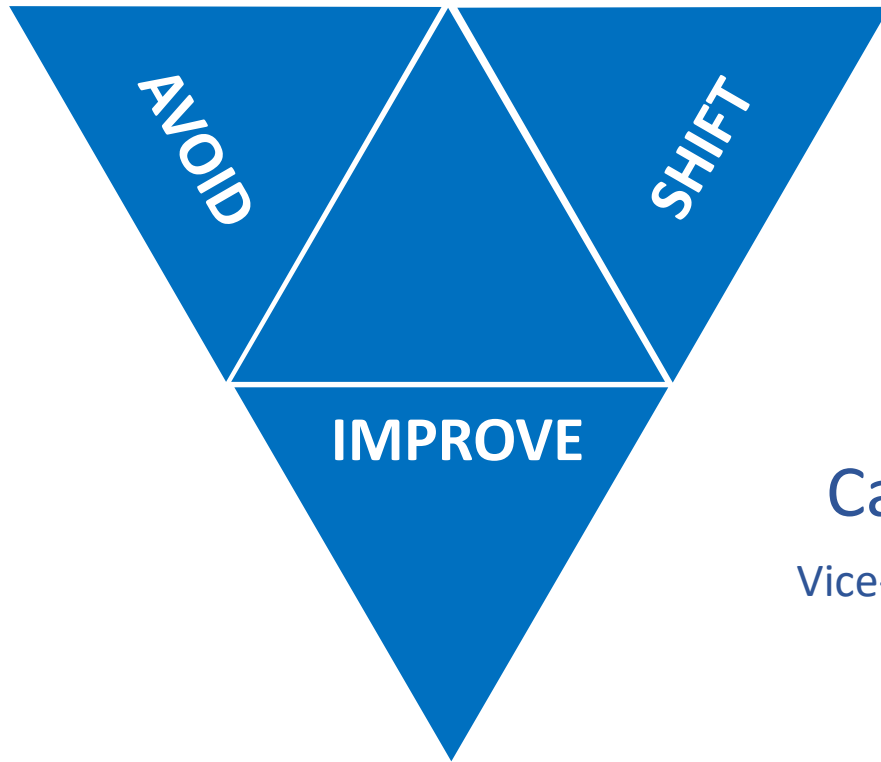
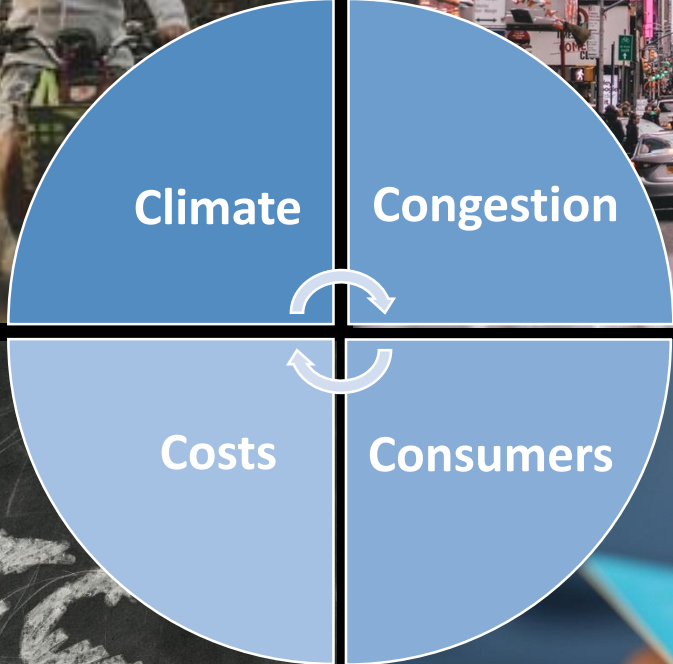


