Gemeente Amsterdam

Data based sustainable procurement

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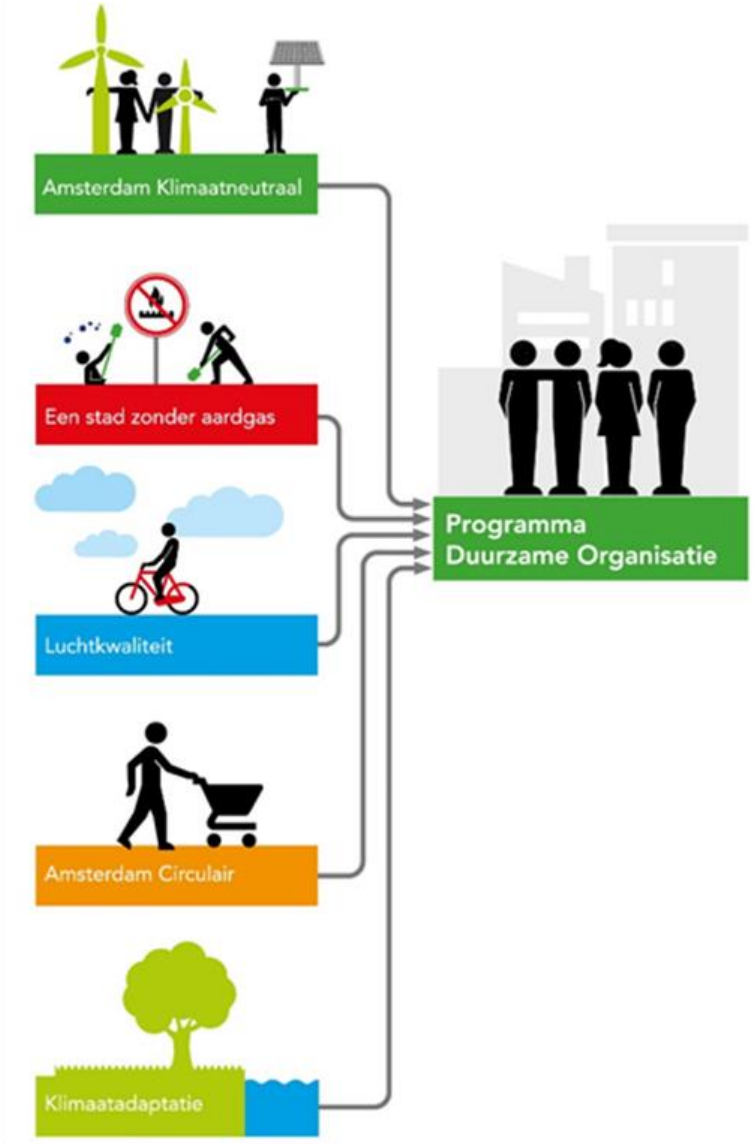
10th of April 2024

From policy to implementation



Sustainable unless, is now the starting point

- Every project needs to be in line with the sustainability goals, unless the council of mayor and aldermen decide to choose differently

- Too often, internal deviations from the sustainability policy occurred due to the issues of the day

Steps to data based sustainable procurement

1. What is the ecological impact of our organization?
2. Which categories are the biggest polluters?

3. What is the LCA-impact of a big polluter?
4. What is the relevant sustainable policy?
5. What is the market situation/ what are sustainable innovations?
6. How to translate into requirements and award criteria?

