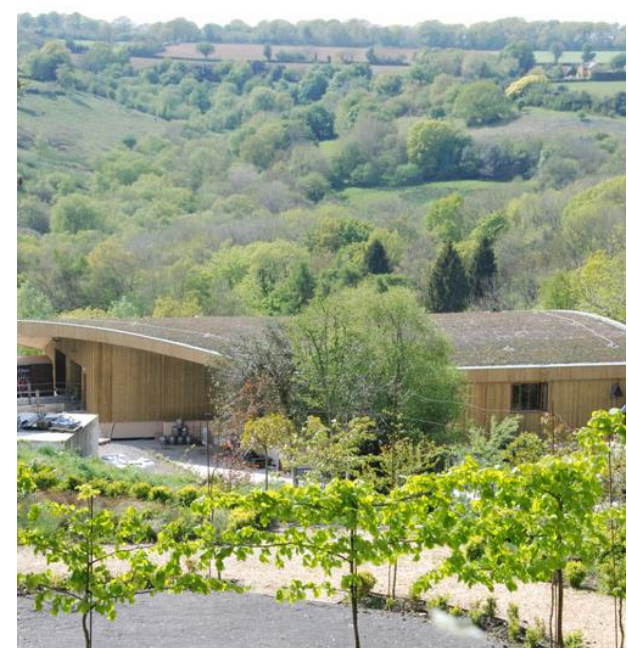


Sustainability issues for smaller breweries

**Brewing and Beer Brands Forum
12 May 2021**



My sustainability champions



Smaller breweries can change faster



Our business formula...



**Great
beer**

+

**Great
pubs**

for a

**Greater
good**

Our triple bottom line...

**Shareholder
value**

**Giving back
to community**

**Impact on
environment**

Our values...

