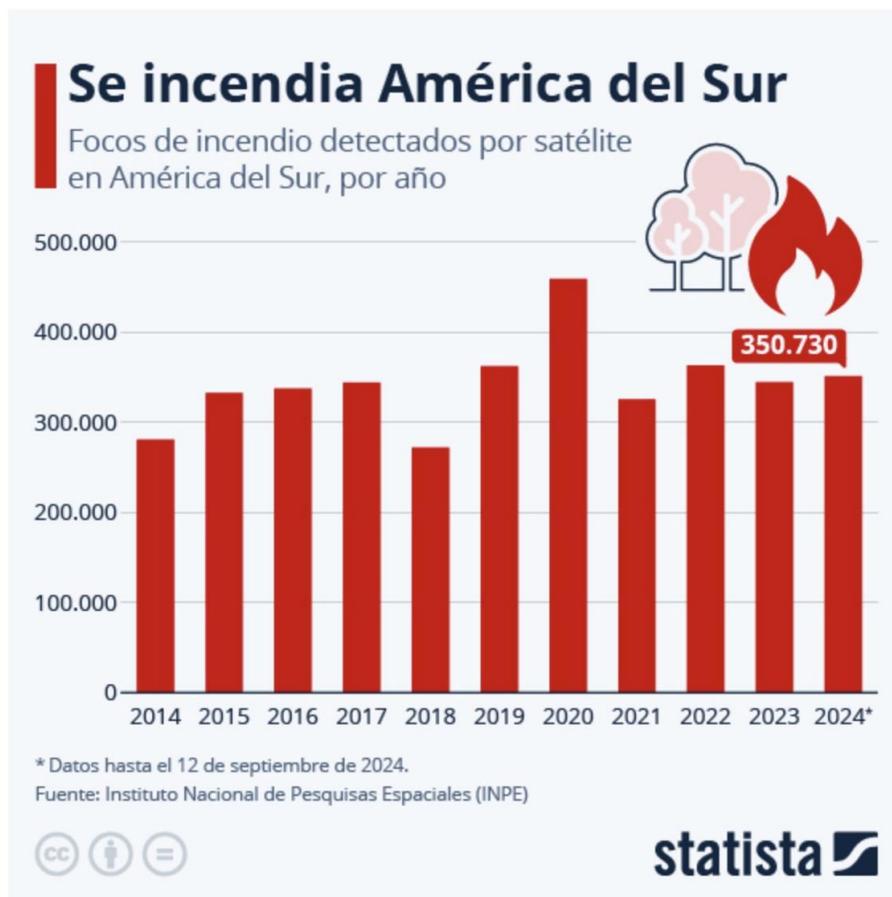
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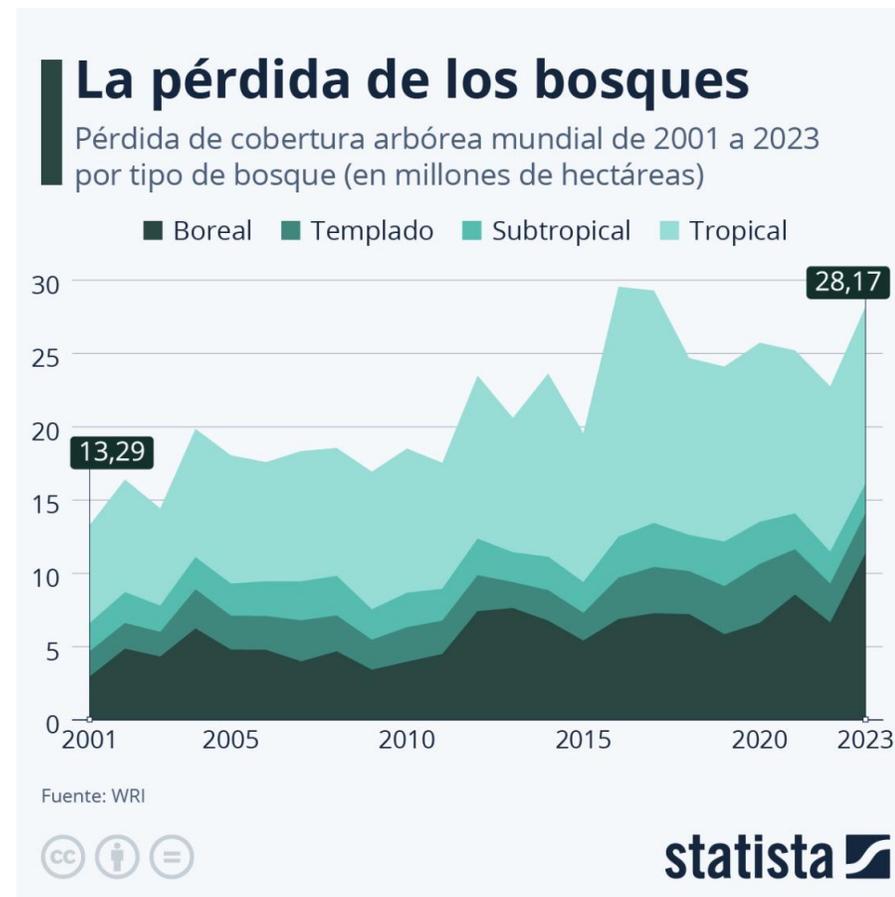
South America burns

