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Sustainable operations in the network industry

Nicol Nógrádi
15.11.2022

AGENDA

- Relevance for Industry
- Terminology
- Road to Net Zero
- Main Pillars



[..] GREENHOUSE GAS REDUCTIONS [..], AND THE QUALITY OF PLANS TO MEET THEM, ARE CRITICAL TO THE LONG-TERM ECONOMIC INTERESTS OF YOUR SHAREHOLDERS.

– Larry Fink, CEO BlackRock

SCIENCE NEWS

SEPT. 10, 2021 / 4:40 PM

Global computing's carbon footprint is bigger than previously estimated

By Brooks Hays



Oregon Tech

As Amazon expands in eastern Oregon, regional carbon emissions soar

Updated: Sep. 06, 2022, 5:16 p.m. | Published: Sep. 06, 2022, 7:02 a.m.

The carbon-belching ICT sector must do better on the environment



Morris Lore
IAIN MORRIS,
News Editor

9/2/2022

Vodafone previously claimed to have one such biogas

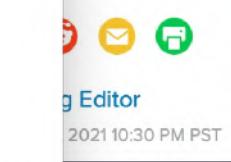
By early 2023, UK energy bills will be so high that most families will be burning furniture outside their front doors just to stay warm affordably. After a blistering summer, the energy crisis in the UK and other parts of Europe – caused by a cocktail of blinkered government regulation, lockdowns designed to halt the spread of COVID-19 and war in Ukraine – has galvanized the search for efficient, climate-friendly and politically acceptable alternatives to Siberian gas. In the telecom industry, whose operators spend about 5% of their operating expenses

on energy, it is a good time to be trotting out the "net zero" slogan and showcasing the shit-powered basestation.

OPINION

Sustainability in the tech industry: The hidden problem and how to tackle it

Businesses are constantly innovating towards a better tomorrow—to compete, win customers, and expand into new territories. However, to exist and grow in tomorrow's world, organisations must adopt sustainability. Priyanka Roy, enterprise evangelist, ManageEngine outlines the steps that businesses in the IT sector can implement to adopt a sustainable approach.



g Editor
2021 10:30 PM PST

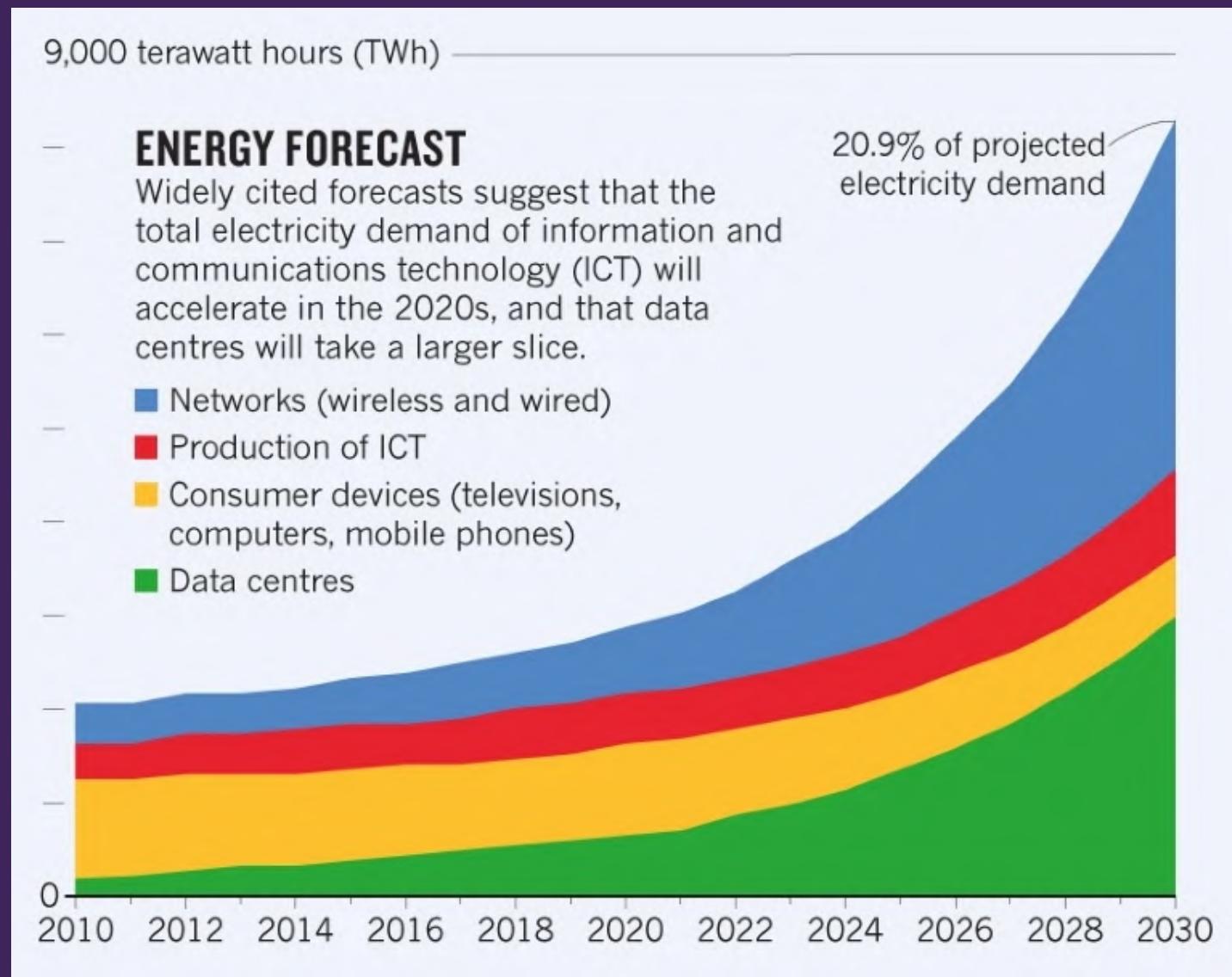
The trouble with data center energy figures

