

How P connects Brussels to its hinterlands

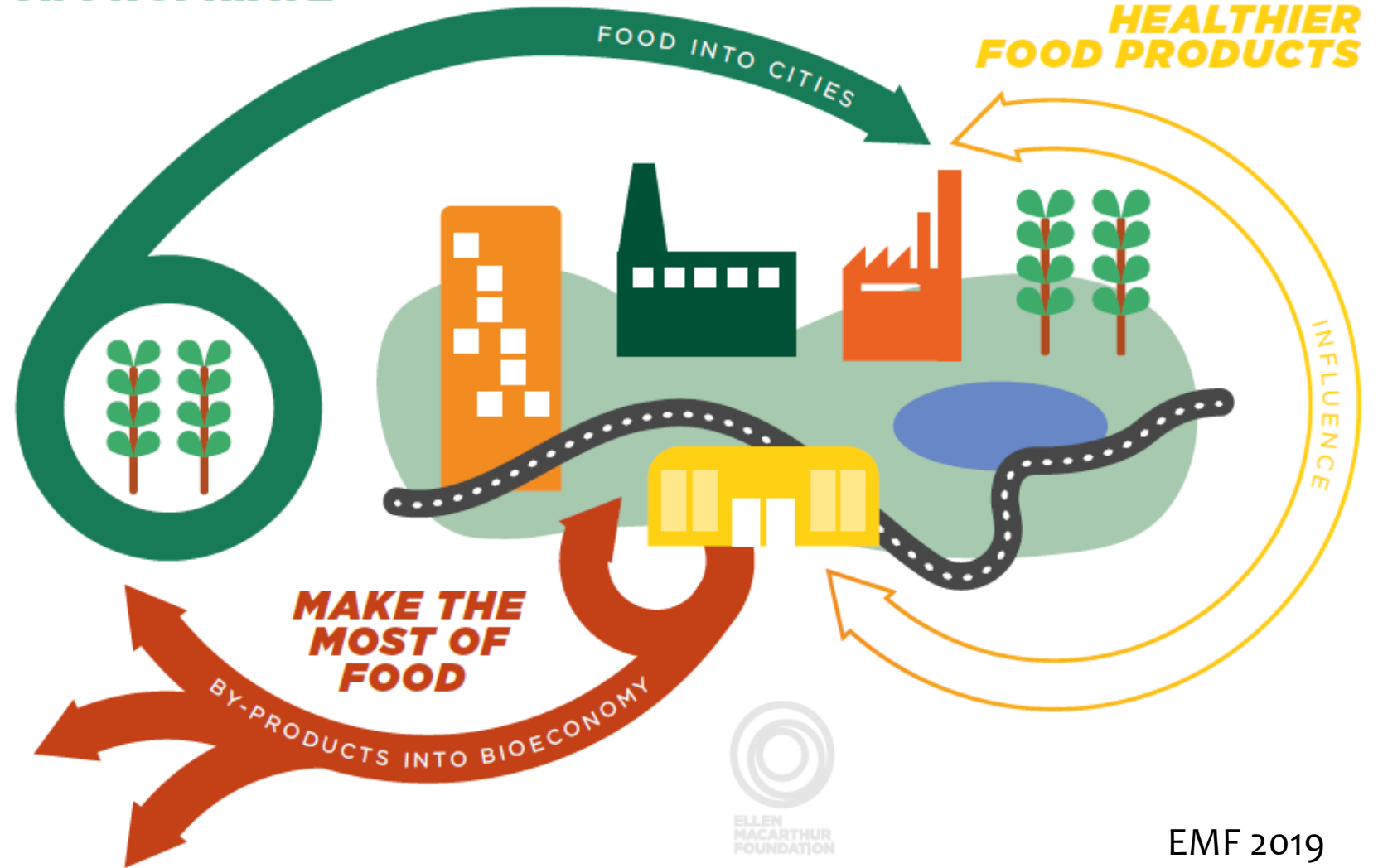
Seminaire MOSAIC

Rennes, 5/7/2021

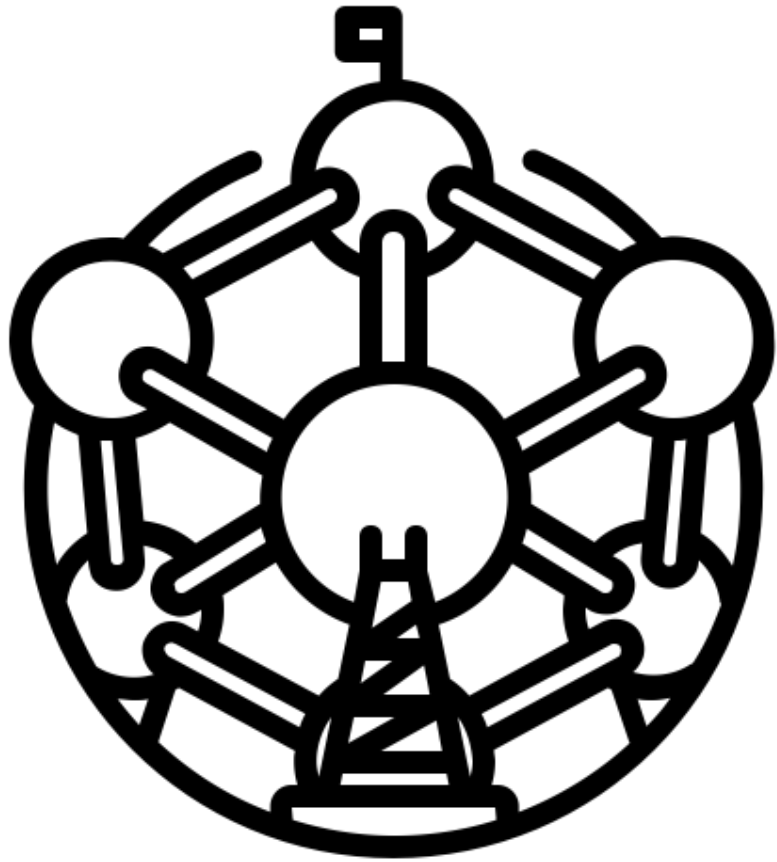