Low Carbon Logistics

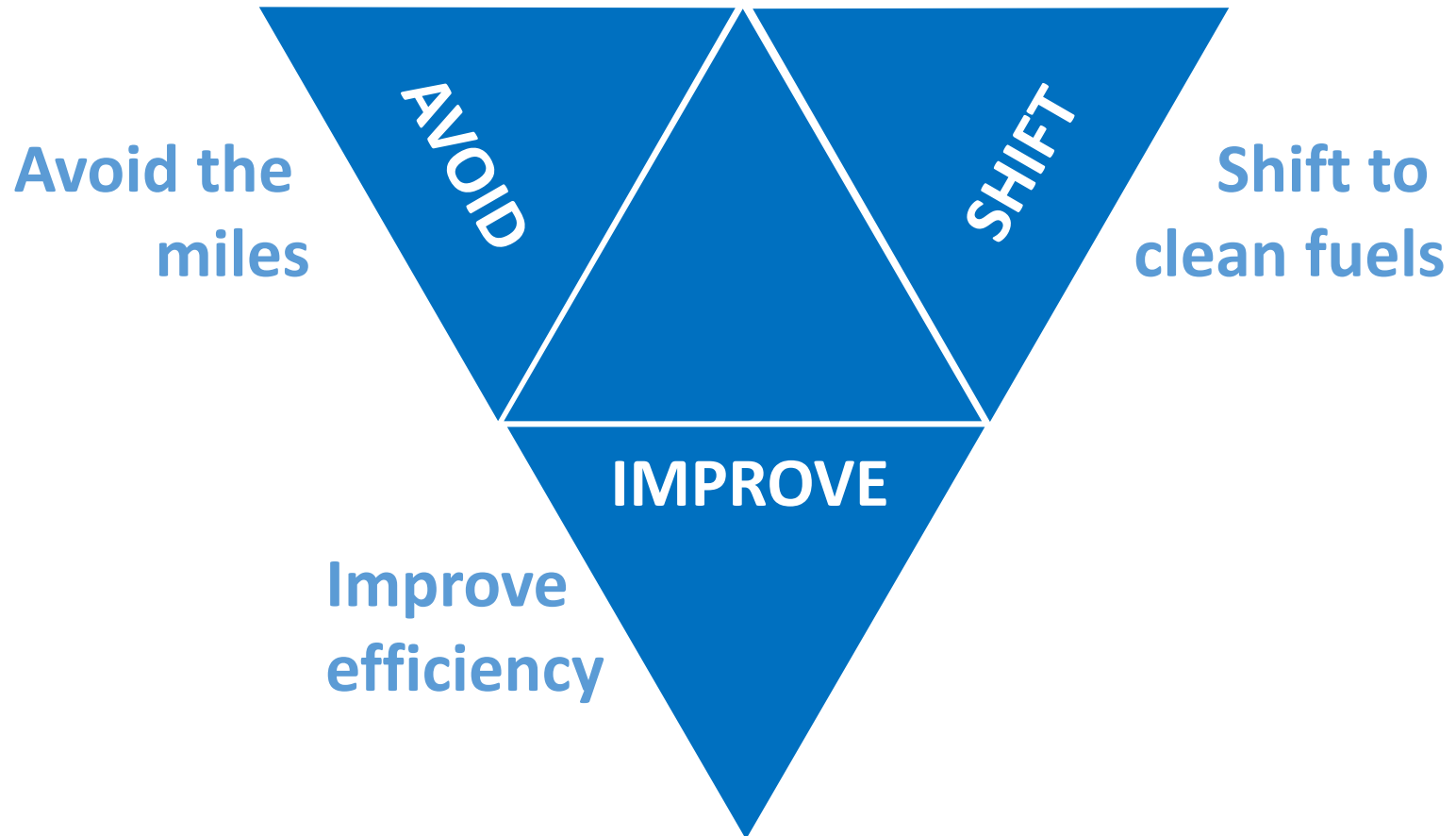


CILT Vision 2035
19 September 2018

Catherine Weetman MSc FCILT FRSA
Vice-Chair, Environment & Sustainability Forum, CILT
Director, Re-think Solutions



