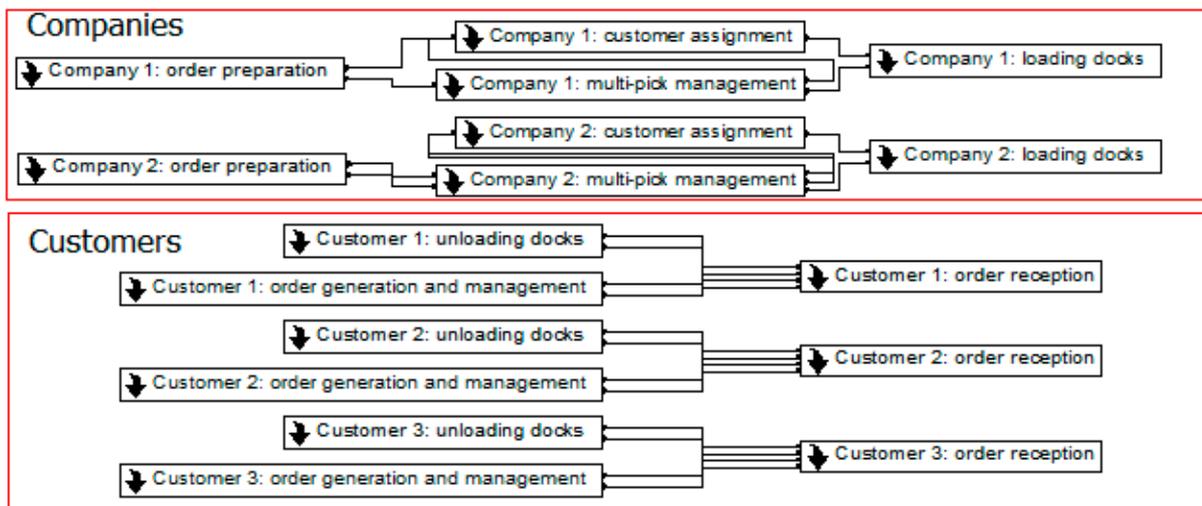
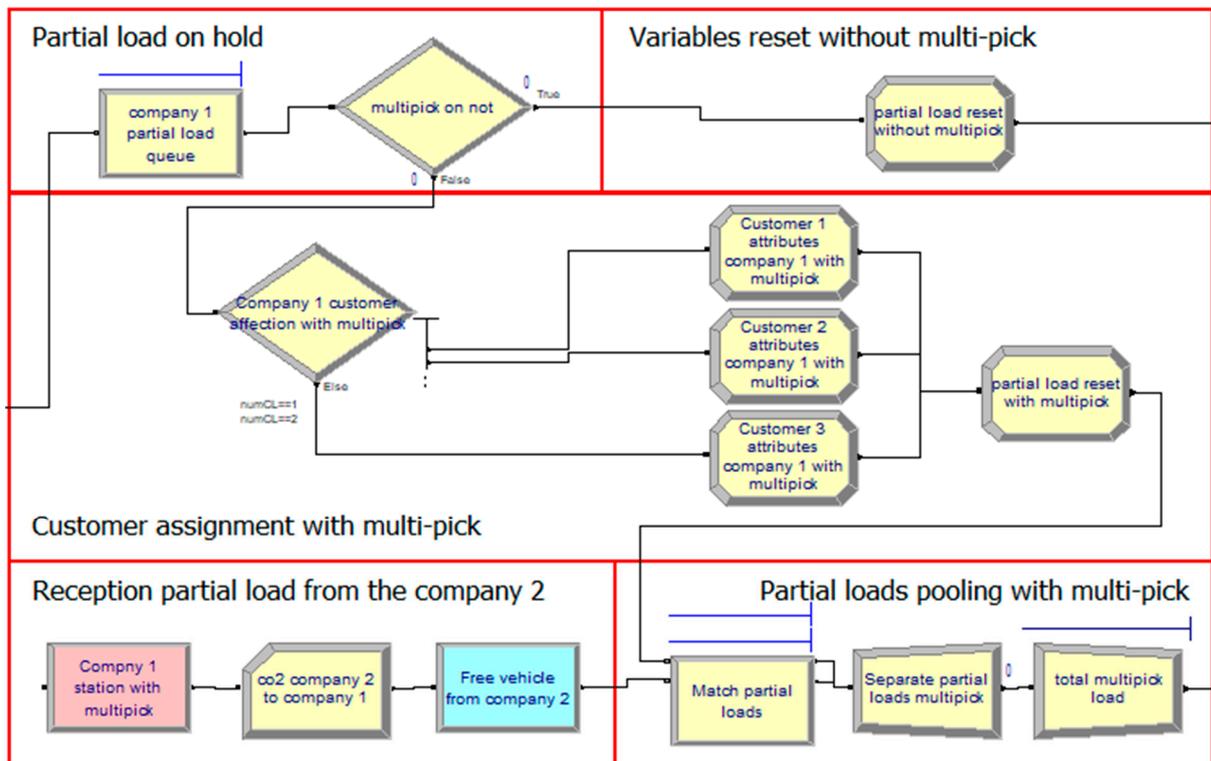