P & food
system
circularity

**SOURCE FOOD GROWN
REGENERATIVELY,
AND LOCALLY WHERE
APPROPRIATE**

**DESIGN AND
MARKET
HEALTHIER
FOOD PRODUCTS**



Circularity in Brussels food



Outline

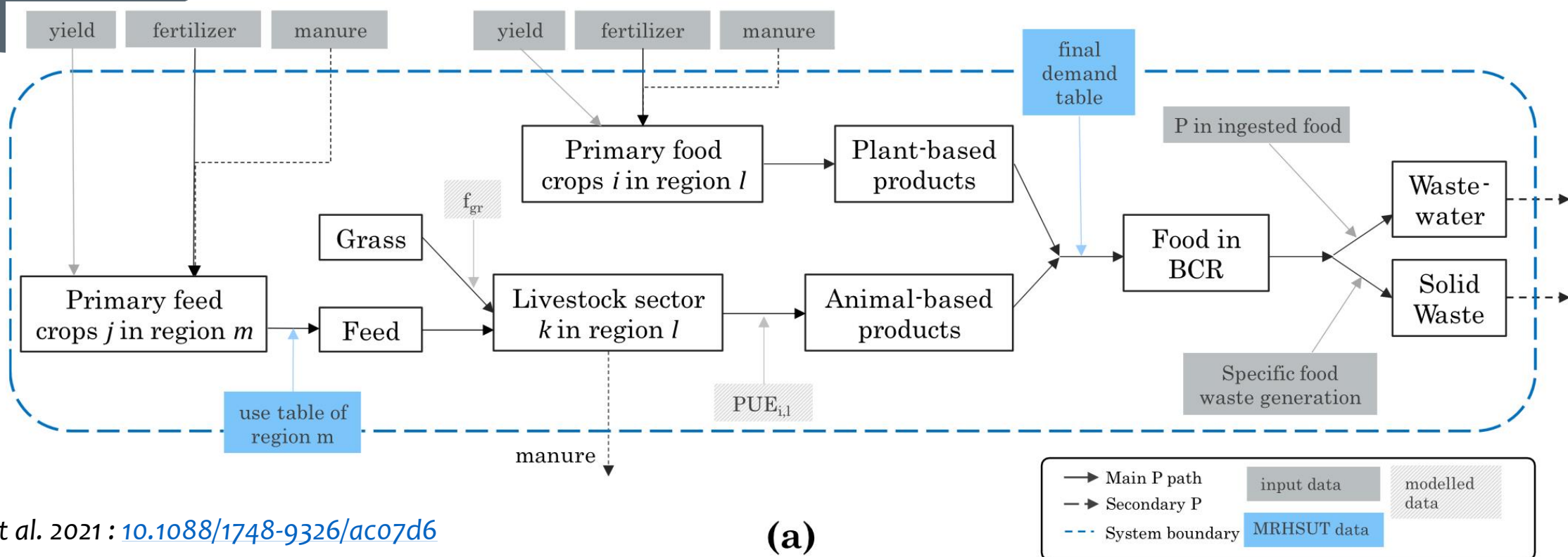
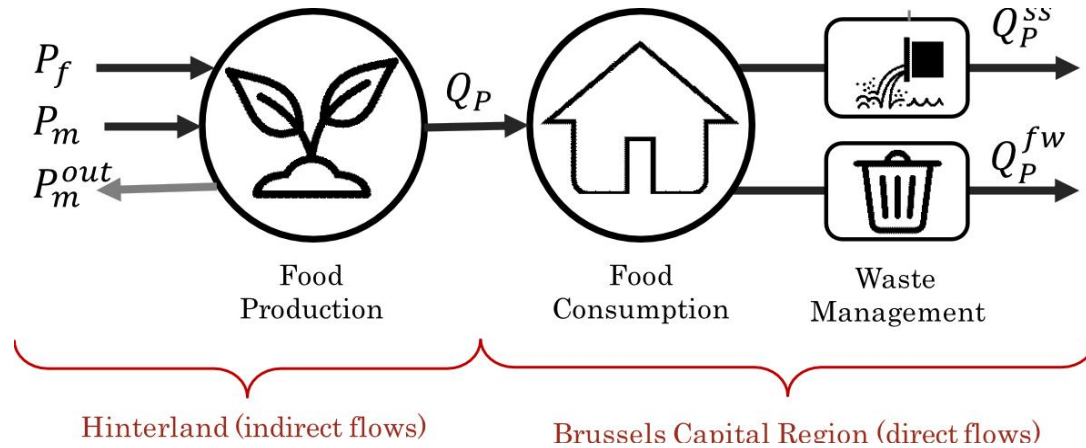
1. Supplying hinterland

