



### Sustainability and Circular Economy for Telecom

#### Kurt DE LANGE

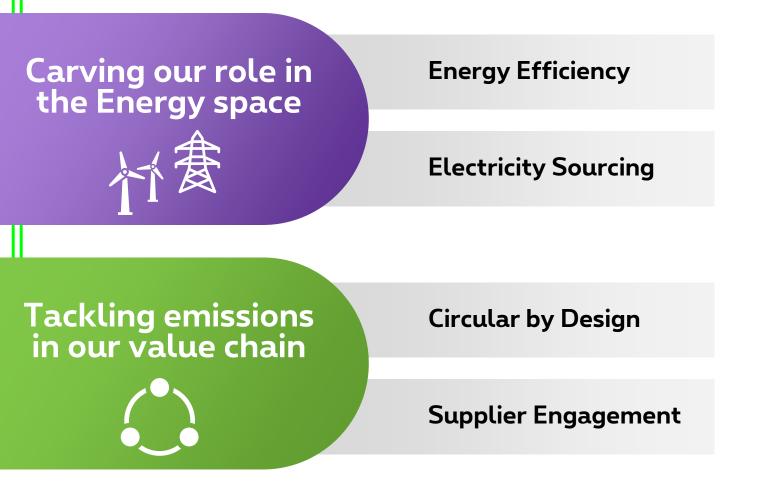
Lead of Transport & Data Networks

Network Sustainability Ambassador







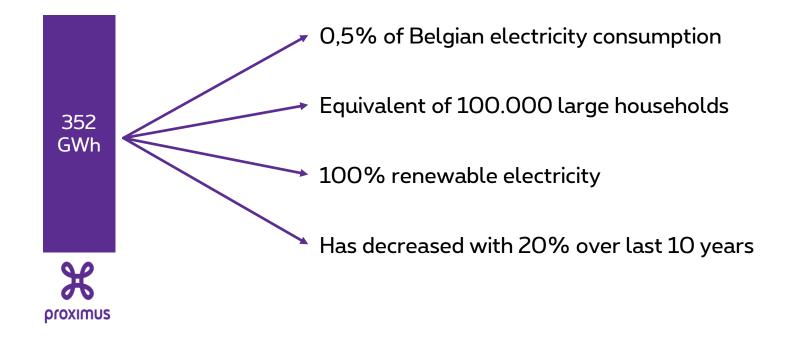






**Energy Efficiency** 

### **Proximus total electricity consumption**

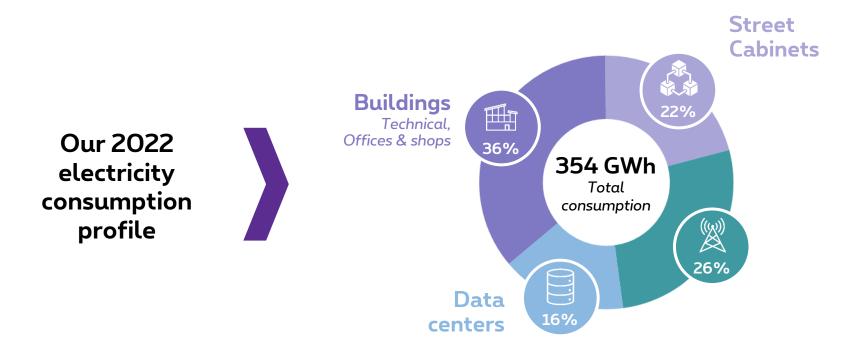






**Energy Efficiency** 

Our activities have an intensive electricity consumption profile, spread between buildings, mobile, street cabinets & data centers







**Energy Efficiency** 

### Electricity consumption strategy is built on three principles

Invest in the future sustainable networks



23/3/2023

Out-phase legacy equipment and buildings



# Optimize the existing assets



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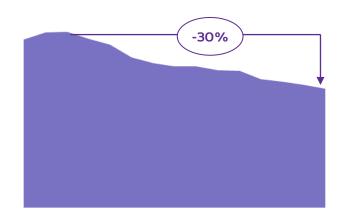