América do Sul queima



The loss of the forests

A perda de florestas



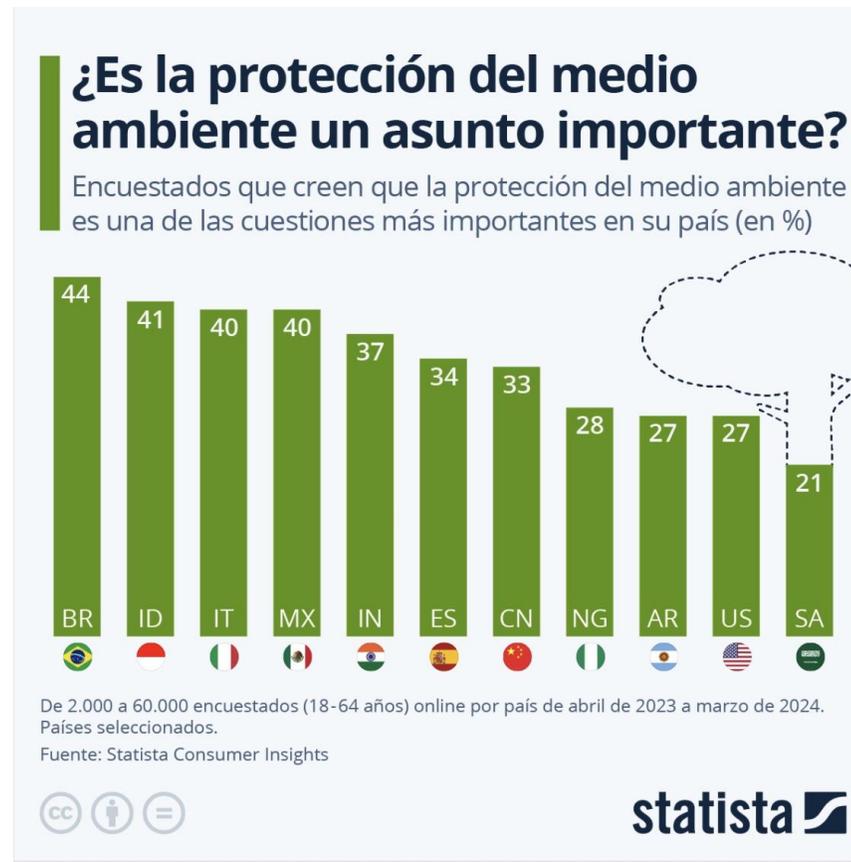
Environmental performance in Latin America

O desempenho ambiental da América Latina



Is environmental protection an important issue?

A proteção ambiental é uma questão importante?



International Organizations

Organizações Internacionais

- MAAP (Andean Amazon Monitoring)

Project, provides updated data and analysis on changes in land use and deforestation to assist conservation and sustainable management policies.

Proyecto Monitoreo de la Amazonía Andina, proporciona datos actualizados y análisis sobre los cambios en el uso del suelo y la deforestación para ayudar a las políticas de conservación y gestión sostenible.

Projeto de Monitoramento da Amazônia Andina, fornece dados atualizados e análises sobre mudanças no uso da terra e no desmatamento para auxiliar políticas de conservação e gestão sustentável.