Quality

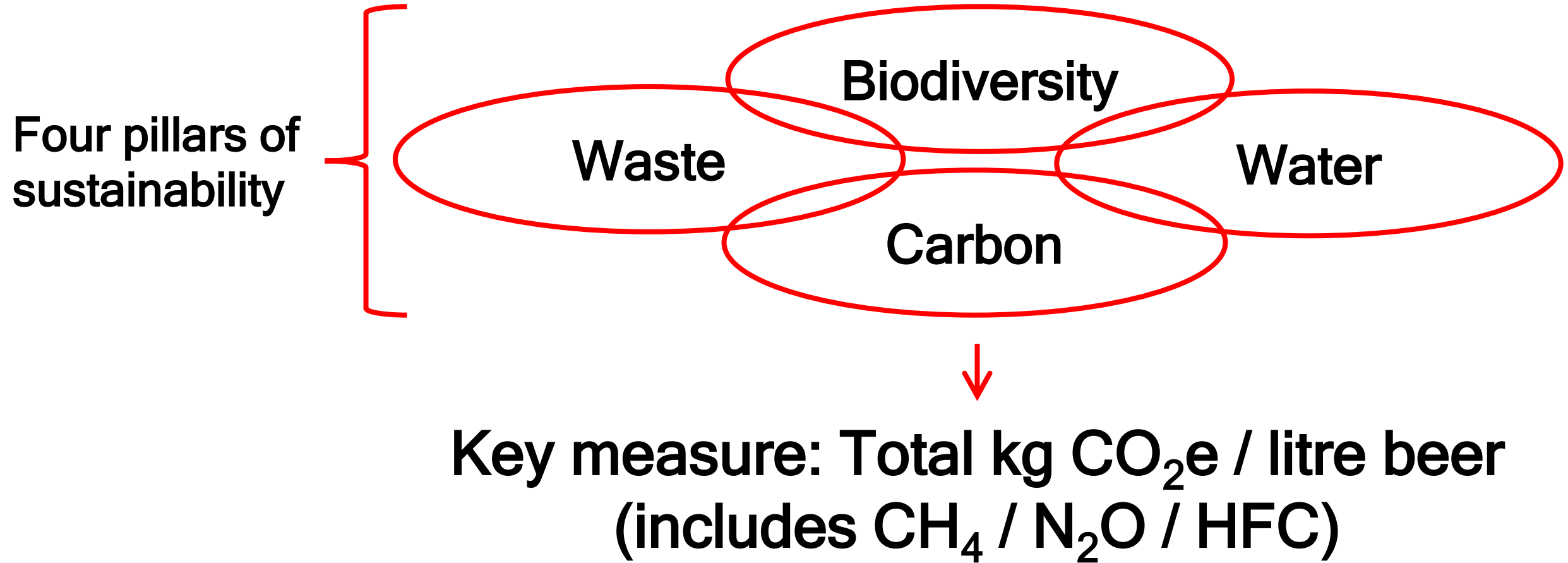
Partnership

Community