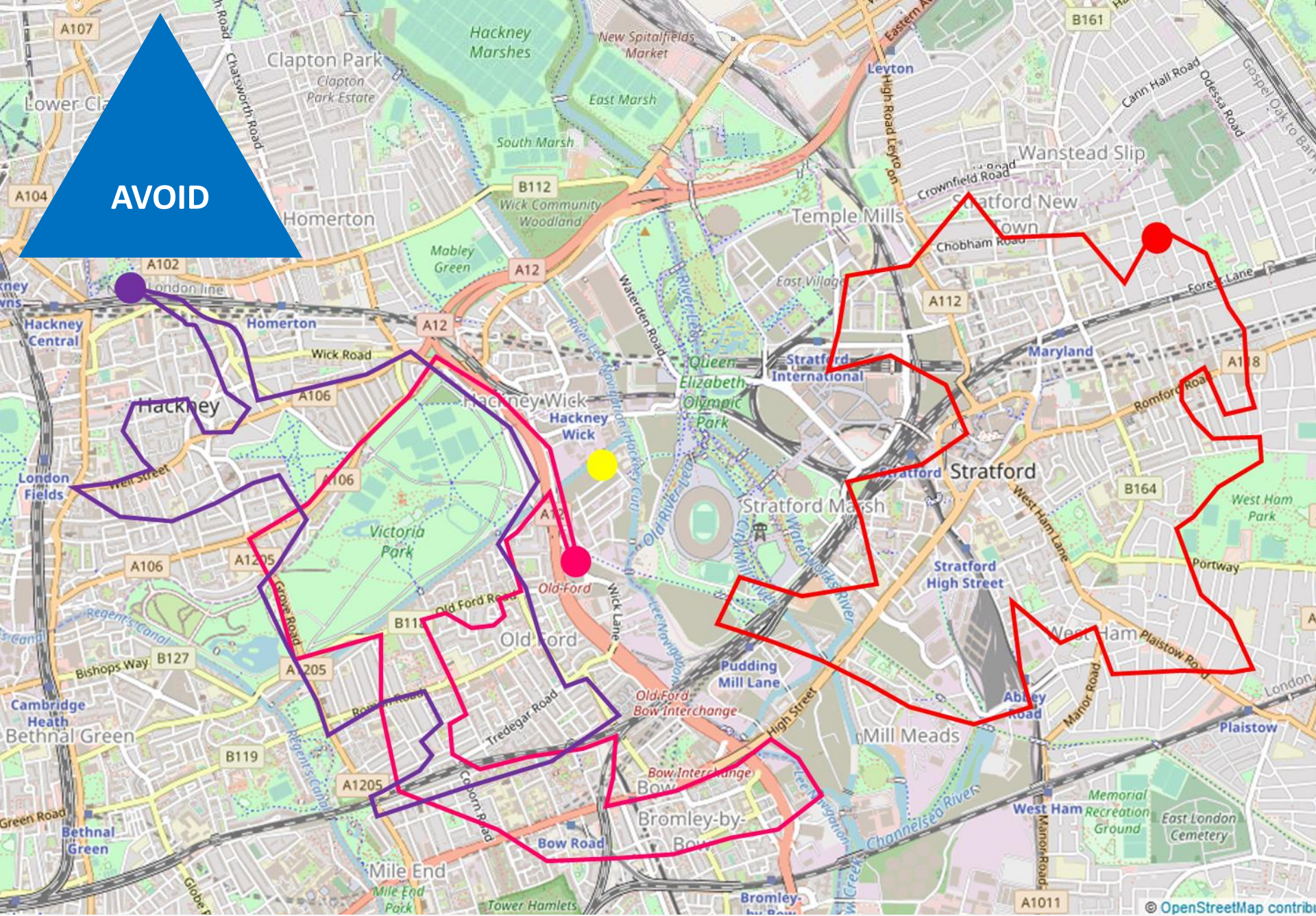
Low Carbon Transport



Source: World Business Council for Sustainable Development, Road Freight Lab

www.wbcsd.org/Clusters/Climate-Energy/Road-Freight-Lab/Resources/A-Low-Carbon-Freight-report-under-WBCSDs-LCTPi

AVOID



© OpenStreetMap contributors

Mumbai Dabbawalas: Tiffin box deliveries

AVOID

200,000 lunch boxes each day
5000 dabbawalas (operatives)
Same day delivery via bike/rail
No computers!
Error rate ~ 0.025%



