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METEOROLOGICAL
ORGANIZATION

**2050
today**
United for zero emissions

With the support of



UNITED FOR ZERO EMISSIONS

THE 2050TODAY CHARTER EXPLAINED

27 FEBRUARY 2024 | 10:00 CET | ROOM OBASI, WMO

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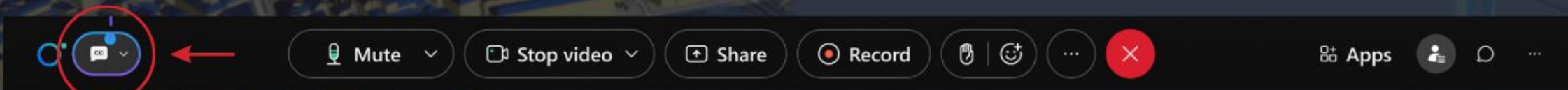
TECHNICAL INFORMATION

- Throughout the event, you may raise your questions in the Q&A box
- Automatically translated subtitles in many languages are available through the captions button on the bottom left of your screen
- The recording, summary and documents will be made available on the event's website

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**ENGLISH CAPTIONS CAN BE
ACTIVATED BY CLICKING ON THE
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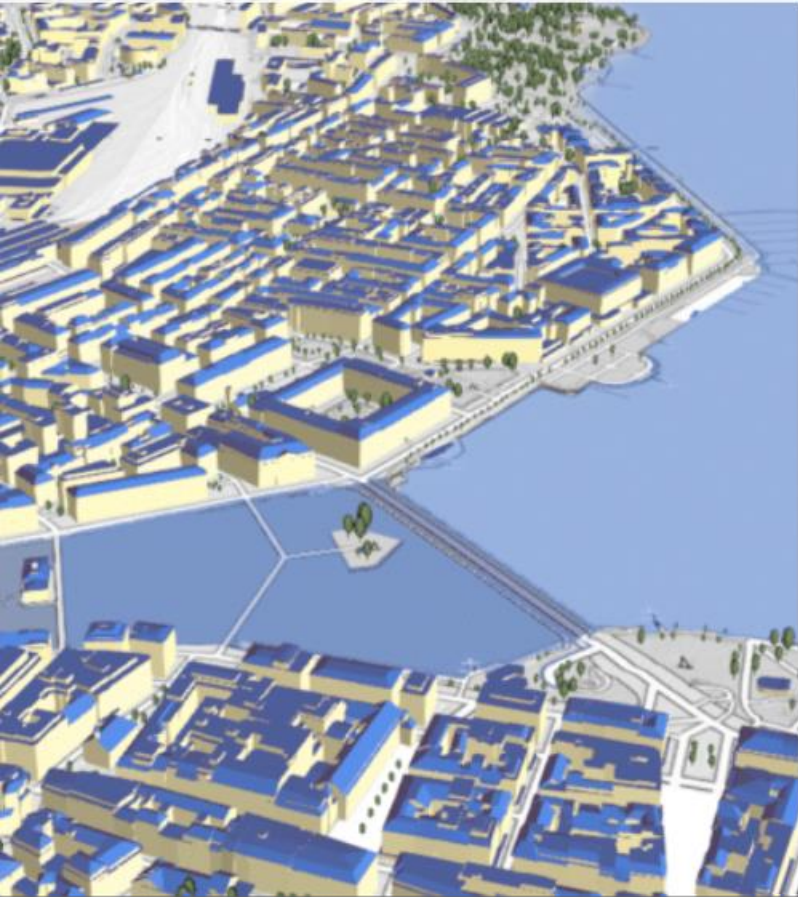
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SPEAKERS



**Prof.
Celeste SAULO**



Secretary-General, World Meteorological Organization



Jean-Pierre REYMOND 

Executive Director, 2050Today



**H.E. Amb. Francisca
E. MENDEZ ESCOBAR**



Permanent Representative of Mexico to the United Nations Office in Geneva



Diana RIZZOLIO



Coordinator, Geneva Environment Network



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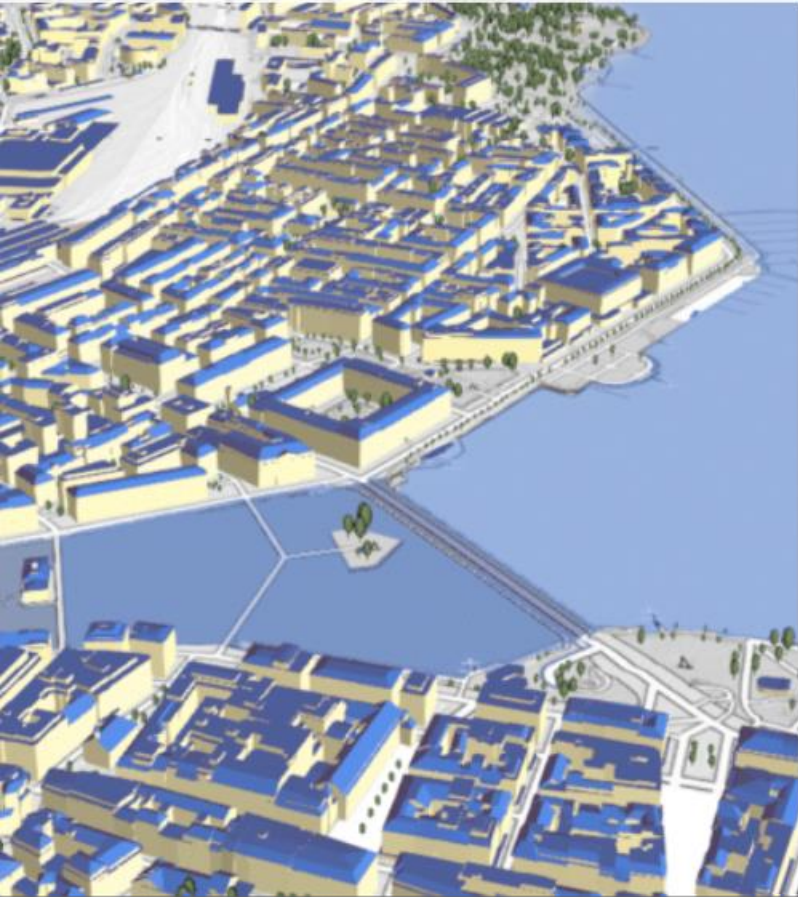
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- Jean-Pierre REYMOND | Executive Director, 2050Today

Welcome Remarks

- Prof. Celeste SAULO | Secretary-General, WMO

Why the Permanent Mission of Mexico Signed the Charter

- H.E. Amb. Francisca E. MÉNDEZ ESCOBAR | Permanent Representative of Mexico to the United Nations Office in Geneva

Strengthening the Joint Impact of International Geneva to Tackle the Triple Planetary Crisis

- Diana RIZZOLIO | Coordinator, Geneva Environment Network

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- Jean-Pierre REYMOND | Executive Director, 2050Today

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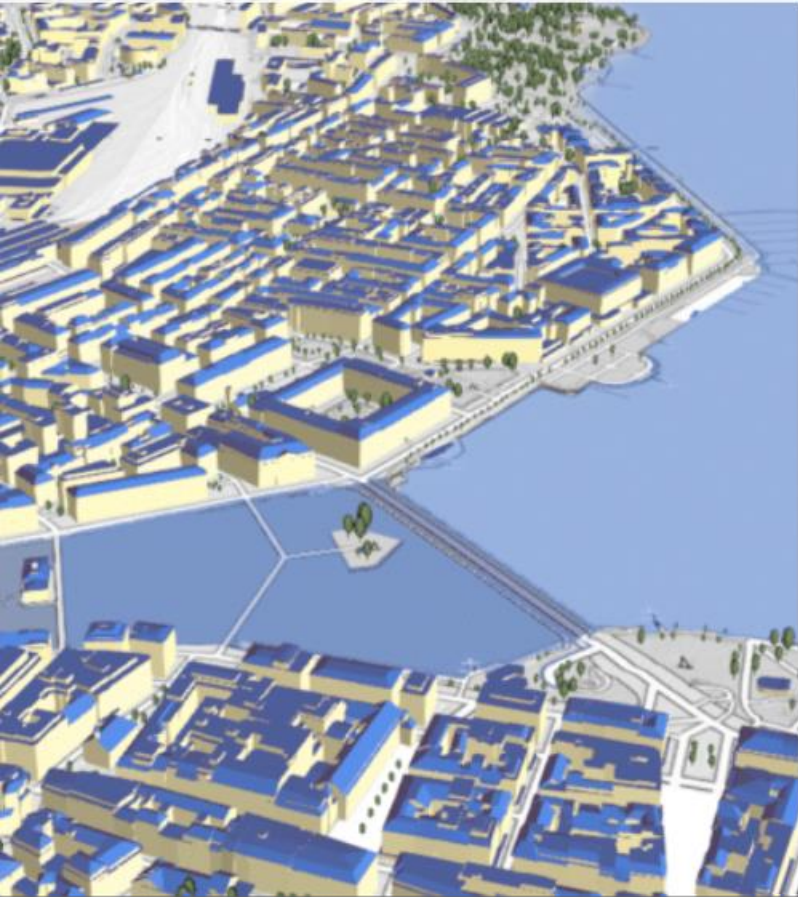
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Jean-Pierre Reymond

Executive Director of 2050Today

Introductory remarks



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THE 2050TODAY CHARTER EXPLAINED



Jean-Pierre REYMOND

Executive Director, 2050Today



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THE 2050TODAY CHARTER

The 2050Today Charter is a mile setting frame of reference designed to support participating institutions in their journey towards a carbon-neutral International Geneva.