Ecological impact organization

Sustainable procurement

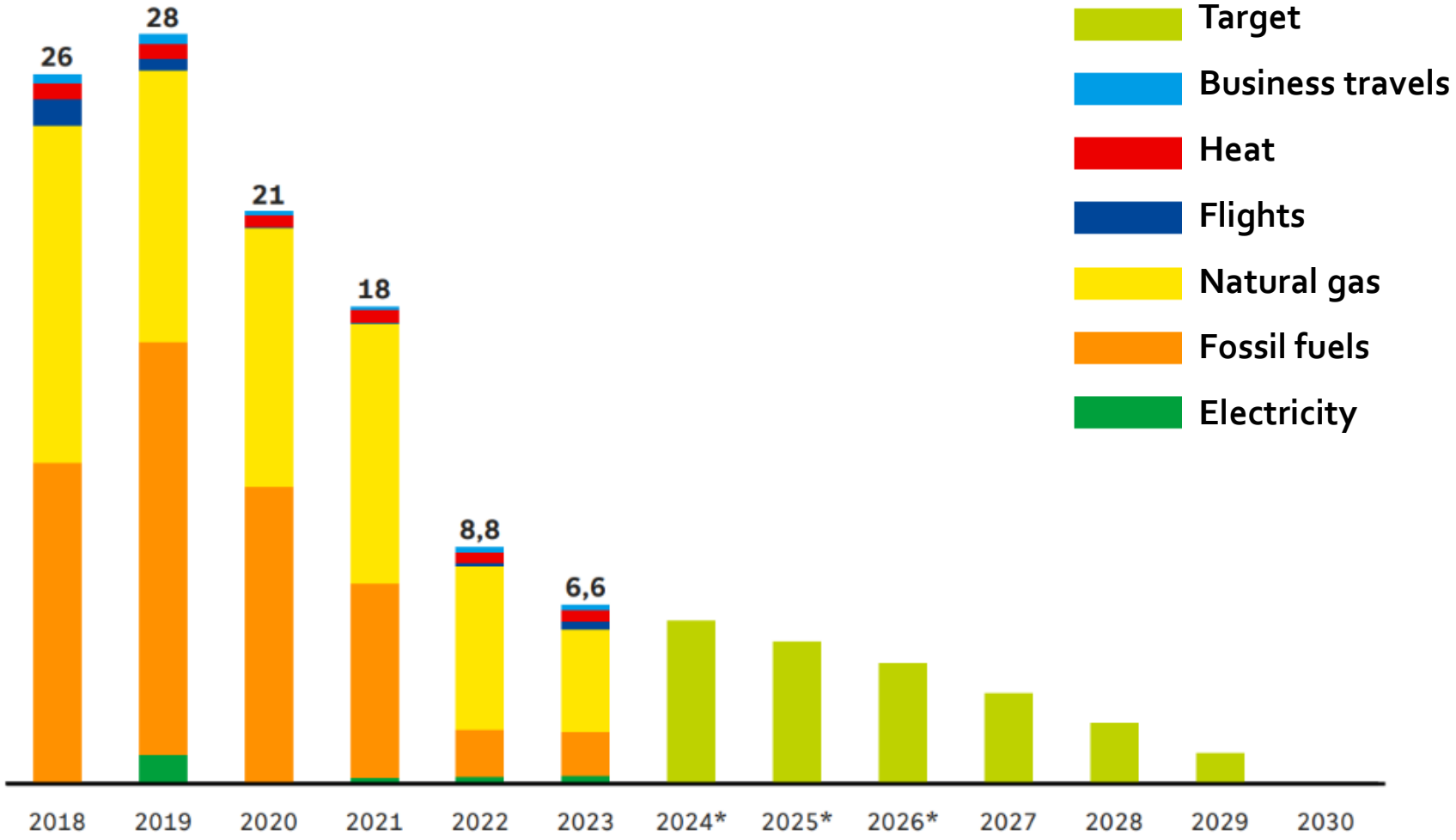
Sustainable procurement goals

1 Maximaal energiezuinig	35% energy reduction in 2030 compared with 2018, with maximal energy reduction in contracts
2 Uitstootvrij	100% emission-free contracts in 2025 (local air quality)
3 CO2-neutraal	100% Carbon neutral (scope 1 and 2) contracts in 2030, and a maximal effort to reduce scope 3
4 Circulair	100% circular procurement in 2030 20% material inflow reduction in 2030 compared with 2018
5 Klimaat-adaptatie	100% climate adaptive sites and buildings in 2030 (heat, rain, drought and flood)