2. Receiving hinterland

3. Making hinterland?

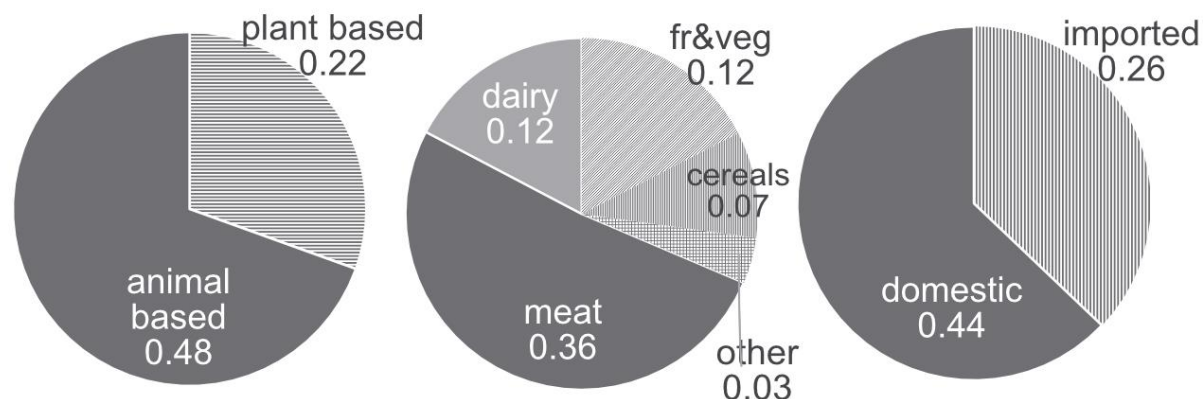
1. Supplying hinterland

P footprint of Brussels' diet

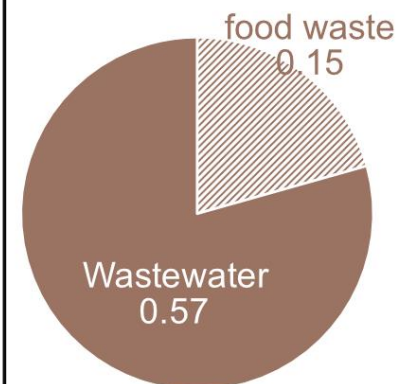


P flows into Brussels

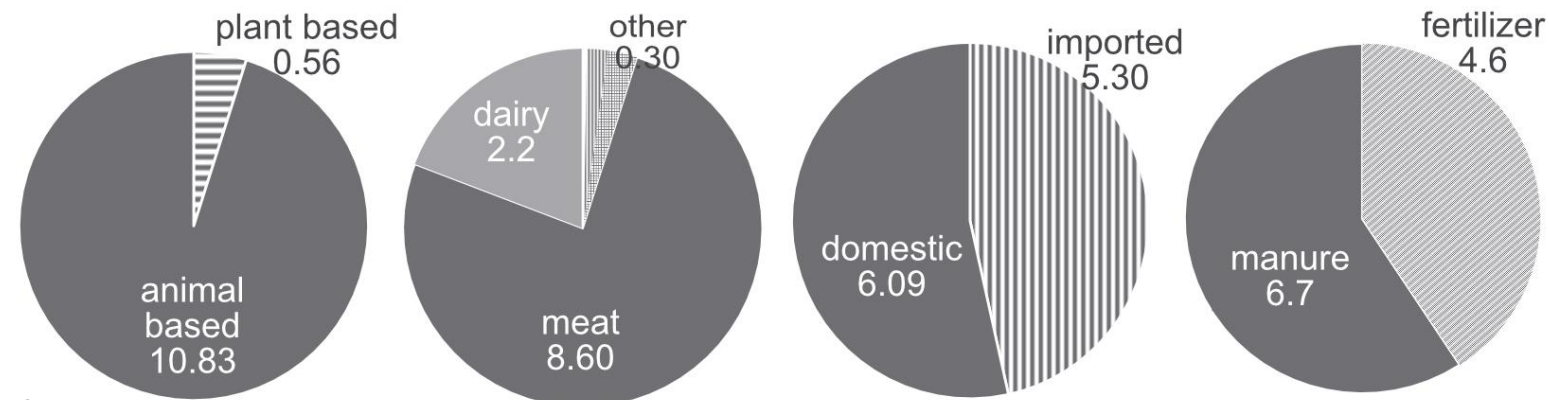
(a) Direct Inflows: 0.7 kgP/cap/yr