#### **Energy Efficiency**

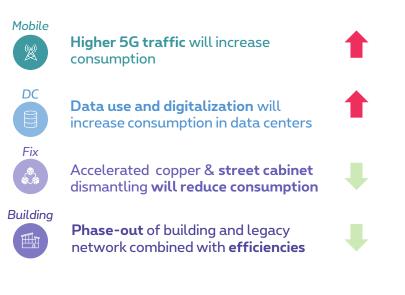
## Electricity efficiency programs have generated tangible reductions, but even with additional savings, consumption will remain ~flat in coming years

### Electricity efficiency programs have delivered tangible consumption savings of 30% in the past...

Proximus consumption profile 2007-2021 (in GWh)



...but forecasted consumption will remain flattish despite optimizations identified in prior years





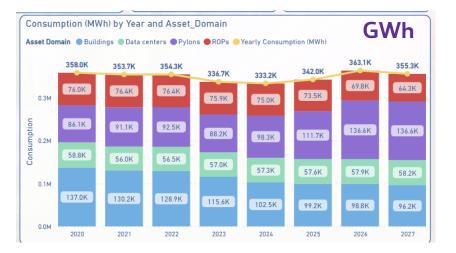


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#### **Energy Efficiency**

Coming years, consumption is to stay relatively flat (compared to 2022 consumption)

2) Roll-out of 5G causes large increase in mobile consumption, offset by efficiencies in buildings & ROPs



#### Expected evolution by 2030

- o Further decrease of ROP consumption
- o Further increase of mobile consumption
- o Data Center growth more or less steady
- o Further decrease of buildings consumption



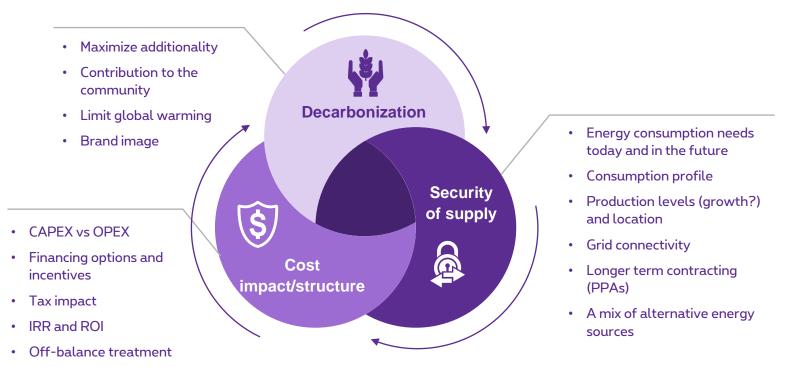
## Will efficiencies compensate for mobile increase? Uncertain at this stage





#### **Electricity Sourcing**

## Our energy strategy should define the right balance between decarbonization, costs and security of supply







#### **Electricity Sourcing**

Reaching our Green sourcing ambition translates into 4 key enabling domains to be developed in our roadmap







#### **Electricity Sourcing**



Increasing self-generation and transitioning to a portfolio of PPAs to ensure supply security

**Renewables** 

Challenges

Green energy will become a scare resource that we need to proactively secure

Evaluating a PPA opportunity is complex (fit in the mix, contractual terms, price, etc.)

Supply contracts can be a barrier for cPPAs



Data is paramount to optimize and manage our electricity consumption

Insights

We need to **collect more electricity** data

We need a scalable centralized space to gather the massive amount of data

> Use data to realize savings/optimizations





#### **Electricity Sourcing**



Flexibility to reach 24/7 which can be achieved through storage and demand response

**Flexibility** 

Challenges

24/7 will require to **develop** electricity storage options

Being able to **adapt its electricity demand based on the renewable production** is key for 24/7

Demonstrating/managing 24/7 matching requires specific tooling



Energy Efficiency Energy efficiency eases the 24/7 transformation and go hand in hand while data is key to reach this