Image: CC Kumarnm at Malayalam, Wikipedia

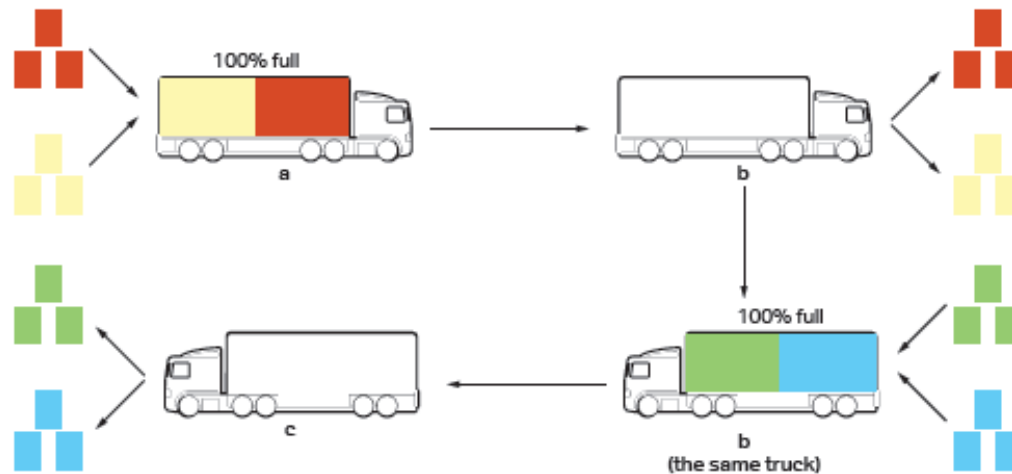
Box coding:
Collection address
Starting station
Destination station
Destination address

Image: Steve Evans from Citizen of the World (Wikipedia)

Collaborative advantage – asset-sharing

AVOID

WBCSD ROAD FREIGHT LAB PLATFORM DEVELOPED WITH ROUTEMOKEY



The asset sharing benefits from the Road Freight Lab platform are entirely about a different process that combines the two preceding examples. We will optimize routes for several fleets together, including sharing opportunities as part of the optimization process. The four main steps of the process are to the right.



Fleets provide their data to the platform



Platform knows each fleets' sharing rules and arrangements



Platform jointly optimizes the fleets, optimizing route and sharing opportunities together



Platform provides the results: a route for each fleet, indicating sharing opportunities used

Consolidation and pipelines

AVOID

Mole Solutions Northampton UK



Clean modes

SHIFT



Cycle cargo



Electric vehicles, drones & robots

Underground & *Virgin* hyperloop one overground pipelines



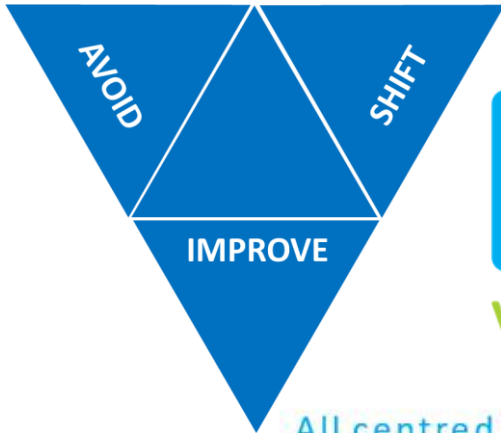
Mole Solutions Northampton UK

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Image: DHL by Sam Churchill, Flickr

