From cold store to black store

e-commerce drives paradigm shift in supply models

Cold Chain Live

8th of September 2022 – Eelke Westra – Wageningen University & Research







At home, making pancakes





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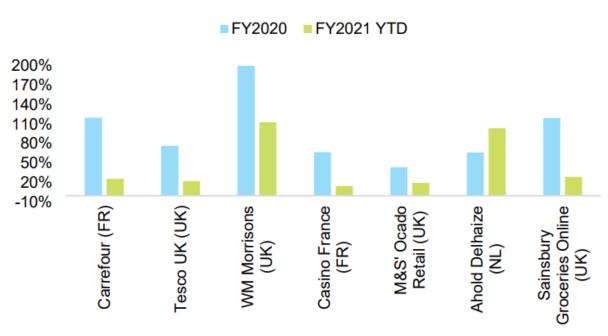






Online grocery sales

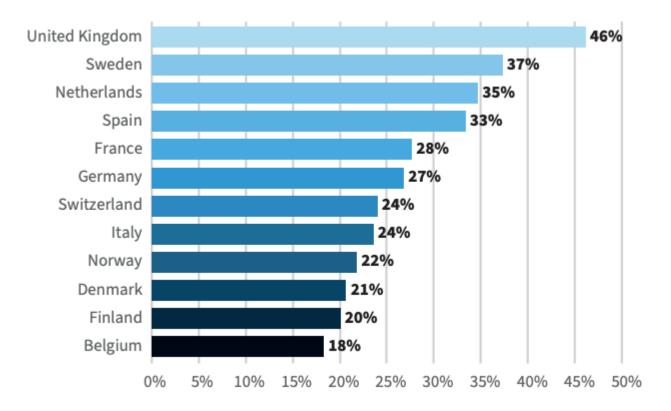
Online grocery sales growth (% change y/y)







% of online shoppers who buy groceries online

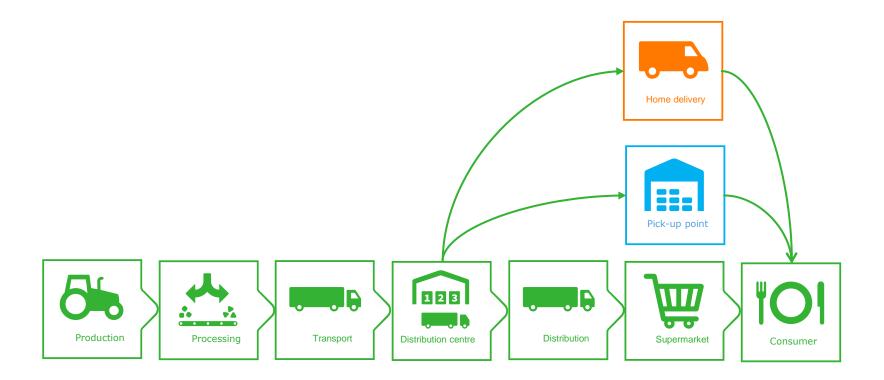




From cold store to black store e-commerce drives paradigm shift in supply models



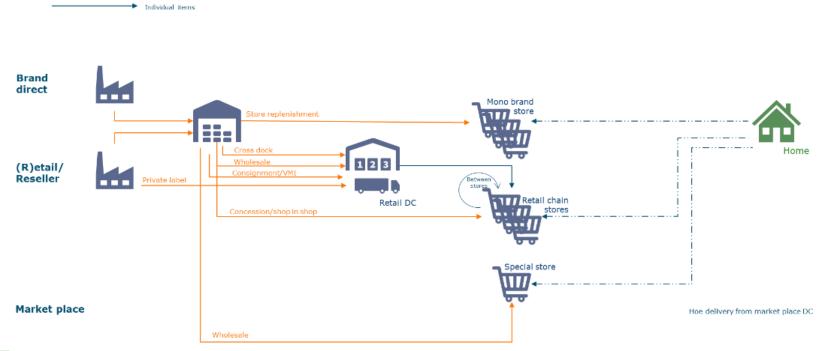
Is it just adding two types of 'outlets'?