We are **front runners in energy efficiencies** (no more quick wins)

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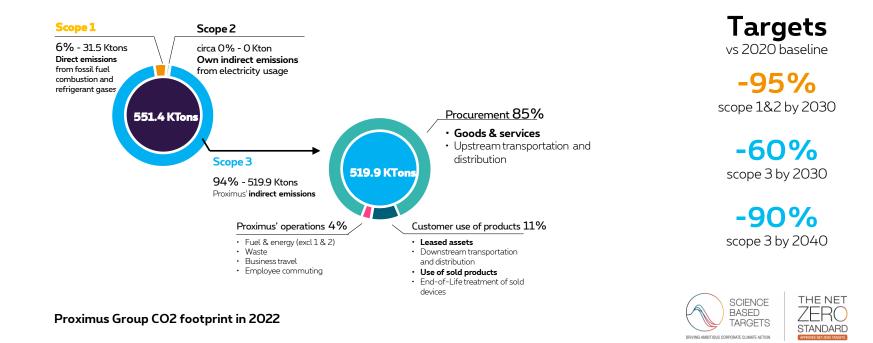
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### Tackling emissions in our value chain

#### Acting with an SBTi approved Net Zero target for 2040

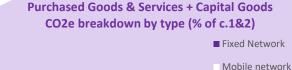


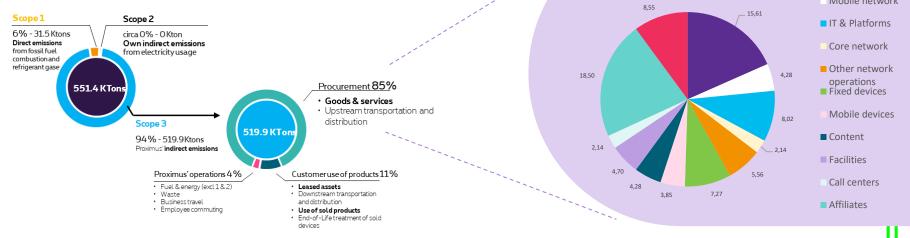




### Tackling emissions in our value chain

Zooming in on Proximus it becomes clear that more will be needed with Scope 3 as main challenge, mainly linked to what we buy and the usage of our products





Proximus Group CO2 footprint in 2022





### Tackling emissions in our value chain

#### Champion Change Internally

Transform the way we operate from a business perspective to steer for carbon avoidance enacting circularity by design

#### Accelerate Change Externally

Engage with suppliers to enable the transformation by setting targets, reducing their own footprint and providing accurate data

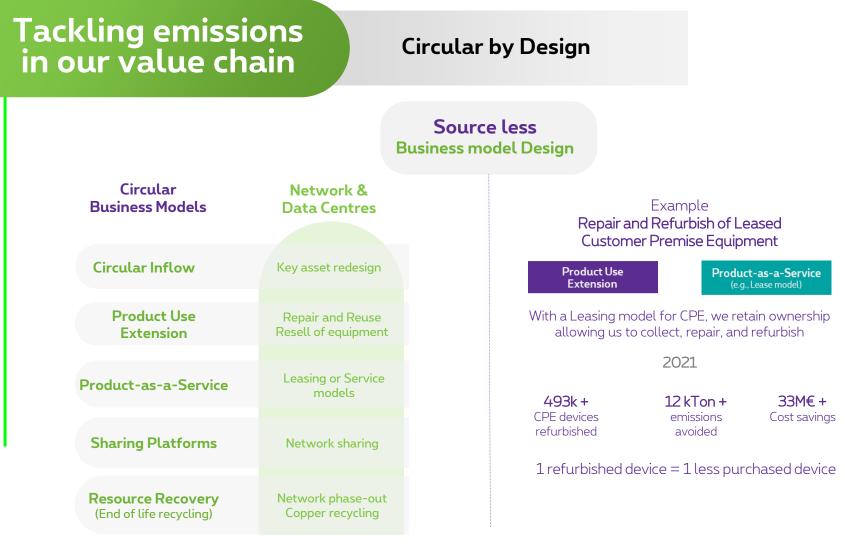
Source less Business model Design

Source right Product & Service Design









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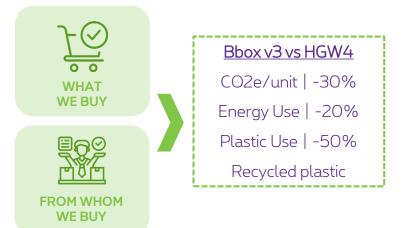