Monitoring of the **Andean Amazon** Project

International Organizations

Organizações Internacionais

- GFW (Global Forest Watch)

International platform providing real-time data on deforestation and changes in forests around the world

Plataforma internacional que fornece dados em tempo real sobre o desmatamento e as mudanças nas florestas em todo o mundo

Plataforma internacional que proporciona datos en tiempo real sobre la deforestación y los cambios en los bosques de todo el mundo



International Organizations

Organizações Internacionais

- World Wildlife Fund (WWF)

Its fundamental mission is to stop the degradation of the planet's natural environment and promote a future in which humans live in harmony with nature.

Su misión fundamental es detener la degradación del entorno natural del planeta y promover un futuro en el que los seres humanos vivan en armonía con la naturaleza.

A sua missão fundamental é travar a degradação do ambiente natural do planeta e promover um futuro em que os humanos vivam em harmonia com a natureza.



International Organizations

Organizações Internacionais

- MapBiomass

Its focus is the production and analysis of data on land use and land cover in Brazil and Latin American countries.

Su enfoque es la producción y análisis de datos sobre el uso del suelo y la cobertura terrestre en Brasil y países de latinoamerica.

Seu foco é a produção e análise de dados sobre uso e cobertura da terra no Brasil e em países da América Latina.



International Organizations

Organizações Internacionais

- World Resources Institute (WRI)

Conducts research on environmental issues, such as climate change, deforestation, water quality, and land use.

Realiza pesquisas sobre questões ambientais, como mudanças climáticas, desmatamento, qualidade da água e uso do solo.

Realiza investigaciones sobre temas ambientales, como el cambio climático, la deforestación, la calidad del agua y el uso del suelo.



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International Organizations

Organizações Internacionais

- The Nature Conservancy (TNC)

It is dedicated to the conservation of biodiversity, with a particular focus on the protection of terrestrial and aquatic ecosystems.

Se dedica a la conservación de la biodiversidad, con un enfoque particular en la protección de ecosistemas terrestres y acuáticos.

Dedicase à conservação da biodiversidade, com particular enfoque na proteção dos ecossistemas terrestres e aquáticos.



Valuation methods

Métodos de avaliação

- Avoided Cost Method (ACM)
- Travel Cost Method (TCM)
- Hedonic Pricing Method (HPM)
- Contingent Valuation Method (CVM)
- Analytic Multicriteria Valuation Method (AMUVAM)

Métodos

- Custos Evitados (MCE)
- Custo de Viagem (MCV)
- Preços Hedônicos (MPH)
- Valoração Contingente (MVC)
- AMUVAM (Analytic Multicriteria Valuation Method)

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DAÑO ECONÓMICO TOTAL (DET)