Here's how to get reliable energy data - and why we badly need it

September 22, 2022 By: Peter Judge Comment

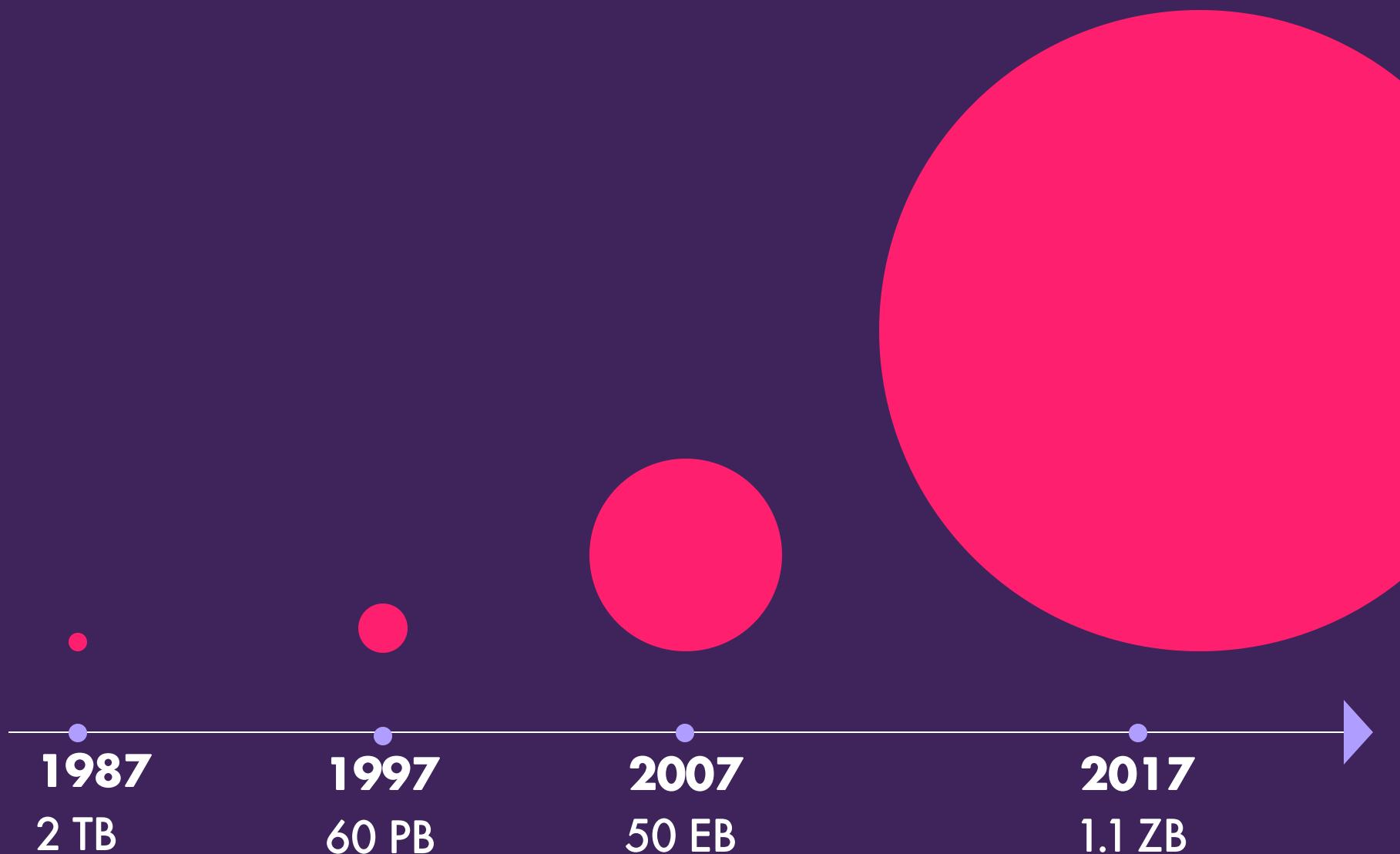
PROJECTIONS

EXPECTED CASE



by Anders Andrea, specialist in sustainable ICT

EXPONENTIAL GROWTH IN TRAFFIC



Source: nature.com

WHAT WE SEE IN THE INDUSTRY



Wide range of commitment goals



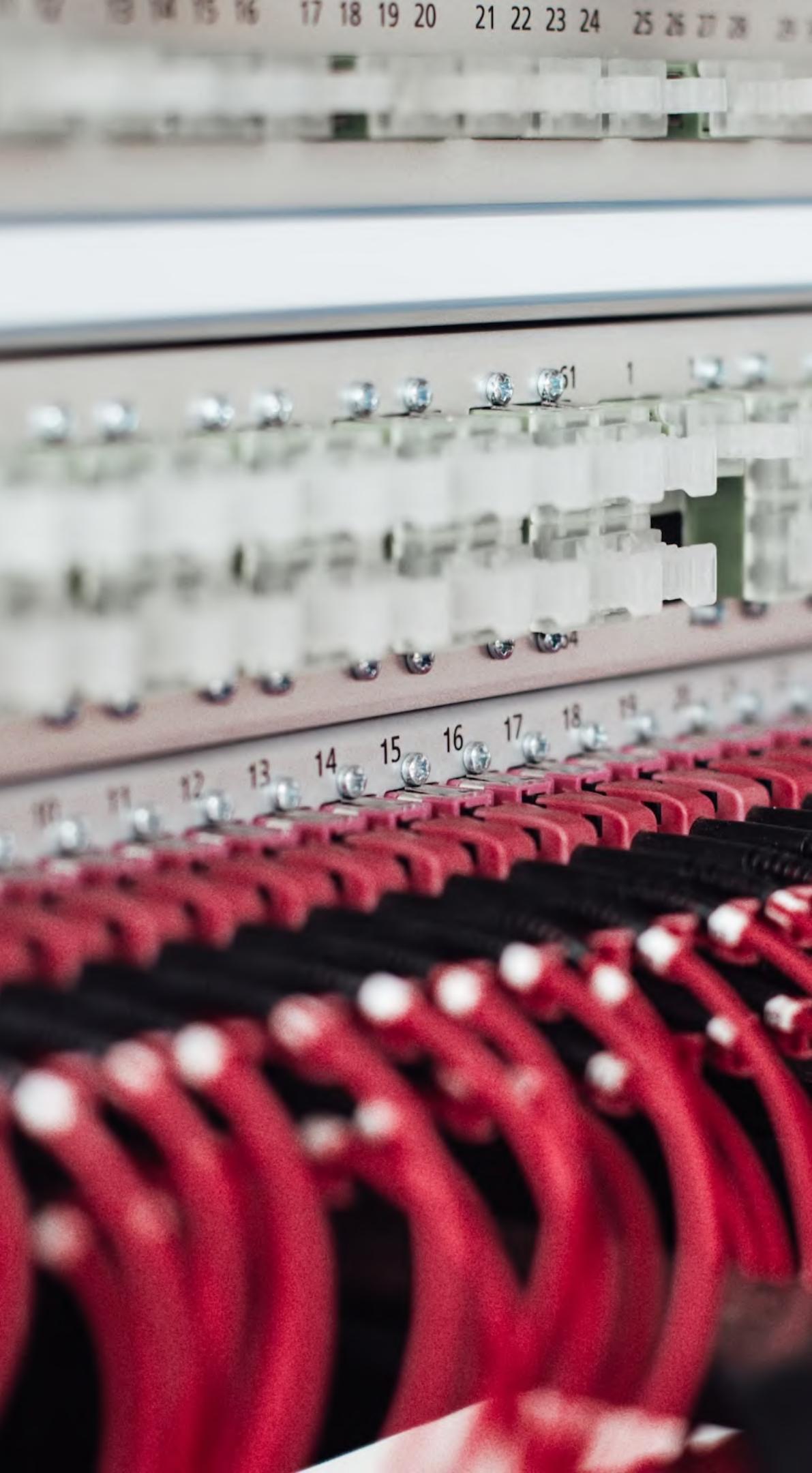
Great variety in available reports



Uptick in interest and knowledge about the topic



Associations dedicated to the topic



SHIFTS IN THE MARKET



Regulatory changes



Consumer pressure



Financing by investors



Employee expectations



Company value increase



REGULATIONS



EU Taxonomy



CSRD



EU Supply Chain Law



National Climate Regulations



CLOSER LOOK AT REGULATIONS

EU Taxonomy

- > 500 employees and/or Financial market participants
- Application date January 2022/23
- Sustainable economic activity defined by 6 environmental objects
- Basis for attracting higher investments

CSRD (CORPORATE SUSTAINABLE REPORTING DIRECTIVE)

- > 250 employees and/or > €40M Turnover and/or > €20M Total Assets + Listed companies (49,000 companies affected)
- Application date FY 2023
- Compulsory 3rd party auditor
- Additional reporting requirements





WHERE DO WE START?

DEFINITIONS

CARBON NEUTRALITY

"is taking steps to remove the equivalent amount of CO₂ to what's emitted through activities across their supply chains, by investing in 'carbon sinks' that absorb CO₂." - National Grid

