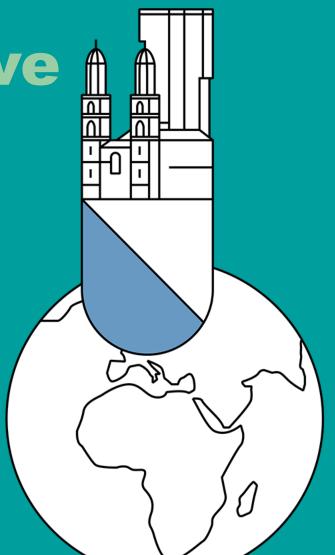


Sustainable and innovative textiles procurement

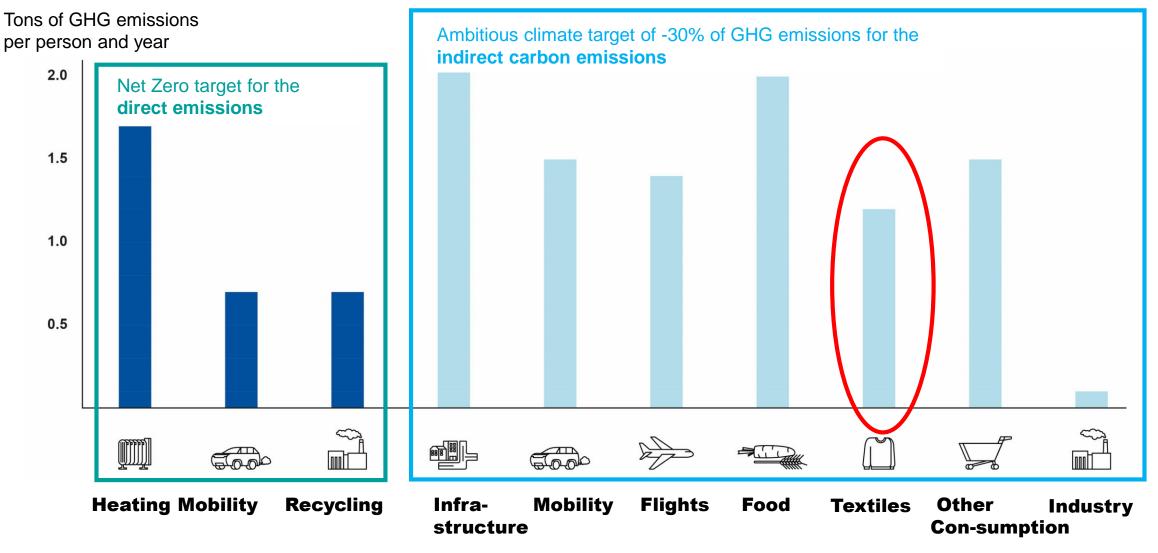
Insights in the working lab of the City of Zürich

Procura+ Seminar Marketplace, Brussels Sonja Gehrig, October 13, 2022



Green house gas emissions of the City of Zürich

13 tons per person and year of direct and indirect emissions



Net Zero : Procurement as a key



	Stadt Zürich	Verwaltung
direkte CO ₂ -	Netto-Null bis 2040	Netto-Null bis 2035
Emissionen	Zwischenziel: Minus 50% bis 2030	
Indirekte	Minus 30% pro	Minus 30% bis 2035
CO ₂ - Emissionen	Einwohner/in bis 2040 (ggü. 1990)	(gegenüber 1990)
	Gemeindeordnung, Abstimmung 15.5.22	In Kraft seit STRB vom 21.4.21

Why is it worth to procure socially and ecologically responsibly?



