



## Green ICT & Supply Chain in Telefónica

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ITU Green Standards Week  
Paris, France

*Telefonica*

# Agenda

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01

Green ICT @t Telefónica

02

Green ICT & Supply Chain in Telefónica

03

Challenges & Opportunities.



# 01

## Green ICT Strategy @t Telefónica

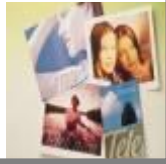


# Global position of Telefónica

June, 2012

Customers

310 million customers



Services

Integrated ICT services for customers



Countries

Presence in 26 countries



Employees

Around 270.000 professionals



CO2 & Energy

Energy: 5,62 TWh  
1,9 mT CO2 e

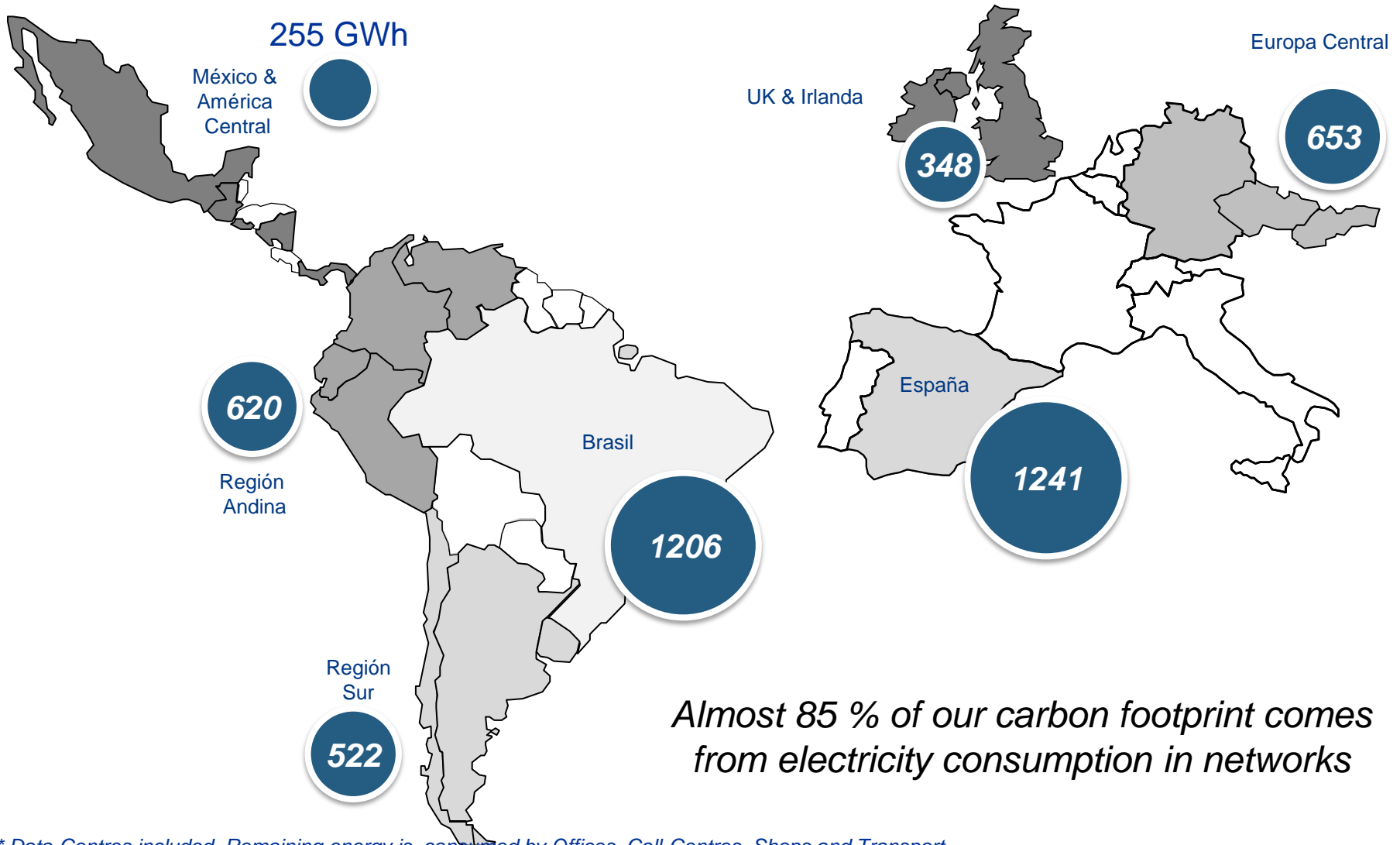


# Global Green ICT Strategy @t Telefónica



# Energy & Carbon Footprint

5,26 TWh in 2011

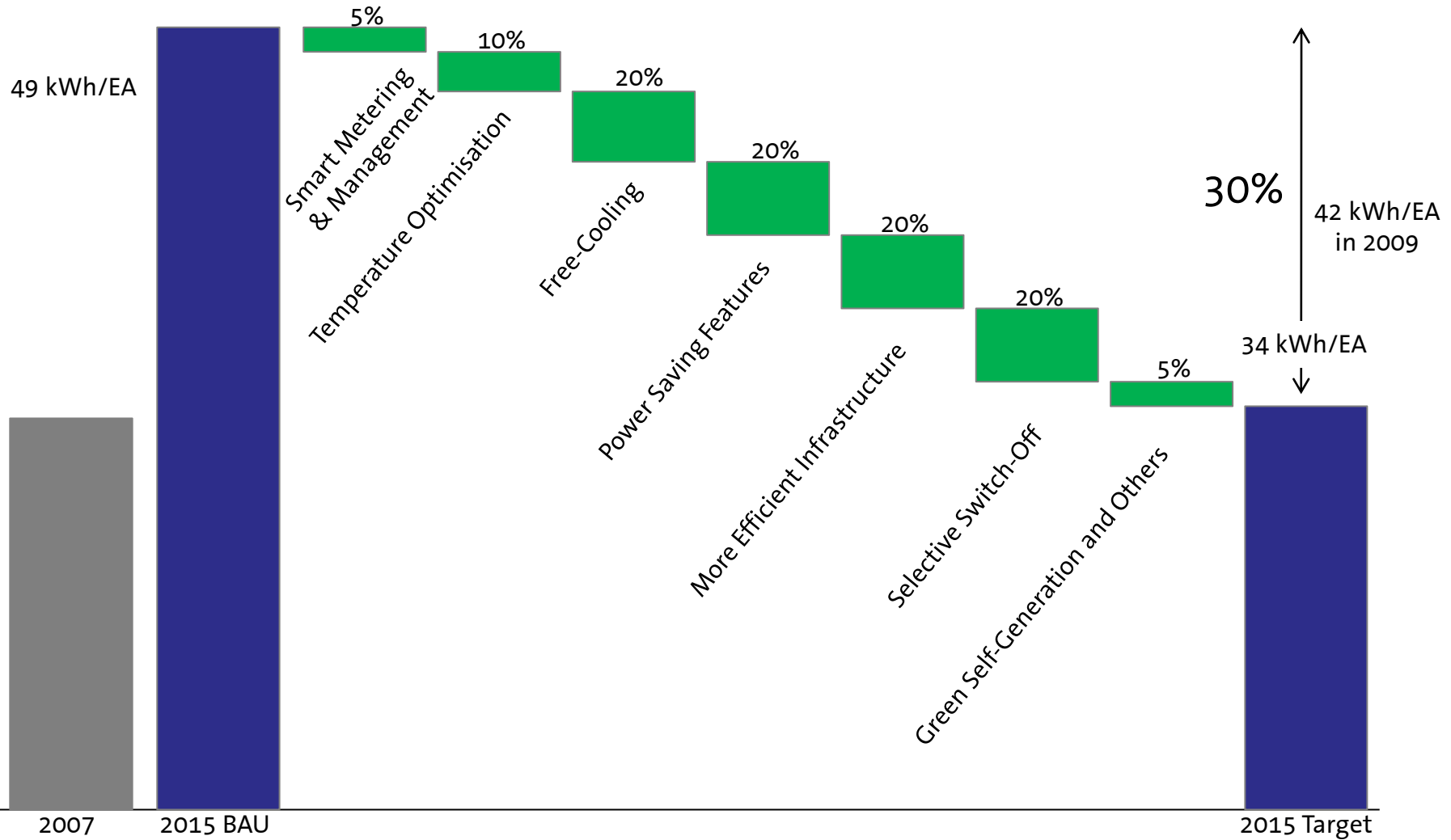


*Almost 85 % of our carbon footprint comes from electricity consumption in networks*

*\* Data-Centres included. Remaining energy is consumed by Offices, Call-Centres, Shops and Transport.*

# GREEN FROM ICT: Energy Efficiency in our operations

(30% consumption reduction in 7 steps)



EA = Equivalent Access, a blend of fixed and mobile connections weighted by their relative power consumption.  
Baseline under review after Vivo inclusion, Manx Telecom exclusion and historical data improvements.