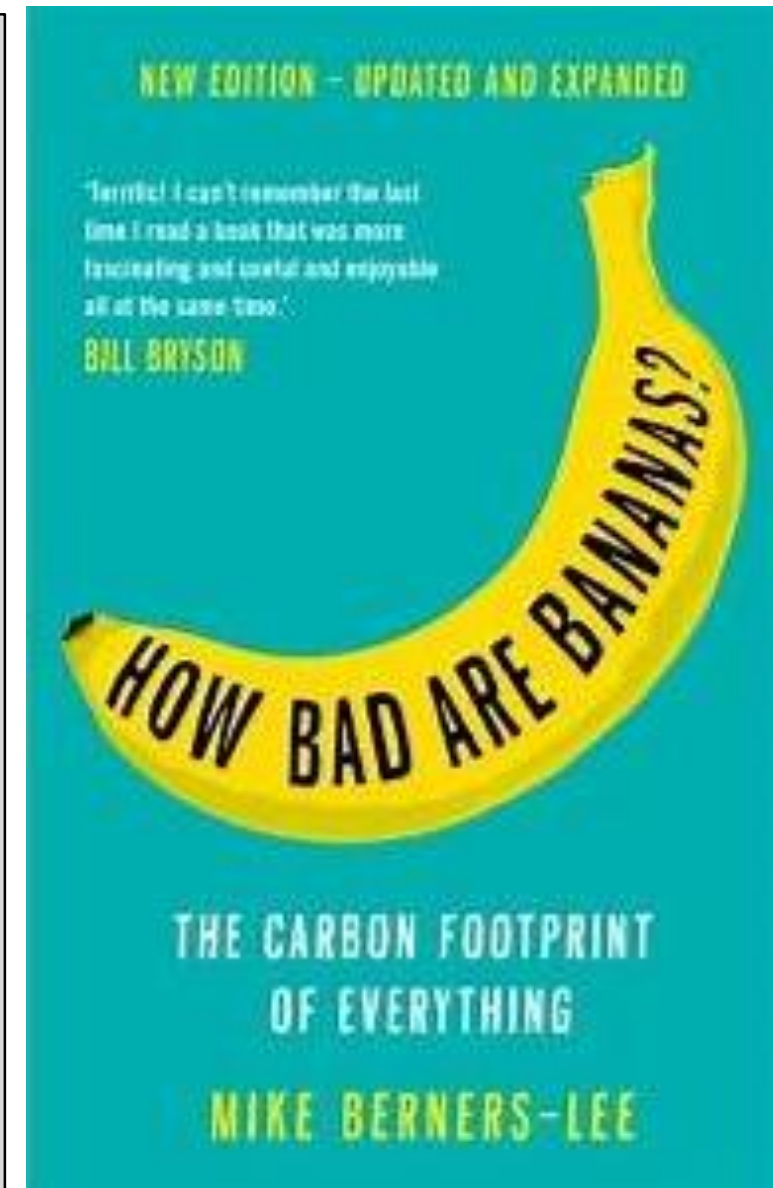
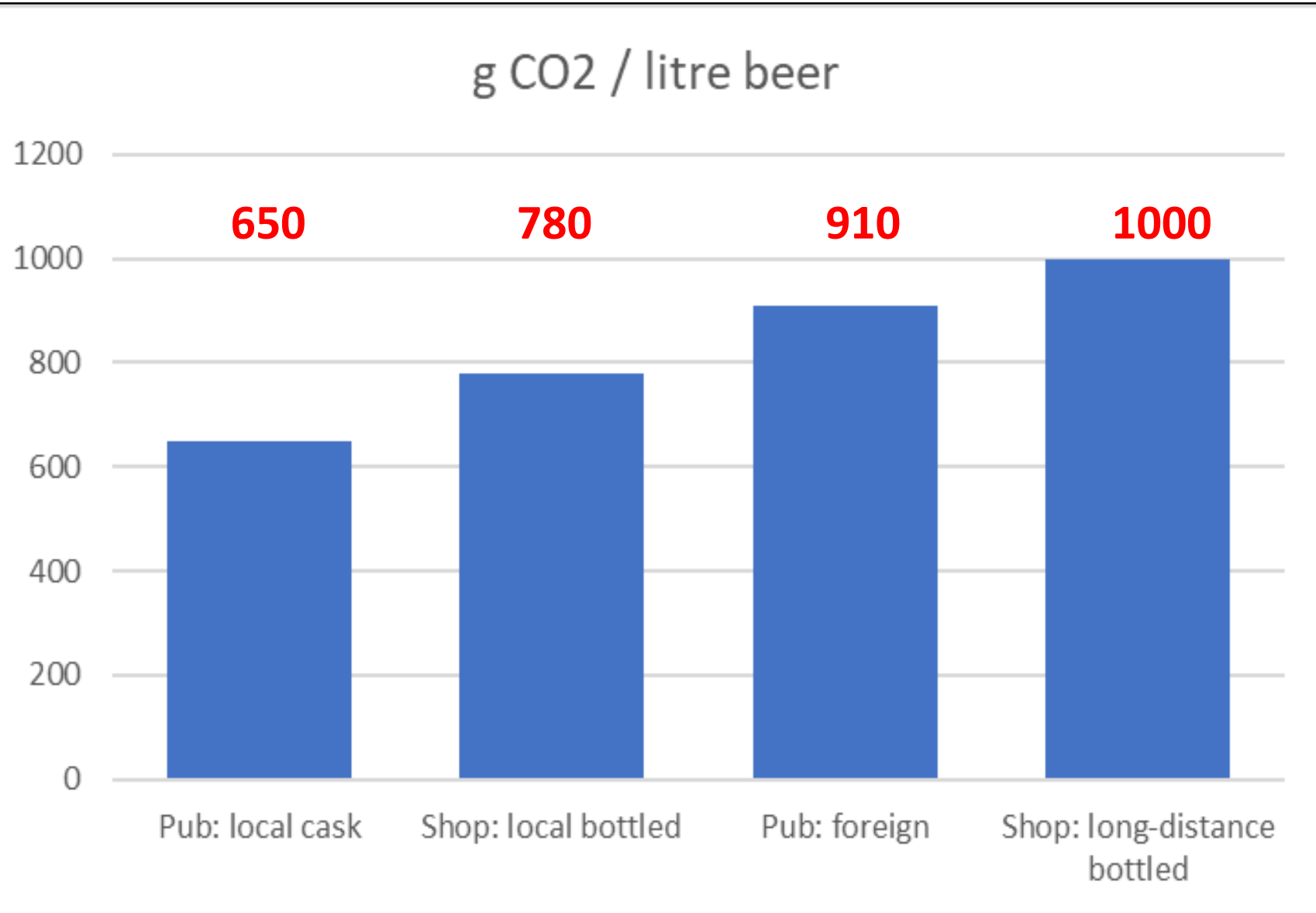
Independence