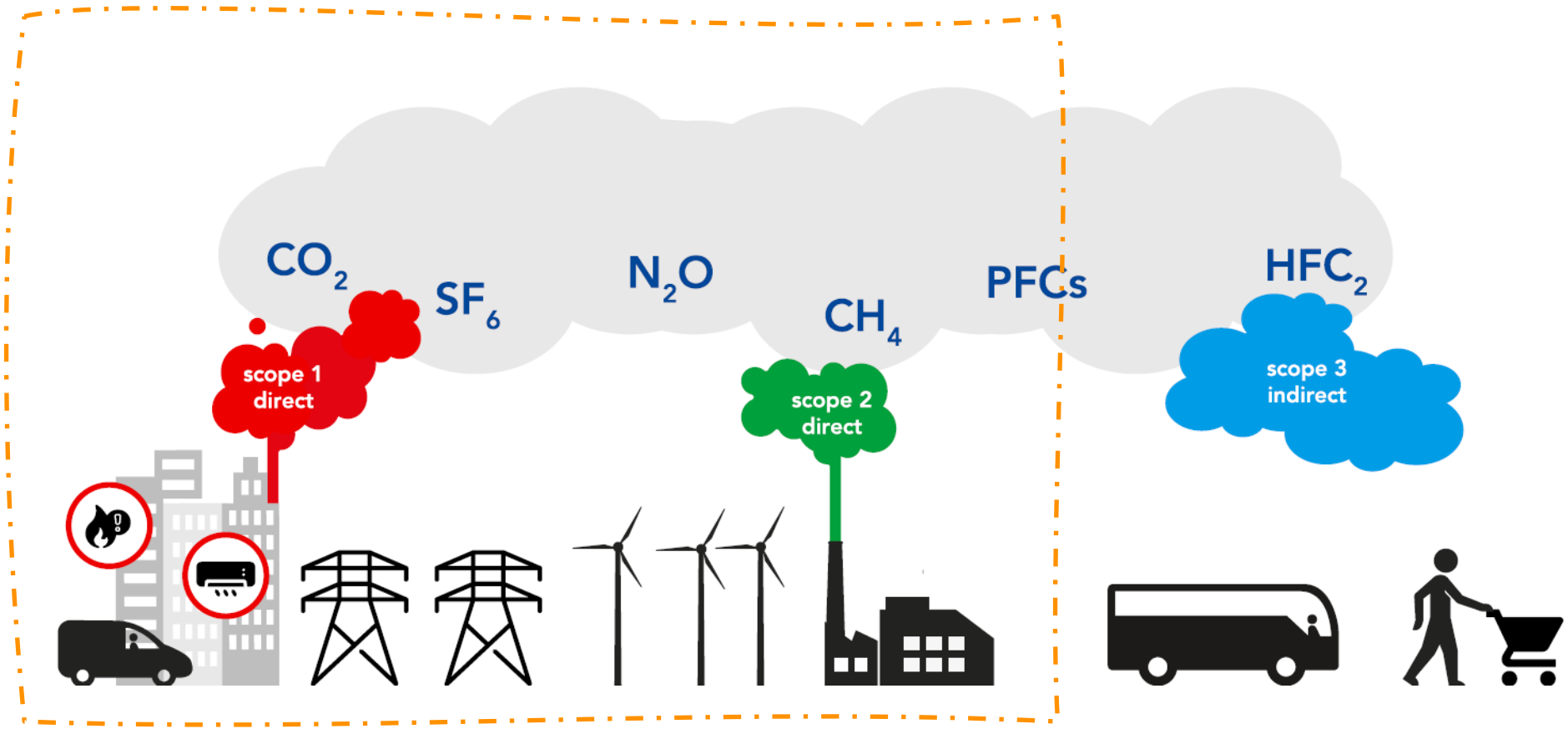
Our organisation

Carbon footprint scope 1 and 2

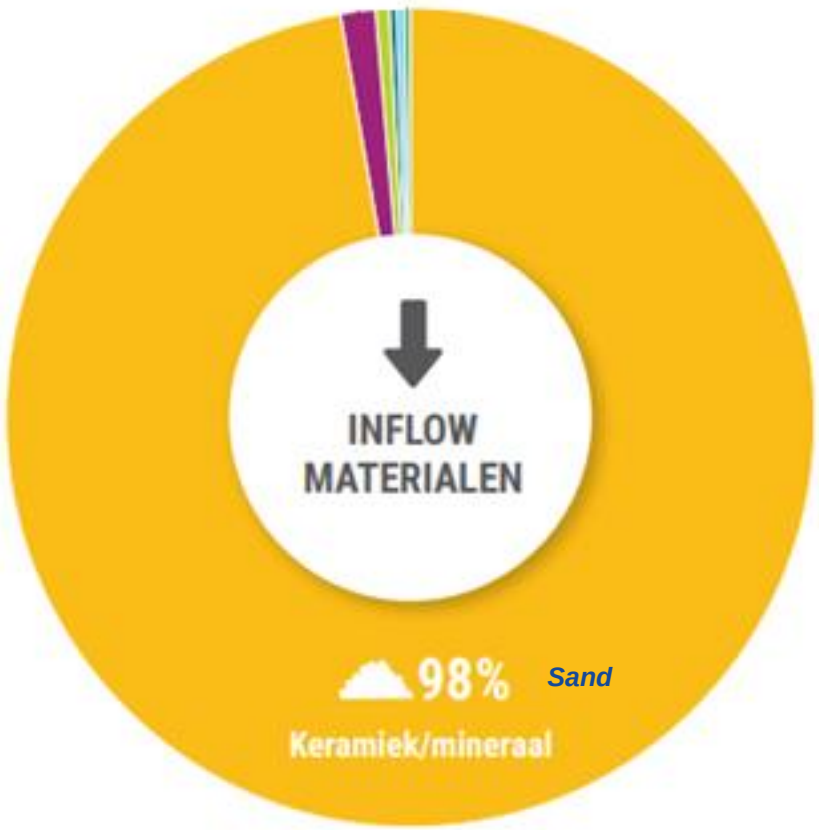
(in kton CO_2-eq)



