

‘The Great Turning is a name for the essential adventure of our time: the shift from the industrial age of unlimited growth to a ‘sustainable society’. We must abandon the idea that we can use our planet for our own comfort or profit - or even that we can save it. That is a delusion. Instead, let us accept the radical uncertainty of our times. Even the uncertainty of whether we survive or not’ (Joanna Macy)



Panelavond: Plasticvrij Wageningen Klimaatweek Speciaal



Programa

- ▶ Intro: Klimaatburgemeester (5 min)
- ▶ Kort video (10 min): de impact van plastic op klimaat en water ecosysteem (10 min)
- ▶ Paneldiscussie: Thema's: plastic & het klimaat, alternatieven, rol overheid/bedrijven/burgers.
- ▶ **Spreekers:**
- ▶ WUR:
 - ▶ Mahrooz Rezaei: De impact van microplastics op klimaat
 - ▶ Marieke Brouwer: biobased plastics
- ▶ Gemeente Wageningen:
 - ▶ Rike van de Wiel en Niek Kief
- ▶ Zero Waste: Laura Graus
- ▶ Publieksvragen en open paneldiscussie

We betuigen onze bijzondere dank aan de Rotary Club voor puzzels donatie.

Video: Plastic Ocean

https://www.youtube.com/watch?v=ju_2NuK5O-E

Rezaei, Mahrooz

Air sampling, Dec 2022



Location	MP in deposited dust (No. $\pm$ STD)	MP in airborne samples (No. $\pm$ STD)	MP deposition flux (MP $\text{m}^{-2} \text{ day}^{-1}$)
Forum	282 $\pm$ 14.85	58 $\pm$ 13.43	3662.34
Gym	114 $\pm$ 2.12	126 $\pm$ 29.87	1357.14



Air sampler and one Petri dish collecting microplastic in a clothing shop.

Emissions from the Plastic Lifecycle

Annual Emissions from the Plastic Lifecycle

Source: © CIEL

Note: Compared to 500 megawatt coal-fired power plants operating at full capacity.



Print Your City! (Rotterdam's plastic waste)

Transforms a problem into a resource for improving the quality of life



- ✓ Promotes the principles of the circular economy by driving civic engagement and combining it with the latest technology in design.

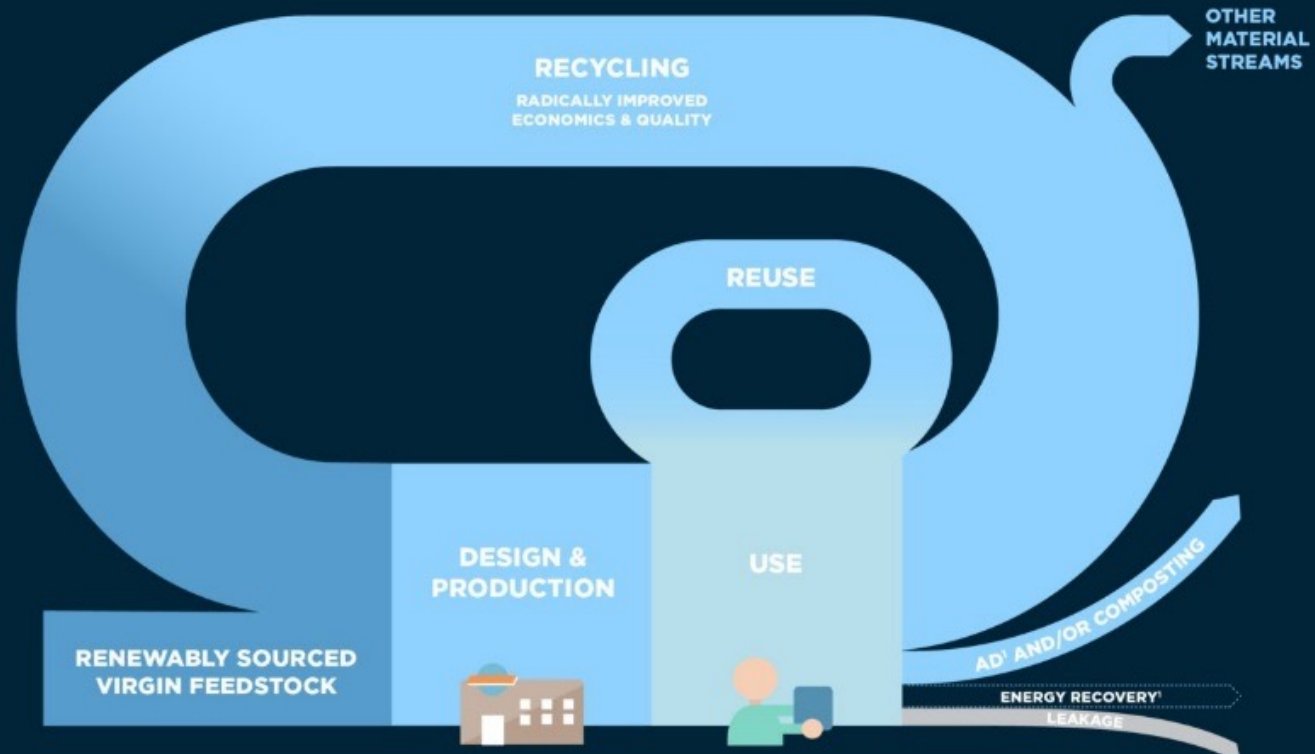
‘What is better than citizens directly contributing to the circular economy?’

