

### What is the GBS?

- GBS = Global Biodiversity Score
- · Biodiversity footprint measurement tool
- Developed by CDC Biodiversité (France)
- Objective: provide a standardized biodiversity footprint score for a company or portfolio of companies
  - Includes key pressures on biodiversity
  - Covers the terrestrial and freshwater aquatic domains
- Uses MSA.km<sup>2</sup> (mean species abundance) as a unit of measurement
  - This measure takes into account the fact that biodiversity loss is related to the intensity of economic activity, and represents the impact as a notional area in which 100% of biodiversity is lost
- · Can be used as a tool to set and track biodiversity targets over time



### Which impacts are measured in the GBS?

### Scope 1

Impacts generated in the company's area of influence and caused directly by the company's activities

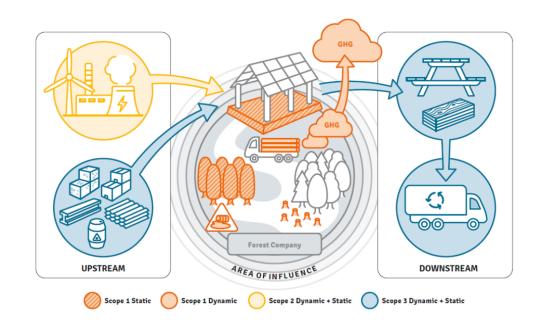
### Scope 2

Impacts resulting from the generation of non-fossil energy (electricity, heat, cold, etc.)

### Scope 3

Impacts of the company's value chain (upstream and downstream)

NB. Only the upstream impact is estimated in the GBS

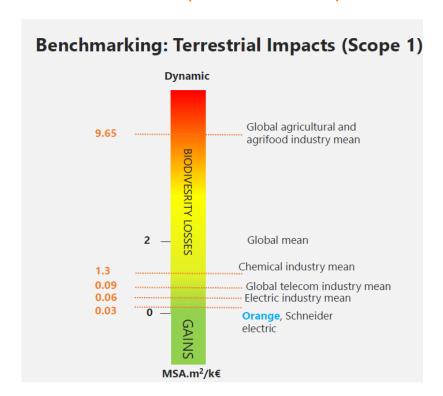


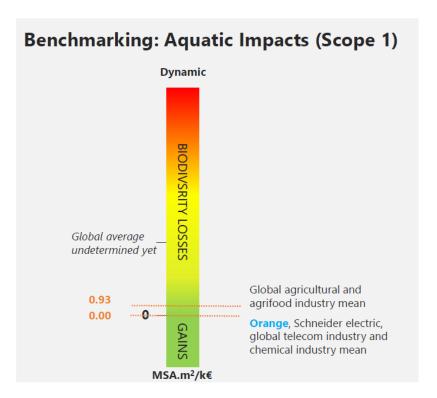
# Estimated Orange biodiversity footprint: summary results - existing impacts based on data collected to date

	Estimated relative impact (MSA.km²)^		Footneint includes	
	Terrestrial	Freshwater	Footprint includes	
Scope 1	12.4	0.1	Impacts linked to the physical footprint of head office buildings for each BU, datacentres, technical infrastructure and commercial buildings (Orange shops) up to and including 2019.     Impacts linked to operation and maintenance (O&M) of these facilities in 2019 only.	
Scope 2	4	0.04	Impacts linked to electricity purchased in 2019 only.	
Scope 3 Upstream:	2,404	83.5		
Mobile phone	35	1.4	Impacts linked to the number of phones <i>sold</i> in 2019 only.	
LiveBox	31	1.6	Impacts linked to the number of LiveBoxes sold in 2019 only.	
Antennae and wooden poles	Up to 2,154	46	Impacts linked to the total number of wooden poles in the Orange network in 2019.	
Copper cables	71	12	Impacts linked to the total quantity of copper cable in the Orange network in 2019.	
Fibre optic cables	3.5	19	Impacts linked to the total quantity of fibre optic cable in the Orange network in 2019.	
Laptop	2	0.1	Impacts linked to the number of laptops used in 2019 only (Number of laptops estimated based on the total number of salaried staff per BU in 2019.	
Server	0.8	0.02	Impacts linked to the number of servers installed in 2020 (no data available for 2019).	
OBS	90	3.4	Impacts linked to OBS services	
Others	16.7	0.48	Impacts estimated by the GBS as upstream impacts of suppliers	
TOTAL (all scopes)	Up to 2,420	84		