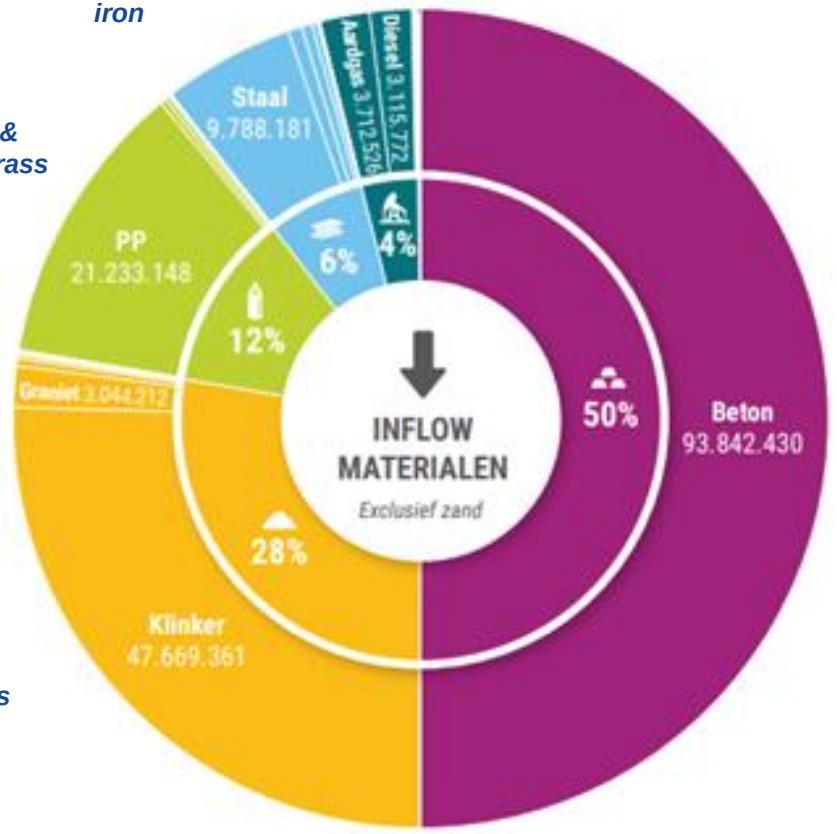
Scopes


CO_2
SF_6
N_2O
CH_4
PFCs
HFC_2
scope 1
direct
scope 2
direct
scope 3
indirect

Biggest inflow of materials



Sand



Diesel, petrol & natural gas

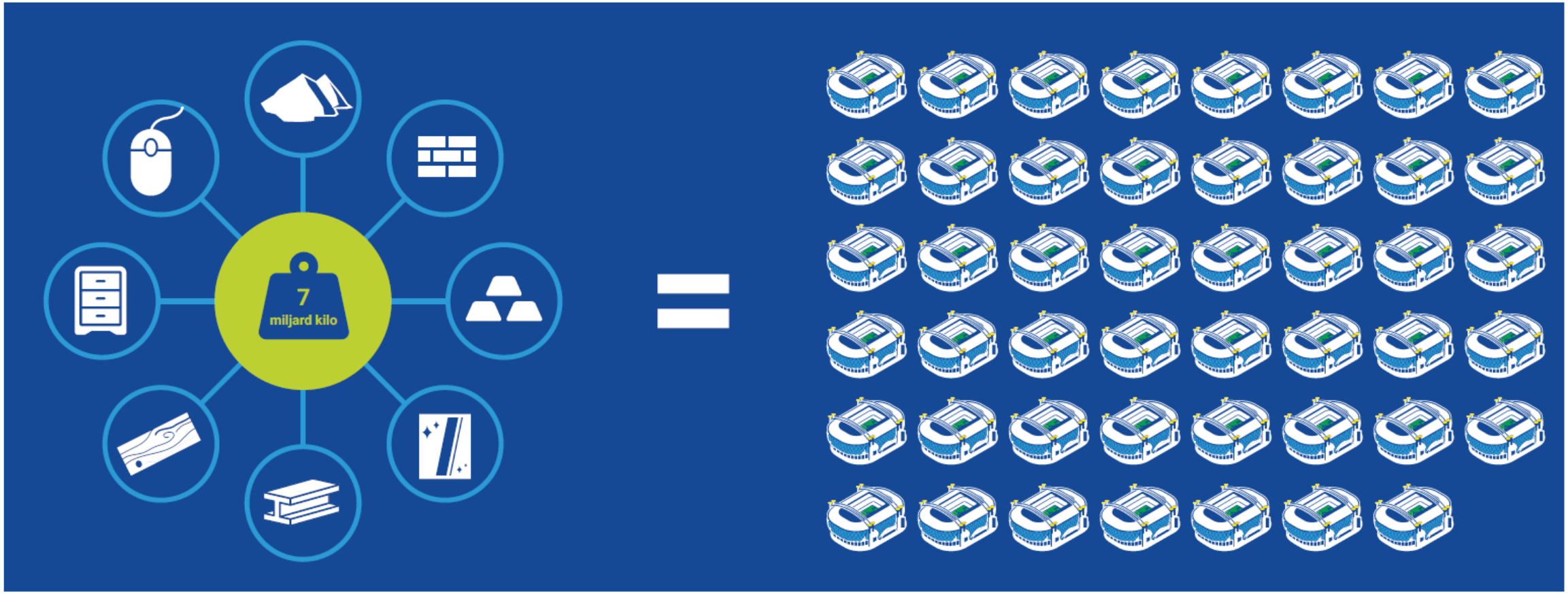
Steel, e.g. in cast iron

PP, PE & PVC (grass carpet)

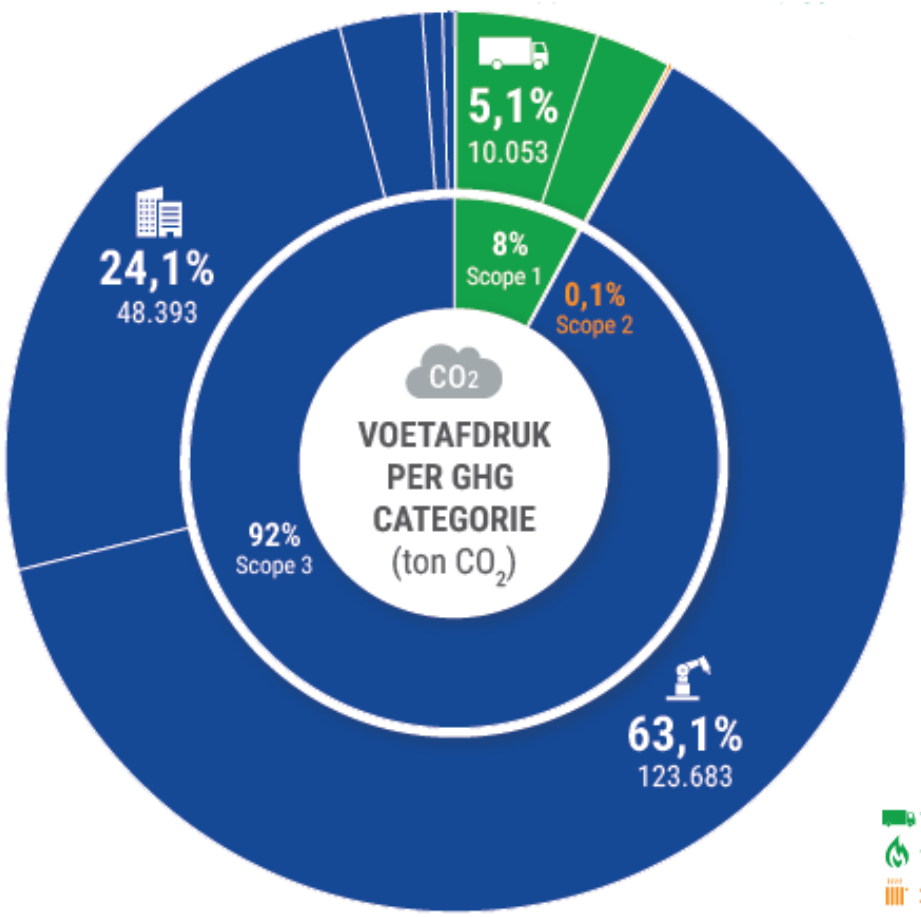
Concrete

Bricks

We bought 7 billion kilograms of materials in 2019.
That equals 47 times the Johan Cruijff Arena!



Our carbon footprint including scope 3 is 10 times bigger than scope 1 and 2 combined [2019 data]