Sustainability

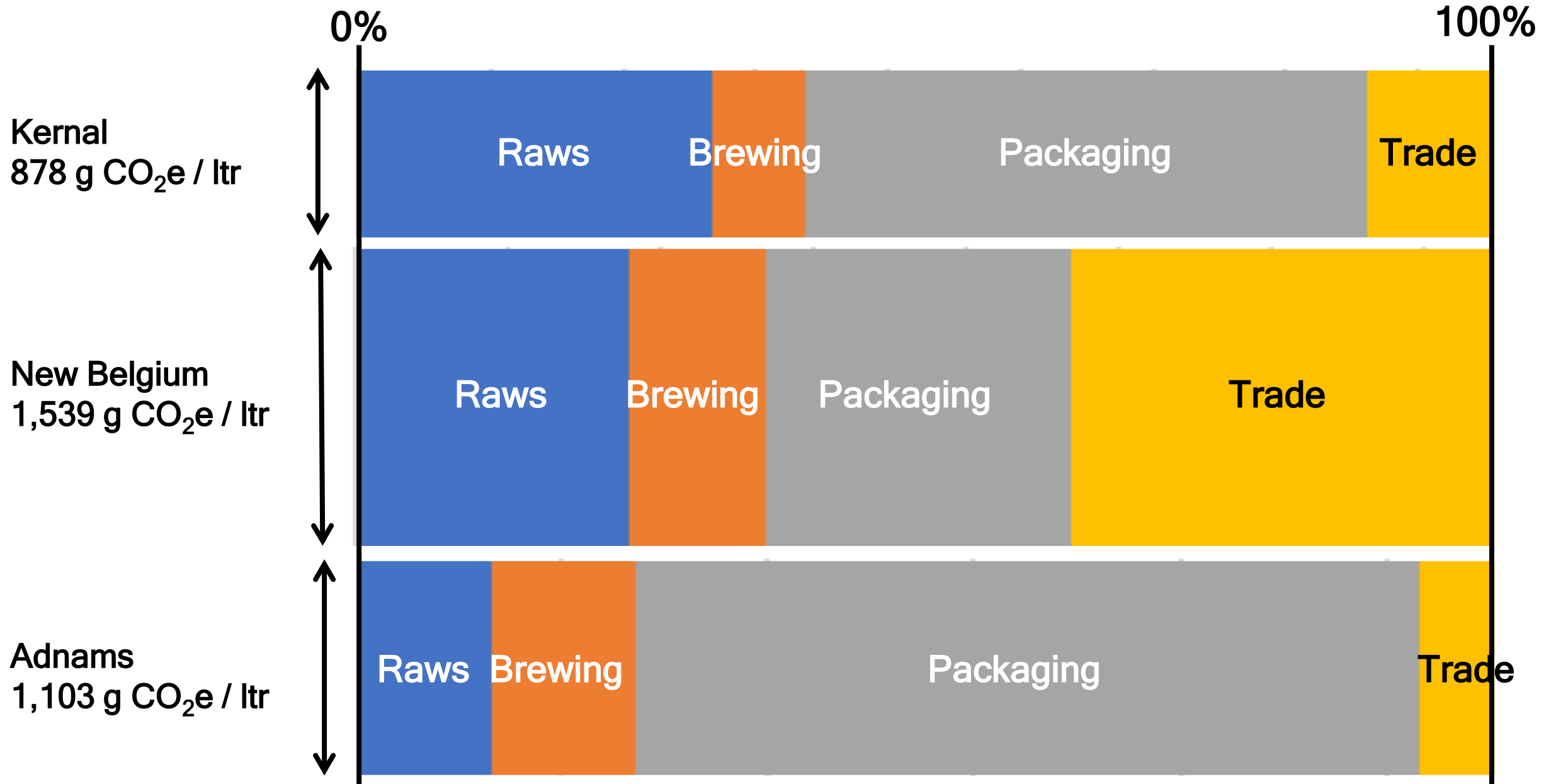
Carbon is most urgent sustainability issue



Local / draft beer has lowest carbon footprint



Comparing CO₂e studies needs common methods



Industry CO₂e collaboration all around us



WineGB Carbon Calculator

In association with:



Farm
Carbon
Calculator

By specifying that our growers use the lower 'abated nitrogen' fertiliser we have reduced the carbon footprint of our primary raw material

Muntons Farming Carbon Footprint Calculator

Muntons Farming CARBON FOOTPRINT Calculator

What is your yield of barley? 5 tonne
How many tractor hours did you travel on farm in your tractor? 9 hours
How much barley seed did you use? 500 kg pe
How much biofertiliser or compost did you use? 0 kg pe
How much Ammonium Nitrate (as N) was applied? 100 kg pe
How much Triple Superphosphate (as P₂O₅) was applied? 30 kg pe
How much Potassium Chloride (as K₂O) was applied? 1 kg p
How much Pesticide was applied? 3 kg p
Is your fertiliser sourced from a carbon efficient producer*?