»» 2050today.org/2050today-charter/



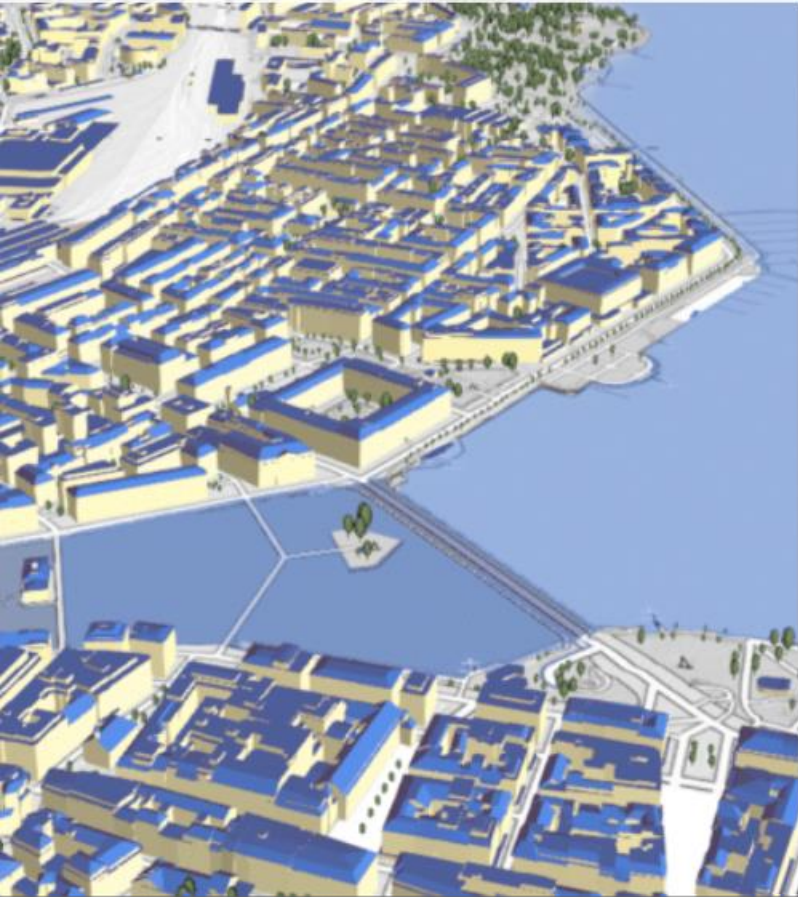
2050Today Charter

Decarbonising International Geneva Together

The 2050Today Charter is also available in French. The reference version is in English.

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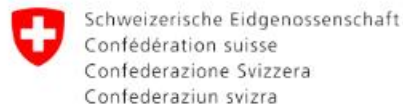
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Prof. Celeste Saulo

Secretary-General of the World Meteorological Organization

Welcoming remarks

UNITED FOR ZERO EMISSIONS

THE 2050TODAY CHARTER EXPLAINED



Prof. Celeste SAULO

Secretary-General,
World Meteorological Organization



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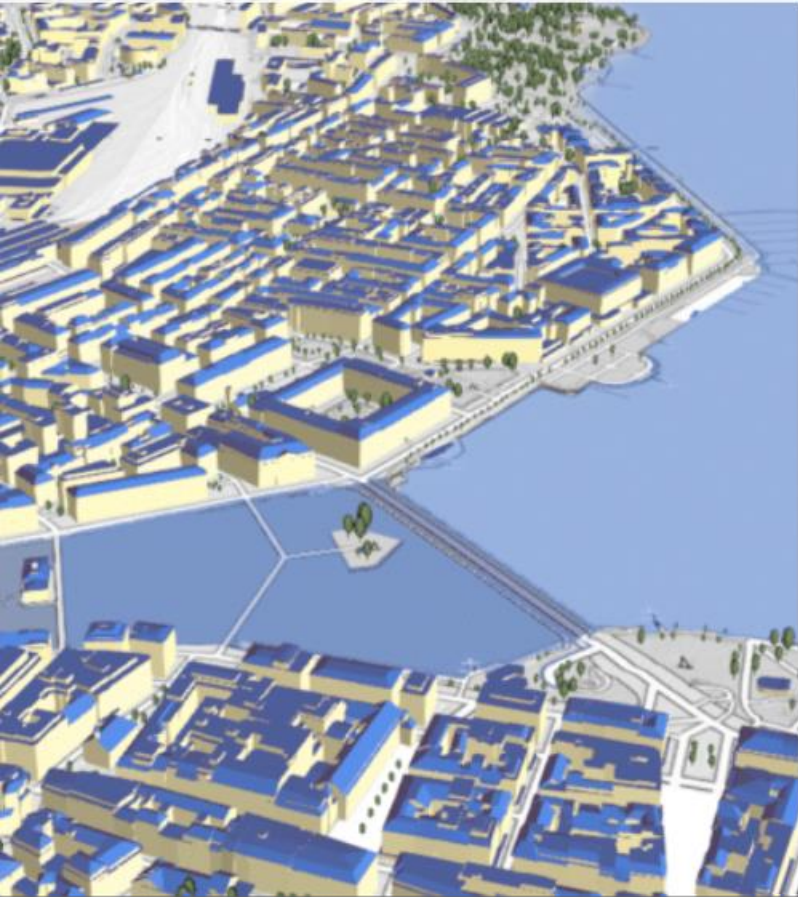
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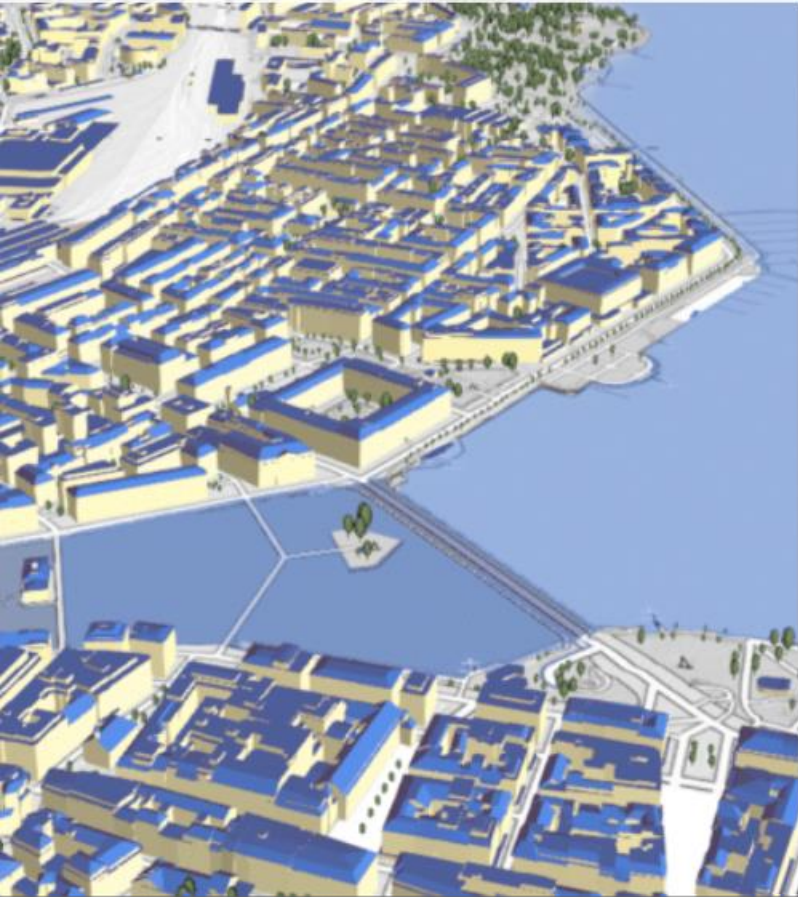
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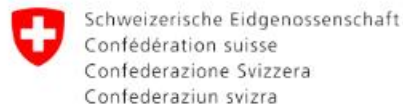
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H.E. Francisca Méndez Escobar

Ambassador

Permanent Representative of Mexico

Why the Mission of Mexico signed the Charter



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**H.E. Amb. Francisca
E. MÉNDEZ ESCOBAR**

Permanent Representative of Mexico to the
United Nations Office in Geneva



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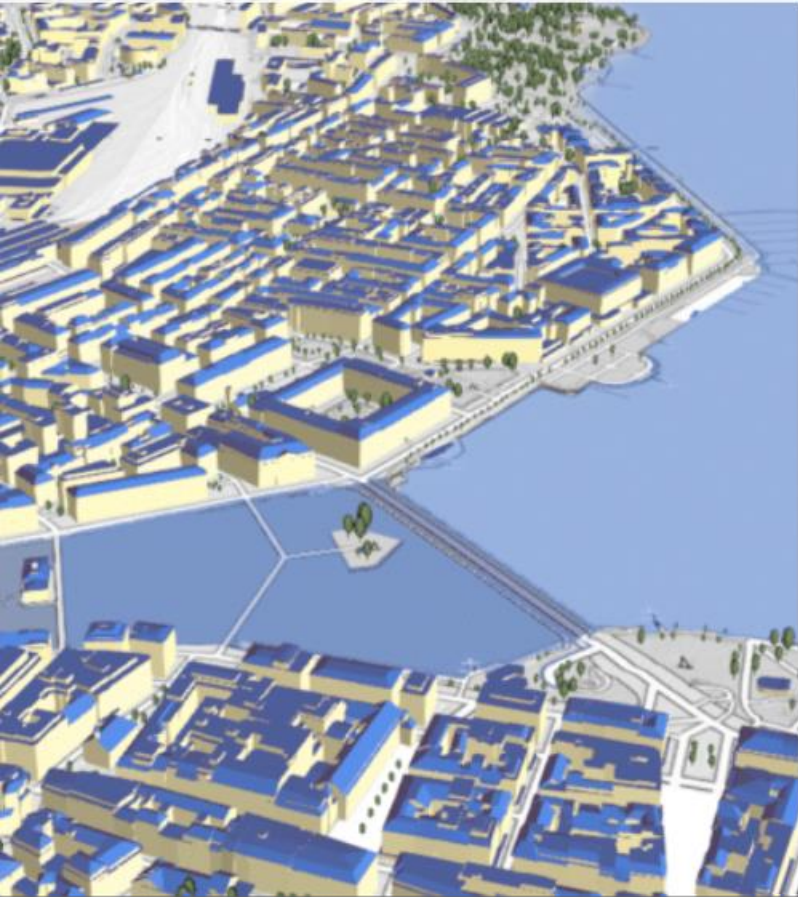
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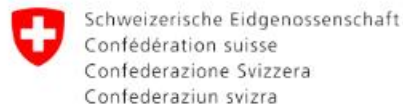
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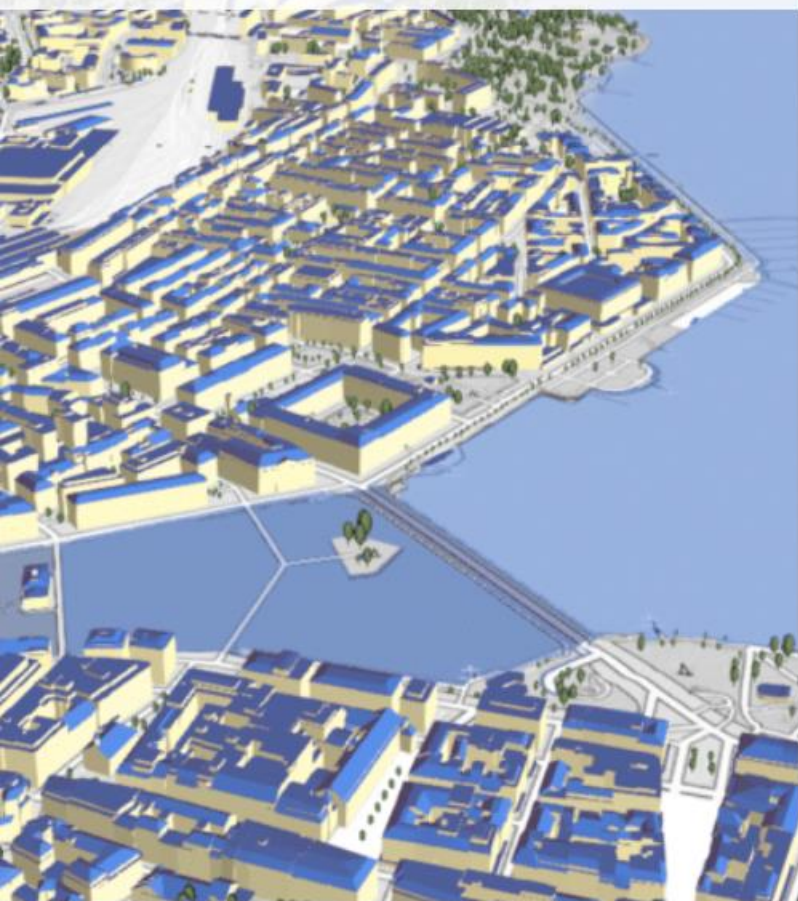
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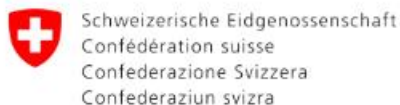
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Diana Rizzolio