# GREEN BY ICT: Technology Solutions @t Telefónica

To promote products and services with the potential and capacity to lead customers to reduce emissions



Green Technology solutions in Telefónica have to be: measurable, demonstrable, standardized and global.



# 02

## Green ICT & Supply Chain in Telefónica



# Energy & Carbon Footprint

Energy and CO <sub>2</sub> Inventory	Units	2010	2011
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## Energy

Fuel consumption in fleets (gasoline and diesel)	Thousands of litres	24.843	22.485
Biofuel consumption in fleets (ethanol and biodiesel)	Thousands of litres	1.640	926
Diesel consumption in operations and offices	Thousands of litres	18.363	16.010
Natural gas consumption in operations and offices	Nm3	6.623.162	5.413.698
Power consumption in operations	MWh	5.099.303	5.262.272
Power consumption in offices	MWh	770.323	739.671
Generation and purchase of renewable energy	MWh	674.772	740.596

## GHG Emissions

Direct emissions (Scope 1)	tCO <sub>2</sub> eq	126.247	111.516
Indirect emissions (Scope 2)	tCO <sub>2</sub> eq	1.602.769	1.615.529
Other indirect emissions (Scope 3)	tCO <sub>2</sub> eq	39.386	47.295
Emissions saved	tCO <sub>2</sub> eq	244.626	272.034

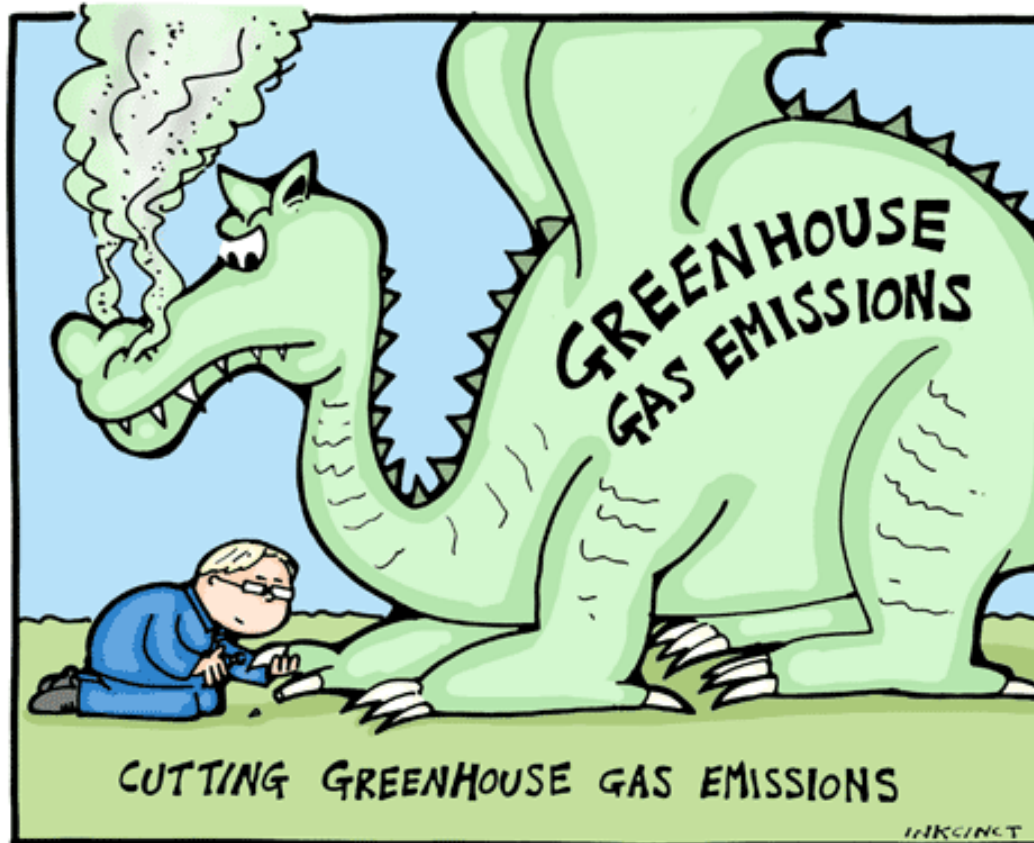
*Inventory based on ISO 14.064, GHG Protocol & ITU-T L.1420*