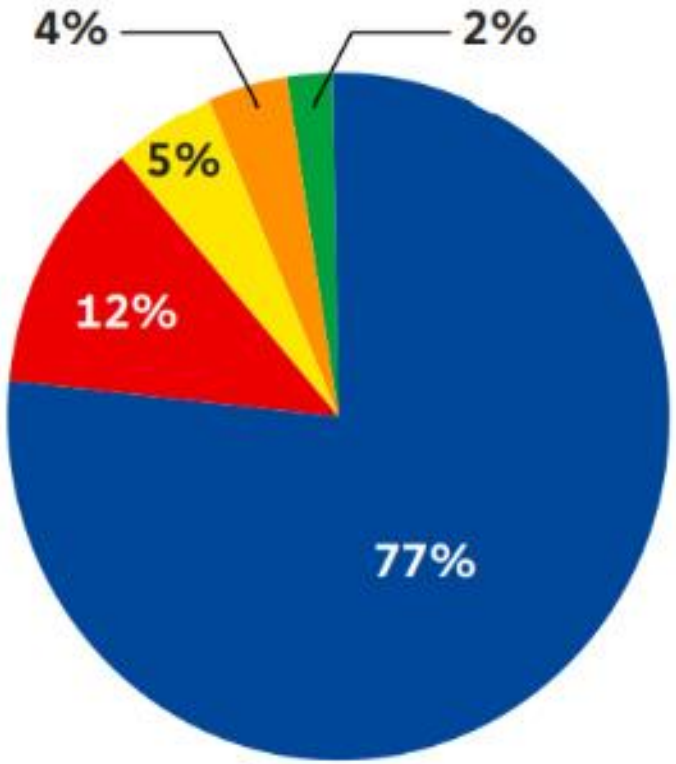
191 kton CO2-eq.

1.2 Mobiele verbranding
1.1 Vaste verbranding
2.3 Inkoop van warmte
3.2 Kapitaalgoederen
3.13 Downstream geleasede activa
3.1 Ingekochte goederen en diensten
3.5 Afvalverwerking
3.6 Dienstreizen
3.8 Upstream geleasede activa

De nummers in de legenda verwijzen naar de emissiecategorie in het Greenhouse Gas Protocol.

Carbon footprint scope 1, 2 & 3 [2022 data]

615 kton CO2-eq.