Coordinator of the Geneva Environment Network

*Strengthening the joint impact of International Geneva
to tackle the triple Planetary Crisis*



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Diana RIZZOLIO

Coordinator,
Geneva Environment Network



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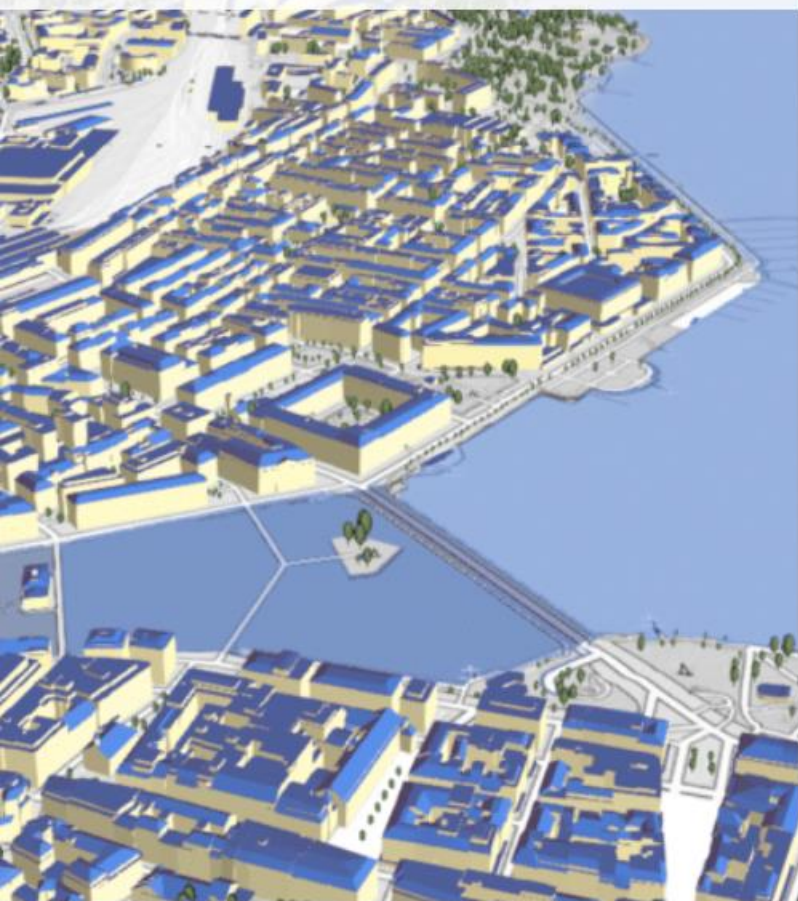


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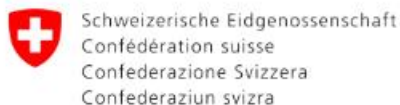
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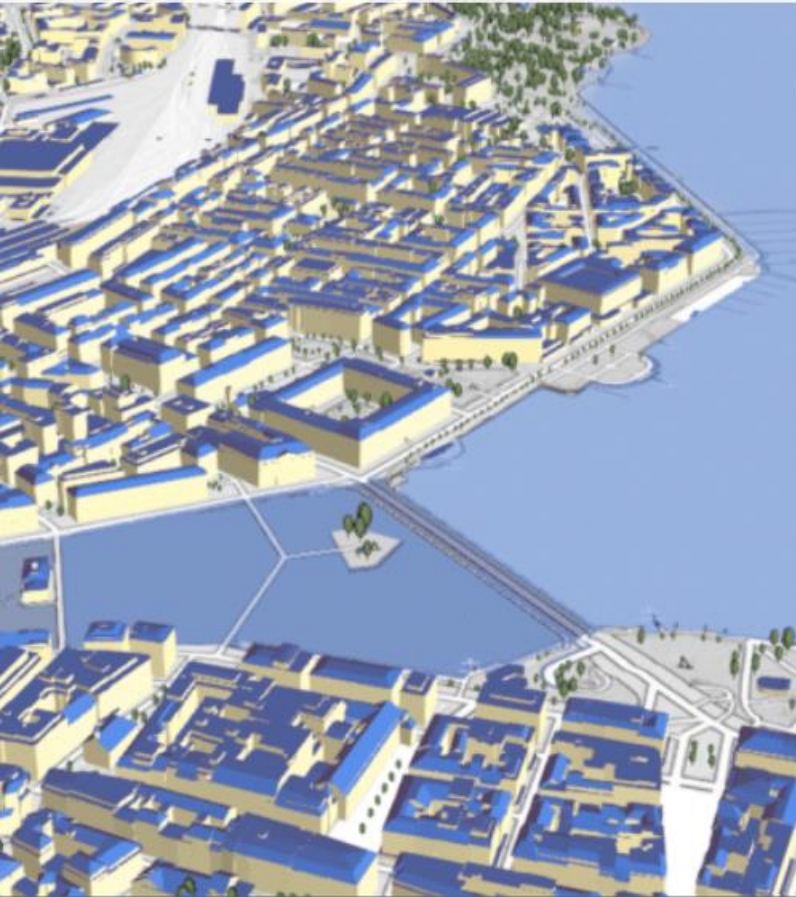
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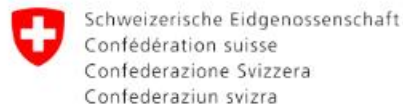
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DECARBONISING INTERNATIONAL GENEVA TOGETHER



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Jean-Pierre REYMOND

Executive Director, 2050Today



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A host territory jointly committed to climate action:

The 2050Today Charter explained



2050Today – The Geneva Climate Action Forum

From stocktaking to action



Permanent Mission of France



Permanent Mission of the
Federal Republic of Germany



Permanent Mission of India



Permanent Mission of Ireland



CERN – European
Organization for Nuclear
Research



ILO – International Labour
Organization



IOC – International Olympic
Committee



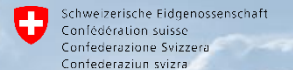
ITU – International
Telecommunication Union

Coalition based on the 2050Today Charter and gathering 68 institutions from International Geneva

