



# ON THE POTENTIALS AND DILEMMAS OF COOPERATIVE / WHITE-LABEL DELIVERIES

IPIC 2019



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Matthias Prandtstetter, Benjamin Biesinger, Bin Hu, Pamela Nolz, Martin Reinthaler, Jürgen Zajicek, Alessandra Angelini, Georg Hauger, Matthias Steinbauer, Johannes Braith, Reinhold Schodl, Sandra Eitler

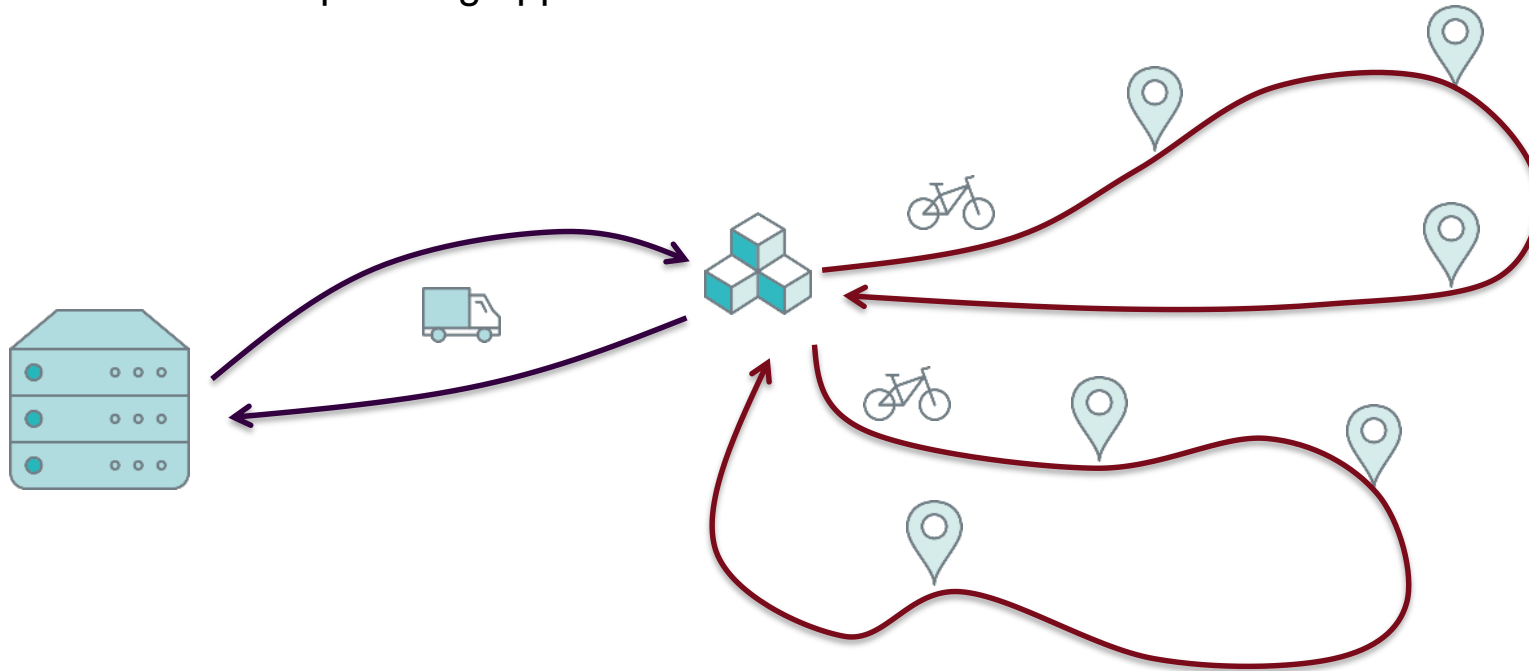


projects:



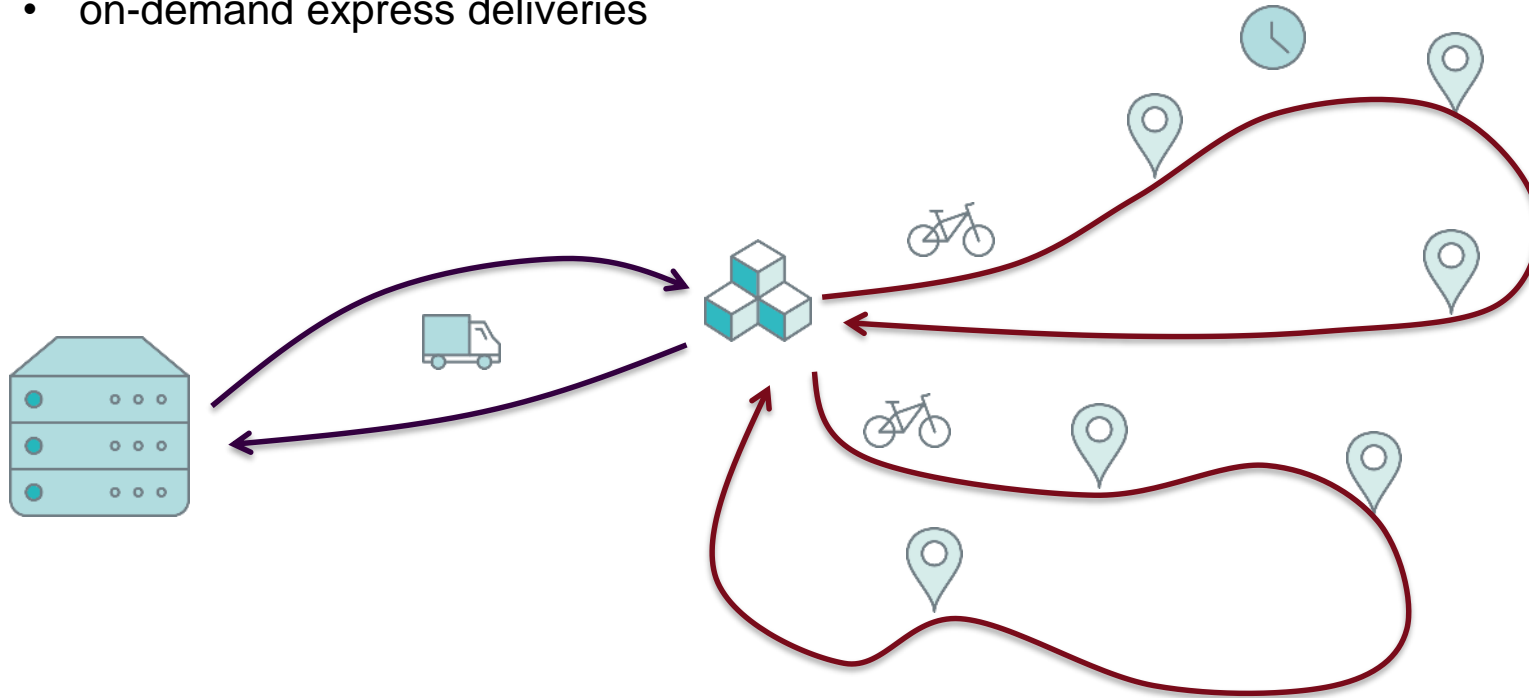
## USE CASE – EMILIA

- two-echelon planning approach



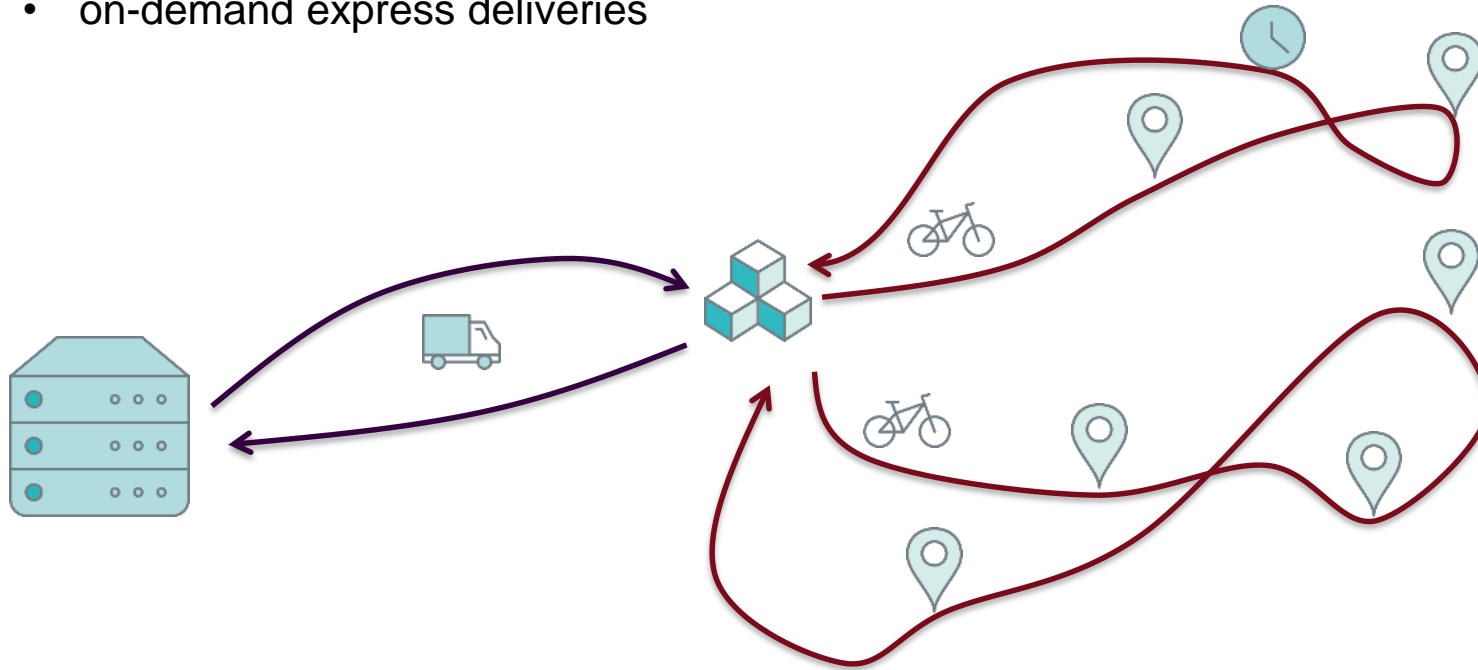
## USE CASE – EMILIA

- on-demand express deliveries



