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Orange
Innovation

Road for NetZero

How to achieve this target while maintaining business and introducing new technologies

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Before starting

NetZero is a challenging objective that impose a transformation of our industrial processes → Start ASAP

Transformation is going with Networks renewal (5 to 10 years) and new technologies rollout (10 years) → don't miss the milestones!

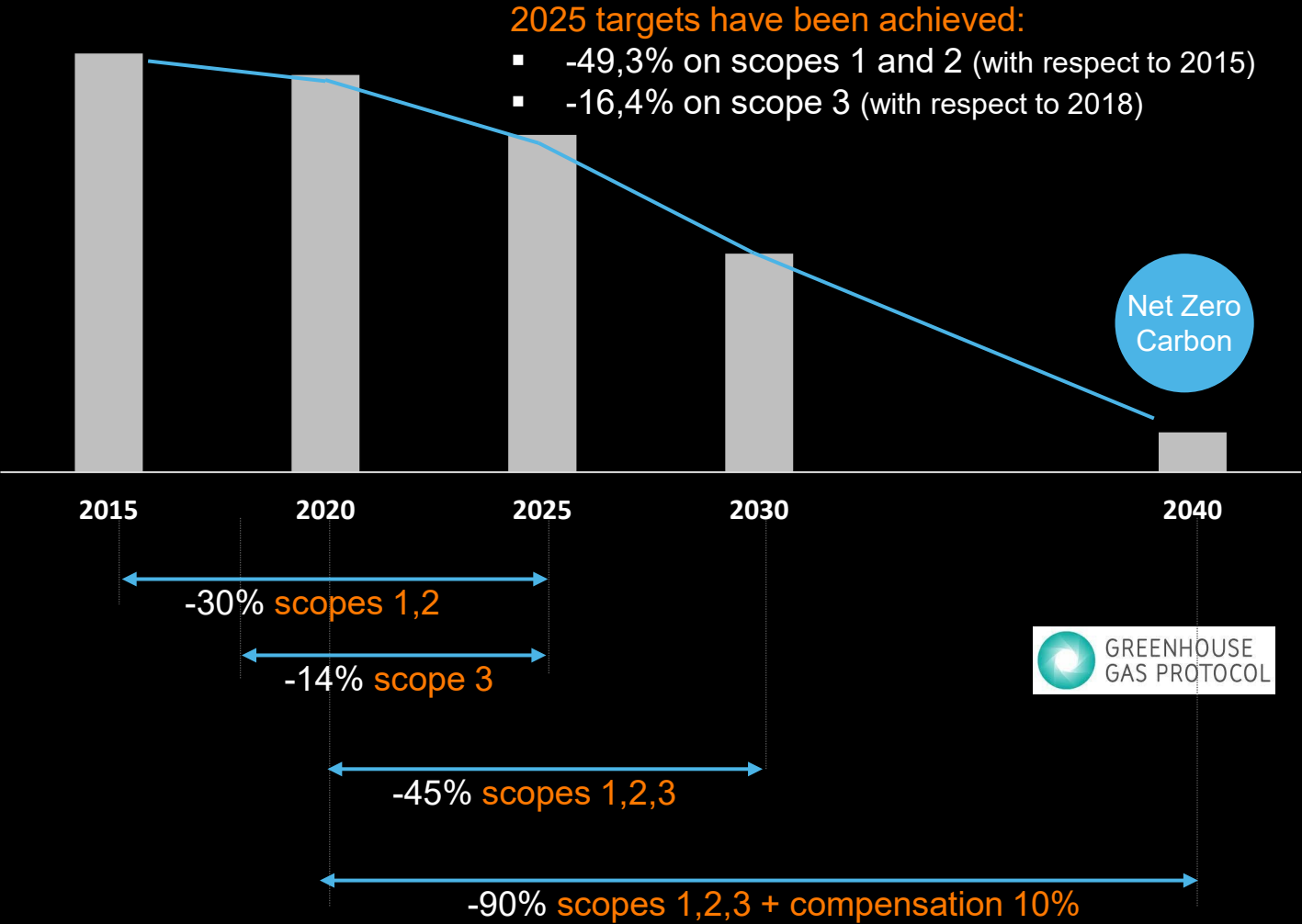
Telco environmental impact is strongly related to products manufacturing and services (80%CO2 is scope3) → scope3 is our procurement business