Purchased goods and services, capital goods
471 kton CO_2

Investments
73 kton $CO0_2$

Leased assets
32 kton $CO0_2$

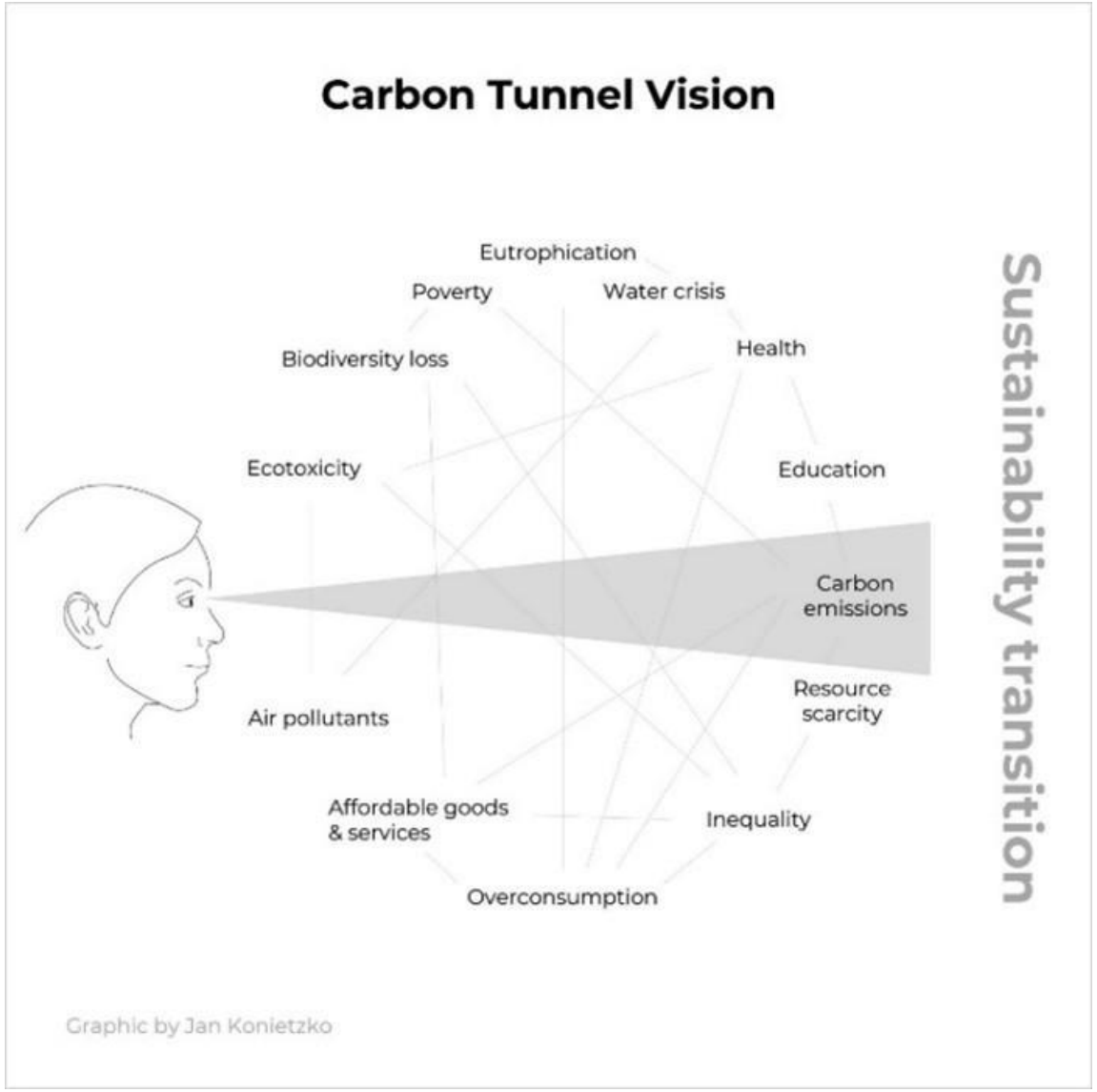
Waste
24 kton $CO0_2$

Remaining (incl. scope 1 and 2)
15 kton $CO0_2$

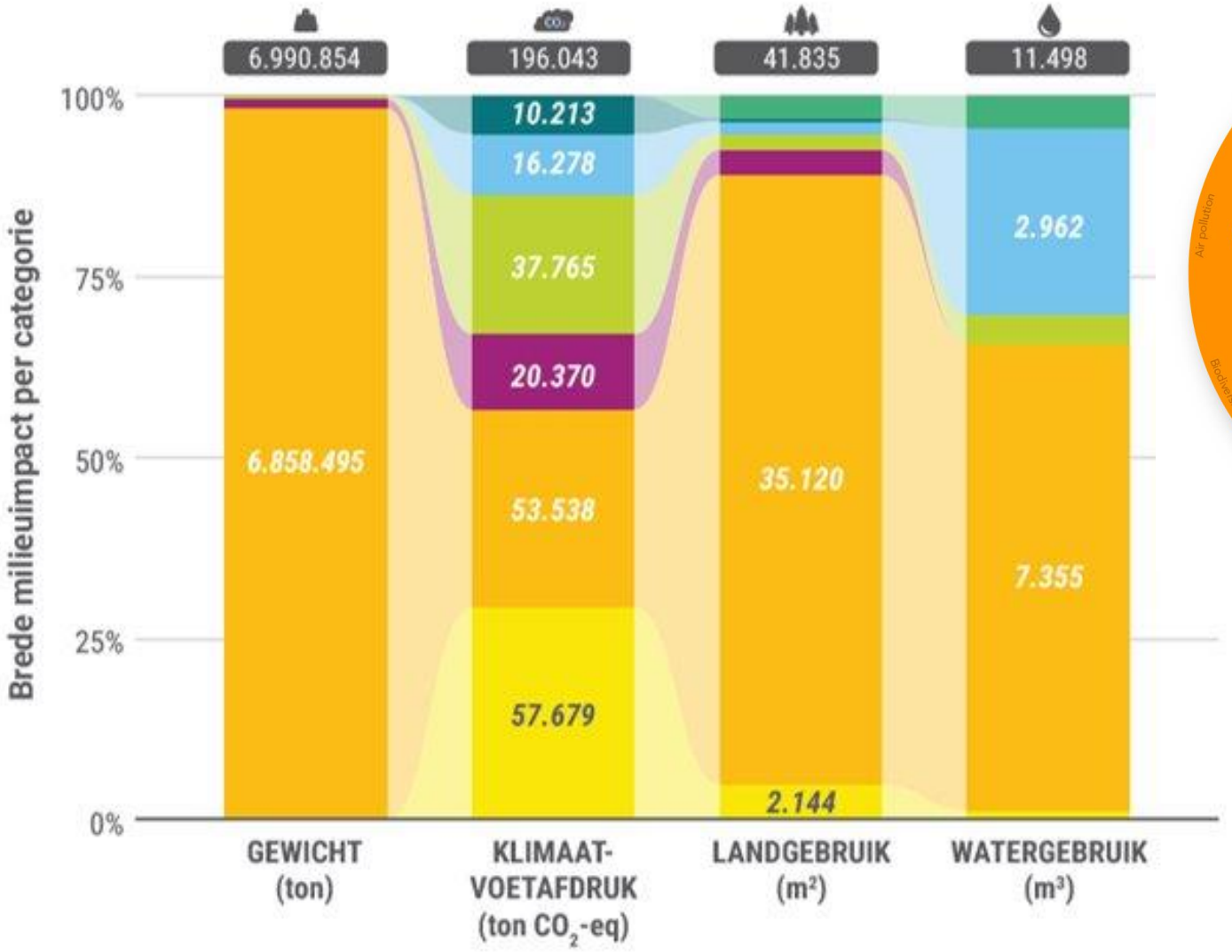
Gemeente
Amsterdam

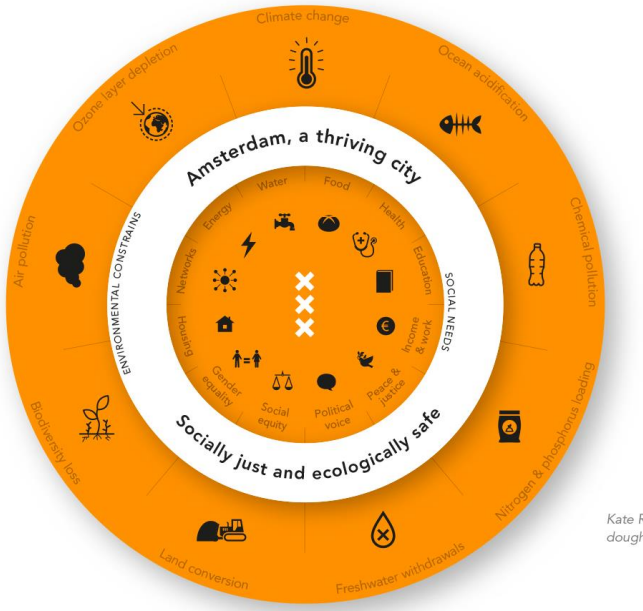
There is more than CO_2

Warning! Carbon Tunnel Vision



Different environmental effects





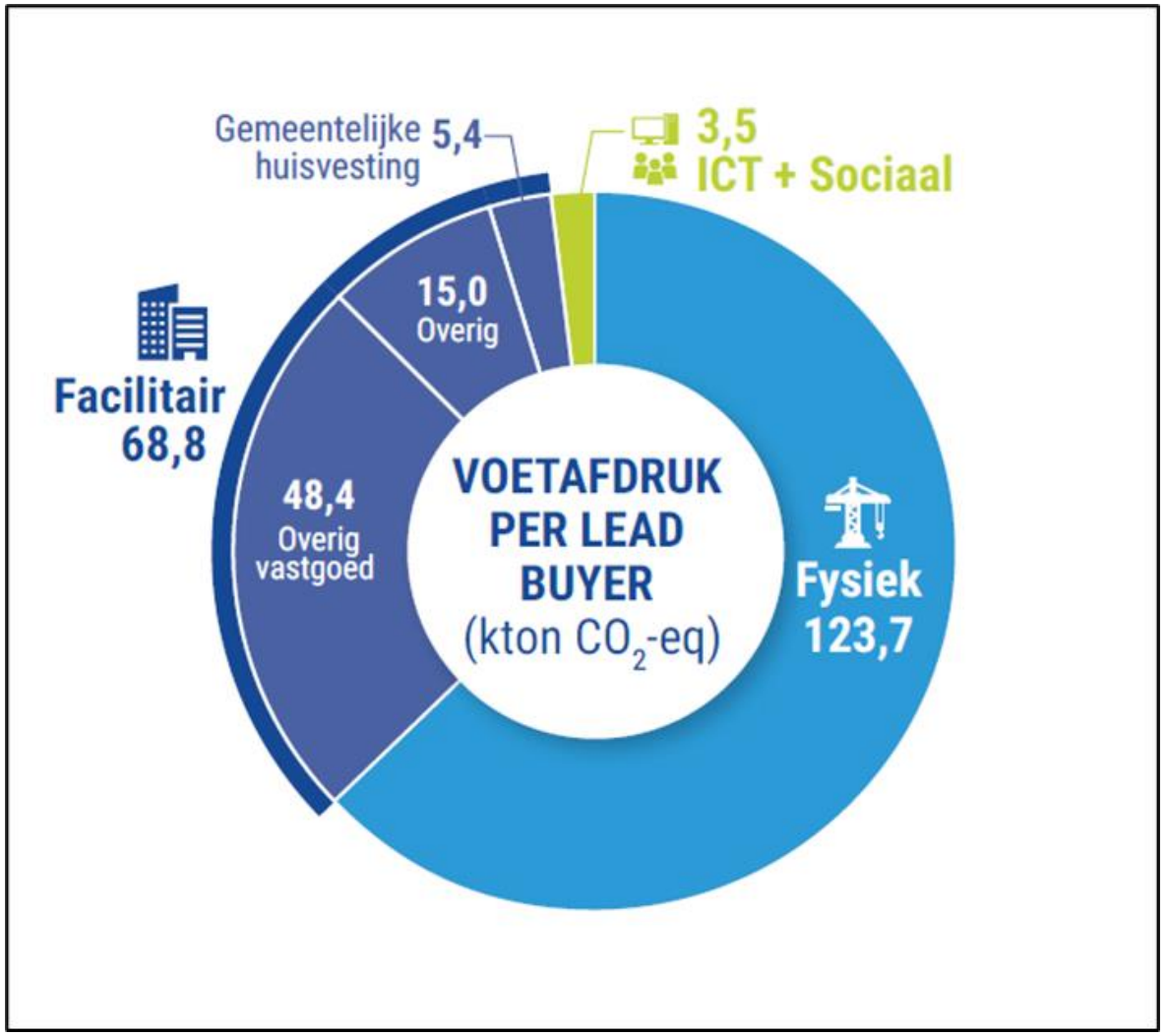
Kate Raw
doughnut

So now we know the first two steps

1. **What is the ecological impact of our organization?**

2. **Which categories are the biggest polluters?**