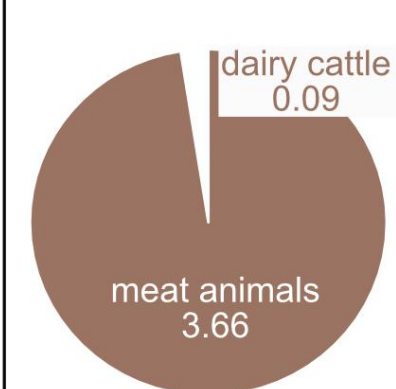
(c) Direct Outflows: 0.72 kg/cap/yr



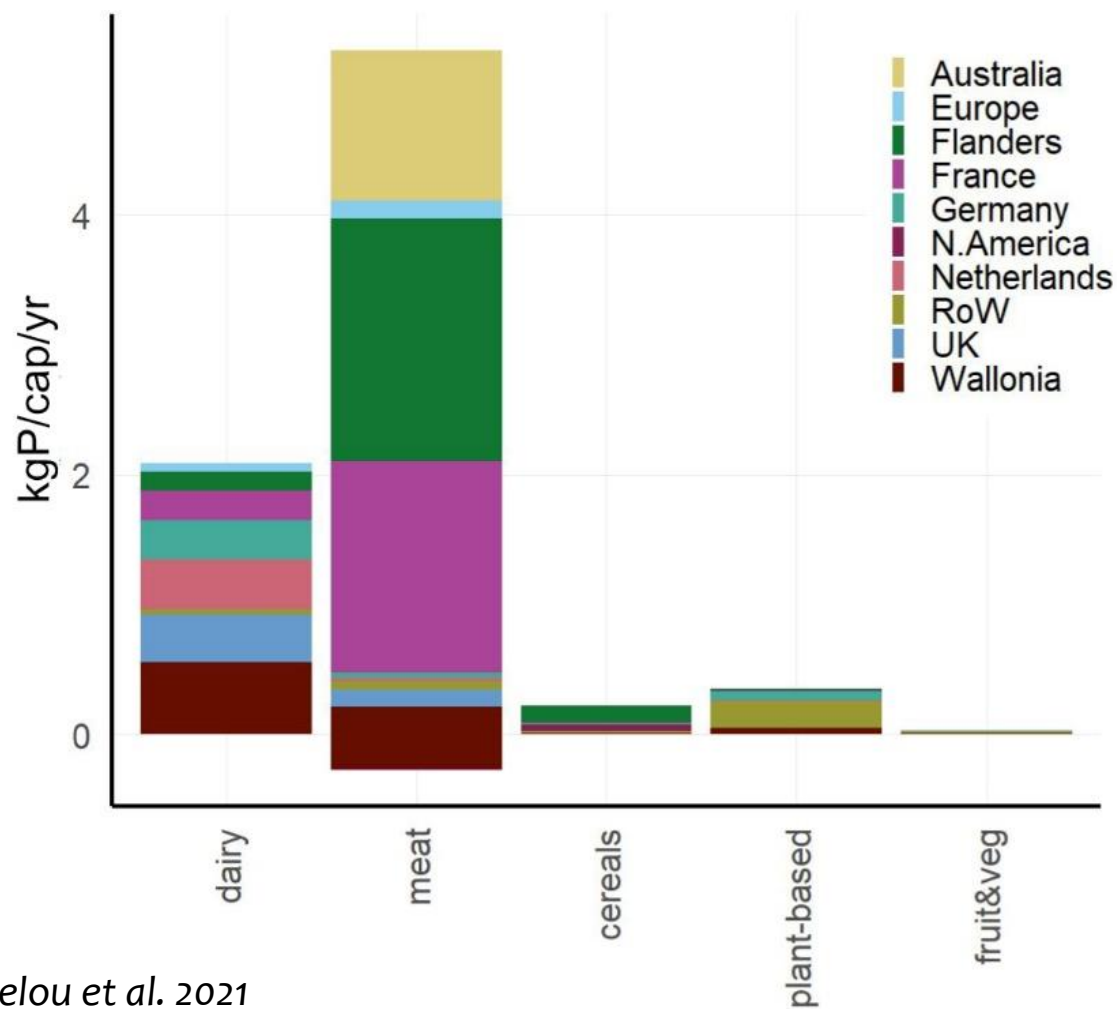
(b) Indirect Inflows: 11.4 kgP/cap/yr



(d) Indirect Outflows: 3.75 kg/cap/yr



P flows into Brussels II



Who is feeding Brussels?