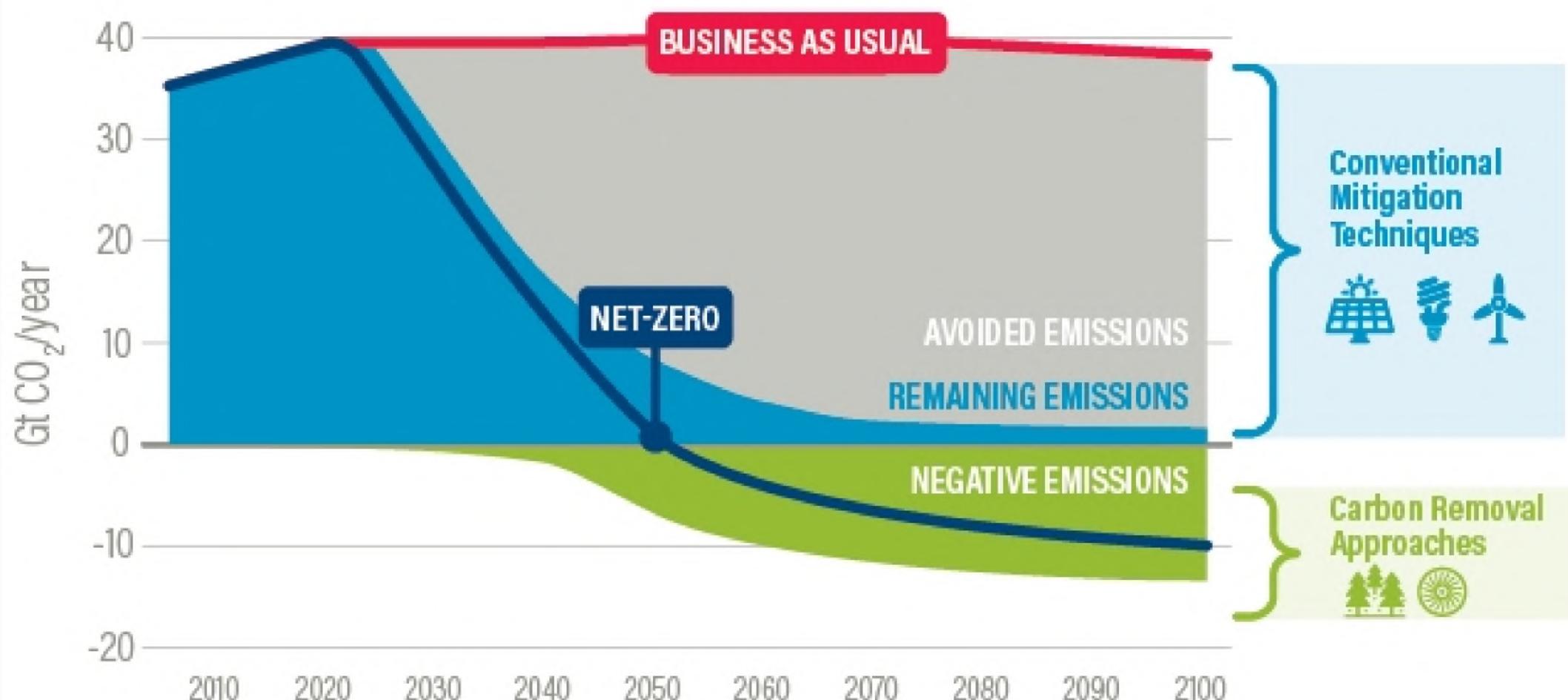
NET ZERO EMISSION

"means cutting greenhouse gas emissions to as close to zero as possible, with any remaining emissions re-absorbed from the atmosphere, by oceans and forests for instance." - United Nations, Climate Action



WHAT IS NET ZERO

Staying Below 1.5 Degrees of Global Warming



Source: Adapted from IPCC 2018.

20.05.28



WORLD RESOURCES INSTITUTE

Global warming should not be higher than 1.5 Celsius above pre-industrial levels for livable planet



Paris Agreement

Emissions reduced by 45% by 2030 and reach net zero by 2050.



EMISSION CATEGORIES

Scope 1

- Directly controlled by company
- Emissions of owned assets
- Eg. burning fuel via vehicles