- Fleet (cars, trucks etc.)
- Property
- Civil engineering (road construction, bridges etc.)



Structure and coherence of sustainable procurement strategies

Steps for sustainable procurement

1. Where is the impact?
2. What is the policy?
3. What is the market situation/ what are sustainable innovations?
4. How to translate into requirements and award criteria?

Sustainable fleet procurement

Steps for sustainable procurement

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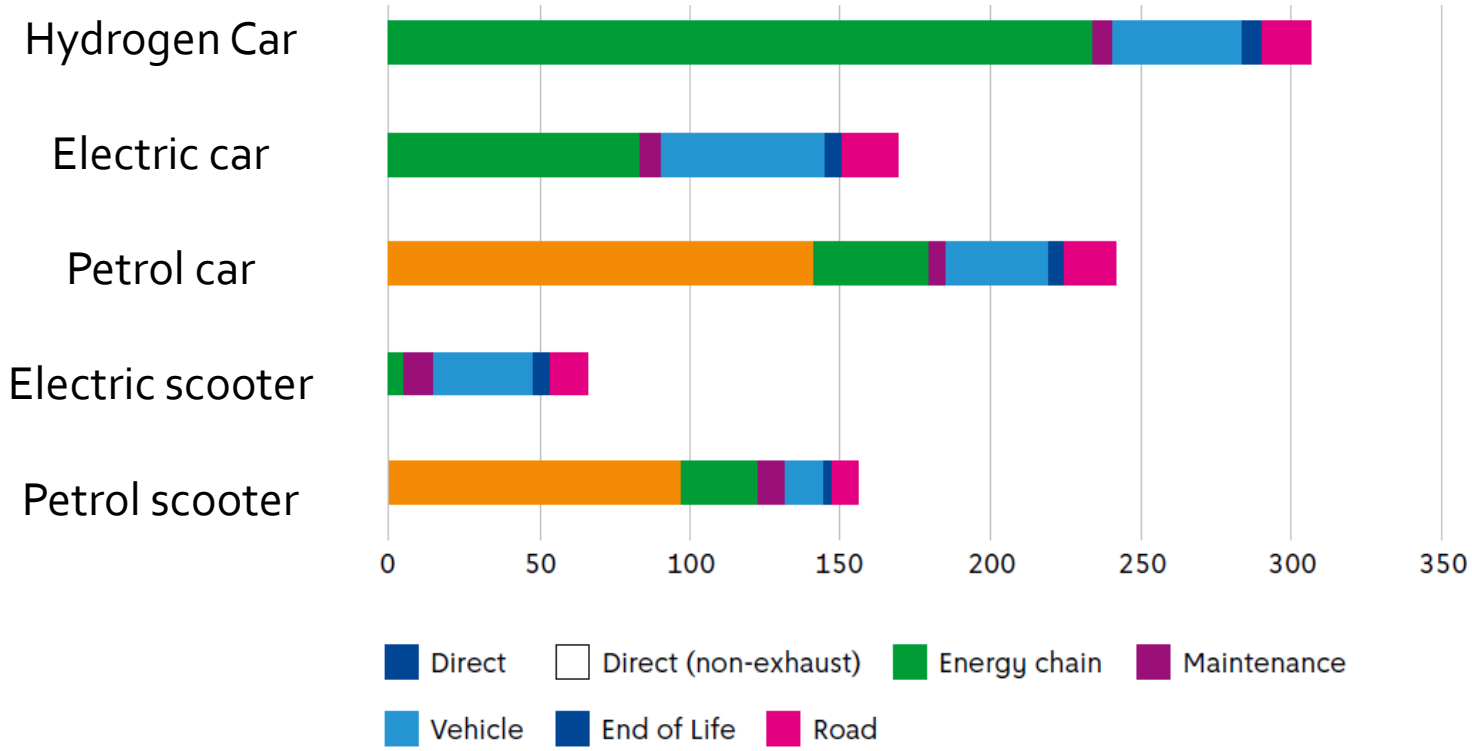
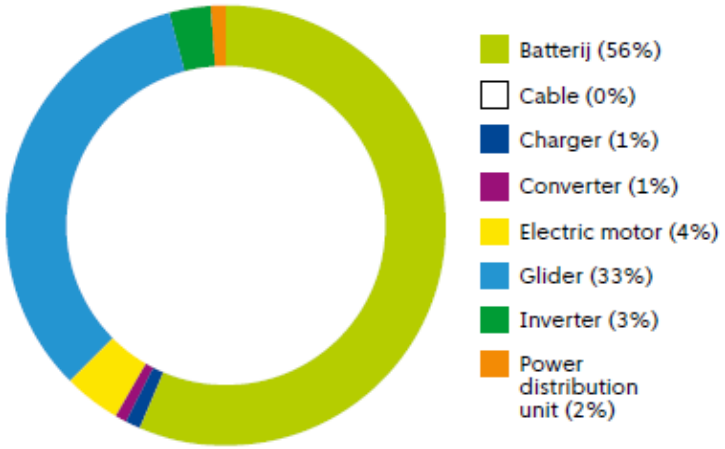
Climate impact of production and use phase of different engine types (CO_2/vkm)