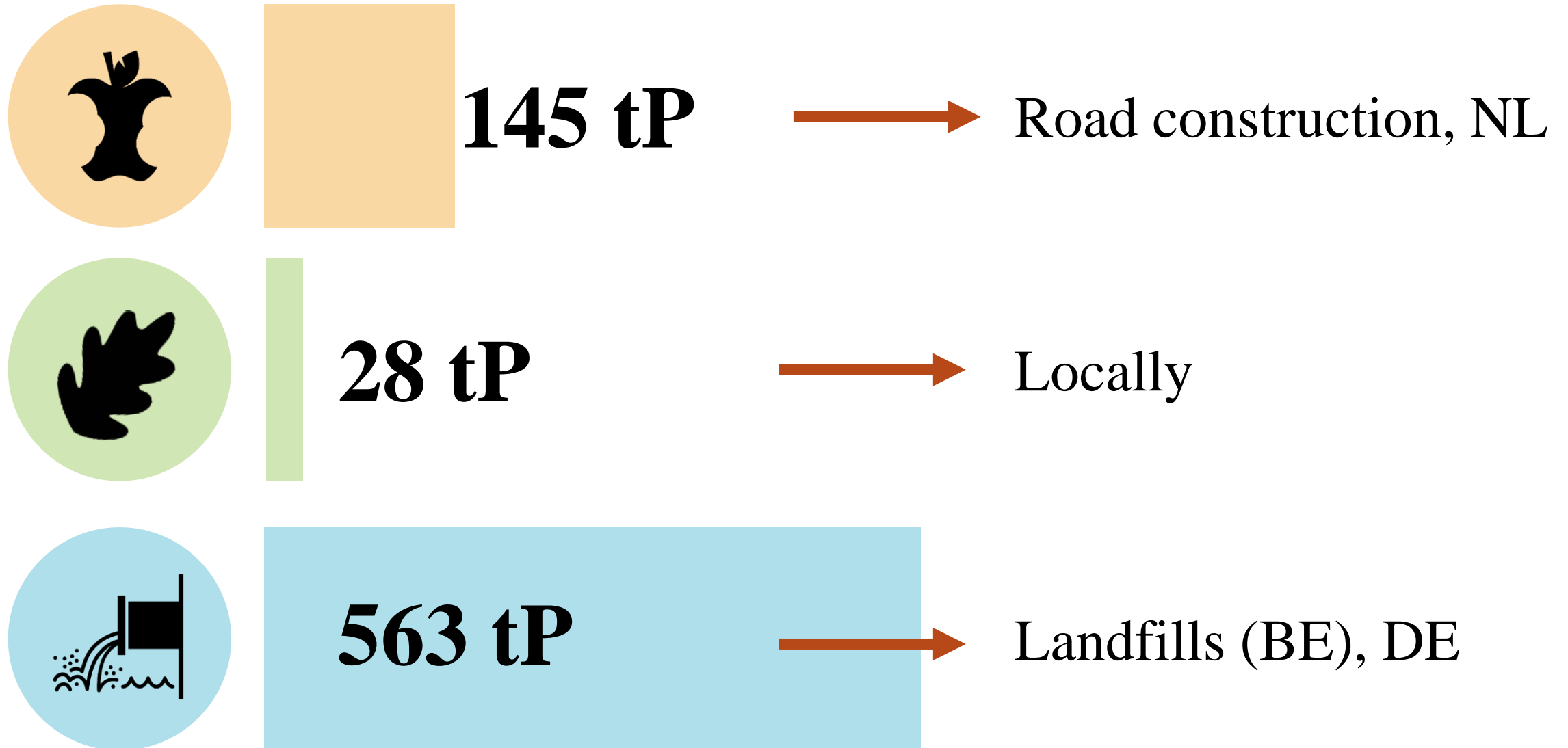
	P in food (t)	Share of P	Distance
Flanders	5198	46%	< 150 km
Wallonia	1475	13%	< 200 km
Europe	4100	37%	100 – 1000 km
Americas	89	1%	
Rest of the World	331	3%	

Who is feeding Brussels?