5 tonne
9 hours
500 kg pe
0 kg pe
100 kg pe
30 kg pe
1 kg p
3 kg p
N inse

Your Carbon Footprint is

301



Emissions per hectare

Emissions per tonne

Total nitro

Total

2. Yield

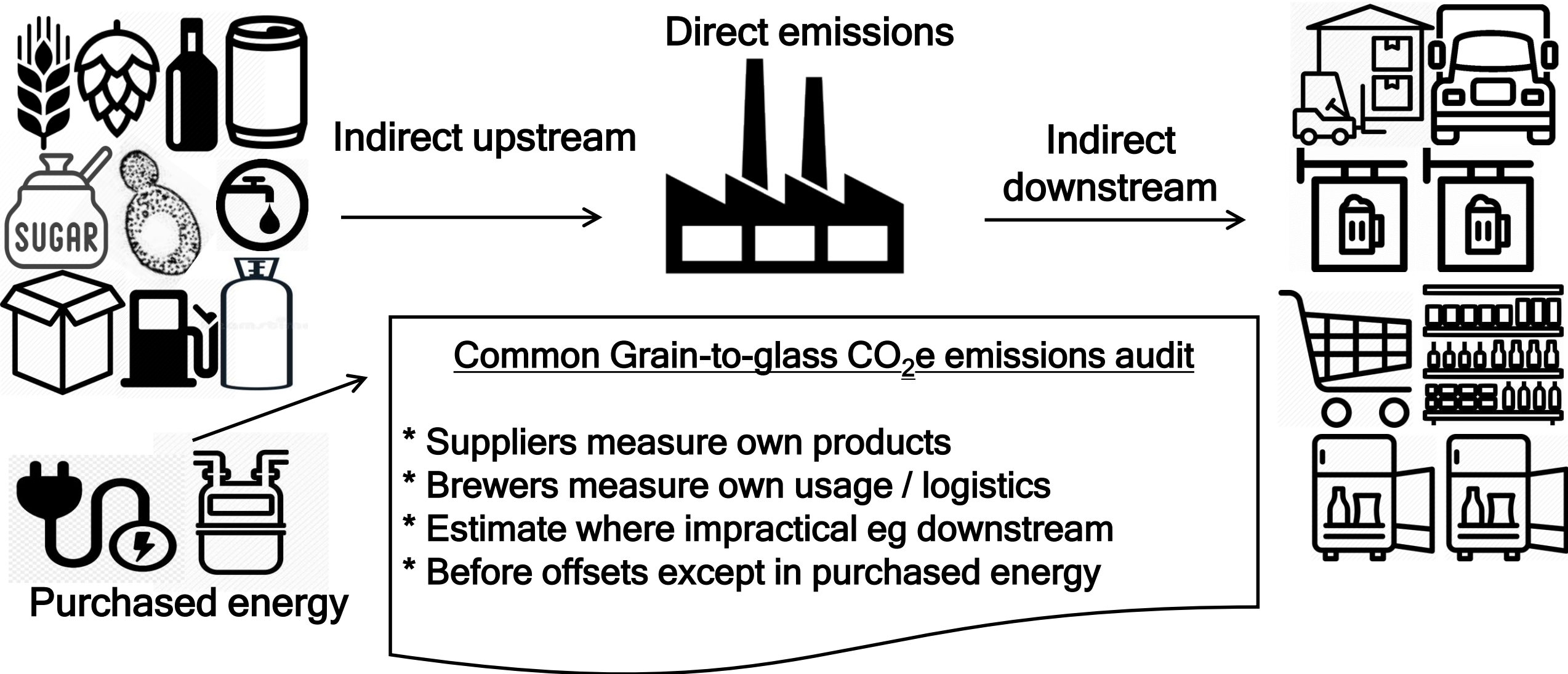