Environmental damage assessment

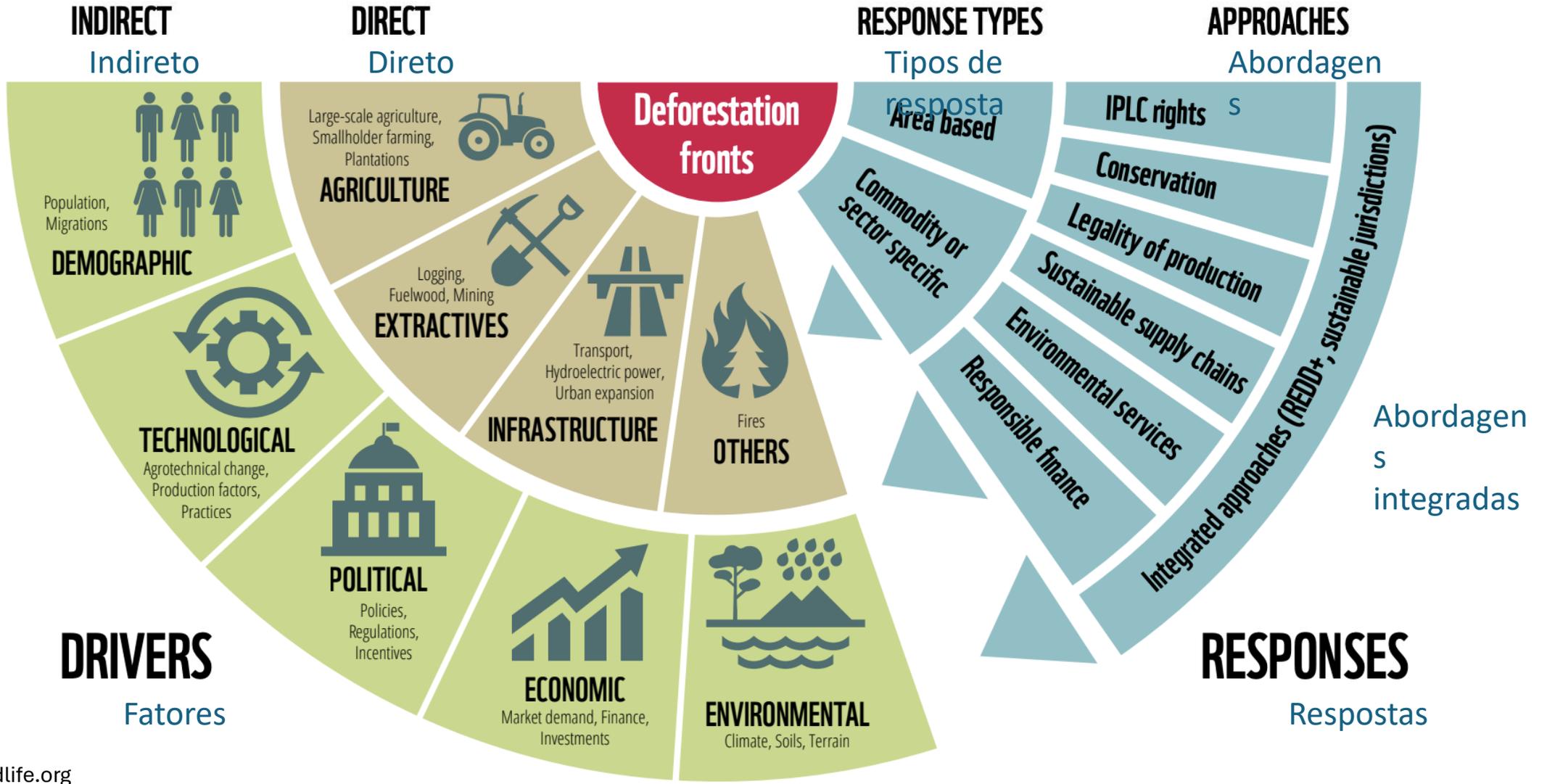
$$f(DET) = DUD + DUI + DDO + DDE + DDL$$

DUD : Daño de uso directo
DUI : Daño de uso indirecto
DDO : Daño de opción
DDE : Daño de existencia
DDL : Daño de legado

Dano de uso direto
Dano de uso indireto
Dano de opção
Dano de existencia
Dano de legado

Direct Use Damage
Indirect Use Damage
Option Damage
Existence Damage
Legacy Damage

DEFORESTATION FRONTS



<https://files.worldwildlife.org>

PROBLEM

Excessive economic interests, political disinterest and contempt for the future

PROBLEMA

Interesses económicos excessivos, desinteresse político e desprezo pelo futuro



PROBLEMA

Intereses económicos desmedidos, desinterés político y desprecio por el futuro

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Regulation
Reglamento
Regulación



Responsibility
Responsabilidade
Responsabilidad



Education
Educação
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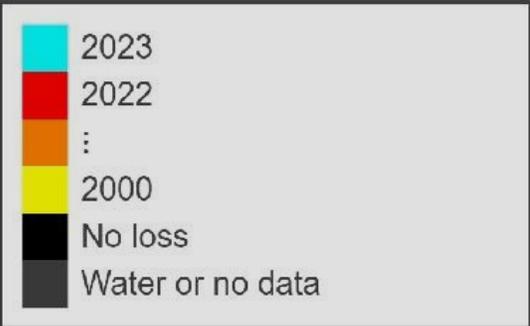


Responsibility
Responsabilidade
Responsabilidad



Education
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Global problems that require priority attention

Problemas globais que requerem atenção prioritária

Problemas mundial que requiere de una atención prioritaria



OBRIGADO(A)!

Thank you so much

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