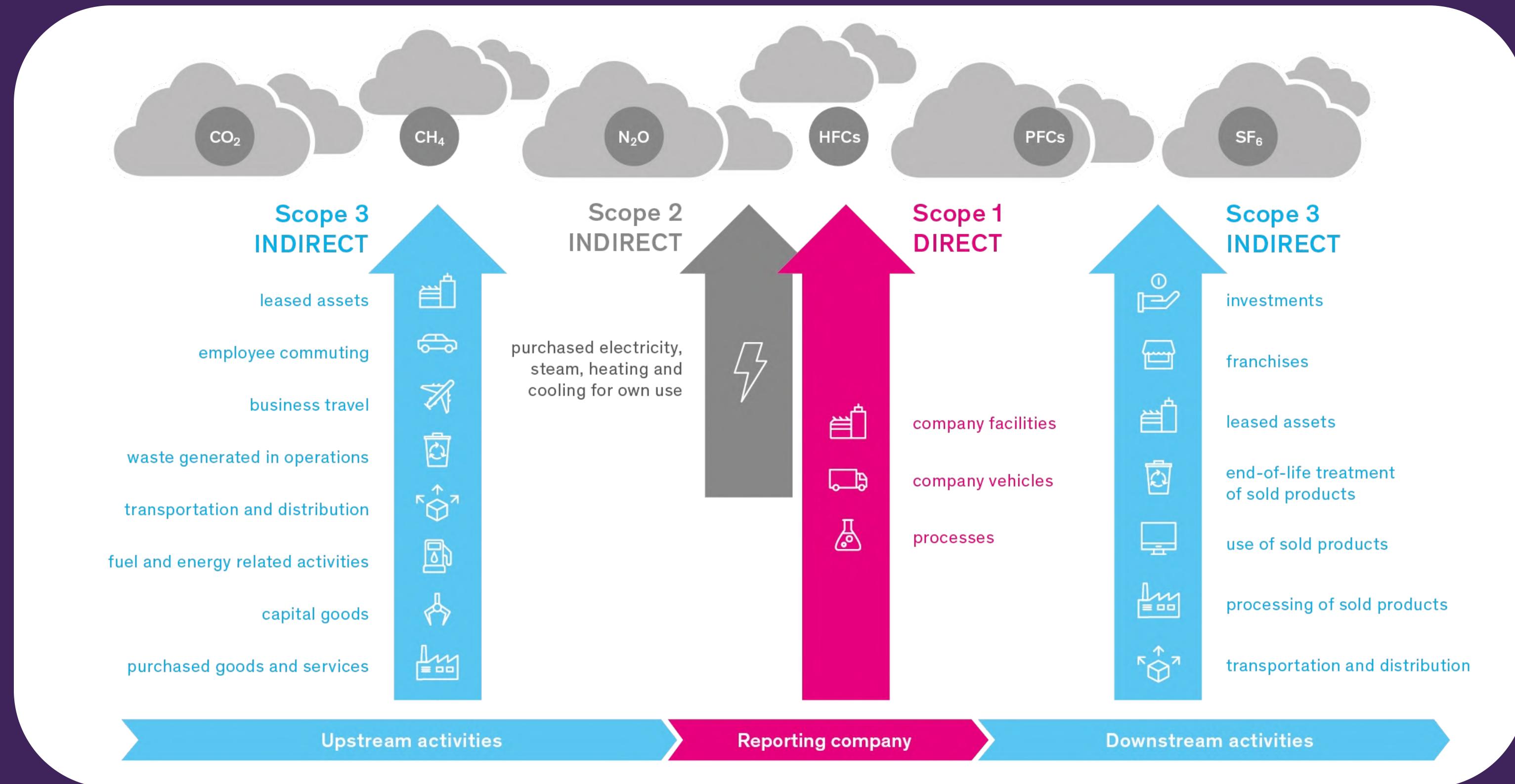
Scope 2

- Indirectly controlled by company
- Emissions from the purchased & used energy
- Eg. electric vehicles

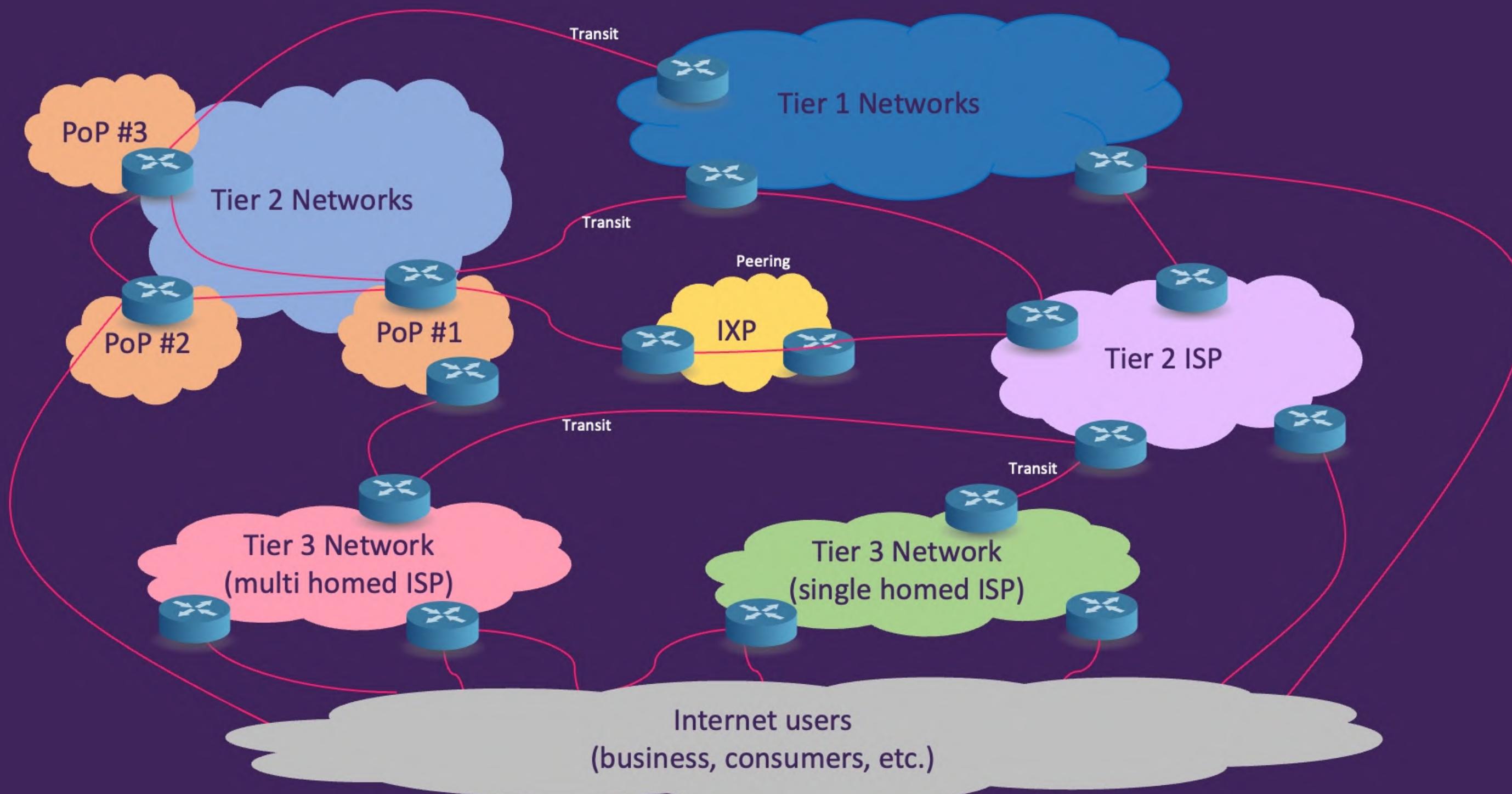
Scope 3

- Indirect responsibility
- Emissions from the value chain
- Eg. purchase and disposal of goods