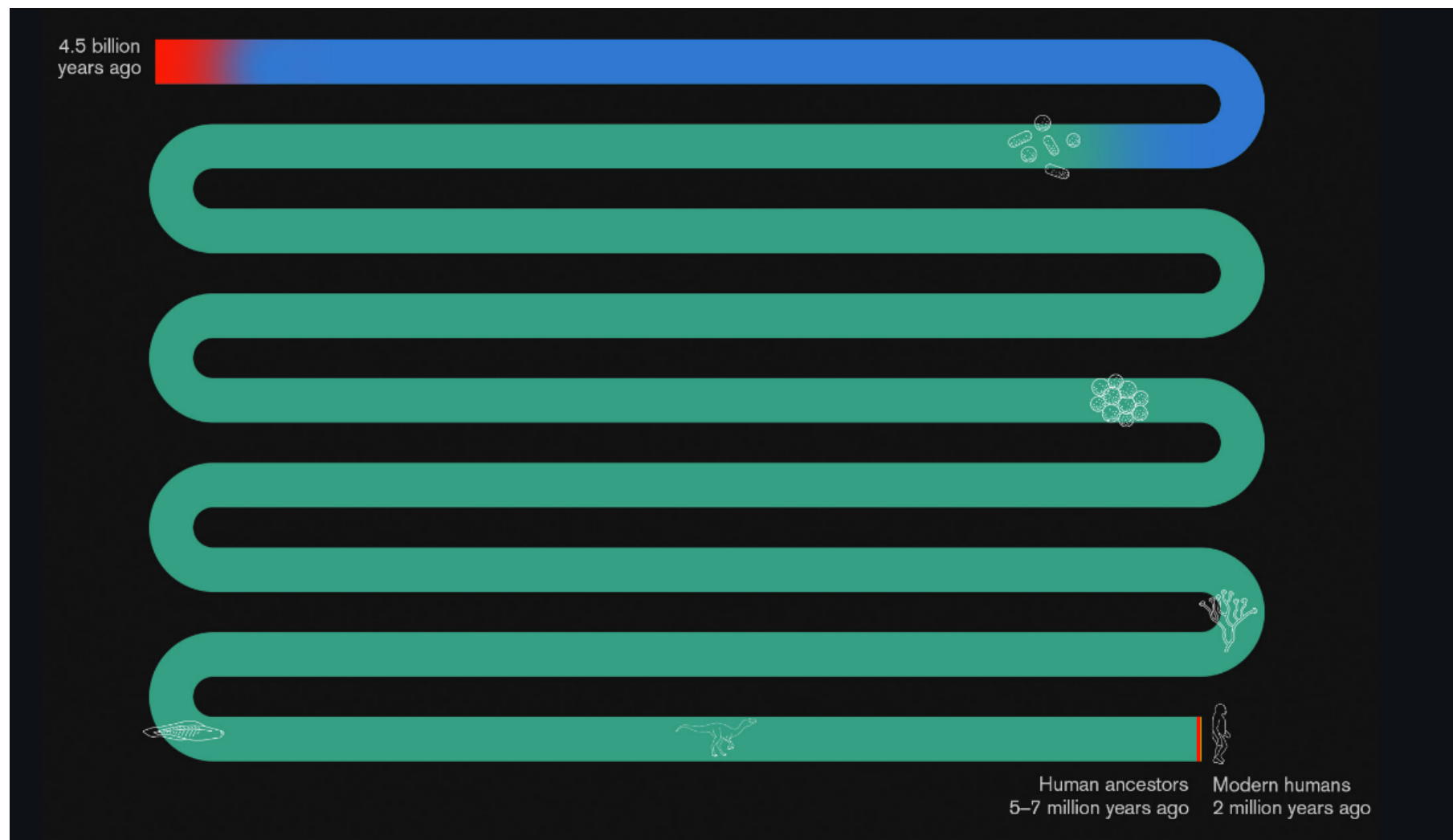
- Permanent Missions
- International Organizations
- Academia and civil society entities

A partnership of

- The Swiss Confederation
- The Republic and Canton of Geneva
- The City of Geneva
- The University of Geneva
- The Industrial Services of Geneva - SIG



The newcomers and their footprint



**Homo sapiens
300'000 years old**

**4.5 bn in one year :
31.12 at 23:30**

**4.5 bn in one day :
23:59 55''**

**☐ 1/3 of the
planet resources
already used**

Source : Living in the Age of Humans

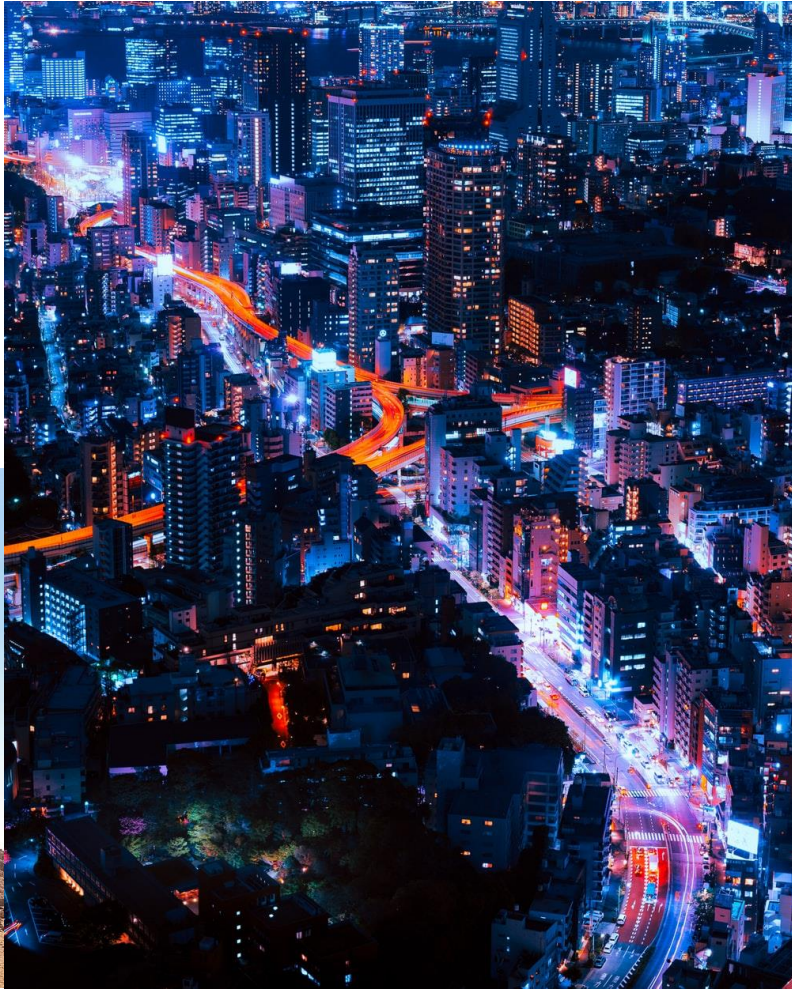
The different forms of the human footprint



© Unsplash - Katerina Kerdi



© Unsplash - Jeremy Bezanger



© hellocolor - Pawel Nolbert



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- **Our annual extraction menu**
More than 90 billions tons

11 tons per every single person
The weight of 160 people

- **Our annual energy menu**

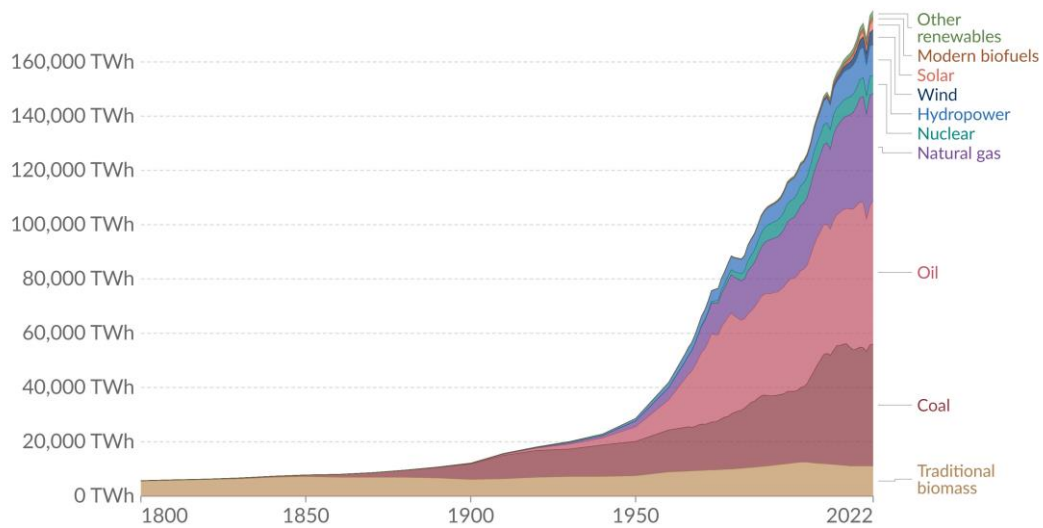
- **77% fossil fuels**
- **13% renewable**
- **6% biomass**
- **4% nuclear**

Bangladesh	2'900 kWh / c
Switzerland :	33'000 kWh / c
Qatar :	194'000 kWh / c
World :	21'000 kWh / c

Global primary energy consumption by source

Primary energy is calculated based on the 'substitution method' which takes account of the inefficiencies in fossil fuel production by converting non-fossil energy into the energy inputs required if they had the same conversion losses as fossil fuels.

Our World in Data



Data source: Energy Institute Statistical Review of World Energy (2023); Vaclav Smil (2017)
OurWorldInData.org/energy | CC BY