Overall responsibility



Image, reputation



Role model



Responsibility towards the taxpayer

Competitiveness: Sustainability as opportunity for Swiss/EU industry



Satisfied employees

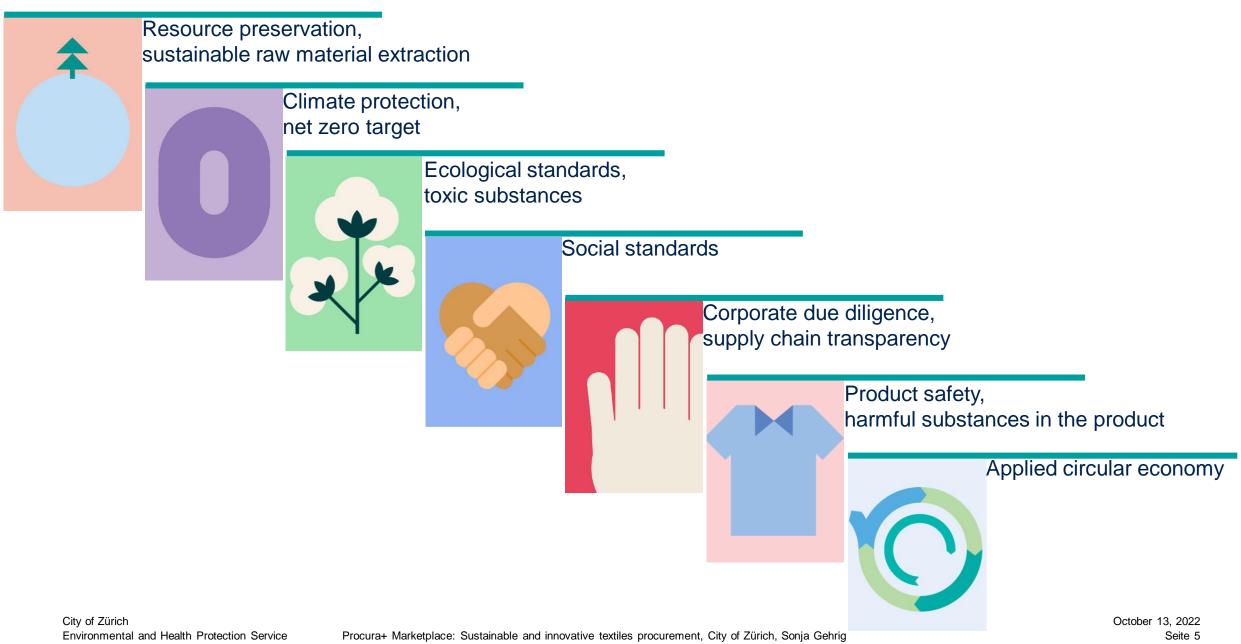


Innovation potential



Policy coherence: commitment to sustainable procurement

Fields of action for sustainable procurement in the city



Actions towards Innovative and Sustainable Procurement

Sustainable Textiles Switzerland 2030

Circular Cities Declaration

Circular Economy Strategy "Circular Zürich"