SCOPE OVERVIEW



INTERCONNECTED INDUSTRY



MARKET PLAYERS

CARRIER

ISP

HOSTING

DATACENTERS

ENTERPRISE

CDN

ROAD TO NET ZERO



ROAD TO NET ZERO

MONITORING

REPORTING

**REDUCTION
TARGETS**

VALIDATION

CERTIFICATION

CERTIFICATIONS

Certified



B Corporation

Governance
Workers
Environment
Community



SME Climate Hub

Public Commitment
Helpful resources
Joining a community
UN Race to Zero



ISO Certificates

Additional recognition
ISO 9001
ISO 14001
ISO 27001



FOR THE PLANET®

1% for the Planet

Philanthropic activity
Positive impact

WAY TO NET ZERO

MONITORING

REPORTING

**REDUCTION
TARGETS**

VALIDATION

CERTIFICATION

VALIDATION



Identifying key players and stakeholders



Data collection of processes & industry benchmarks



Define clear, measurable and actionable KPIs



ESG reporting and disclosure platforms



BENEFITS



Clear roadmap and strategy



Increased transparency for all stakeholders



Compliant with regulations & reporting standards



Being aware of ESG risks & costs



WAY TO NET ZERO

MONITORING

REPORTING

**REDUCTION
TARGETS**

VALIDATION

CERTIFICATION

GUIDERAILS FOR THE ROAD AHEAD



SET YOUR TARGET

- SBTi
- Carbon Neutral by...
- Net Zero by...



MANAGEMENT

- Align management on the goals
- Discuss reporting areas and processes
- Conscious vendor choice



COMMUNICATION

- Prepare team for acting on report results
- Transparent transformation
- Engagement across the whole business



WAY TO NET ZERO

MONITORING

REPORTING

**REDUCTION
TARGETS**

VALIDATION

CERTIFICATION

ESG REPORTING FRAMEWORK



ENVIRONMENTAL

- carbon emissions
- climate risks
- energy efficiency
- use of natural resources
- pollution and biodiversity



SOCIAL

- diversity, safety
- human capital
- labor regulations
- human rights
- community involvement



GOVERNANCE

- board diversity
- corruption and bribery
- business ethics
- compensation policies
- general risk tolerance

