

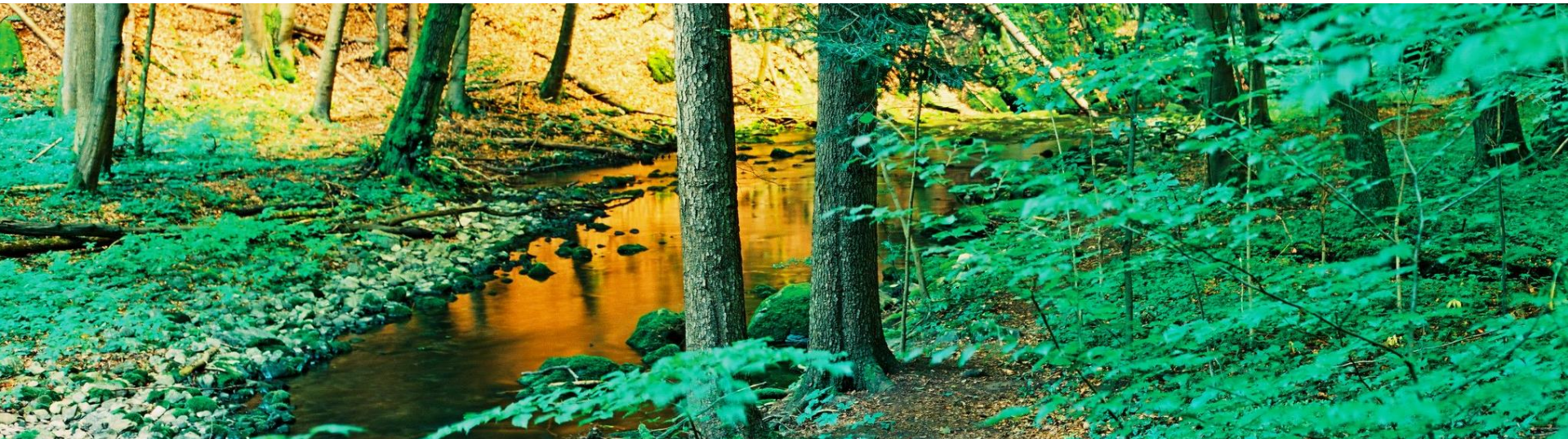


Carbon Compensation in Registries

Arnaud Recko (DNS Belgium) & Giovanni Seppia (EURid)

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Sustainability for registries: but why?

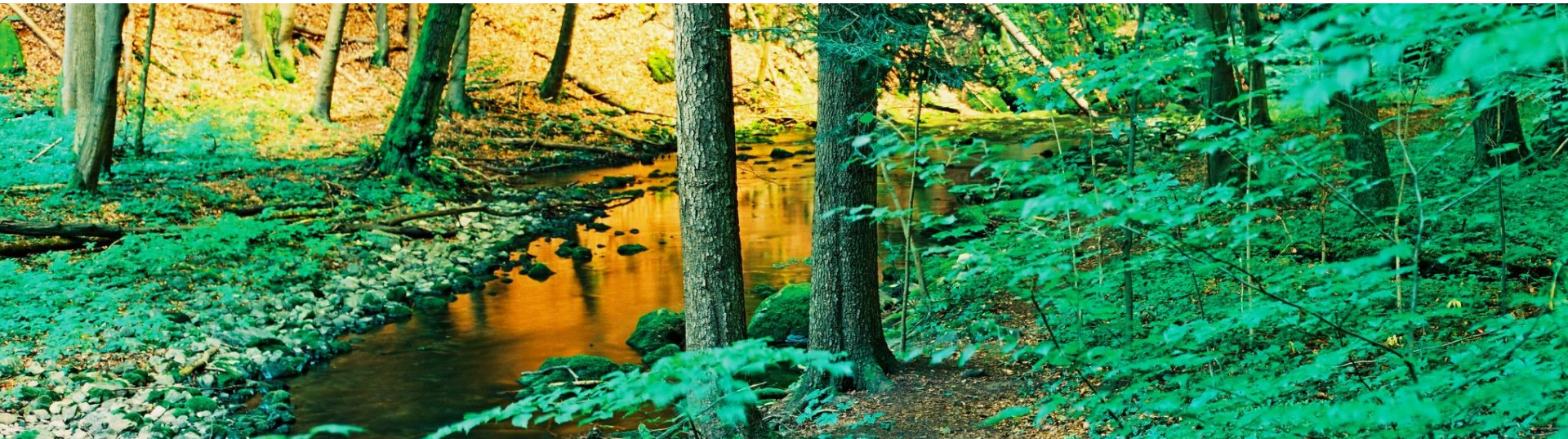
There is no Planet B!