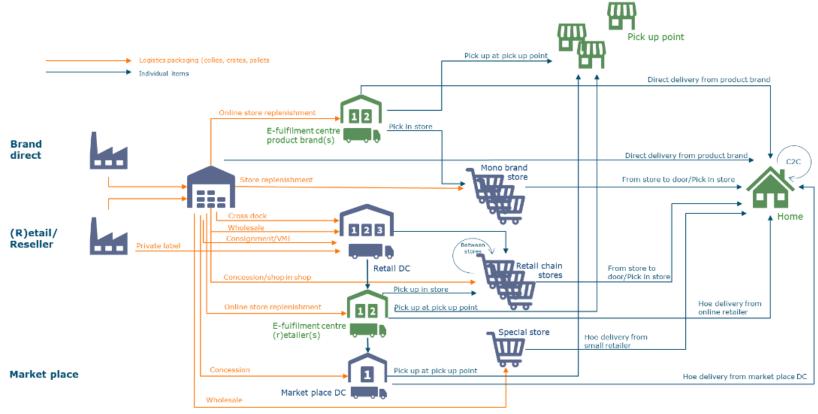
Traditional distribution model

Logistics packaging (colies, crates, pallets



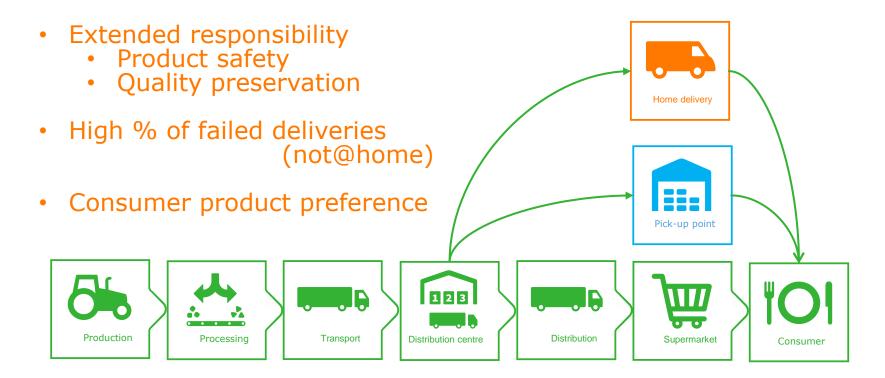


Multi-channel distribution model





Particular e-fresh & urban challenges



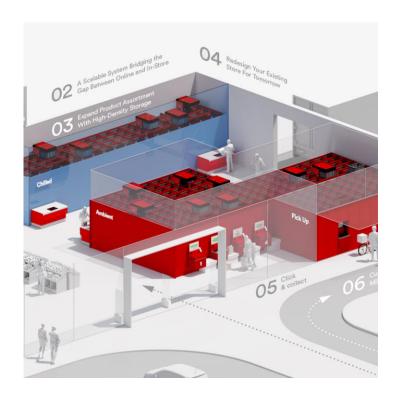


How to design urban & E-commerce cold chains?



Development of storage systems for dark stores

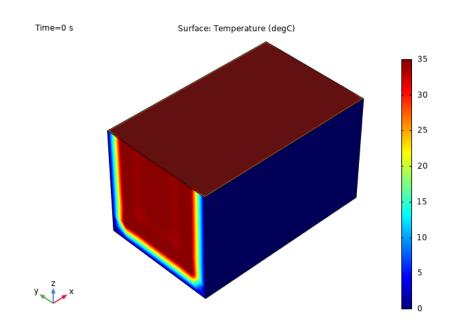






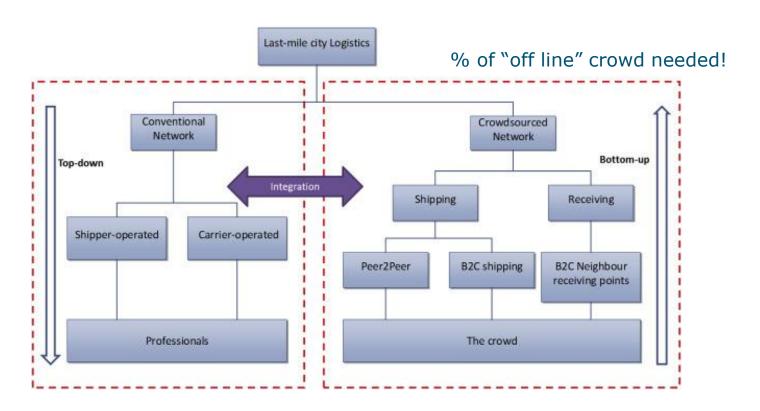
Novel temperature controlled packaging solutions







Crowd sourced last mile delivery





Source: Wageningen University & Research
Quo et. al., On integrating crowdsource delivery in last-mile logistics

Question to you

How to you intend to service an urban market and maintain product quality?



Thanks for your attention

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