CHOOSE YOUR ESG FRAMEWORK

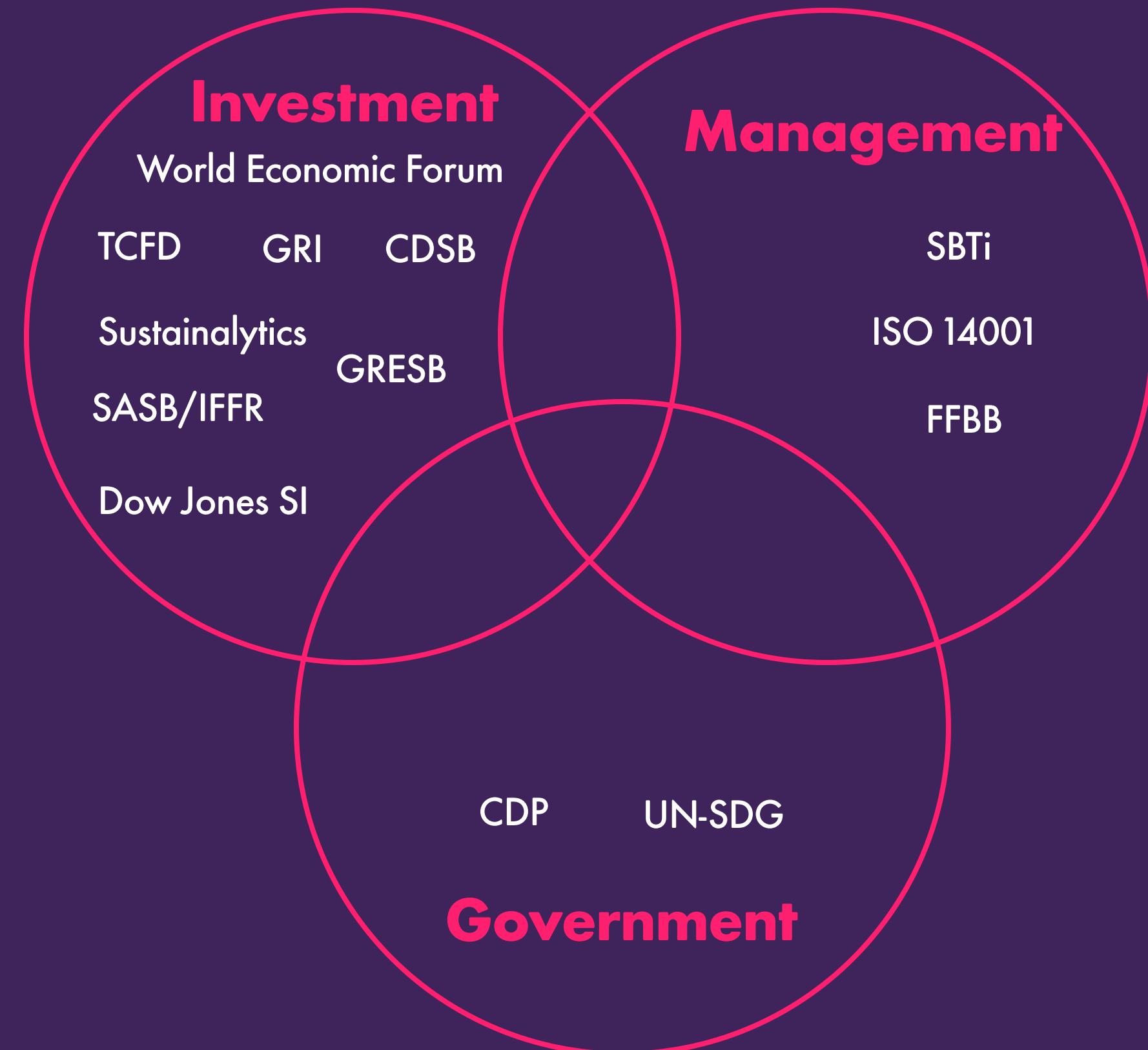
Industry

Geography



Company type

Stakeholders



EFFECTIVE REPORTING



Concise

Focus on priorities and material information



Consistent

Assess performance over time and gain insights



Current

Insights into operations and business opportunities



Comparable

Benchmarking against peers and tracks impact and improvement

Verifiable



REPORTING

INTERNAL

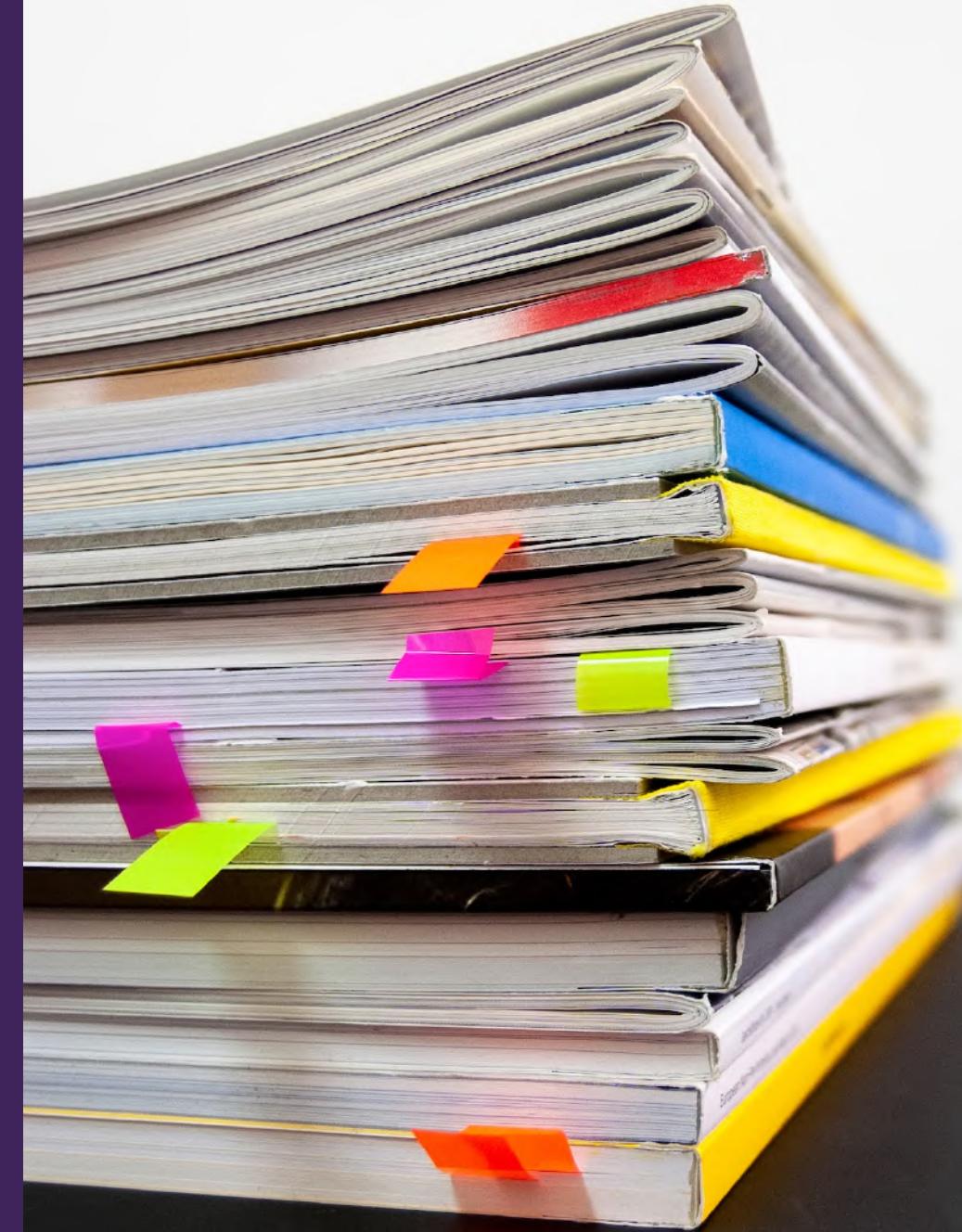
Internal Software

Sustainability Manager

EXTERNAL

Consultancies

Partners



WAY TO NET ZERO

MONITORING