Robert Förstemann vs Toaster

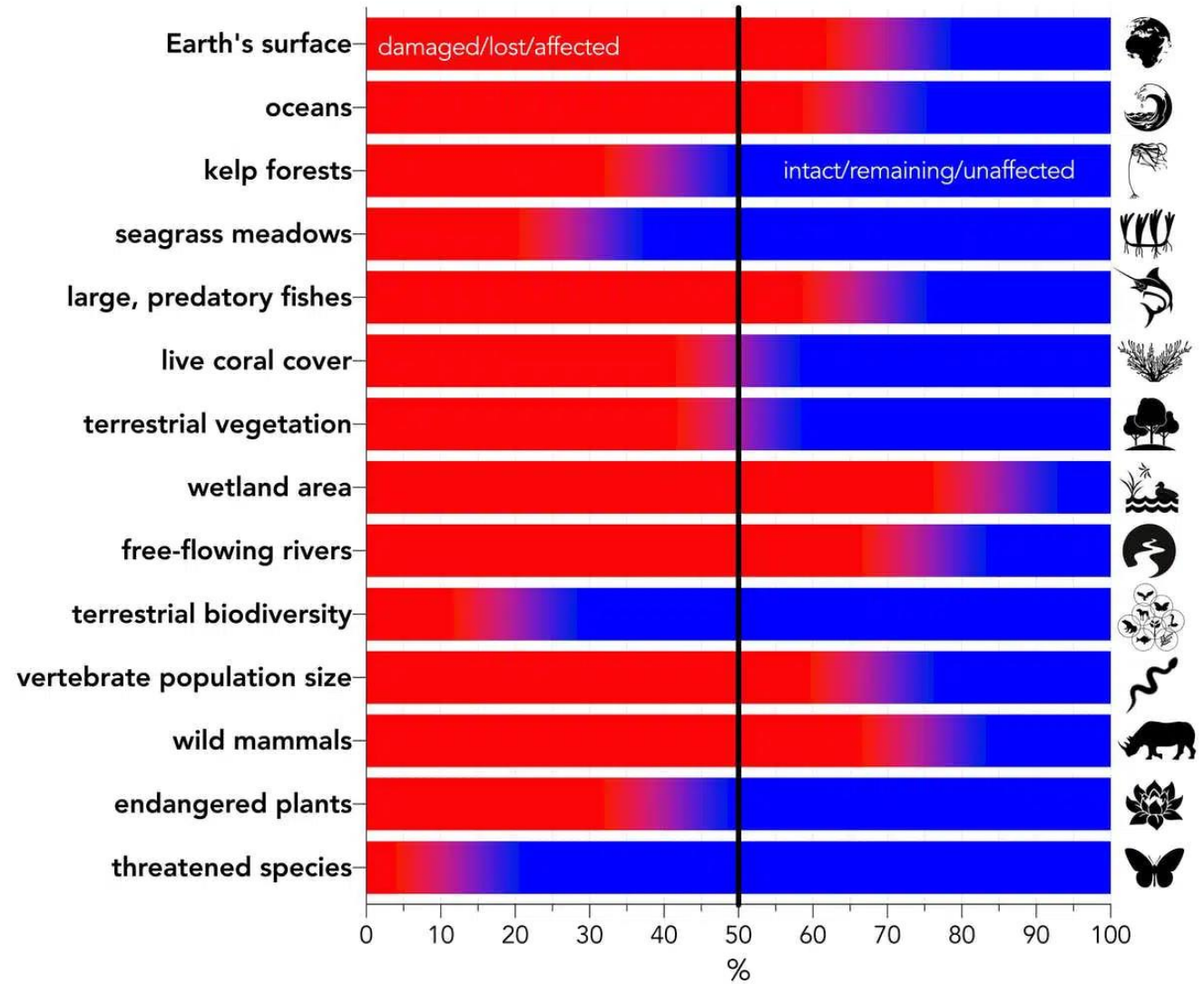


1 hour
0.021 kWh



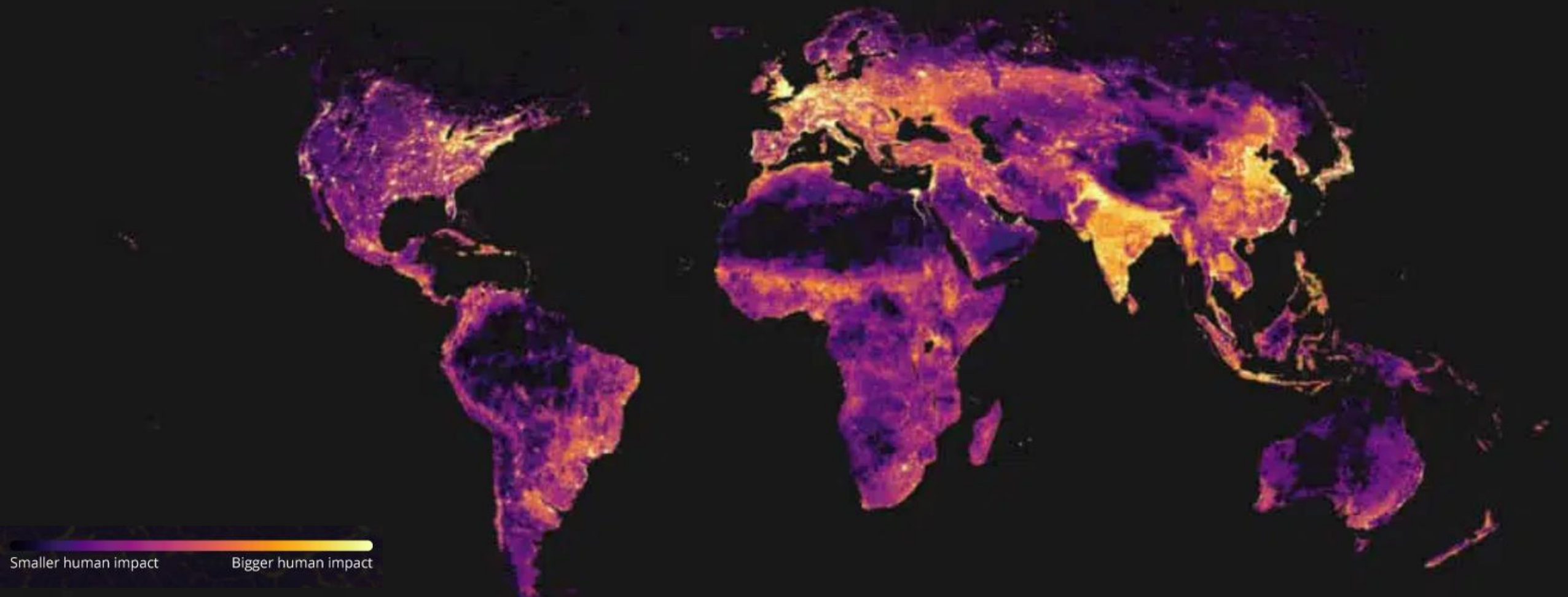
The human impact on our environment so far

**EVERY MINUTE, AN AREA OF WOODLAND
EQUAL TO ALMOST 30 FOOTBALL PITCHES
IS DESTROYED ON A GLOBAL SCALE**



Source : Frontiers in Conservation Science

Almost two-thirds are degraded by human overexploitation

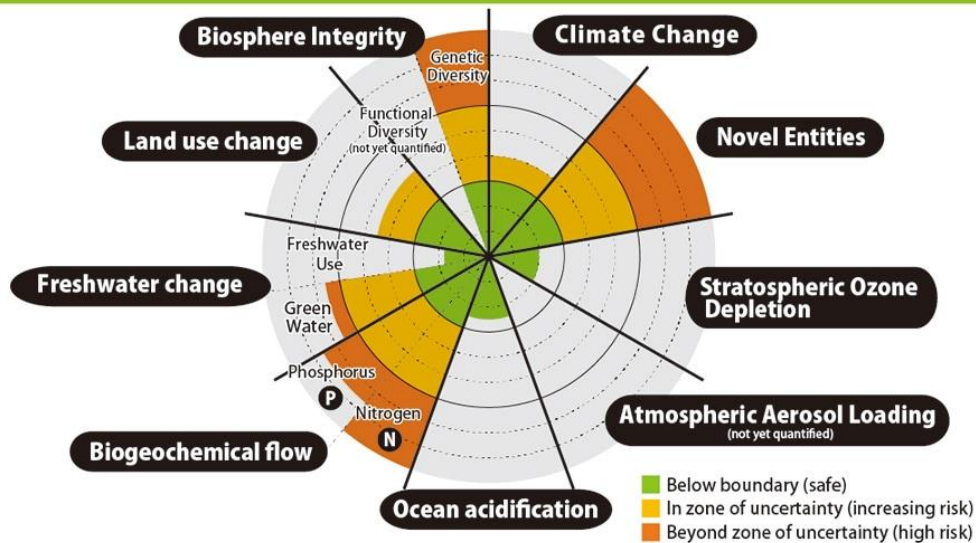


Our impact : the Anthropocene

6 of the 9 planetary boundaries have been exceeded



Current status of planetary boundaries



A safe operating space for humanity

AT CURRENT RATE, WE NEED 1.8 PLANET
AND
3 PLANETS FOR
THE CONSUMPTION LEVEL IN SWITZERLAND

Human biomass represent 0,01 % of life on Earth

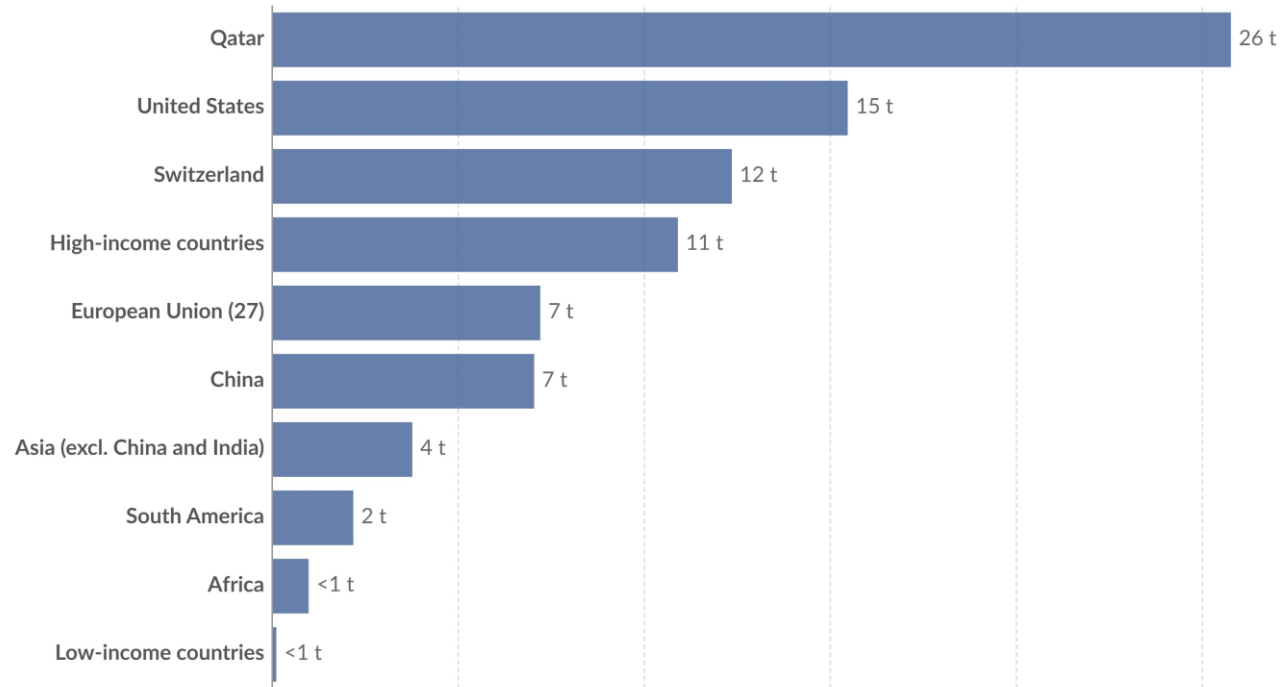
Source : Stockholm Resilience Centre

The carbon footprint per capita

Per capita consumption-based CO₂ emissions, 2020

Consumption-based emissions¹ are national emissions that have been adjusted for trade. It's production-based emissions minus emissions embedded in exports, plus emissions embedded in imports.