NET ZERO
PUB

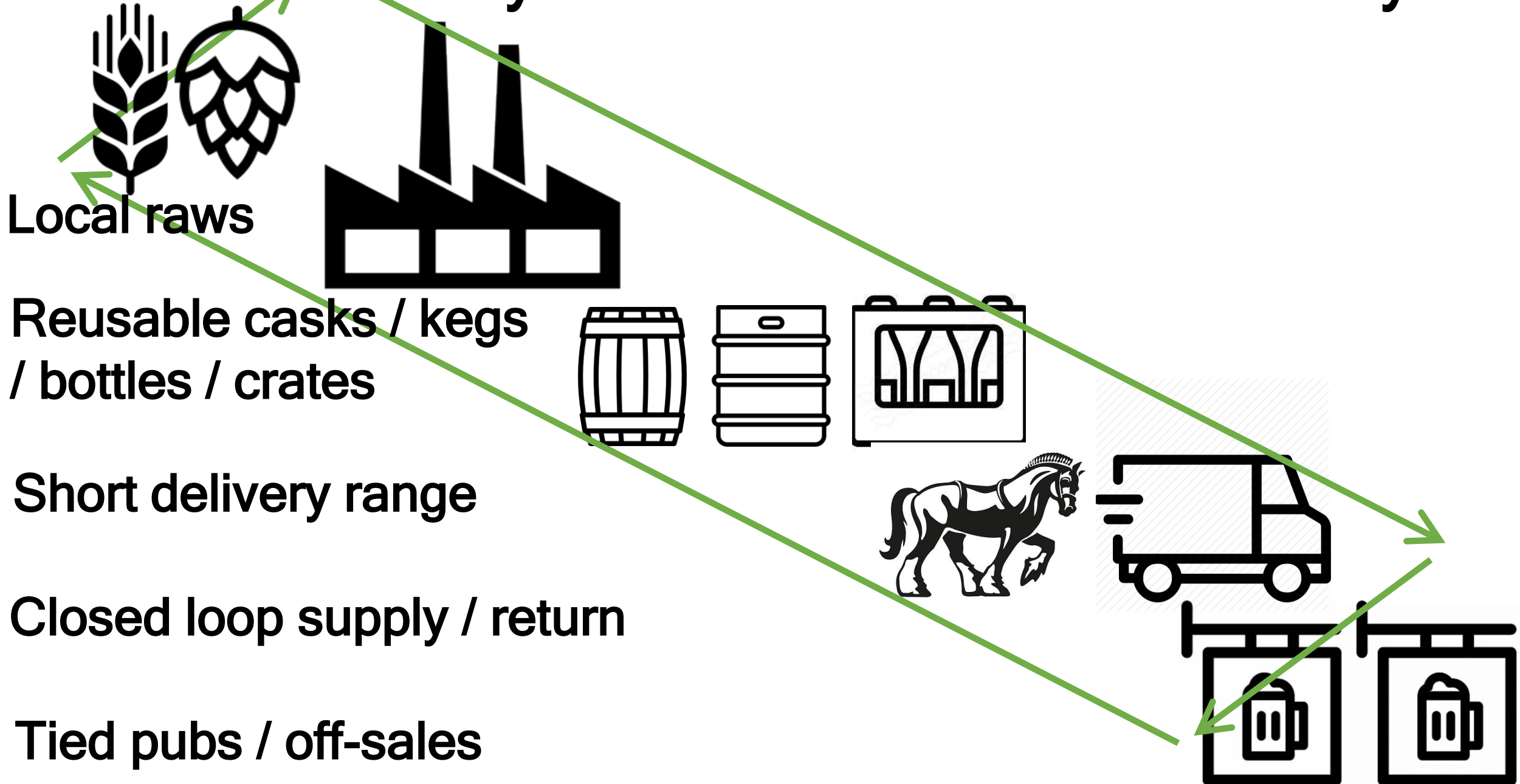
PROTOCOL



Similar protocol needed for brewing industry



Tied house system = Local circular economy



Could it end with this?