Marieke



THE NEW PLASTICS ECONOMY

1 CREATE AN EFFECTIVE AFTER-USE PLASTICS ECONOMY



3 DECOUPLE PLASTICS FROM FOSSIL FEEDSTOCKS

2 DRASTICALLY REDUCE THE LEAKAGE OF PLASTICS INTO NATURAL SYSTEMS & OTHER NEGATIVE EXTERNALITIES

WORLD ECONOMIC FORUM, ELLEN MACARTHUR FOUNDATION, MCKINSEY & COMPANY,
A NEW PLASTICS ECONOMY: RETHINKING THE FUTURE OF PLASTICS (2016)
ELLENMACARTHURFOUNDATION.ORG/PUBLICATIONS

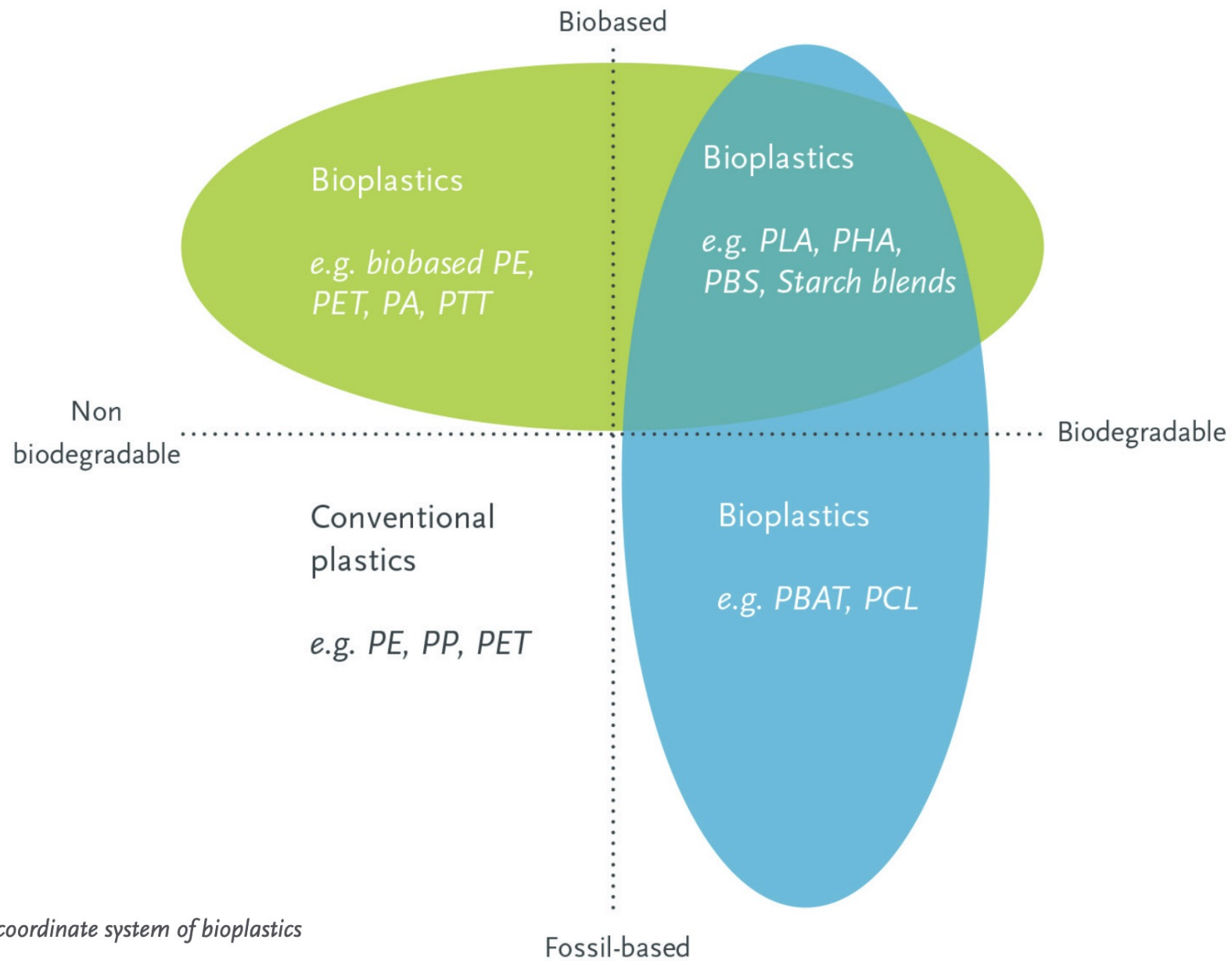
1 Anaerobic digestion

2 The role of, and boundary conditions for, energy recovery in the New Plastics Economy needs to be further investigated.