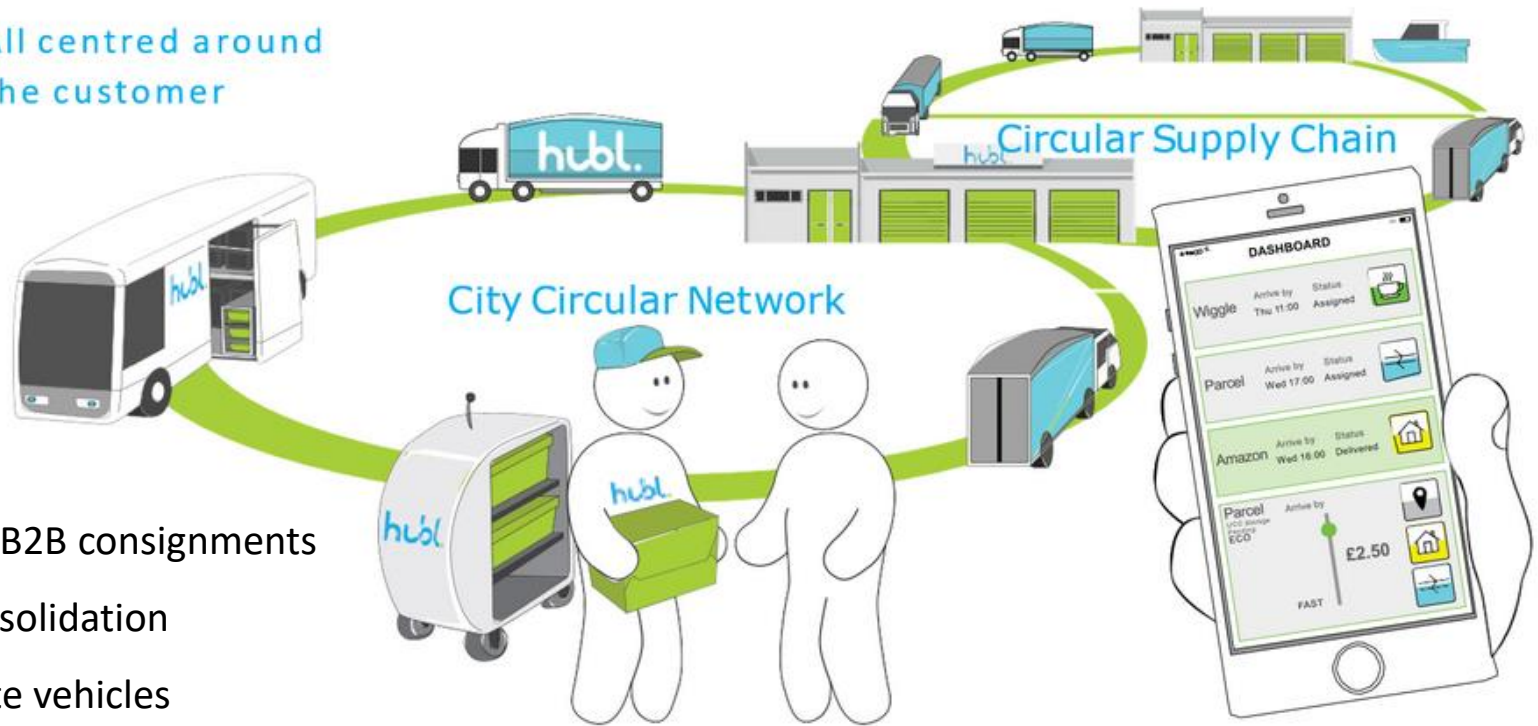




hubl.
we go full circle

A Revolution in Last Mile Delivery

All centred around the customer



Aggregate B2C & B2B consignments

Edge of town consolidation

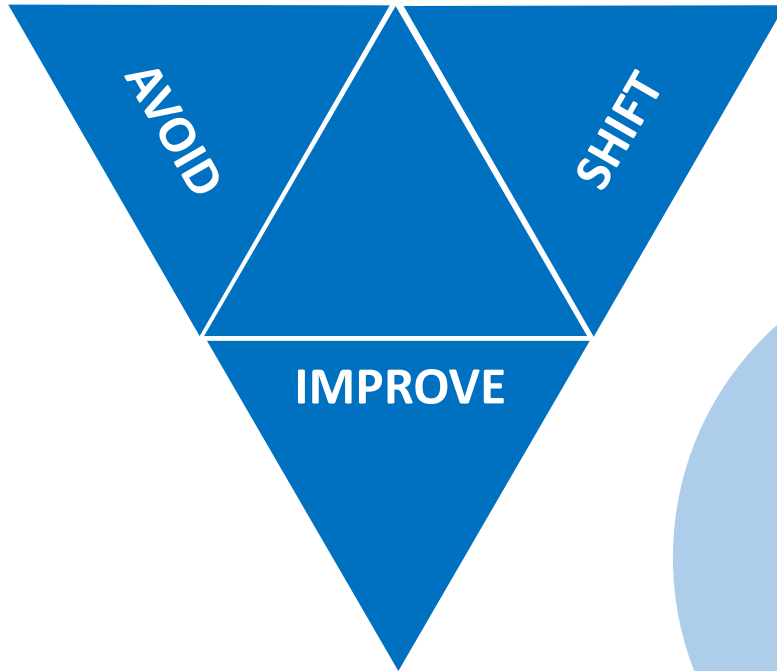
Urban-appropriate vehicles

App: tracking & 'in-flight' delivery changes

B2B: store and deliver out of operating peak

Image: Hubl Logistics Ltd www.hubl.co.uk

Low Carbon Logistics



Re-think

Making sense of sustainability

Helping you:

- ✓ Evaluate the risks and opportunities
- ✓ Re-think your strategy to adapt and thrive

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