Circular Procurement Bed sheets & towels from recycled cotton



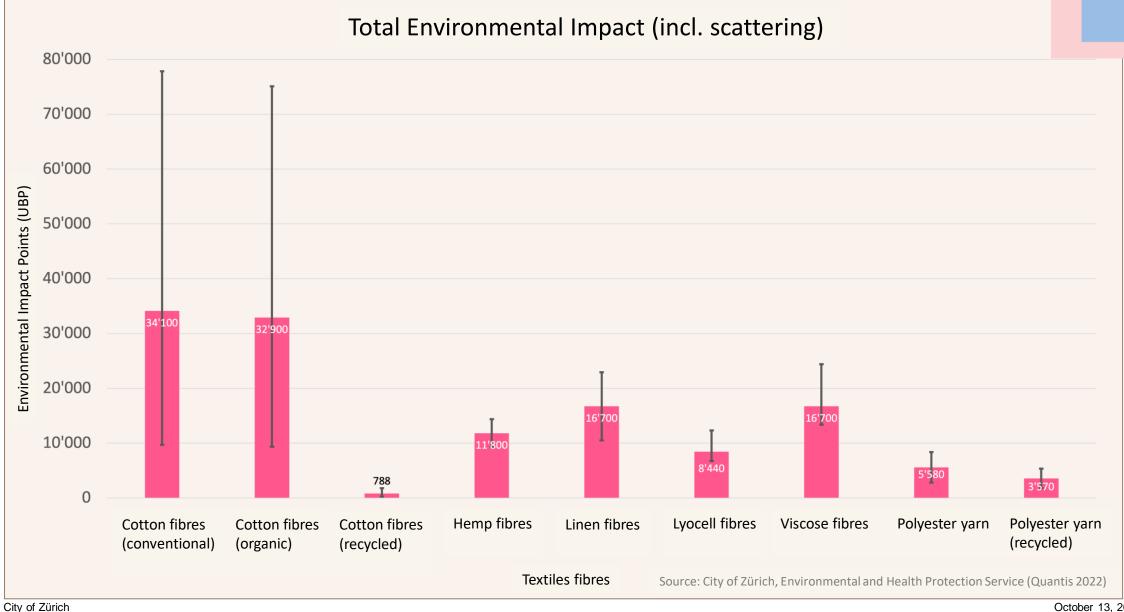




Stadt Zürich

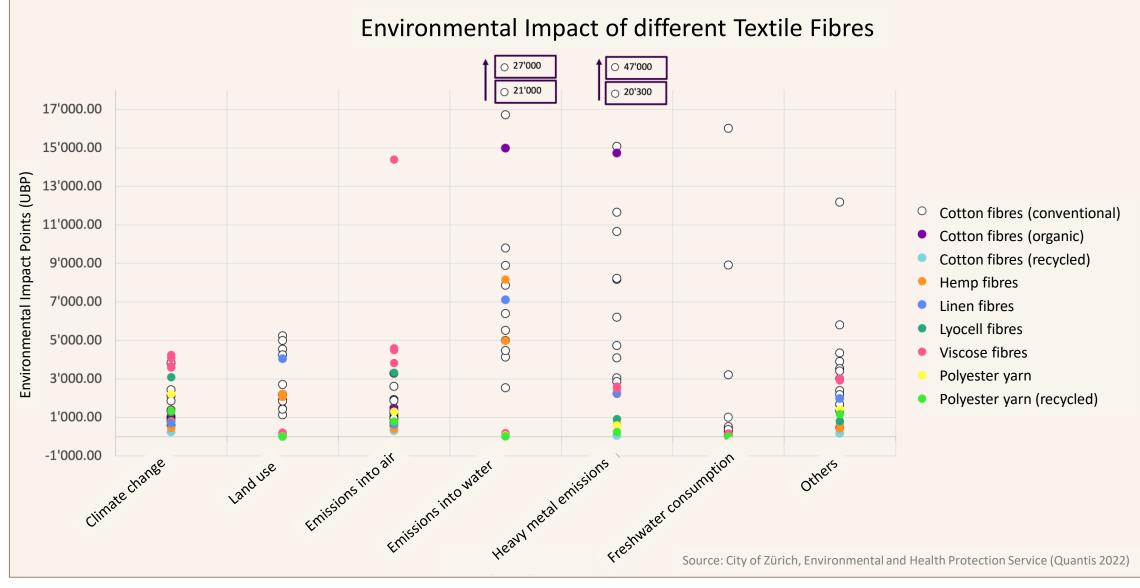
Environmental effects of textile fibres

Environmental impact of different textile fibres



Environmental and Health Protection Service

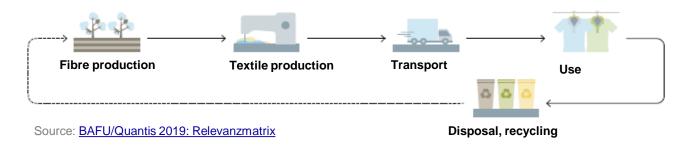
Environmental impact categories of different textile fibres