Source: Project Mainstream analysis

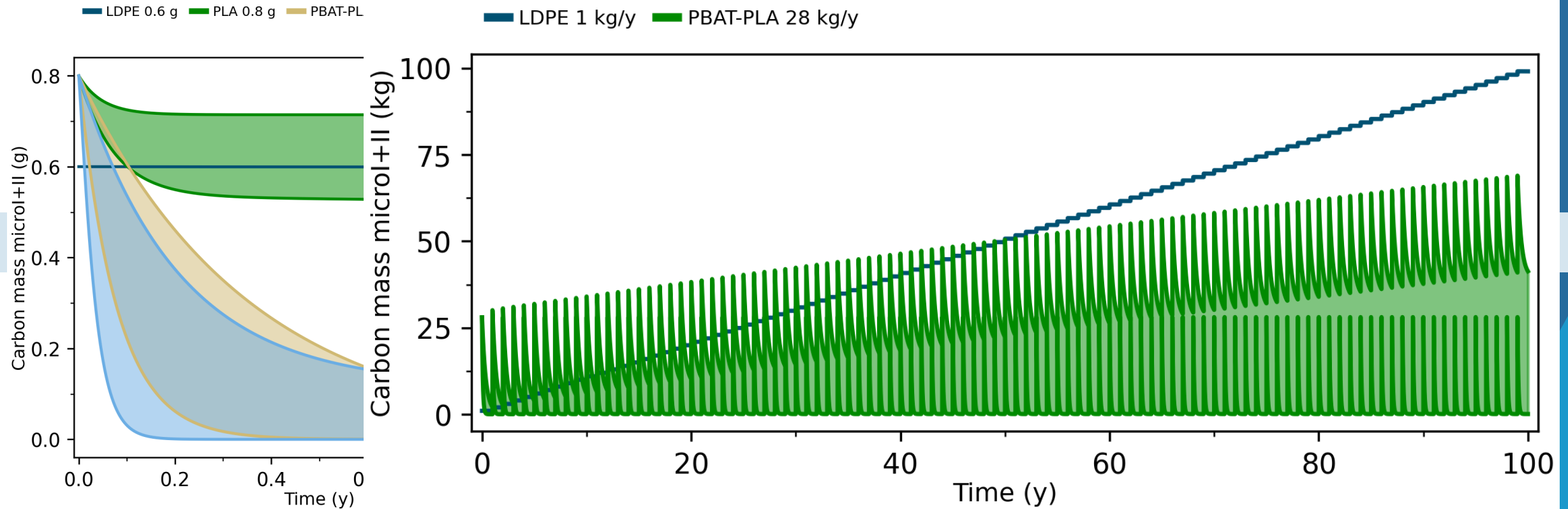


**ELLEN MACARTHUR
FOUNDATION**



Graph: Material coordinate system of bioplastics

Examples of model output



Thanks

LinkedIn

Marieke Brouwer

Scientist Sustainable Products &
Systems (PhD Candidate) | Desig...



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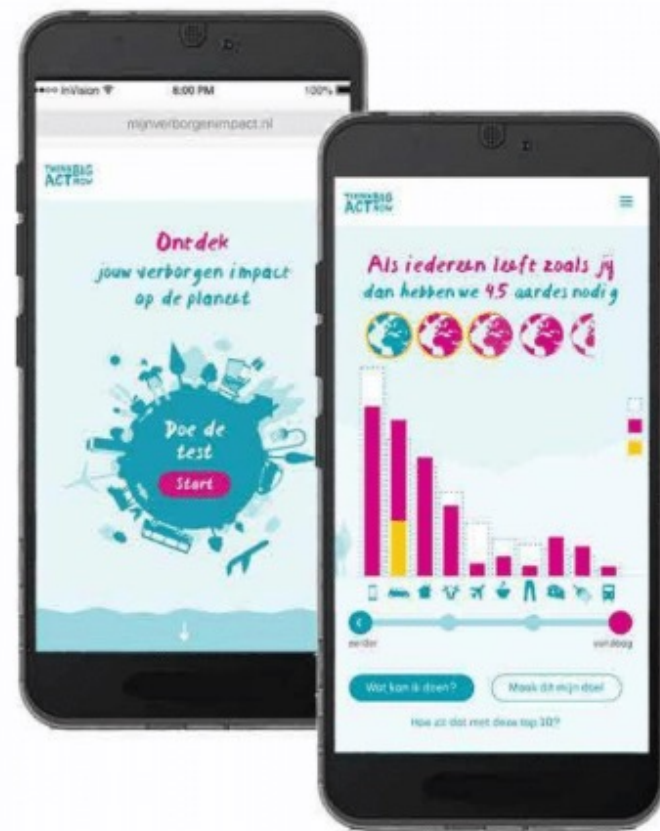
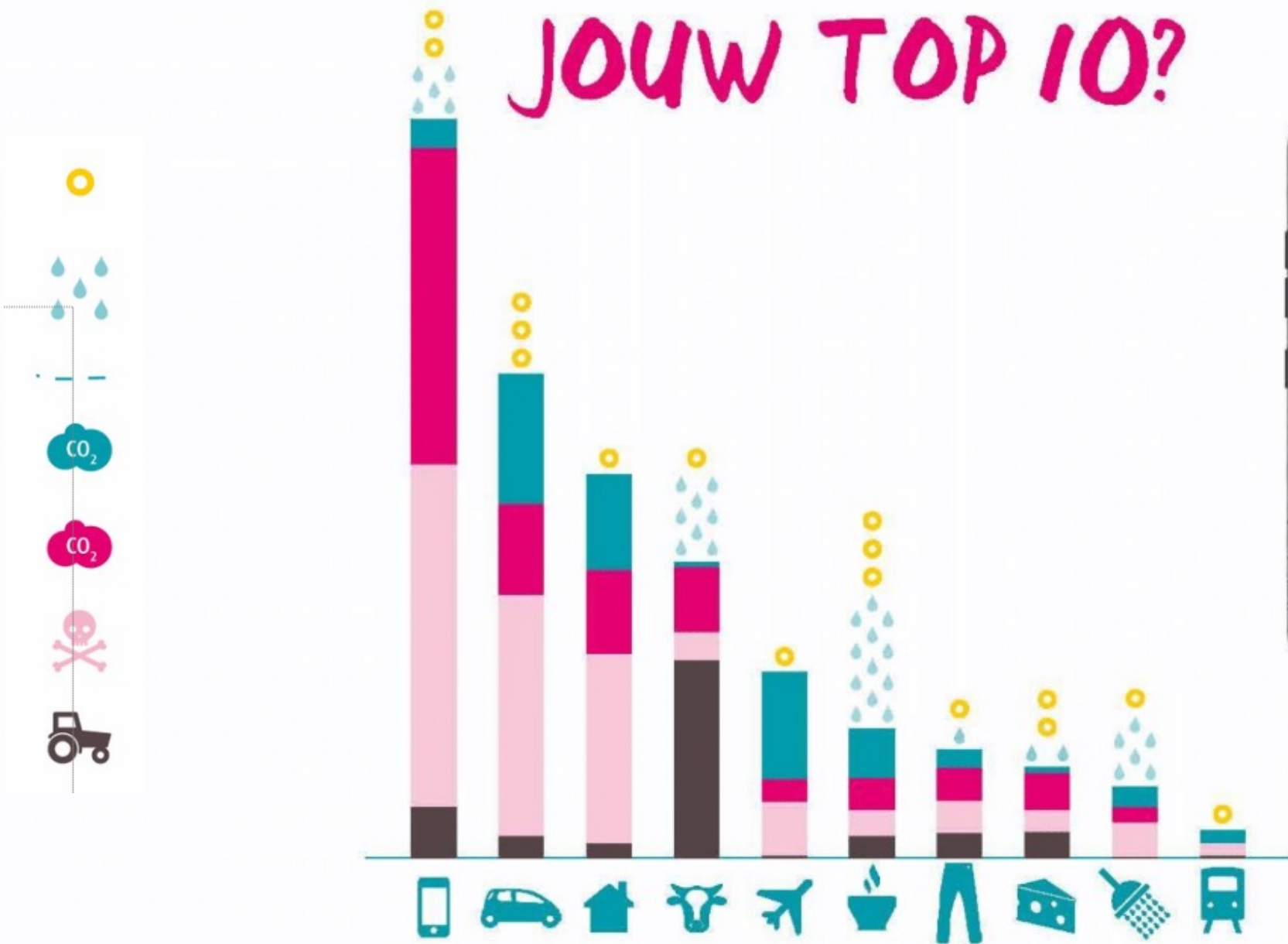
Laura

BROOD NODIG?

BROOD NODIG?



JOUW TOP 10?



mijnverborgenimpact.nl



Zero Waste Tour

Woensdag 12 november

10.00 bij THUIS

Waste winkels Wageningen

- 1 Beek koeling: groente, zuivel
- 2 De groente, fruit, eieren, noten
- 3 Zam: groente, fruit, eieren, tapenade, dadels
- 4 Salon Antonio: ijs
- 5 Lin: groente, fruit, kaas, eieren, brood, Zero Waste lifestyle
- 6 Thuis: foodsharing, plantenasiel
- 7 Kruimig: friet en snacks
- 8 't Zuivelhoekje: kaas, olijven, tapenade
- 9 IJssalon Cicuto: ijs, Billie Cup
- 10 Z&Z: snoepgoed
- 11 Wat in het vat zit: fermenteerwinkel
- 12 Yummie Africana: Afrikaans eten
- 13 Markt: groente, fruit, noten, brood, koek, eieren, muesli, vlees, vis tapenades, bloemen
- 14 Passantje: friet en snacks
- 15 Colors: Billie Cup
- 16 Cafe Tola: Billie Cup
- 17 Me&More: deodorant