### Tackling emissions in our value chain

#### Circular by Design

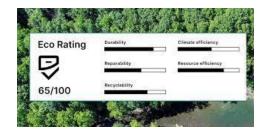
Source Right Product & Service Design

Include environmental criteria in product requirements and supplier evaluations



Enable comparability & standardization of products and suppliers through collaboration with industry associations





Customer nudging

when they buy green we buy green



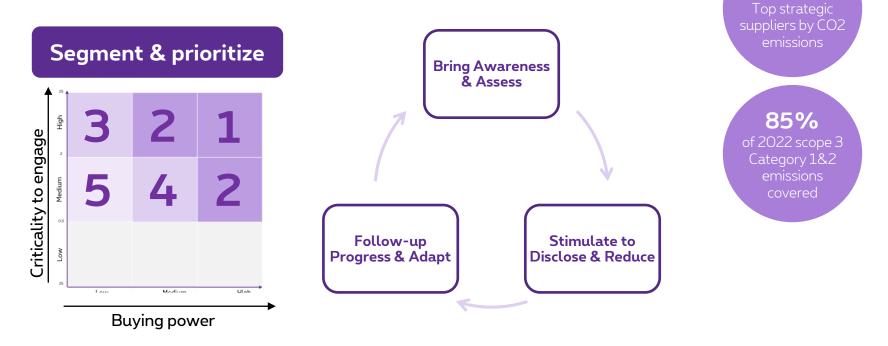


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### Tackling emissions in our value chain

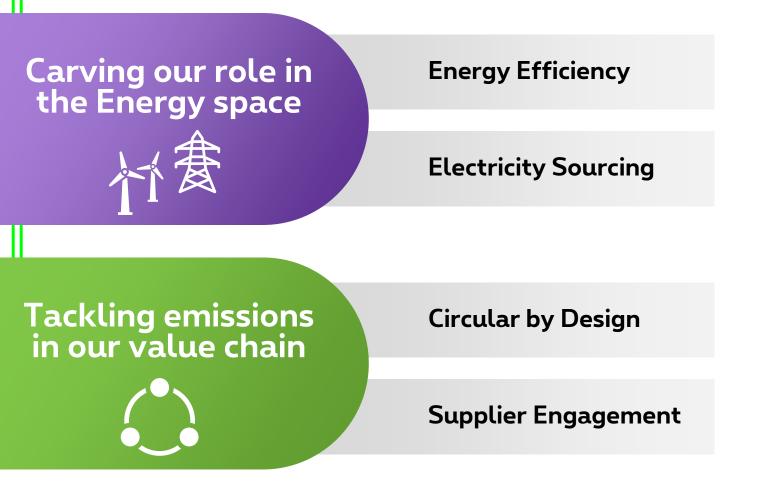
#### **Supplier Engagement**

We enable their transformation leading to setting targets, reducing their own footprint and providing accurate data



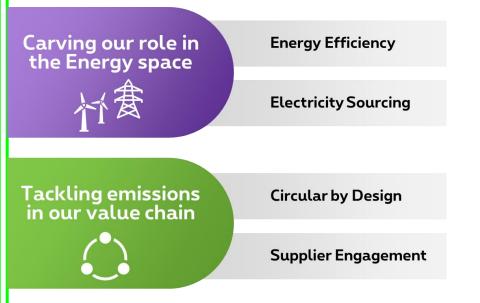








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