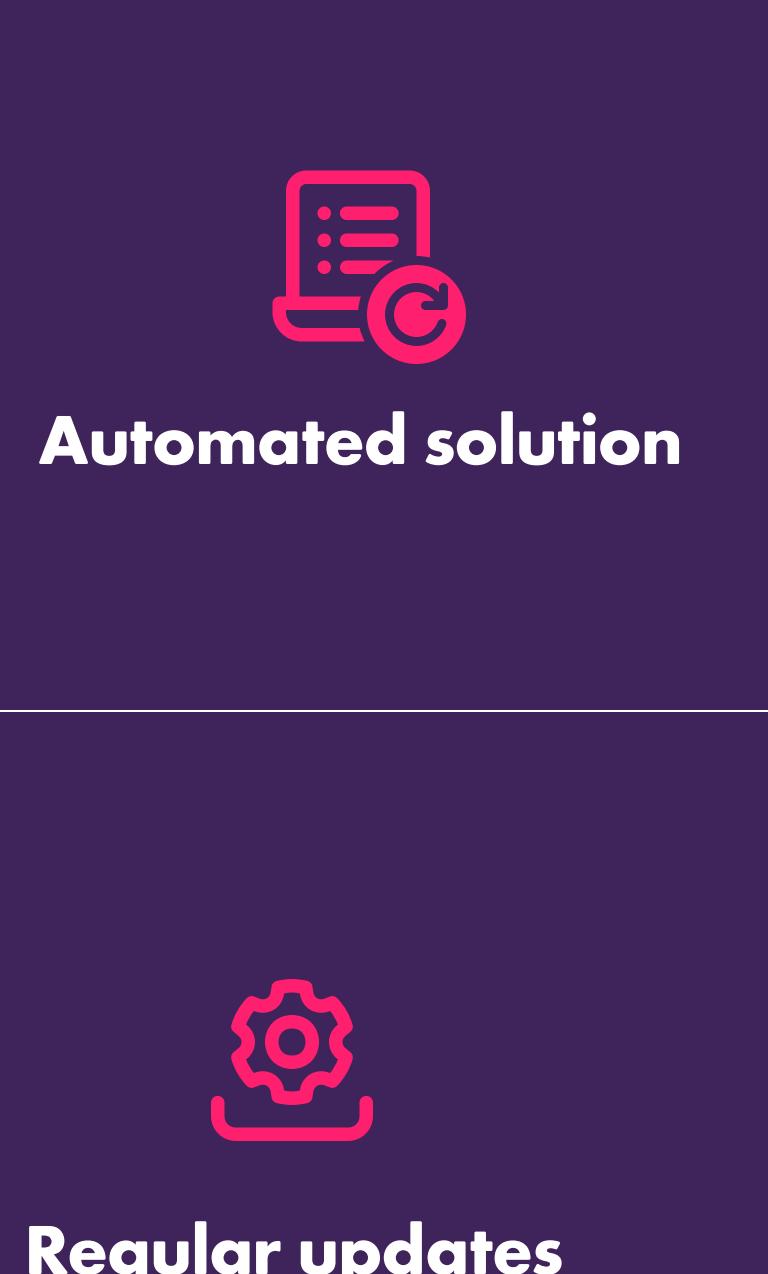
REPORTING

**REDUCTION
TARGETS**

VALIDATION

CERTIFICATION

MONITORING



CARBON MARKET

MARKETPLACES



REGEN
NETWORK



goodcarbon



LIKVIDI

Sustaim

CEEZER

OFFSET PROVIDERS



think+go climate conscious
atmosfair



Taking Root

Pachama

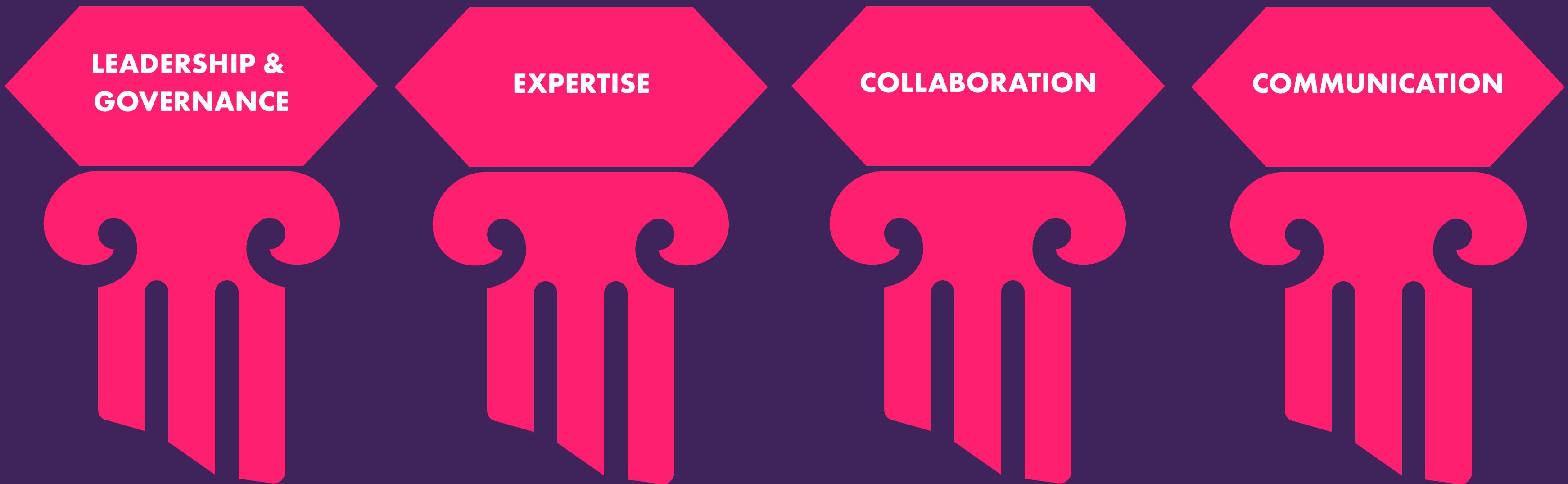
REFORESTUM



biodivercity



MAIN PILLARS OF SUSTAINABLE STRATEGY



OUTLOOK FOR INTERLINK





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Inter.link, the leading, sustainable Global Network Service Provider. Thank you.

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