	P in food & feed (t)	Share of P	Distance
Flanders	1387	12%	< 150 km
Wallonia	693	6%	< 200 km
Europe	5332	47%	100 – 1000 km
Americas	2551	23%	
Rest of the World	1340	12%	

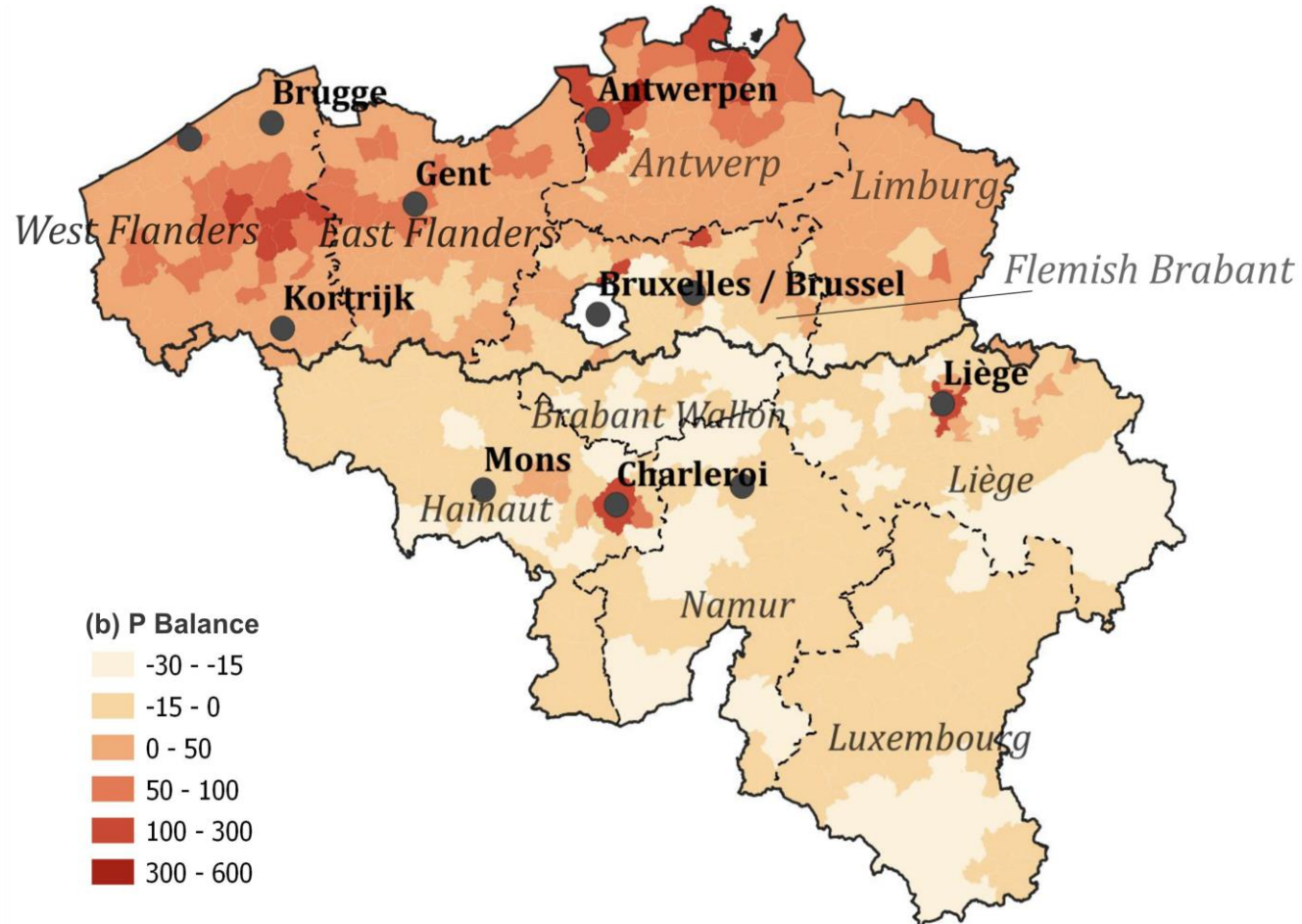
2. Receiving hinterland

P flows out of Brussels



What blocks P outflows ?

1. No production in Brussels
2. Oversupply of manure in Flanders
3. Virtual ban of sewage sludge application in Flanders
4. Not allowed to export « waste » to Wallonia



Summary : where is Brussels' hinterland?