NetZero trajectory should be elaborated since now to identify levers and define a strategy

With 2030 Strategic plan « Trust The Future », Orange confirms engagements to reduce environmental impact in line with Net Zero

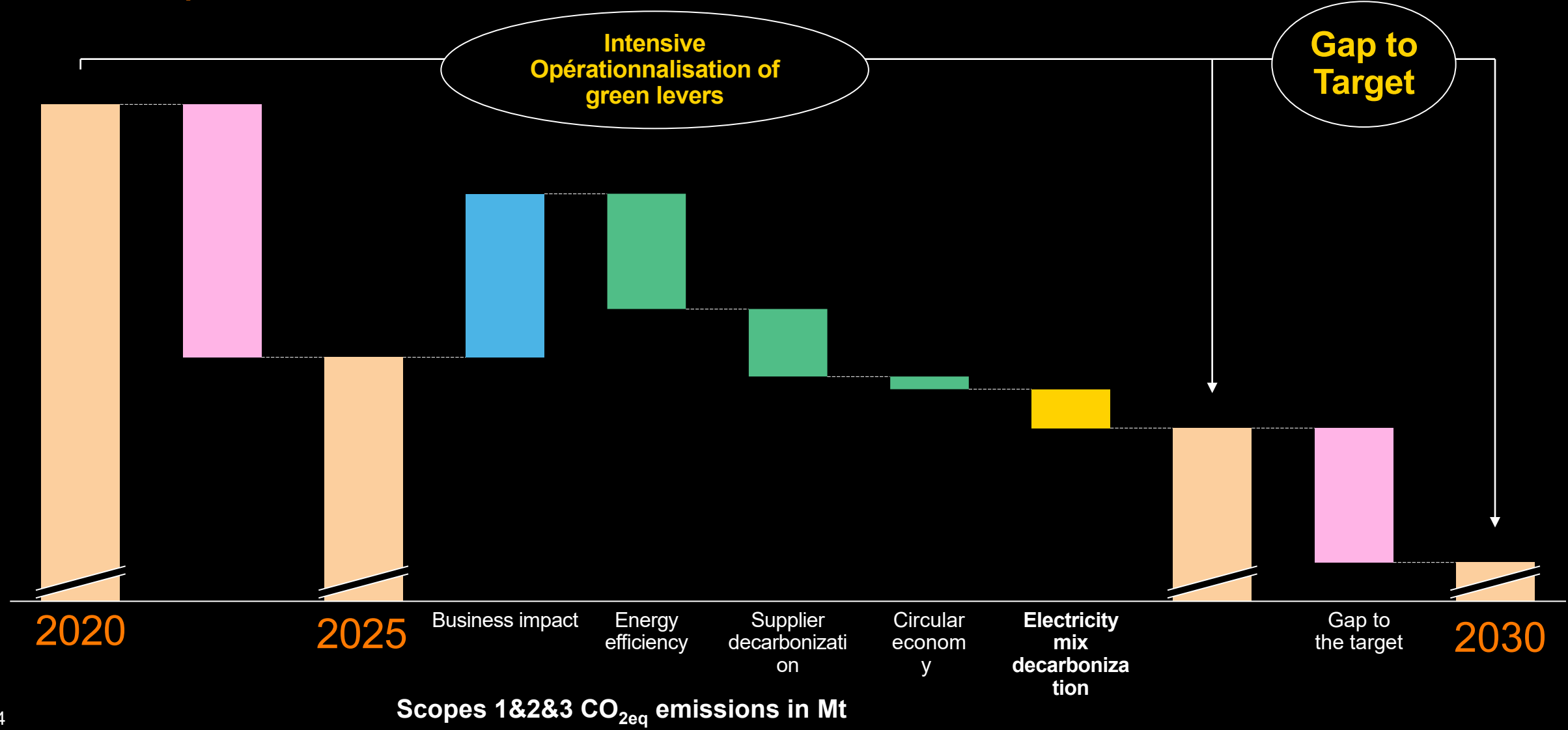


For the planet, this means reducing Orange's environmental impact, with the goal of achieving Net Zero Carbon by 2040 and an intermediate milestone of reducing greenhouse gas emissions by 45% by 2030 (compared to 2020 levels).