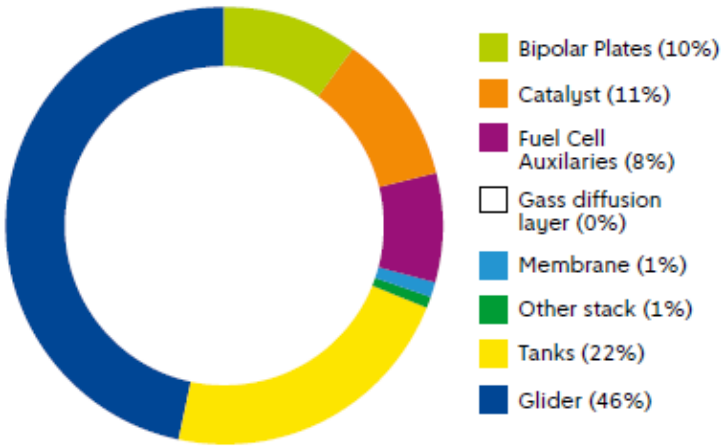
Electric

- By far the most climate impact in battery production
- Second most impactful is the glider (steel chassis and interior)



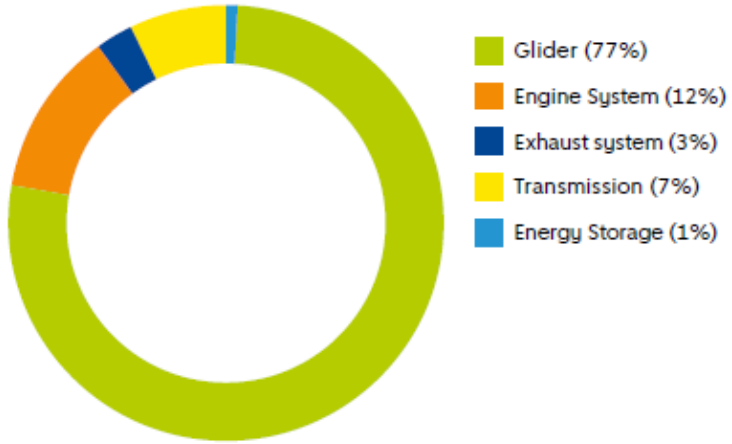
Hydrogen

- By far the most climate impact in glider and tank production
- Tank impact is due to platinum and carbon fiber



Fossil

- By far the most climate impact in glider production
- Where steel and aluminum have the greatest impact



So now we know the third step

3. What is the LCA-impact of a big polluter?

- Electric cars have the least ecological impact
- The battery and the glider (aluminum and steel) cause the biggest environmental impact

Sustainable fleet procurement

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CIRCULAR ECONOMY

Raising Ambitions: A new roadmap for the automotive circular economy

Sustainable fleet procurement

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Instrument	Specificatie	Goal
Requirement	Battery lifetime minimum of 8 years	Circular 2030
Requirement	Only reused parts in case of failure car part	Circular 2030
Requirement	Life cycle analysis of a car after 1 year contract	Circular 2030
Requirement	Due diligence on social and environmental impact in chain	General sustainability

Sustainable fleet procurement

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Instrument	Specificatie	Goal
Award criteria	Cobalt free battery = higher score	Circular 2030
Award criteria	Demonstrable evidence of: • Circular content • Material efficiency • Energy efficiency • Sustainable production method	General sustainability

Questions?

From shifting responsibility to climate action!

National government

Europe

Companies

City council

Contract manager

The client

Who is responsible for sustainability?