*CO<sub>2</sub>eq = CO<sub>2</sub>, CH<sub>4</sub> & N<sub>2</sub>O*

*Other indirect emissions due to business trips and fuel consumption in fleet of partner companies*

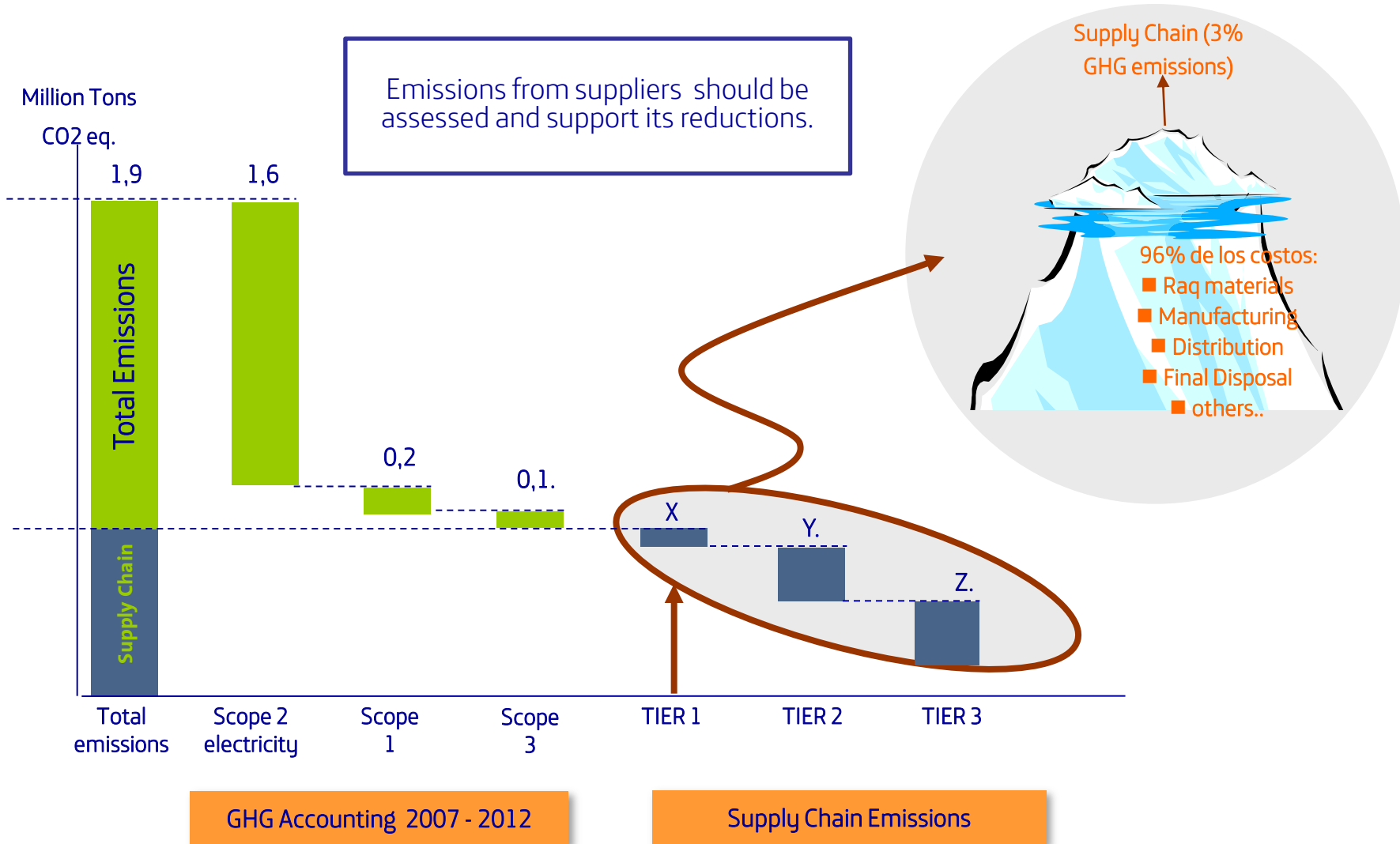
*Emissions saved due to renewable energy generation and purchase*

# What about the supply chain?



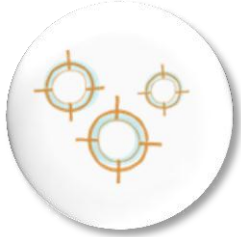
Supply chain environmental impacts have to be identified, prevented, controlled & mitigated.