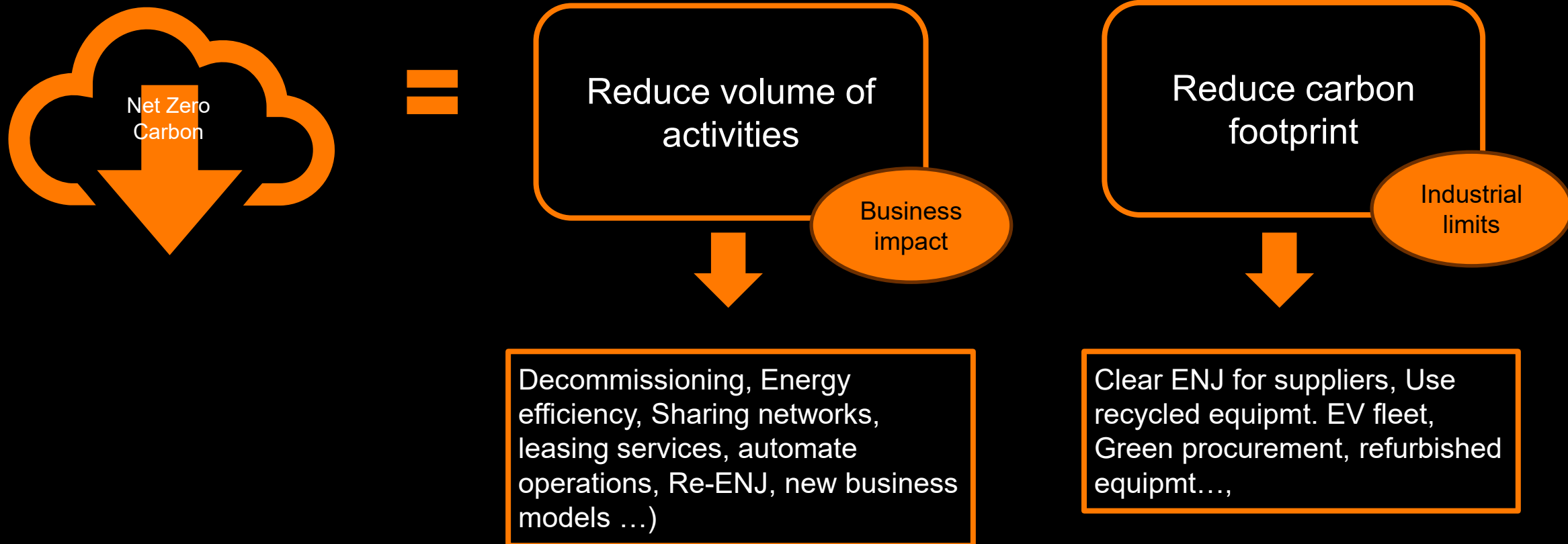
A target set at a corporate level

But the path to achieve 2030 milestone still challenging based on current business previsions and decarbonization levers