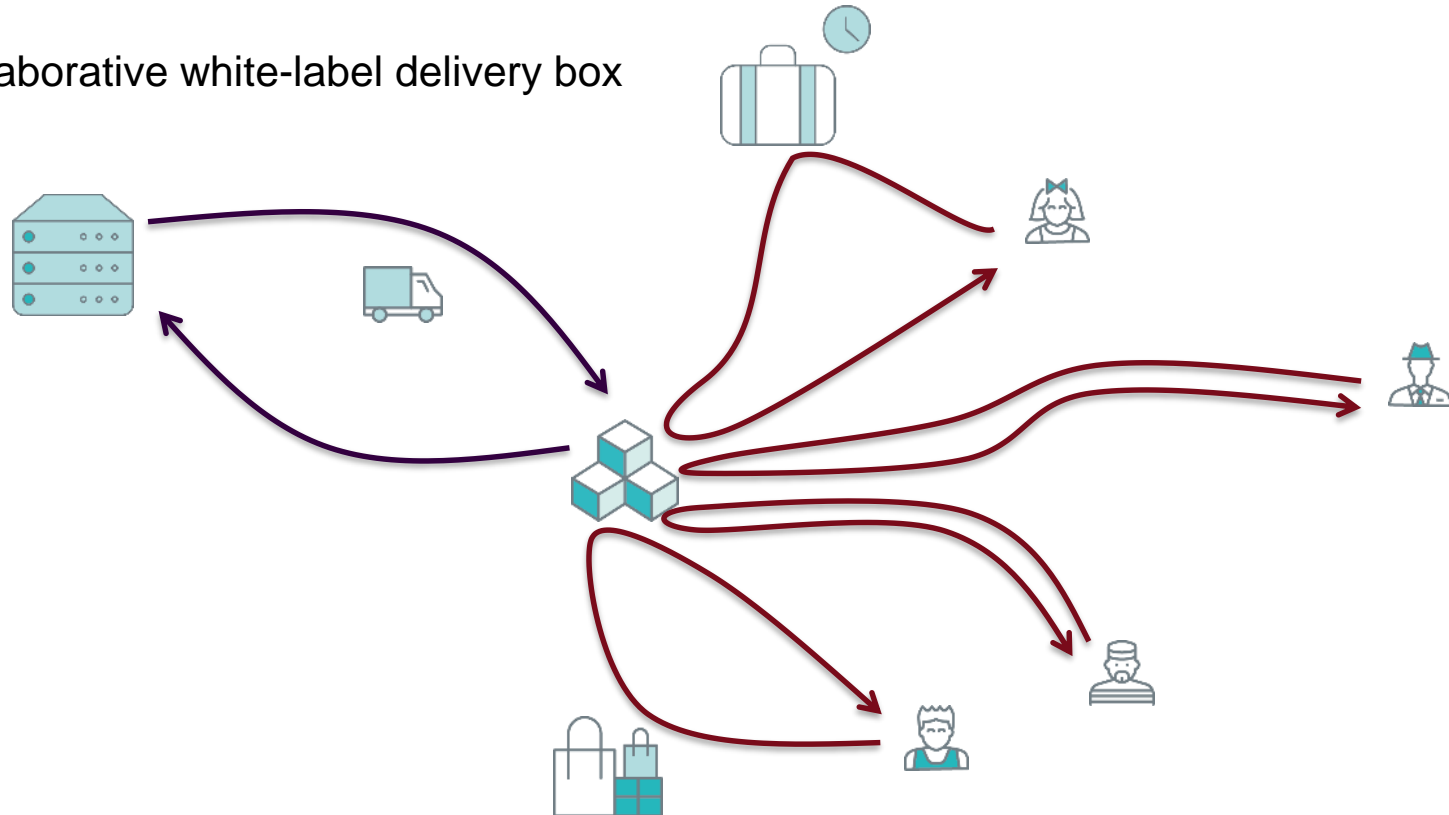
## USE CASE – EMILIA

- on-demand express deliveries



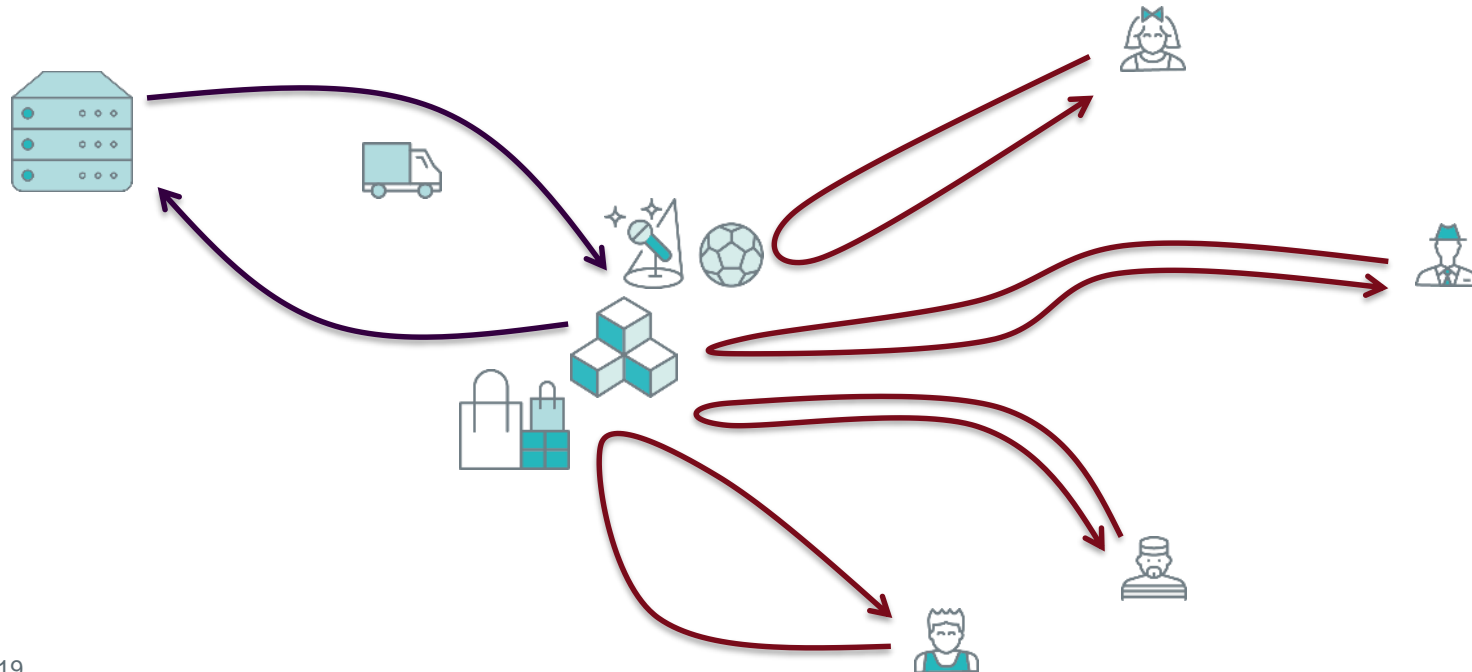