# What about the supply chain ?



# Green ICT & supply chain in Telefónica

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## Objective

- To identify & reduce the environmental risks associated to our supply chain based in principles of eco-efficiency and sustainability

## Expected benefits

- Reduction of environmental risks
- Accomplishment environmental regulations
- Reduction of costs and identification of new financing models
- Sustainability of business



## Scope

- Global and local goods & services provision
- Scope 3 emissions

# Green ICT & supply chain in Telefónica



## Global policies

- Telefónica environmental policies
  - Meet local environmental regulations.
- Waste Management commitment

i.e → : Standard contract



## Customer products

- Environmental regulations (materials & toxic substances)
- Energy & material management,
  - Waste disposal – recycling responsibility

i.e. → Eco-rating scheme



## Operations

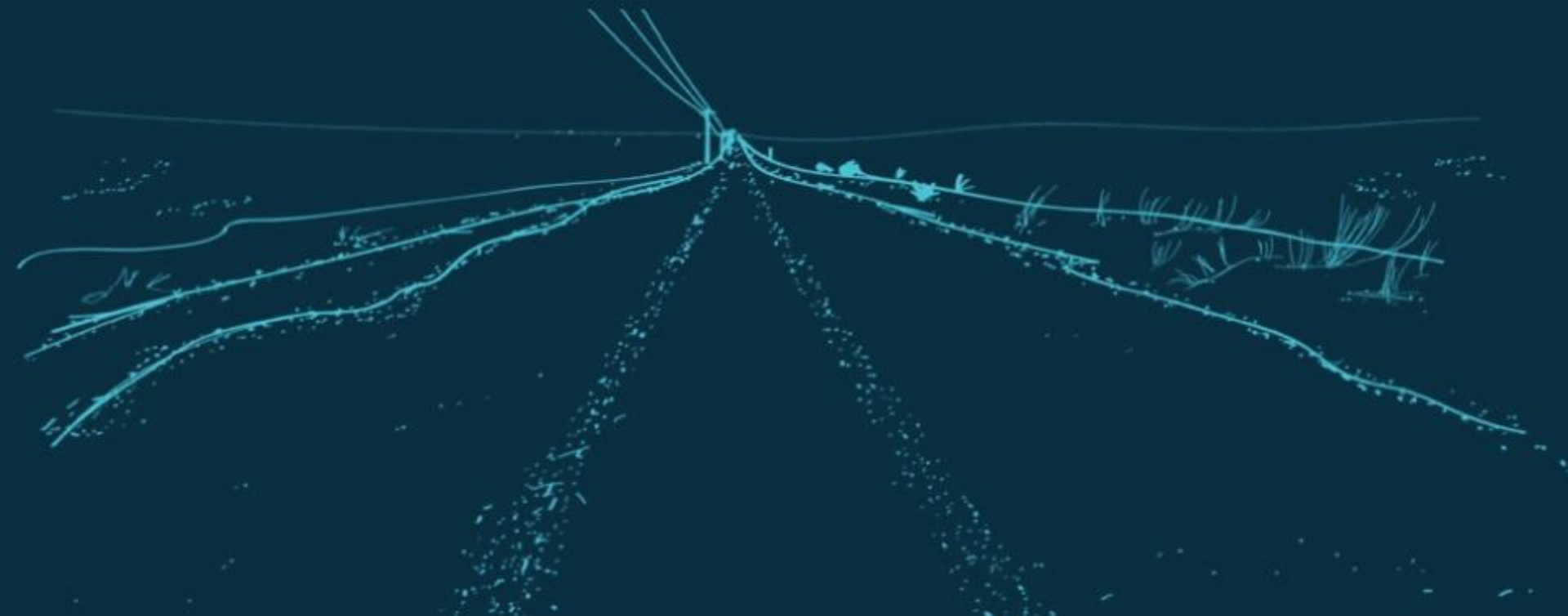
- Global RFPs with energy efficiency requirements
- Total Cost of Ownership (TCO) Analysis
- Certifications for TI Equipment

i.e. → TCO analysis

**Global and local control (environmental audits)**

# 03

## Challenges & opportunities



# Challenges & Opportunities

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## Challenges

- **Complex supply chains**, thousands of suppliers in different markets.
- Control & audit process require annual **budget allocation**
- Meet times to market **of customer products**.

## Opportunities

- **To consolidate** a green ICT procurement policies.
- Identification of **standardization GAPS**
- Best practice sharing among ICT sector companies



Thank you - Gracias

**Green ICT & Supply Chain  
in Telefónica**

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