Our World in Data



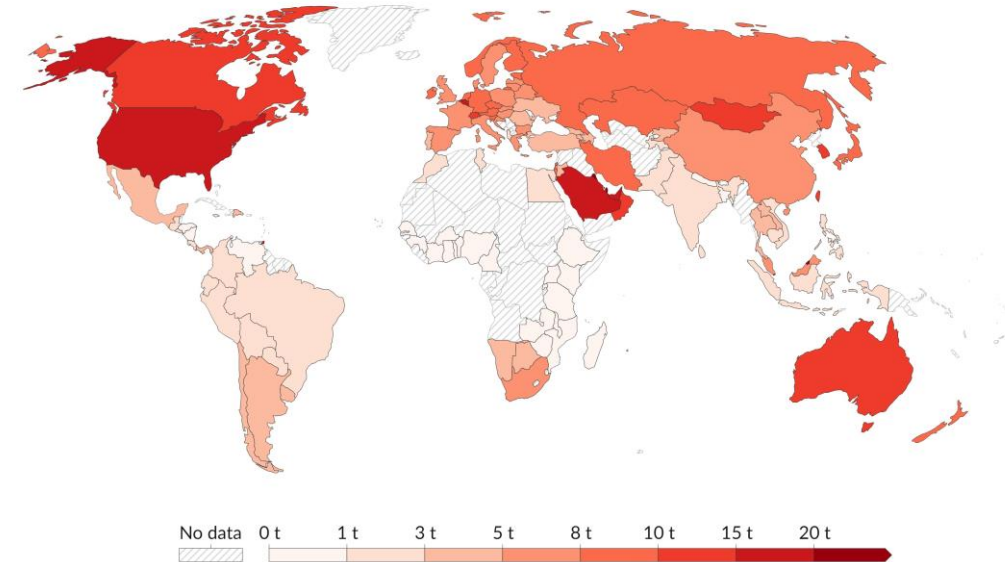
Data source: Global Carbon Budget (2022); Population based on various sources (2023)
OurWorldInData.org/co2-and-greenhouse-gas-emissions | CC BY

1. **Consumption-based emissions:** Consumption-based emissions are national or regional emissions that have been adjusted for trade. They are calculated as domestic (or 'production-based' emissions) emissions minus the emissions generated in the production of goods and services that are exported to other countries or regions, plus emissions from the production of goods and services that are imported. Consumption-based emissions = Production-based - Exported + Imported emissions

Per capita consumption-based CO₂ emissions, 2020

Consumption-based emissions¹ are national emissions that have been adjusted for trade. It's production-based emissions minus emissions embedded in exports, plus emissions embedded in imports.

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world average : 5 t

We are all part of the solution

By measuring our greenhouse gas emissions and by reducing them accordingly,
we can be the change we want to see as of today



ADOPTING
THE 2050TODAY CHARTER

IS

BEING PART OF THE
CLIMATE ACTION

- **A common framework for implementation, reference, evaluation and visibility**, defining principles with objectives and targets to be set individually by each institution
- **A common project** drafted jointly and already signed by 40 institutions
- **No legal or financial obligations**

five principles to fulfil

1. **Measuring regularly the carbon footprint of **your activities****
2. **Carrying out an initial measurement of **your situation**** on one or possibly more sustainability sectors of the Charter
3. **Defining **your own Action Plan**** and implement it to reach **your corresponding targets**
4. **Sharing **your Action Plan**** with 2050Today and reporting on the set sustainability topics
5. **Communicating **your climate action****

Decarbonising international Geneva together

The 2050Today Charter : a complete recipe for achieving net zero emissions

- **Principles** >> **Join a common framework**
- **Climate action references (-60%)** >> **Decide your contribution**
- **Thematic sectors of Action and recommended Objectives** >> **Select where to focus**
 - Energy
 - Mobility
 - Food
 - Sustainable IT
 - Biodiversity
 - Waste Management
- **Reporting & timeline** >> **Report and measure progress**
- **Guidelines** (Appendix) >> **Benefit from resources**
 - Thematic Proposals for concrete and specific actions
 - Thematic Assessment & Action Plan Tool
 - Priority Levels : **M**aximum, **H**ighly **I**important, **R**ecommended



Know your GHG Emissions



Footprint Measurement

1. ENERGY & WATER
2. MOBILITY
3. PURCHASED EQUIPMENT
4. FOOD
5. WASTE



[CARBON FOOTPRINT PLATFORM](#)

MOBILITY - Vehicles not owned or operated by the institution

Employees business travel				
Item	Value	Units	Fuel type	Comments
Bicycle		km	-	
Electric bicycle			-	
Electric scooter			-	
100% Electric car			-	
Plug-in hybrid electric car		km		
Public transports - Tram		km	-	
Public Transports - Train		km	-	
Public Transports - Bus		km	-	
Motorbike				
Thermal car - small size (- 1400 ccm3)				
Thermal car - medium size (1400ccm3 - 2000 ccm3)				
Thermal car - large size (2'000 ccm3 ..)				
Taxi		km	-	
Airplanes				
Distances of less than 550 km (cumulative value)			-	km
CO2 emissions for distances of less than 550 km				tCO2eq.
Distances between 550 km and 5500 km (cumulative value)			-	km
CO2 emissions for distances between 550 km and 5500 km				tCO2eq.
Distances above 5500 km (cumulative value)			-	km
CO2 emissions for distances above 5500 km				tCO2eq.
Share of Compensated flights		%	-	
Hotel nights				
Number of hotel nights		N° of nights	-	



Your GHG Emissions Report : summary

Total GHG Emissions

152.1

tons CO₂-eq

GHG Emissions per FTE

2.1

tCO₂

Full time employees (FTE)

73

GHG Emissions per square meter for heating

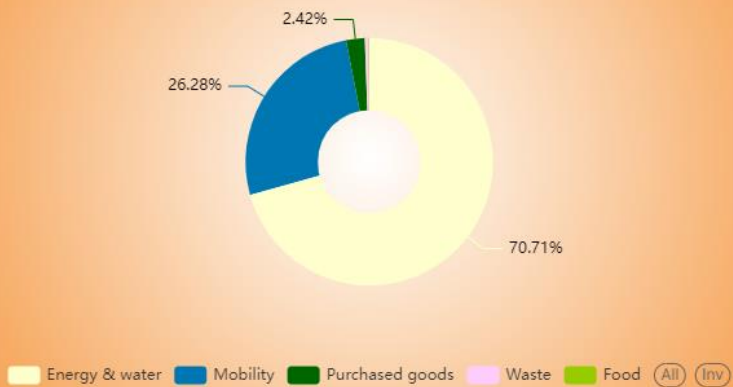
26

Kg CO₂/m²

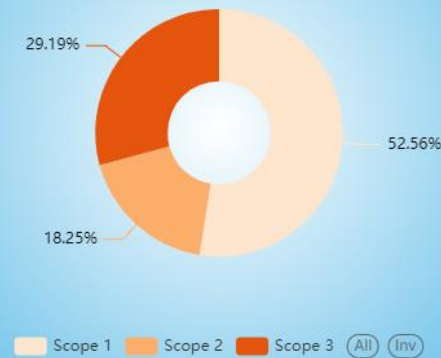
Total GHG Emissions per category and year



GHG Emissions per category (tCO₂ and %)



GHG Emissions per scope (tCO₂ and %)



Your GHG Emissions Report in details and online

GHG Emissions

Search 44 records...

category	subcategory	scope	indicator	Reported data	tCO2
1. Energy & water	Individual Heating	1	Natural Gas	178295 kWh	41.008
1. Energy & water	Individual Heating	1	Heating oil	11300 Liters	38.076
3. Mobility (not owned vehicles)	Commuting - cars	3	Thermal car - average	150634 km	23.845
1. Energy & water	District Heating (average)	2	District Heating (average)	46478 kWh	15.756
1. Energy & water	Electricity purchased & consumed - network	2	SIG Product : Electricité Vitale Bleu	116409 kWh	11.187
3. Mobility (not owned vehicles)	Commuting - public transports	3	Public transports	207150 km	9.695
3. Mobility (not owned vehicles)	Commuting - cars	3	P+R thermal car	41091 km	3.252
3. Mobility (not owned vehicles)	Commuting - scooter/motorbike	3	Motorbike	8965 km	1.467
4. Purchased goods	New office equipment	3	Monitors and screens	5 items	1.325
4. Purchased goods	New office equipment	3	White paper	800 kg	0.960
2. Mobility (owned vehicles)	Employees business travel - cars	1	Thermal car - large size (2'000 ccm3 ..)	4200 km (Petrol/Gasoline)	0.842
1. Energy & water	Electricity purchased & consumed - network	2	SIG Product : 40% Vitale Vert	8368 kWh	0.804
Totals					152.070

GHG Emissions (previous year)

Search 46 records...

category	subcategory	scope	indicator	Reported data	tCO2
1. Energy & water	Individual Heating	1	Natural Gas	260386 kWh	59.889
1. Energy & water	Individual Heating	1	Heating oil	15372 Liters	51.797
5. Food	Meals and drinks - individual consumption	3	Non-vegetarian hot meal	6580 N° of meals	23.688
3. Mobility (not owned vehicles)	Commuting - cars	3	Thermal car - medium size (1400ccm3 - 2000 ccm3)	128599 km	19.367
1. Energy & water	Electricity purchased & consumed - network	2	SIG Product : Electricité Vitale Bleu	113507 kWh	10.908
4. Purchased goods	New office equipment	3	Printers	33 items	6.501
5. Food	Meals and drinks - individual consumption	3	Vegetarian hot meal	6280 N° of meals	6.280
4. Purchased goods	New office equipment	3	Laptops	33 items	5.148
5. Food	Meals and drinks offered/sold by the institution	3	Non-vegetarian hot meal	897 N° of meals	3.229
5. Food	Meals and drinks - individual consumption	3	Coffee	29109 N° of capsules	3.144
5. Food	Meals and drinks offered/sold by the institution	3	Non-vegetarian cold meal	750 N° of meals	2.250
5. Food	Meals and drinks - individual consumption	3	Water/soft drinks - Glass bottles of 750	2295 items	2.222
Totals					213.521

Key performance indicators per full time employee

category	Kg CO2/fte	Previous year Kg CO2/fte	International Geneva Kg CO2/fte
1. Energy & water	1'473.0	1'515.2	257.5
2. Mobility (owned vehicles)	11.6	N/A	7.3
3. Mobility (not owned vehicles)	535.8	369.8	611.7
4. Purchased goods	50.4	174.2	14.5
5. Food	1.8	548.4	26.7
6. Waste	10.6	28.5	4.7