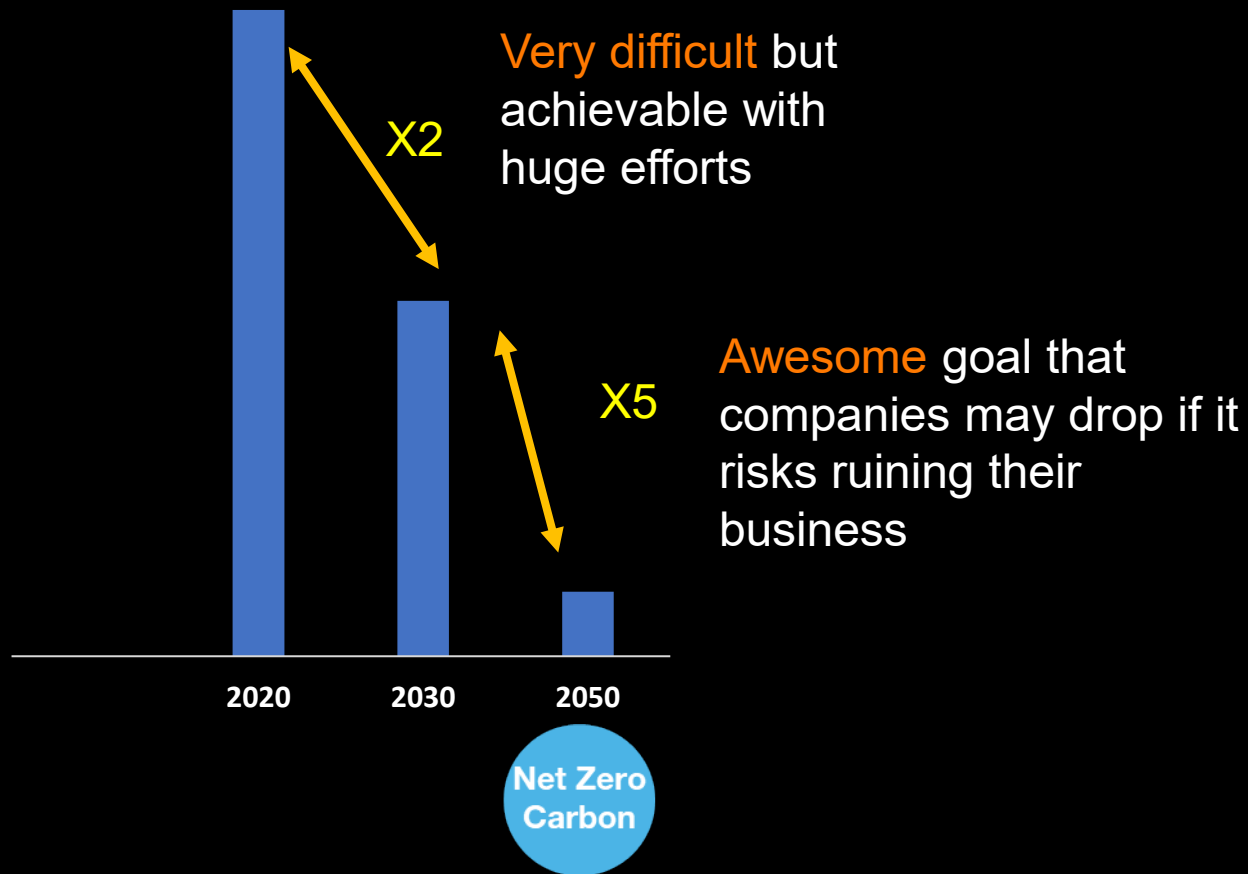


The problem is systemic to the global decarbonization equation

$$\begin{array}{ccccccc} \text{Total Emissions} & = & \sum & \text{Volumes of activities} & \times & \text{Emission factor} \\ (\text{kgCO}_2\text{e}) & & & (\text{quantités, kWh, k€}) & & (\text{kgCO}_2\text{e}) \end{array}$$