Sustainability criteria for procurement of textiles



Sustainability hotspots of textiles



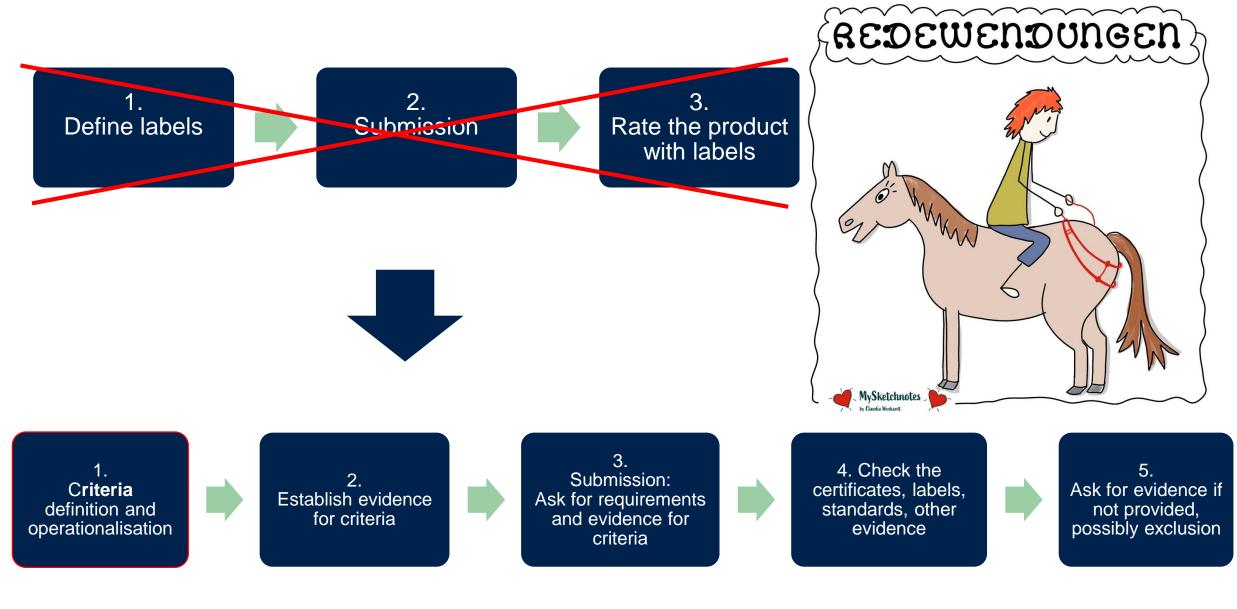


- > Pesticide use and water consumption, especially in cotton cultivation
- Water pollution from chemicals in textile production and processing (bleaching, dyeing, finishing)
- Child labour, forced labour, exploitative working conditions: excessive overtime, low wages (esp. textile production, confection and garment manufacturing)
- Electricity and fuel consumption in manufacturing: greenhouse gas and air pollutant emissions

Textile procurement: criteria and requirements

	Ecological	Social	Others
Conditions of participation		 Code of conduct: ILO core labour standards Transparency of supply chain 	Textile sustainability calculator questionnaire
Mininum requirements	 Chemicals in the product: Standard 100 by Oeko-Tex Organic cultivation for natural fibres Air pollution minimum requirements for delivery vehicles 	Third party audit at confectioning for ILO core labour standards	No sewn-on or printed logos
Award criteria (25-35% Gewichtung)	 Recycling materials Avoidance of chemicals Organic fibres CO₂ emissions Recyclability EMS Supply logistics: type of vehicles and combustion 	 Labour standards, working conditions Living wages Fair trade Implementation of ILO standards (i.e. occupational health & safety) 	Part of the textile sustainability calculator

Standards, Labels, Certificates, Initiatives





Challenges with labels and certificates



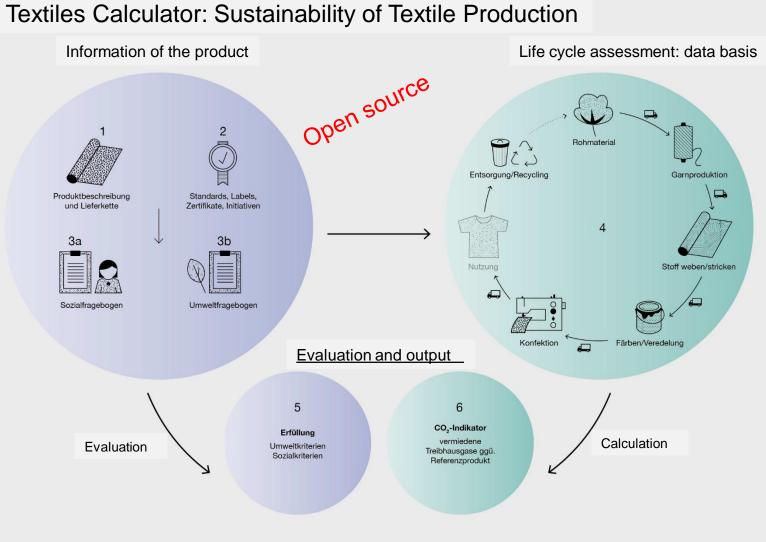
Textiles Sustainability Calculator of the City of Zürich (Textiles Calculator)



Publication (German): <u>https://kofu-zup.ch/asp/db/pdf/ZUP97-20_Textilrechner.pdf</u>

City of Zürich Environmental and Health Protection Service

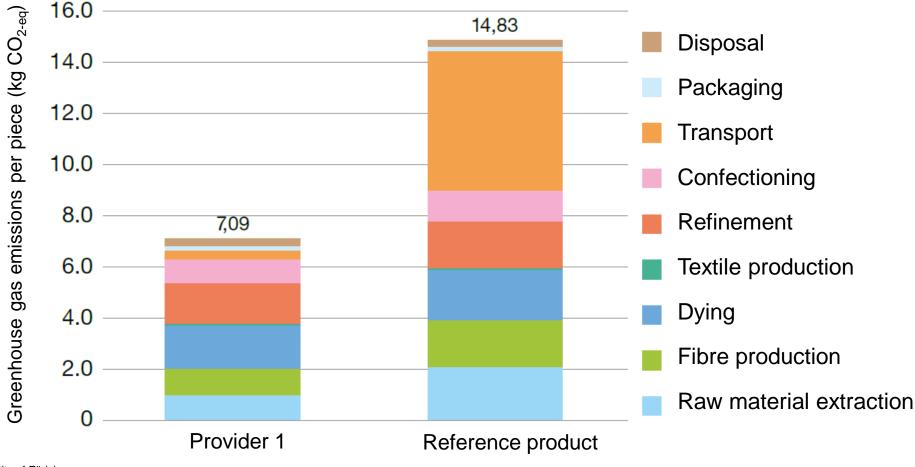
Textiles Calculator for climate prioritised procurement