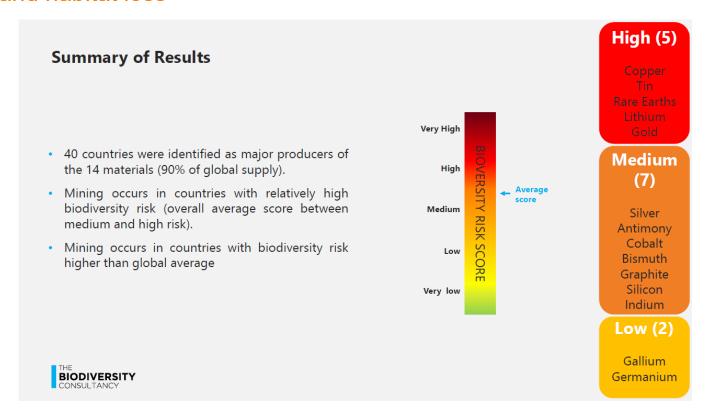
Scope 3 represents more than 99% of the impact

TBC has done a more general benchmark on our request to compare to other sectors and confirm that our footprint is low compared to other sectors





## Results obtained with 4 key indicators : habitat value, habitat intactness, STAR and habitat loss



## Conclusion of the main impacts of the upstream chain

### Main findings

- Of the 14 materials, the biodiversity risk is high for 5 materials and medium for 7 materials, illustrating potential significant risk for biodiversity.
- Depending on the material and the extracting country, the nature and severity of the risk may change.
- Mineral extraction leads to several types on pressure to biodiversity.

### **Implications**

- Whilst there are significant risk, well-planed mining can avoid and minimise impacts on biodiversity: it is critical to ensure materials are sources from mines or companies adhering to best practices and regulatory standards that incorporate environmental criteria. Requesting certification scheme, like IRMA, can help to ensure application of best practices.
- Improving traceability is critical for making informed and actionable decisions in supply chain sourcing.



### Implications of the results for developing coupled actions for climate and biodiversity

Examples of actions to be implemented and opportunities to develop joint climate-biodiversity compensation actions

Type of impact	Impact mitigation	Actions to compensate for impacts	Opportunity to couple with climate actions			
<b>Direct impacts</b>						
Land use	Probably little room to reduce this impact	Any habitat restoration projects in the areas concerned	Yes, if the project includes habitat restoration			
Ecotoxicity	Demonstrate the implementation of good practice to reduce pollution risks; Use of certified materials or application of good practice standards	Specific projects for the restoration of aquatic ecosystems	Yes, if the project includes the restoration of aquatic ecosystems			
Carbon emission	Identify good practice in some units and extend to other units	Carbon project	Yes, if the project is in the impacted areas			
Value chain impacts						
Land use	Use of certified materials or application of best practice standards	Projects in areas from which the materials originate	Yes, if the project is in the impacted areas and contributes to habitat restoration			

<sup>8</sup> Internal Orange Group, prepared by the Group Environment Direction, CSR Group

### Conclusions

The Biodiversity Consultancy study confirmed that the Group's impact on biodiversity is low compared to other sectors.

More than 99% of the Group's biodiversity impact comes from scope 3 and is in particular linked to metal extraction.

The study confirmed that the carbon sink program, with physical sequestration, launched by the Group, must take into account the impacts on biodiversity. The Group's program is expected to include reforestation, new plantations, restoration of soils and species, restoration of mangroves, agroforestry.