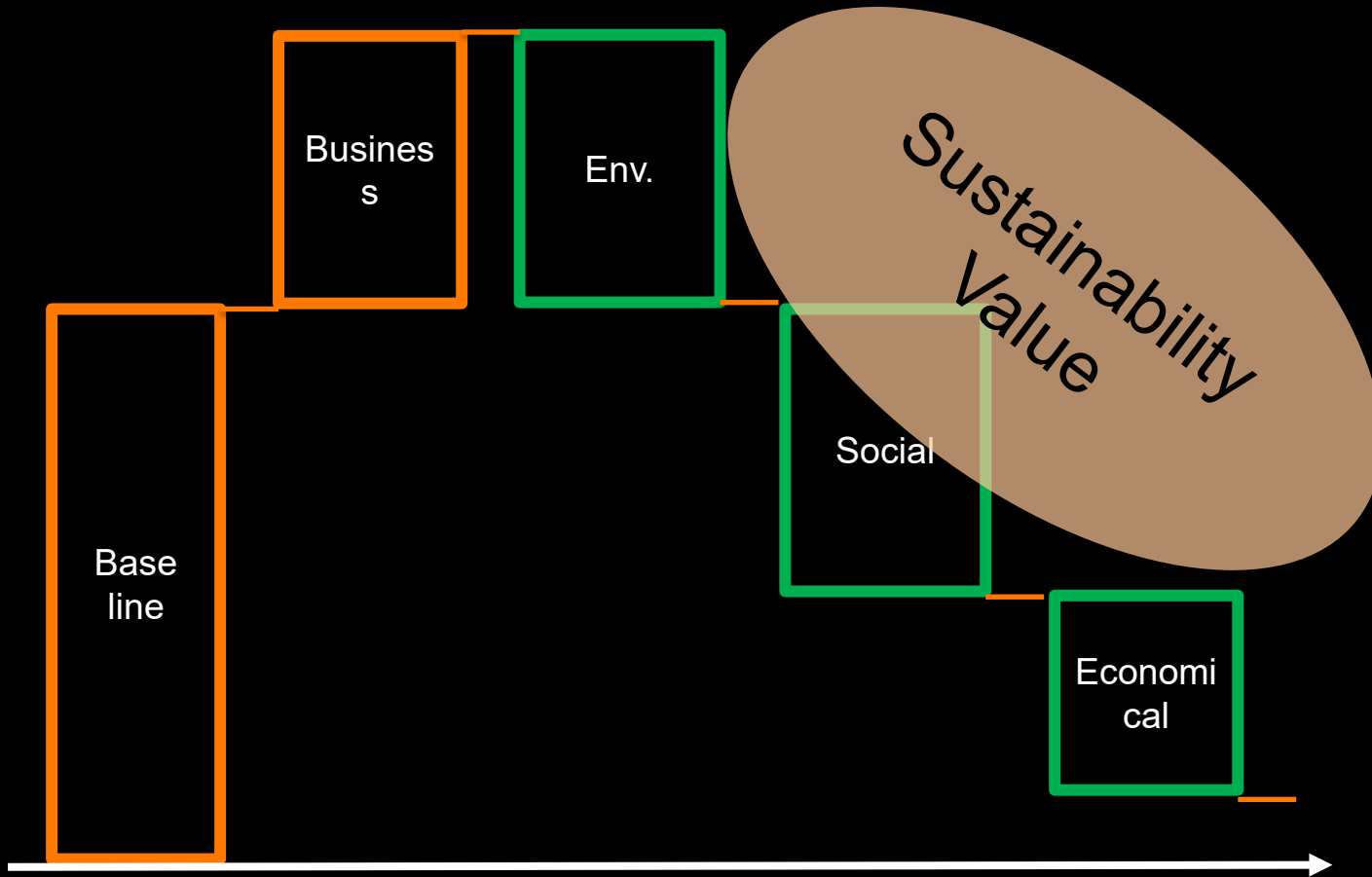
The roadmap to 2050-NetZero



The **NetZero** trajectory should take into account all the **value** generated by industry to moderate the environmental impact :

- ✓ Env
- ✓ Social
- ✓ Economical

A proposed solution could be to achieve NetZero considering the 3 sustainability value pillars