## USE CASE – ALBOX

- collaborative white-label delivery box

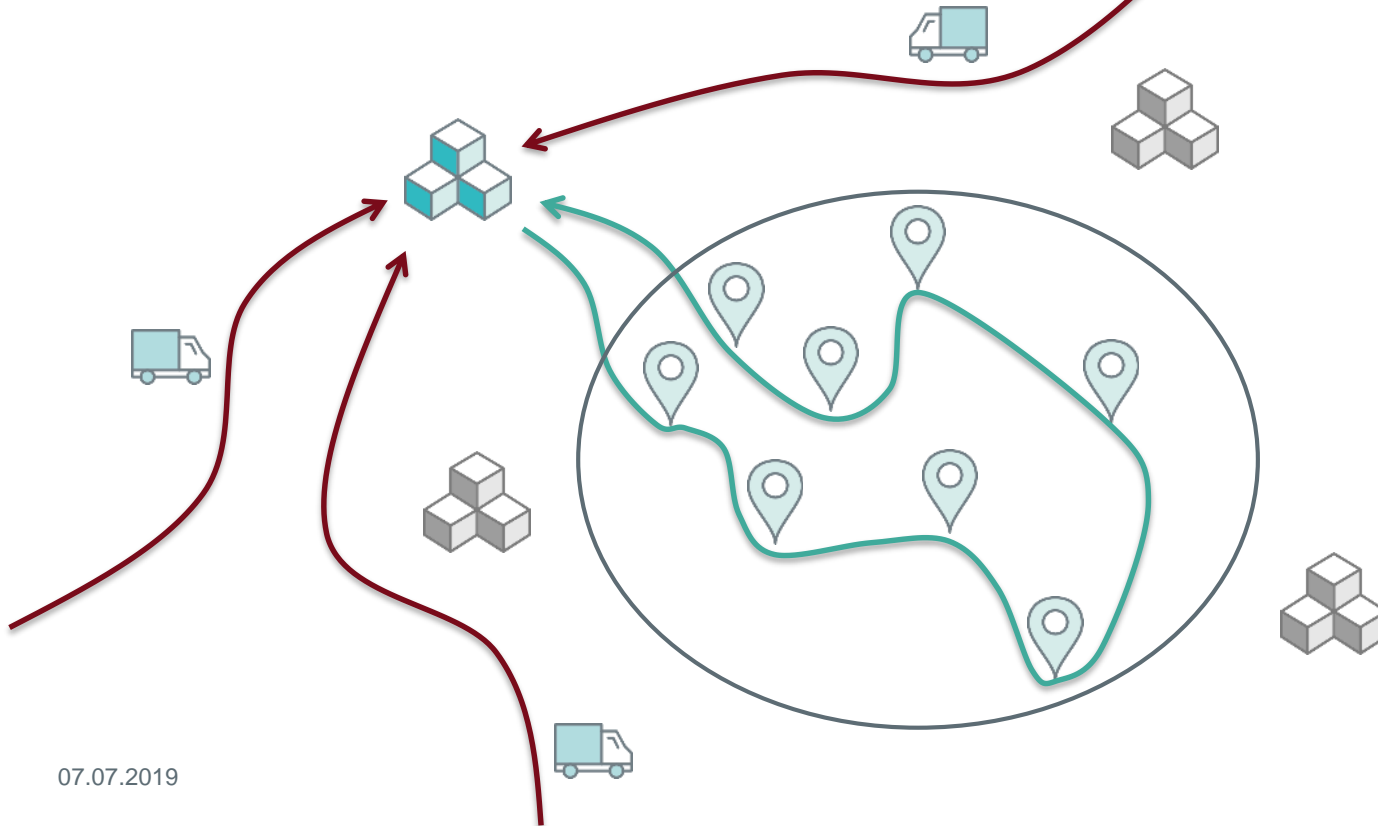


## USE CASE – KOOPHUBS

- social center with boxes for packages