The world is our shared responsibility.

Conscious effort improve the world not just now, but for the future.

Future generations depend on us.

Registries have a role to play in the ecosystem.



Internet carbon foot print

- Bitcoin consumes 0,60% of the total global electricity consumption
 - More than Norway, Argentina, Pakistan
 - Acc. To Cambridge centre for alternative finance

Country Ranking



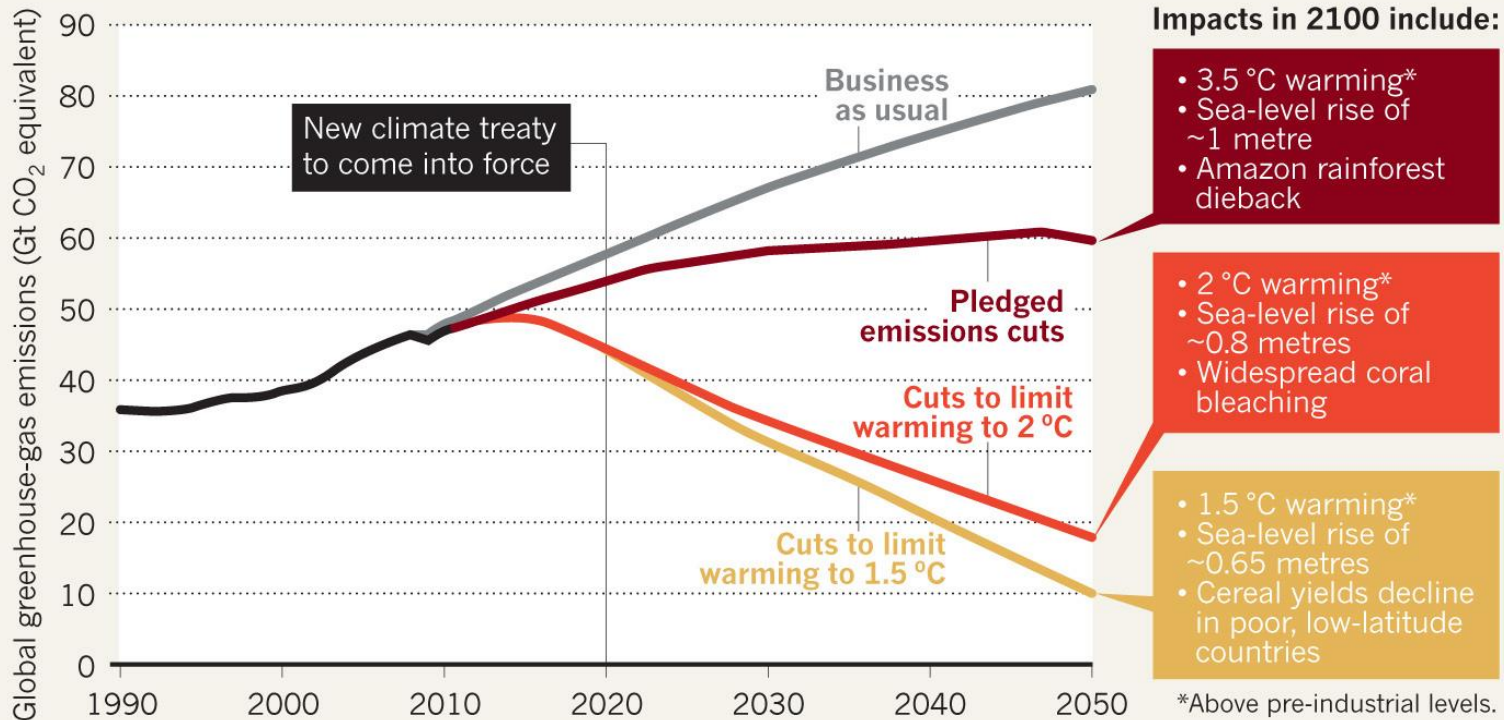
Source:

[U.S. Energy Information Administration](https://www.eia.gov) country data, 2019 est. (or most recent available year)