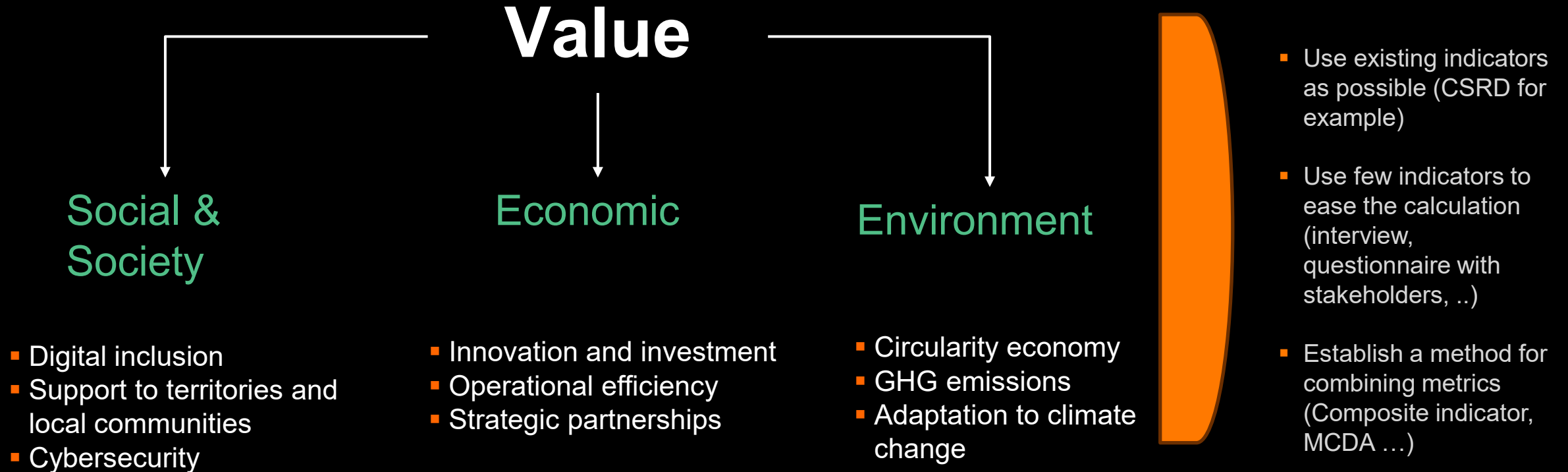


The Sustainability value including environment, social and economical impacts have defined and evaluated through Key Value indicators (KVI) that

:

- Use existing indicators
- Mix performance with social impact
- Estimate the value
- Move from KPI to KVI

First proposal for Sustainable Value assessment



Ongoing Initiatives

Research activities



6G Use cases

Consulting companies

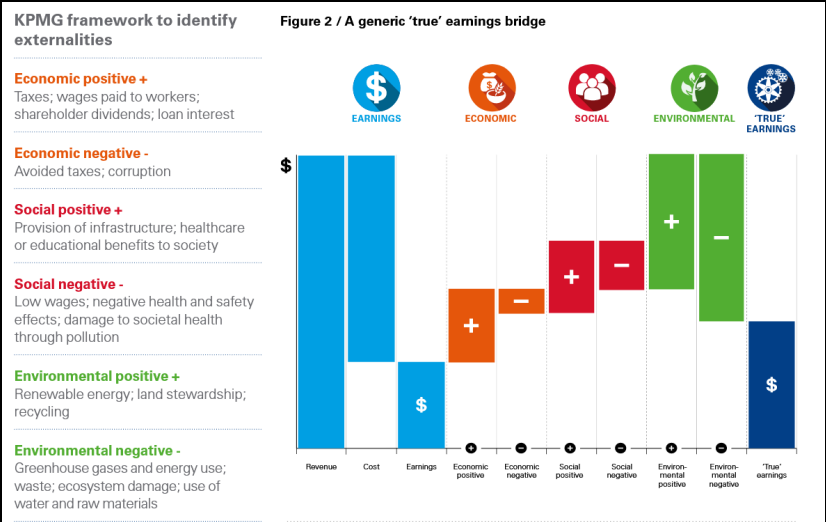


Scoring and ranking

Standardization



Technology features for monitoring



Overview of top five scoring telcos

	Holistic sustainability reporting	Board and employee incentives	Net-zero progress	Green finance	Inclusion, diversity and governance	Commitment to biodiversity	Enablement	Collaboration
1	4	5	4	5	5	4	3	5
2	4	5	4	1	4	4	5	5
3	4	4	4	5	3	3	5	5
4	4	4	4	3	4	3	4	5
5	4	3	5	4	4	2	5	5