Supplying

Supplying hinterland :
EVERYWHERE

Receiving

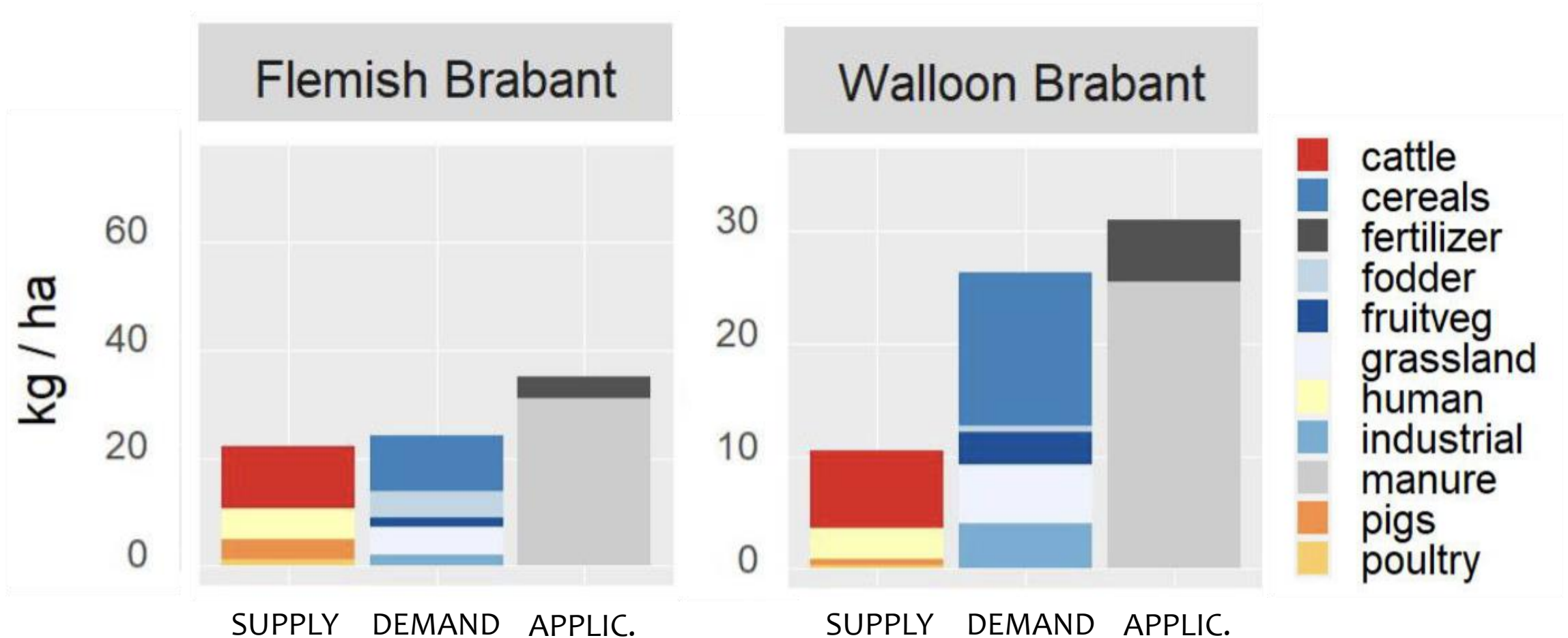
Receiving hinterland :
NOWHERE

3. Making hinterland ?

Brussels & Brabants



What the Brabants can take up



What the Brabants can give back

tonP/yr	BCR	Flemish Brabant	Walloon Brabant	BCR + Brabants	% local production
Total P consumption	512	487	172	1 171	36%
vegetal P consumption	233	221	78	532	17.5%
animal P consumption	268	255	90	612	332%
total manure produced	58	1 423	620	2 101	
food production	55	1 540	1 444	3 039	
feed + grass production	0	1 123	476	1 599	
edible animal products	0	141	43	185	
inedible animal products	0	607	146	753	

Conclusion

- Brussels = Parasite ?
- How to give back to hinterland?
- Proximity +
- Beyond the region

Thank you

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