THE GIGATONNE GAP

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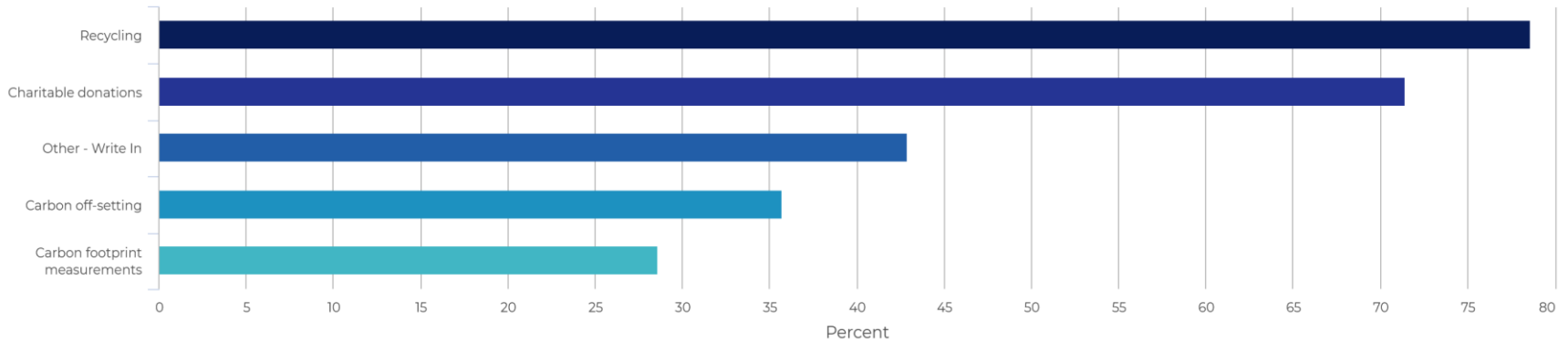
By the time a new treaty to limit emissions comes into force in 2020, the world will have diverged further from the path needed to limit warming to 2 °C by 2100, according to an analysis by Climate Action Tracker.



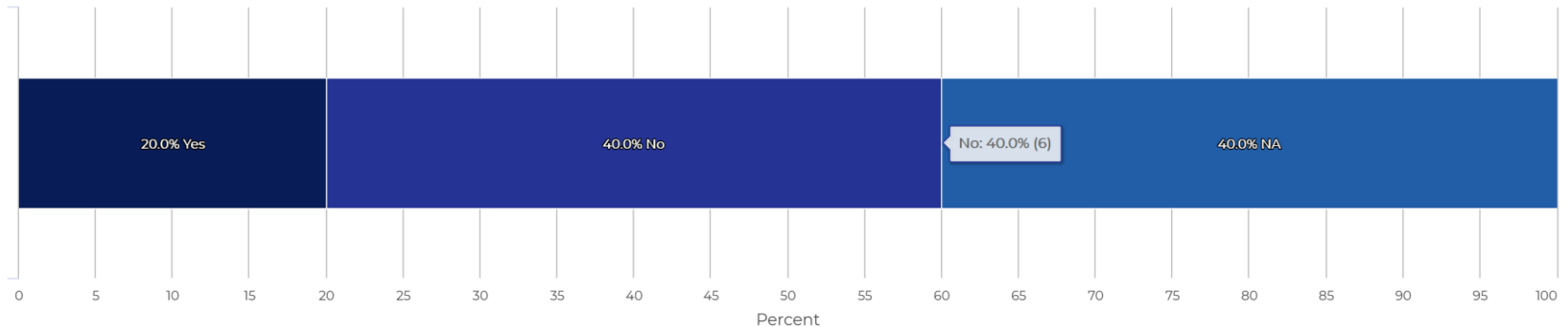


CENTR survey on sustainability work

2. Please describe the efforts (if any) your organisation makes to contribute to environmental sustainability.



4. If your organisation does not currently measure its carbon output/footprint, are there plans to do so?



Carbon footprint policy

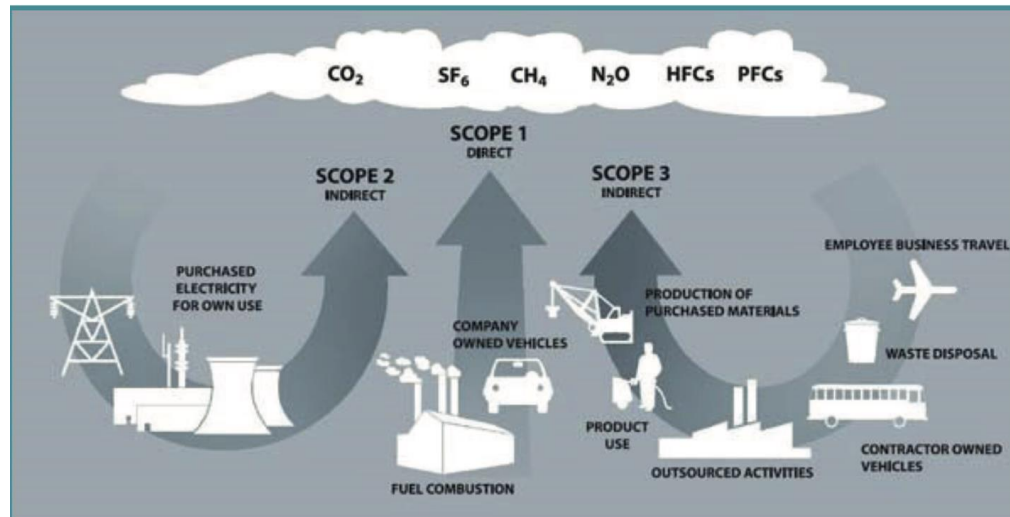
A good carbon footprint policy consists of the following steps