Score: 5 4 3 2 1

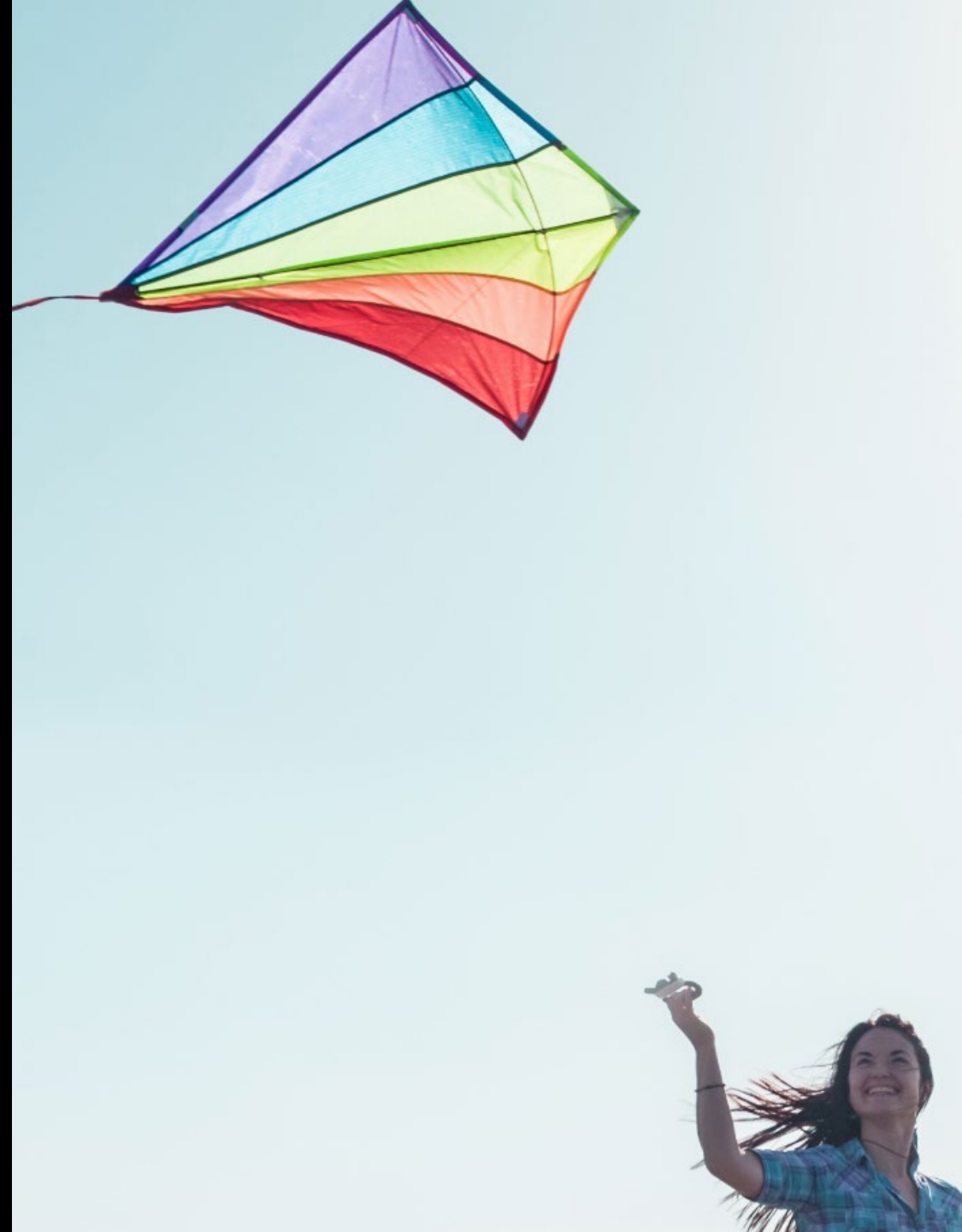
Main messages

- 1 Network resilience and availability must be preserved, given their critical social and geopolitical role.**
- 2 The transition and NetZero is already challenging, and decisions made today must remain relevant beyond 2030.**
- 3 Sustainability must be win-win, combining environmental benefits with operational and business value.**
- 4 Sustainability must address environmental, social and economic impacts together.**
- 5 A robust measurement framework is needed to steer trade-offs and demonstrate the value created.**

MERCI



Orange Restricted



CSRD (Corporate Sustainability Reporting Directive)

 Objective:

- Reinforce sustainability reporting requirements
- Greater transparency on socio-environmental issues
- Enable comparability between different players

DPEF 2023 towards CSRD 2024: For its 2023 publication, Orange has changed the general structure of its DPEF in order to anticipate and prepare for the future reporting framework resulting from the new European directive applicable as of reporting 2024.

Assessment of **ESG impacts, risks and opportunities** in accordance with **double materiality principle** for identify **ESRS** who will be report.

Each issue in the matrix has been classified according to the ESRS theme to which it most closely relates.

 Of the 25 issues assessed, **12** were considered very significant for Orange

ESRS (European Sustainability Reporting Standards)	
	Environment (5)
	Social & Society (6)
	Governance (1)