Carbon emissions: Results

Example: Poloshirt 55% organic cotton, 45% polyester Origine: Europe, Oeko-Tex 100, GOTS, amfori BSCI-Audit for confection

Result compared to non sustainable reference product





Resultat Textile Calculator: i.e. Sweatshirt

Places of Production: Türkei (Izmir), FWF Treibhausgasemissionen

soziale Kriterien

Anbieter 1	64%
Anbieter 2	0%
Anbieter 3	0%
Anbieter 4	0%
Anbieter 5	0%

Die Ergebnisse sind in Prozent erreichter Punkte im Verhältnis zur maximalen Punktzahl

ökologische Kriterien

	kg CO2-eq pro Stück	kg CO2-eq pro kg
Anbieter 1	12.2	28.3
Anbieter 2	Keine Angaben	Keine Angaben
Anbieter 3	Keine Angaben	Keine Angaben
Anbieter 4	Keine Angaben	Keine Angaben
Anbieter 5	Keine Angaben	Keine Angaben
Referenzprodukt	25.8	59.9

Gesamtergebnisse

Das Referenzprodukt wird mit konservativen Werten berechnet und beinhaltet einen Anteil Flugtransport.

[kgCO2-eq] pro [kgCO2-eq] pro

Stück

Referenzprodu

kt

3.32

3.82

3.55

0.14

3.23

2.23

8.91

0.21

0.38

25.80

Sütck

Anbieter 1

2.40

1.74

2.75

0.08

2.64

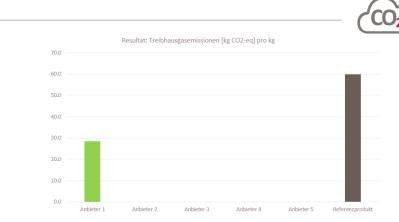
1.48

0.53

0.21

0.38

12.21



 Produkt
 Pullover

 Beschreibung
 Sweatshirt (Pos.60)

 Gewicht
 0.431 kg

[%]

Anbieter 1

20%

14%

23%

1%

22%

12%

4%

2%

3%

100%

[%]

Referenzprodu

kt

13%

15%

14%

1%

13%

9%

35%

1%

1%

100%

[%]

Unterschied

ggü.

Referenzprodu

kt

-28%

-54%

-22%

-45%

-18%

-34%

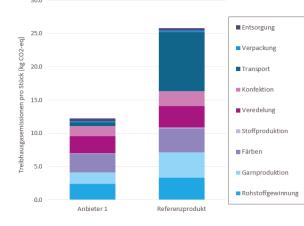
-94%

0%

0%

-53%

Resultat im Vergleich zum Referenzprodukt



Gesamtergebnisse

Anbieter 1	74%
Anbieter 2	0%
Anbieter 3	0%
Anbieter 4	0%
Anbieter 5	0%

Die Ergebnisse sind in Prozent erreichter Punkte im Verhältnis zur maximalen Punktzahl

City of Zürich Environmental and Health Protection Service

Procura+ Marketplace: Sustainable and innovative textiles procurement, City of Zürich, Sonja Gehrig

Rohstoffgewinnung

Garnproduktion

Stoffproduktion

Veredelung

Konfektion

Transport

Verpackung

Entsorgung

Gesamtergebnisse

Färben

October 13, 2022 Seite 21

Circular economy

is our most important lever for achieving the net zero targets

Why?

- > We have influence
- We build on Zurich's economy and on innovation



Especially for textiles ...

Focus on the whole supply chain

Ecological and social criteria make the difference for others

Circular economy solutions are the future

• Textile submissions are very complex

City of Zürich Environmental and Health Protection Service

Thank you!





Contact: sonja.gehrig@zuerich.ch

City of Zürich Environmental and Health Protection Service