1. Calculate your footprint
2. Reduce your footprint
 1. Avoid
 2. Alternatives
 3. Reduce
3. Compensate
 1. Actual emissions
 2. Historical emissions
4. Communicate



Step 1: Calculate your carbon footprint

- The objective of the CENTR project to compare the methodologies is a shared model for measurements and performance indicators.
 - Outcome of phase 1 of the project: a report with a set of baseline measurables for a registry and suggestions how to set up a sustainability plan in a registry.





Step 1: Calculate your carbon footprint

- Model + helpdesk is available for you.
 - The team behind the sustainability@centrlists.org is at your disposal:
 - Arnaud Recko (DNS Belgium); Charlotta Flodin (The Swedish Internet Foundation); Virginie Navaille (AFNIC); Giovanni Seppia (EURid); Amelia Andersdotter (CENTR)

	Impact category	Unit
Energy	Electricity office	kWh/year
	Electricity data centre	kWh/year
	Heating	kWh/year; litres fuel
Inputs	Paper	kg/year
Waste	Paper	kg/year
Mobility (commuting)	Car	Car km/year, by type of car
	Train	Passenger km/year
	Bus	Passenger km/year
Business travel	Airplane travel (exclude EU-ETS flights from compensation)	km/year, by type of flight (long, medium, short)
	Car	litres fuel
	Train	km/year
Capital goods	Buildings (optional, but required for compensation)	m ² floor surface area
	Parking area (optional, but required for compensation)	m ² parking area
	ICT-hardware	Euro, or number of computers and ICT-equipment
	Company cars	Amount of cars converted in weight kg
Refrigerants	Cooling systems	Cooling power (kW)

Step 2: Reduce your carbon footprint

- Try to prevent CO2 emissions by looking at alternatives. For instance:
 - Digital meetings when possible (e.g. CENTR remote participation tool for meetings, ...),
 - Extension of the depreciation period and lifetime of equipment (IT, office, ...),
 - And/or
 - "Green" - carbon neutral alternatives
 - Green electricity for your office,
 - Electrical vehicles, green hosting for your website,
 - And/or
 - Alternatives with a smaller carbon footprint
 - Local sourcing of consumables,
 - Train in stead of plane,
 - Bike to work.

Step 3: Compensate

- Carbon offsetting **compensates for your emissions by funding an equivalent carbon dioxide saving elsewhere.**
- Many of the carbon offsetting projects **also provide wider benefits** in addition to carbon reduction, such as biodiversity, education, jobs, food security and health & well-being in developing countries.



Historical CO2 emissions - adaptation

- Do not forget your historical CO2 emissions. From the start of your registry to the first year you compensate.
- Adaptation projects:
 - Projects that better protect vulnerable groups from the impact of climate change. Climate change has an impact on public health and quality of life through extreme weather phenomena (e.g. heat waves, floods, droughts) and infectious diseases (e.g. spread of pathogens by mosquitoes and ticks).
- Examples:
 - Against Malaria Foundation: <https://www.againstmalaria.com>

Step 4: Communicate

- Communicate your environmental efforts/actions.
 - Upgrade your profile with your stakeholders (internal & external).
 - E.g. in 2018 DNS Belgium was elected as climate ambassador by the chamber of commerce.
 - EURid social media posts about our green efforts have the highest engagement rates.
 - Inspire others to start assessing their carbon footprint (staff, suppliers, registrars, ...).
 - Consider the positive effects on staff: people are proud to work for your company.
 - Take into account that in the future this kind of efforts will become mandatory for some companies
 - EU legislation is already being prepared for this.





Sustainability: Thank you for your attention

Reach out to the sustainability@centrlists.org team:

Arnaud Recko (DNSBelgium)

Charlotta Flodin (The Swedish Internet Foundation)

Virginie Navaille (AFNIC)

Giovanni Seppia (EURid)

Amelia Andersdotter (CENTR)

Thank you for your attention and be in touch!