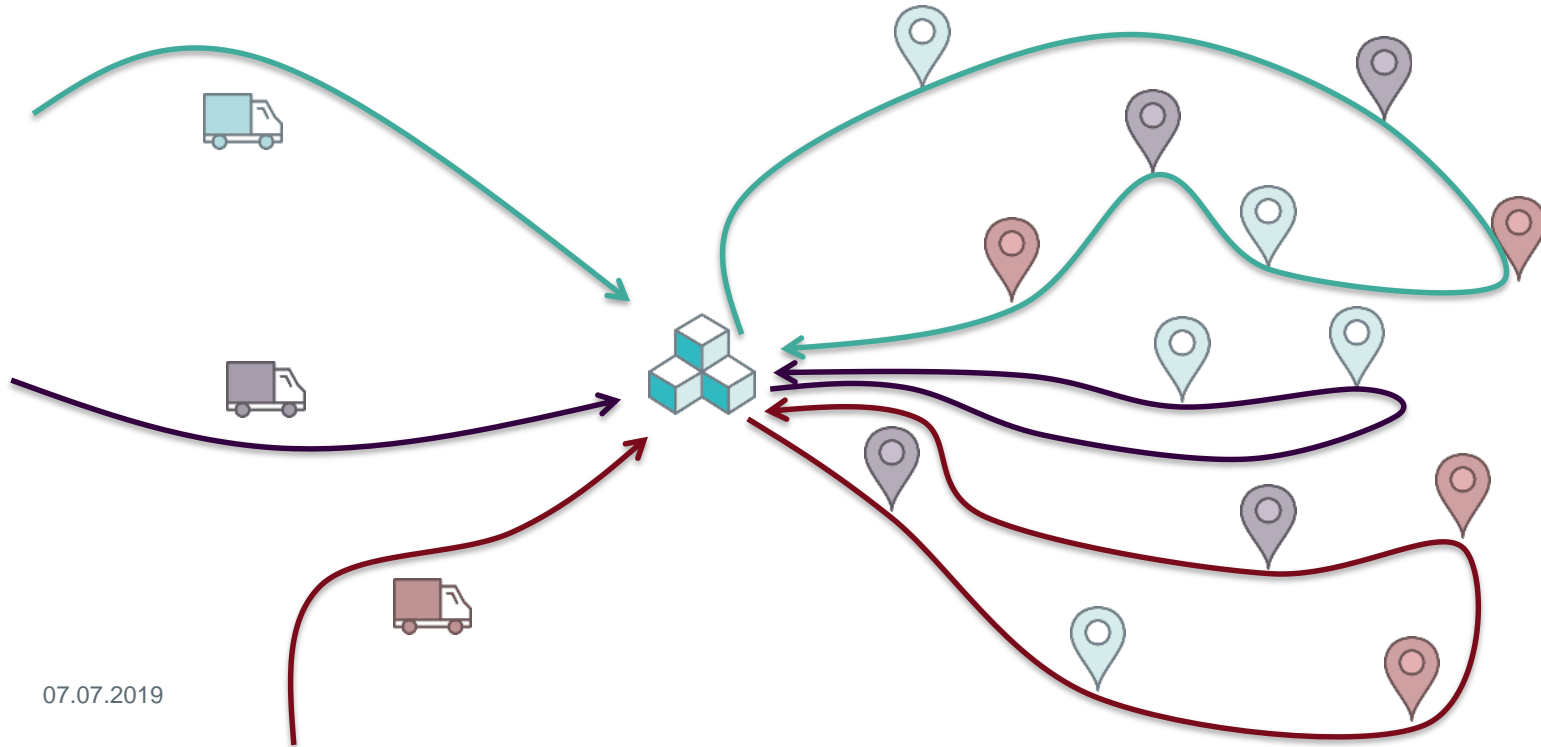


# USE CASE – GRAZLOG

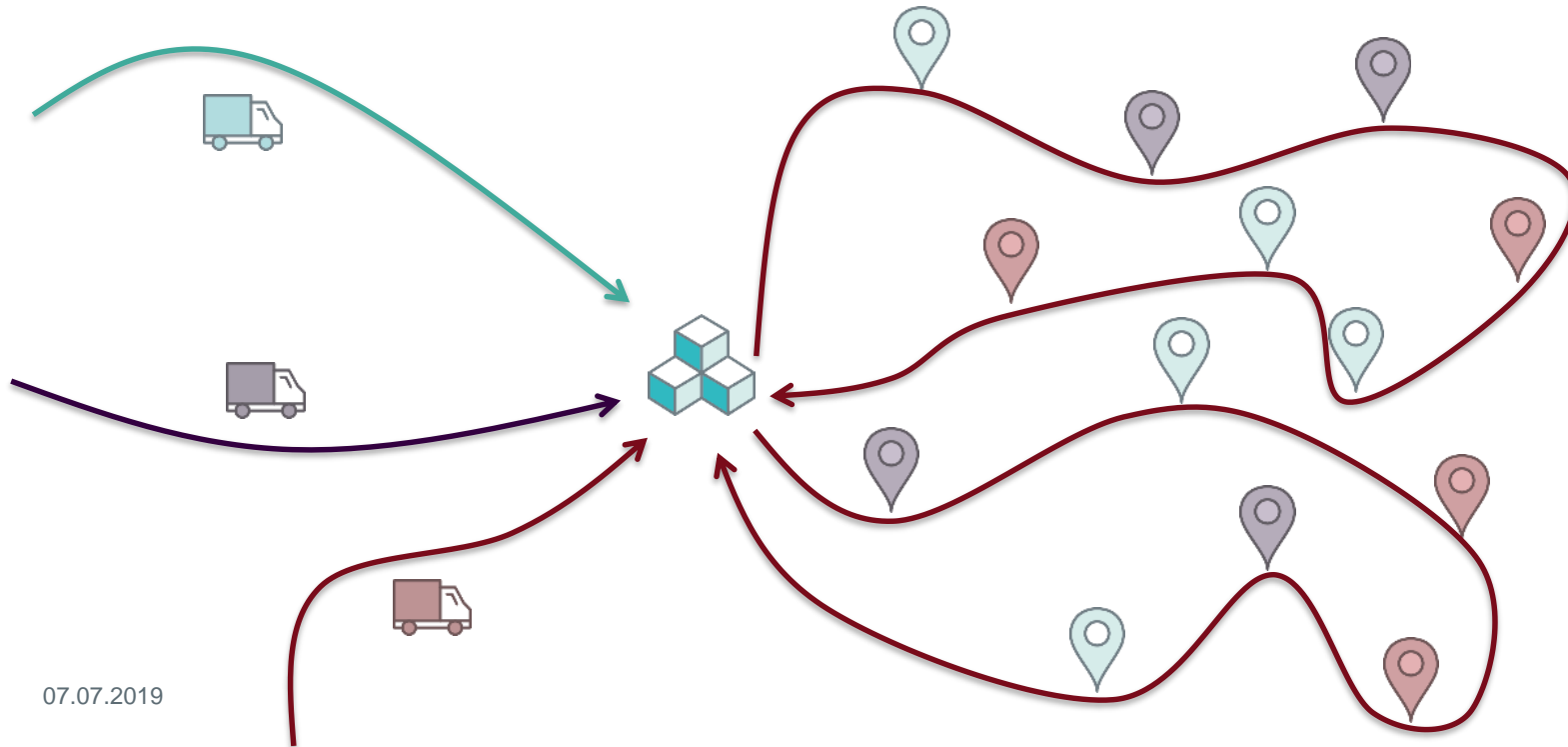




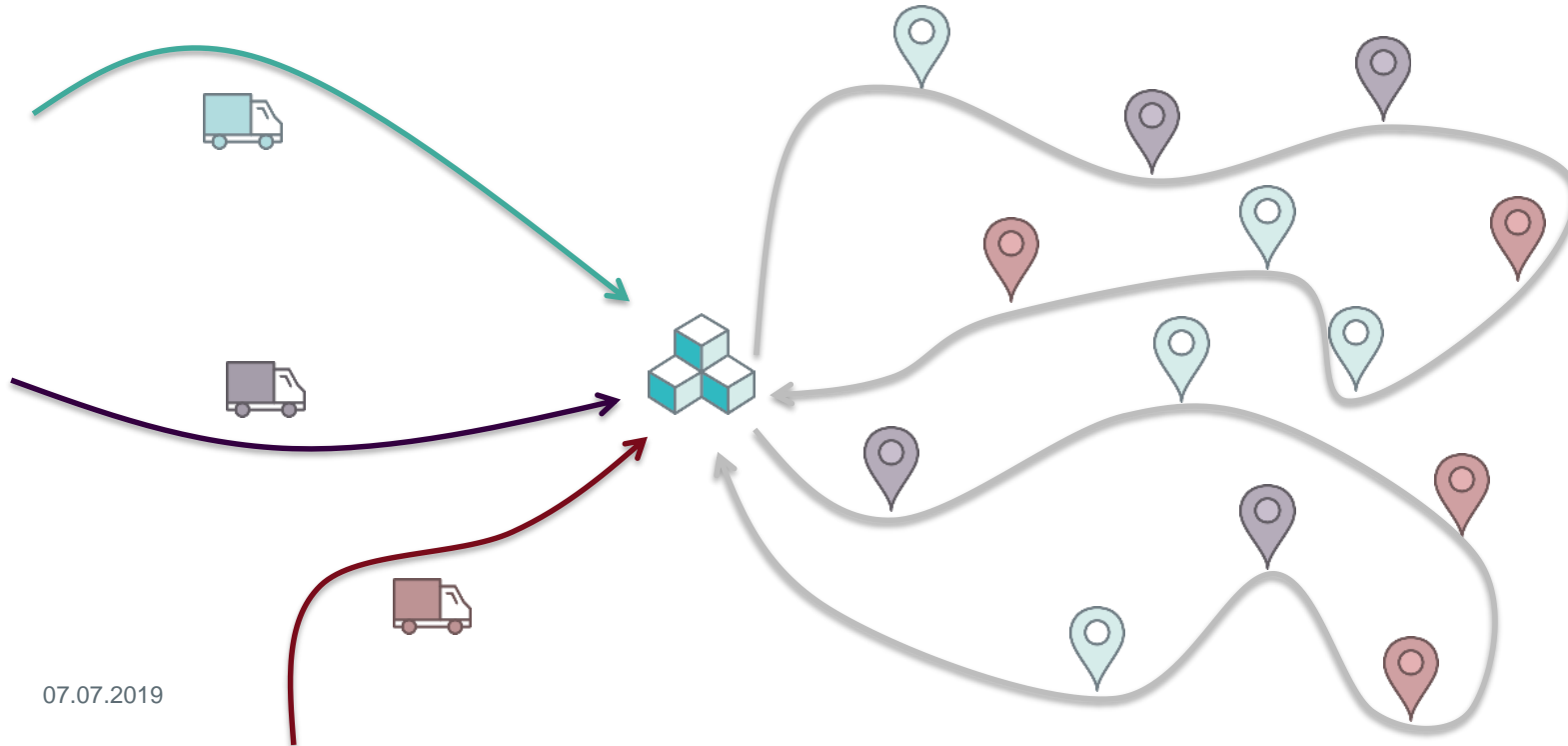
# COOPERATION MODELS - PARALLEL



# COOPERATION MODELS - SINGULAR



# COOPERATION MODELS - SINGULAR



# POTENTIALS & DILEMMAS

- increase in efficiency
  - reduction in delivery traffic
  - increase in liveability of city
- 
- loss of contact to customers
  - loss of control over service quality
  - liability needs to be newly negotiated
  - loss of marketing value (delivery trucks are not visible on roads anymore)
  - fair(?) gain sharing
  - need for check by competition authority





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