Commuting

Modal share

Mode of transport	Total km travelled	Modal share	tCO2/year
Thermal car - average	150'634	19.3%	23.8
Public transports	207'150	37.7%	9.7
P+R thermal car	41'091	0.9%	3.3
Motorbike	8'965	4.4%	1.5
Bicycle (electric and normal)	77'442	34.2%	0.620
Carpooling hybrid car	1'179	0.9%	0.074
Walk	1'105	2.6%	0.000

WHERE TO FOCUS



Common Analysis

- CHOOSE YOUR SECTOR (S)
- ✓ FOLLOW THE SECTORAL GUIDELINES

WG ENERGY MOBILITY FOOD BIODIVERSITY SUSTAINABLE IT WASTE MANAGEMENT



- Energy
- Mobility
- Food
- Sustainable IT
- Biodiversity
- Waste Management

- Management objectives
 - Objective 1 - Establishing management measures to ensure the action plan implementation
 - Objective 2 - Monitoring sustainability over time
 - Objective 3 - Championing change and involving all stakeholders
- Thematic objectives
 - Objective 4 - Sourcing sustainable products
 - Objective 5 - Promoting healthy and nutritionally balanced food
 - Objective 6 - Preventing Food Waste
 - Objective 7 - Reducing food packaging
 - Objective 8 - Running sustainable food and catering facilities

EVALUATE YOUR INITIAL SITUATION WITH THE
ASSESSMENT TOOL

EXPERTISE PARTNERS



WHAT TO DO



Action plan Definition

➤ SELECT THE ACTIONS

➤ DEFINE YOUR TARGETS

2025 – 2030

ACTION PLAN TOOL

WG ENERGY MOBILITY FOOD BIODIVERSITY SUSTAINABLE IT WASTE MANAGEMENT



Defining our Action Plan : Sustainable Food and Catering

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Assessment and Action Plan Tool with objectives and targets

Version 1.0
October 2023

The objectives, actions and targets proposed below are non exhaustive examples, to be set and adapted to each members' initial individual situation. All percentages are meant in kg of total food purchased.

Institution Name :		Responsible person Name :				Date :	
Objectives	Priority	Actions	Where we are in (year X)	Target 2025	Target 2028	Target 2030	Comment
Objective 4		Sourcing sustainable products					
		4.1. Favouring seasonal products					
		4.1.1. Favour the purchase of fruit and vegetables not grown in heated greenhouses, for a minimum of x % (based on quantities)		90%	100%		
		4.1.2. Limit the purchase of exotic fruit and vegetables, for a maximum of x % (based on quantities)		10%	5%		
		4.2. Favouring local production					
		4.2.1. Offer an extensive selection of products farmed in Switzerland, or meeting the PER standards, for a minimum of x % (based on quantities)		60%	80%		
		4.2.2. Offer an extensive selection of local products with regional labels, such as GRТА, Vaud+, or similar, for a minimum of x % (based on quantities)		20%	30%		
		4.2.3. Completely avoid products transported by plane		0%	0%		
		4.2.4. Clearly indicate the origin of meat and fish on the menu and/or on a separate display (art. 5b of the DFI Ordonnance).		100%	100%		
		4.3. Favouring organic production					
	4.3.1. Select products with a credible label such as Bourgeon Bio, Demeter, ordonnance bio Suisse, AB bio (EU), for a minimum of x % (based on quantities)		20%	30%			
	4.3.2. Choose certified products that can be stored (flour, rice, lentils, etc.) over fresh products (fruits and vegetables, ...), which have a higher price volatility						

EXPERTISE PARTNERS





Implementation

WG ENERGY MOBILITY FOOD BIODIVERSITY SUSTAINABLE IT WASTE MANAGEMENT

FOSTER COMMON PROJECTS

- 100 sustainable buildings
- New mobility paradigms
- Food for a sustainable planet
- Favouring nature to preserve life
- Achieving sustainable IT
- Integrating circularity into daily life

EXPERTISE PARTNERS



Decide your GHG Emissions



Geneva – London / return

1500 km / air
2000 / land

Entrez une quantité de CO₂e ci-dessous

390

kg CO₂e

c'est autant d'émissions que pour fabriquer, consommer ou parcourir :

133 106
km en tgv

↑ Comparer

43 430
km en intercity

↑ Comparer

3 772
km en voiture électrique

↑ Comparer

2
ordinateurs portables

↑ Comparer

2
écrans

↑ Comparer

10
smartphones

↑ Comparer

765
repas végétariens

↑ Comparer

247
repas avec du poulet

↑ Comparer

54
repas avec du boeuf

↑ Comparer

The 2050Today Charter: key points

- **COLLECTIVE FRAMEWORK - shared references and goals**
 1. Community network providing exchanges of experience, best practice, contacts
 2. Participation to local and national climate action endeavours
 3. Highlighting your climate actions
- **TECHNICAL TOOLS**
 4. Carbon footprint platform for measurement and reporting
 5. Assessment TOOL
 6. Action Plan TOOL
 7. Intranet
- **COACHING**
 8. Theoretical and practical training
 9. Institutional, technical and academic consultancy
- **FINANCIAL – lower costs**
 10. No fees
 11. External services at preferential rates
 12. Possibly seed-funding for innovative infrastructure and in-situ measures (joint projects implementation)

Together towards a Carbon Free International Geneva

The future we want ...

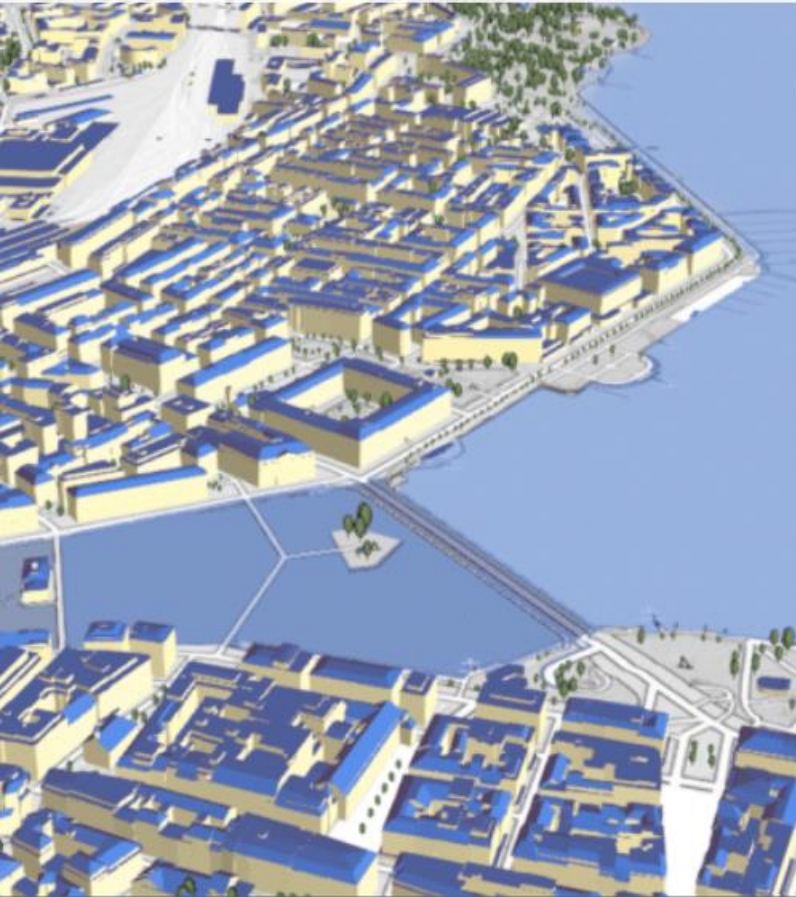
is the future we build together

**READY TO ADOPT
THE 2050TODAY CHARTER ?**

Thank you for your attention

UNITED FOR ZERO EMISSIONS

THE 2050TODAY CHARTER EXPLAINED



27 FEB 2024 | 10:00 CET

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AGENDA

United for Zero Emissions

Introductory Remarks

- Jean-Pierre REYMOND | Executive Director, 2050Today

Welcome Remarks

- Prof. Celeste SAULO | Secretary-General, WMO

Why the Permanent Mission of Mexico Signed the Charter

- H.E. Amb. Francisca E. MÉNDEZ ESCOBAR | Permanent Representative of Mexico to the United Nations Office in Geneva

Strengthening the Joint Impact of International Geneva to Tackle the Triple Planetary Crisis

- Diana RIZZOLIO | Coordinator, Geneva Environment Network

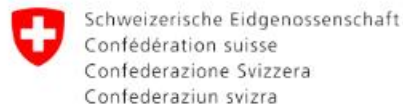
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A host territory jointly committed to climate action: the 2050Today Charter explained

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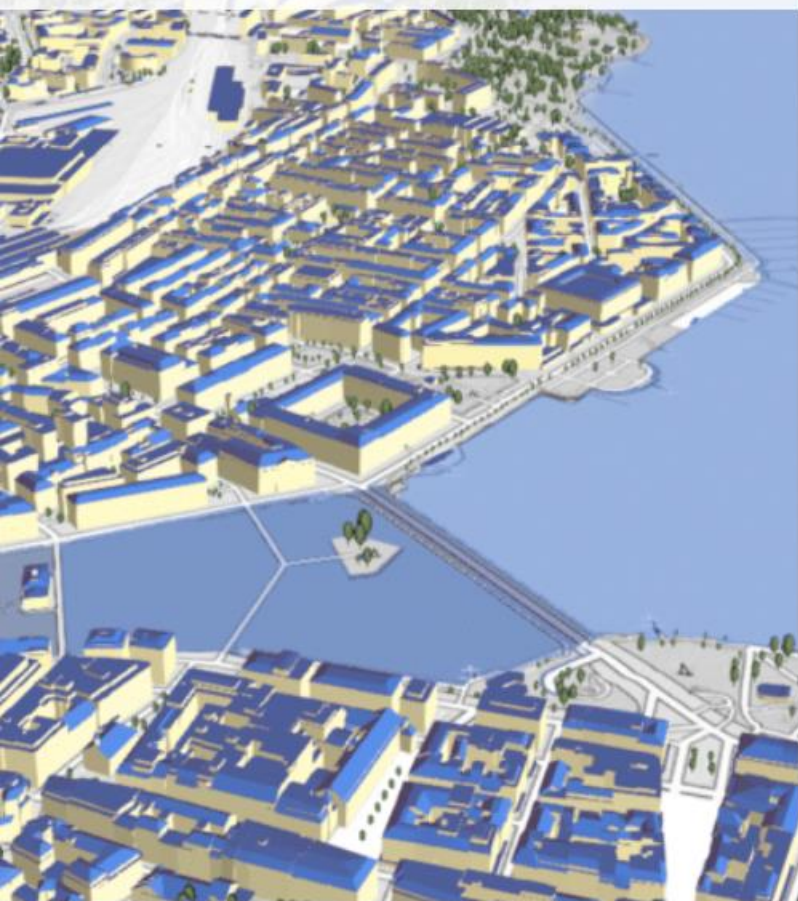
Q&A

Conclusions



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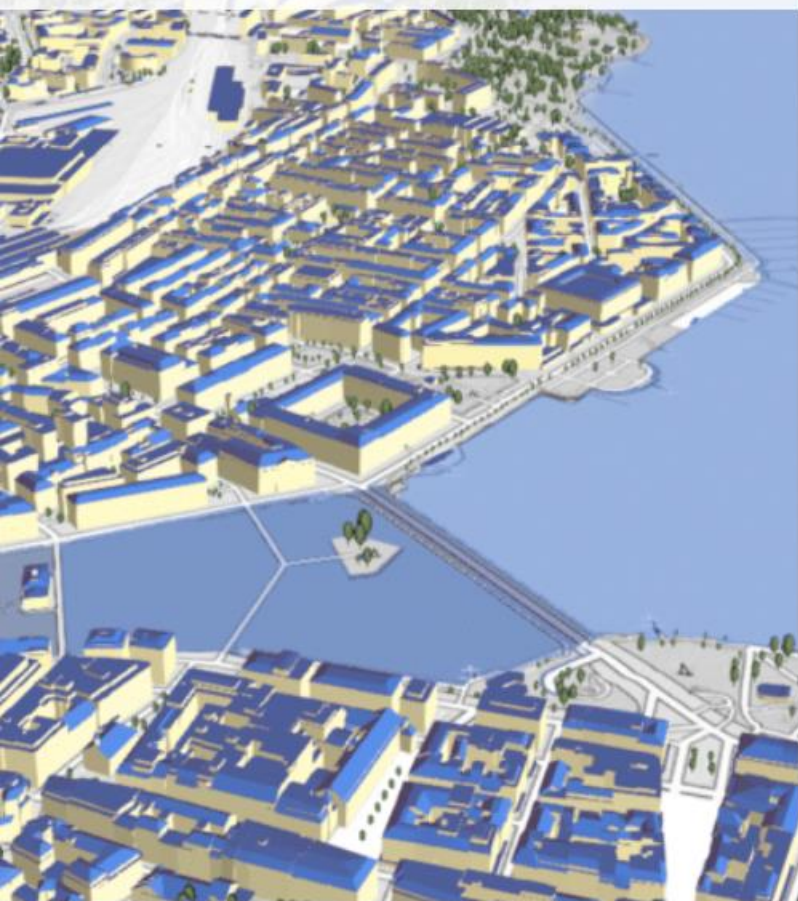
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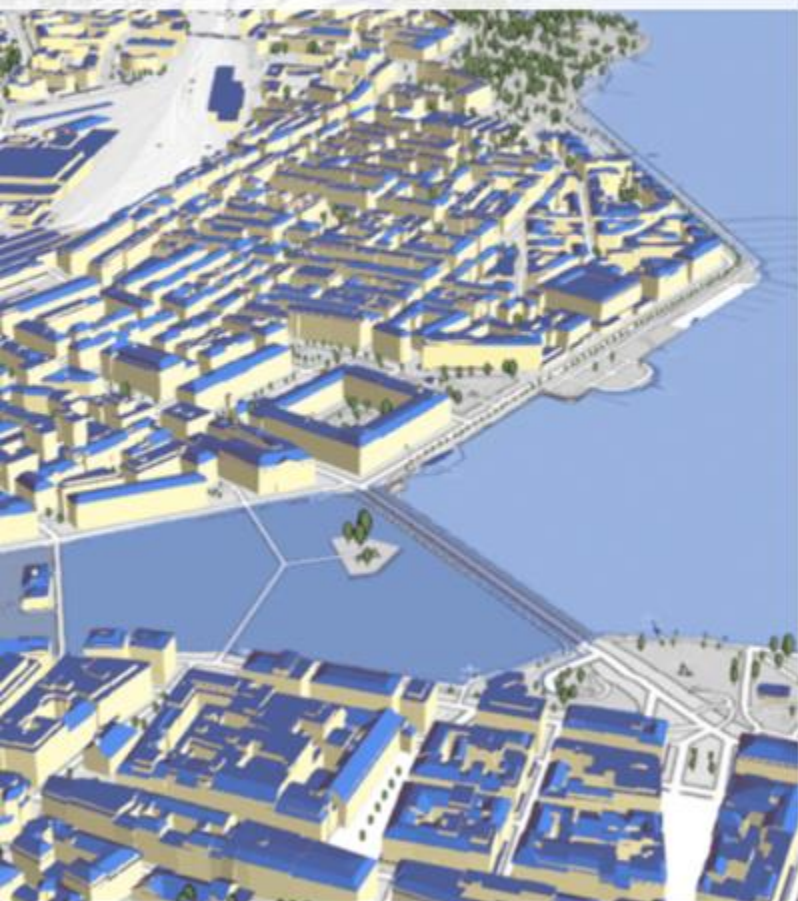
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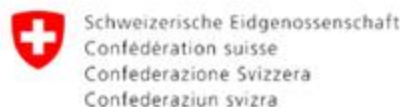
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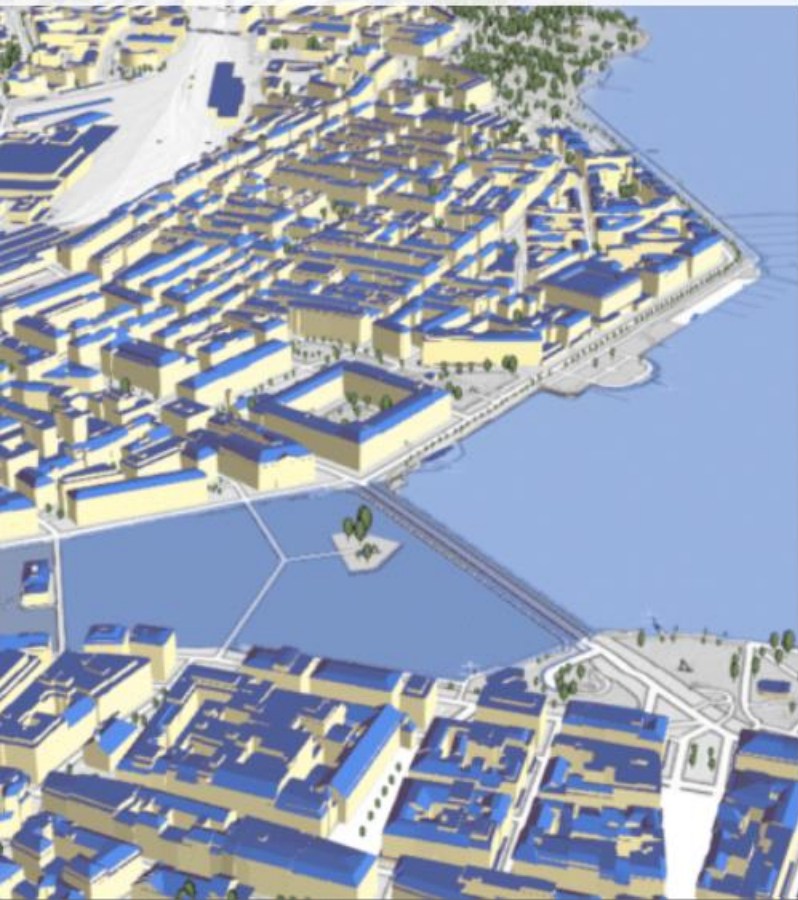
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CONCLUSION

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THANK YOU FOR JOINING!



**Prof.
Celeste SAULO**



Secretary-General, World Meteorological Organization



**H.E. Amb. Francisca
E. MENDEZ ESCOBAR**



Permanent Representative of Mexico to the United Nations Office in Geneva



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World Wildlife Day 2024

GENEVA CELEBRATION

4 MARCH 2024 | 14:30 - 16:00 CET
ITU HQ | Room C1



Connecting People and Planet:
Exploring Digital Innovation in
Wildlife Conservation



#WWD2024



WORLD WILDLIFE DAY
3 MARCH



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ENVIRONMENT @ REGIONAL FORUM

ON SUSTAINABLE DEVELOPMENT FOR THE UNECE REGION



VIRTUAL

Advancing the Six Transitions: What Role for Young People? | RFSD 2024

11 MAR 2024 11:30 – 12:30

Online | Webex

Cyprus, UNEP Europe Office, UNECE, UNESCO, YEE

SDG1 | SDG2 | SDG13 | SDG16 | SDG17



VIRTUAL

Addressing the Interconnected Challenges of Poverty, Food Security, and Climate Change through a One Health Approach and Effective Governance and Policy Coherence | RFSD 2024

11 MAR 2024 14:30 – 15:30

Online | Webex

WHO, UNEP Europe Office

SDG1 | SDG2 | SDG3 | SDG16 | SDG17



VIRTUAL

Policy Coherence for Sustainable Development a Must for the Six Transitions to Succeed Between Now and 2030 | RFSD 2024

12 MAR 2024 14:30 – 15:45

Online | Webex

UNECE, UNEP Europe Office, OECD, UN EMG

SDG13 | SDG16 | SDG17



VIRTUAL

Environmental Rule of Law and the Role of Access to Justice in Delivering on SDGs 16 and 13 | RFSD 2024

14 MAR 2024 08:30 – 09:45

Online | Webex

UNEP Europe Office, UNECE, Aarhus Convention, UNDP Geneva, GEN

Human Rights and Environment | Climate

SDG13 | SDG16

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