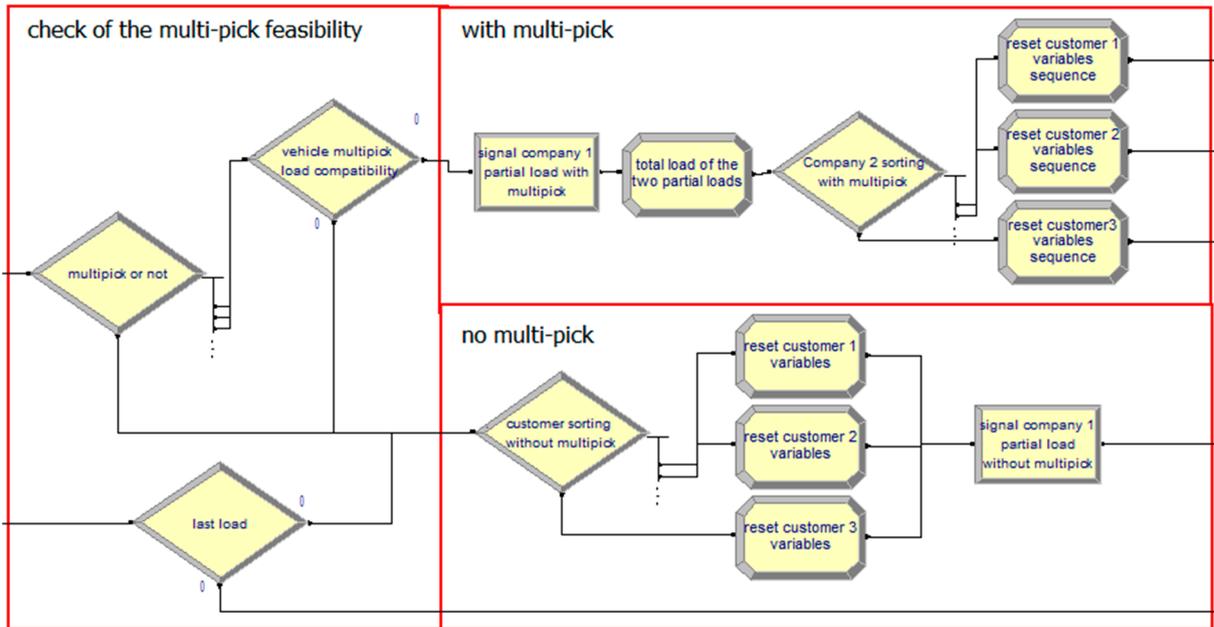
Figure S1 : Simulation model of Pooled supply chain with multi-pick



A: Simulation model overview

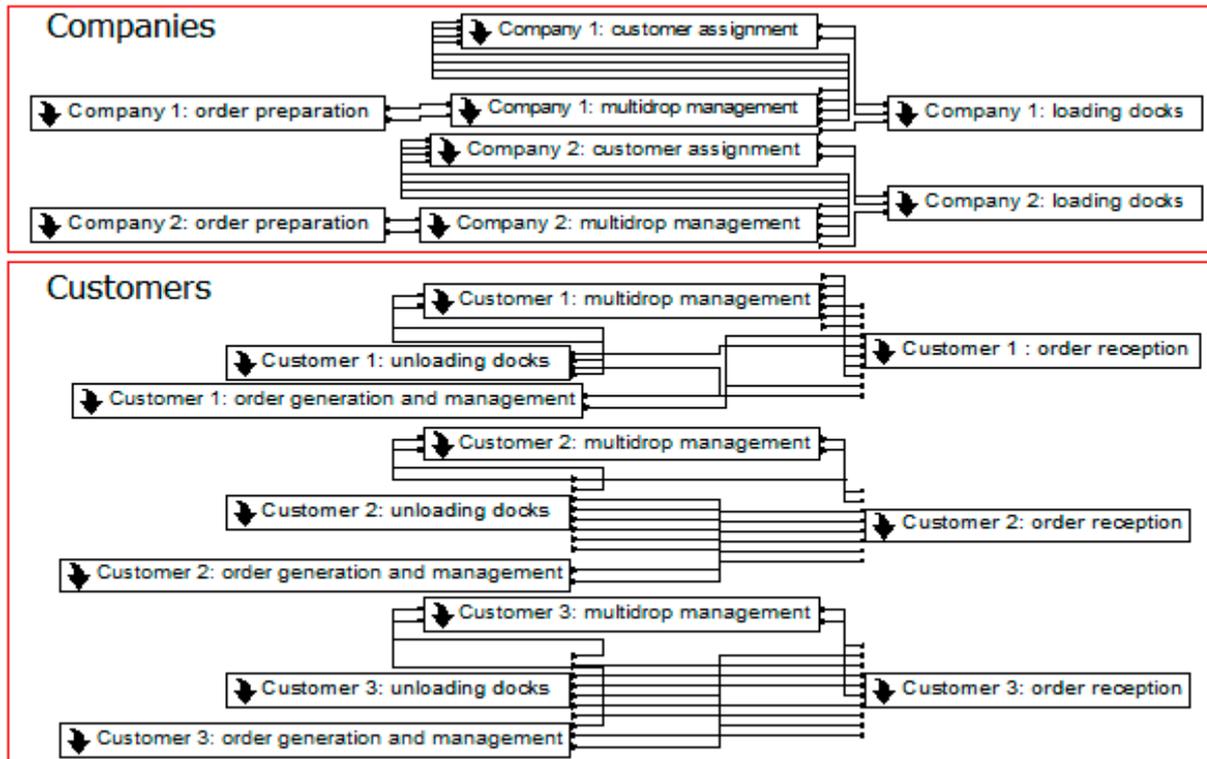


B: Company 1 multi-pick management sections

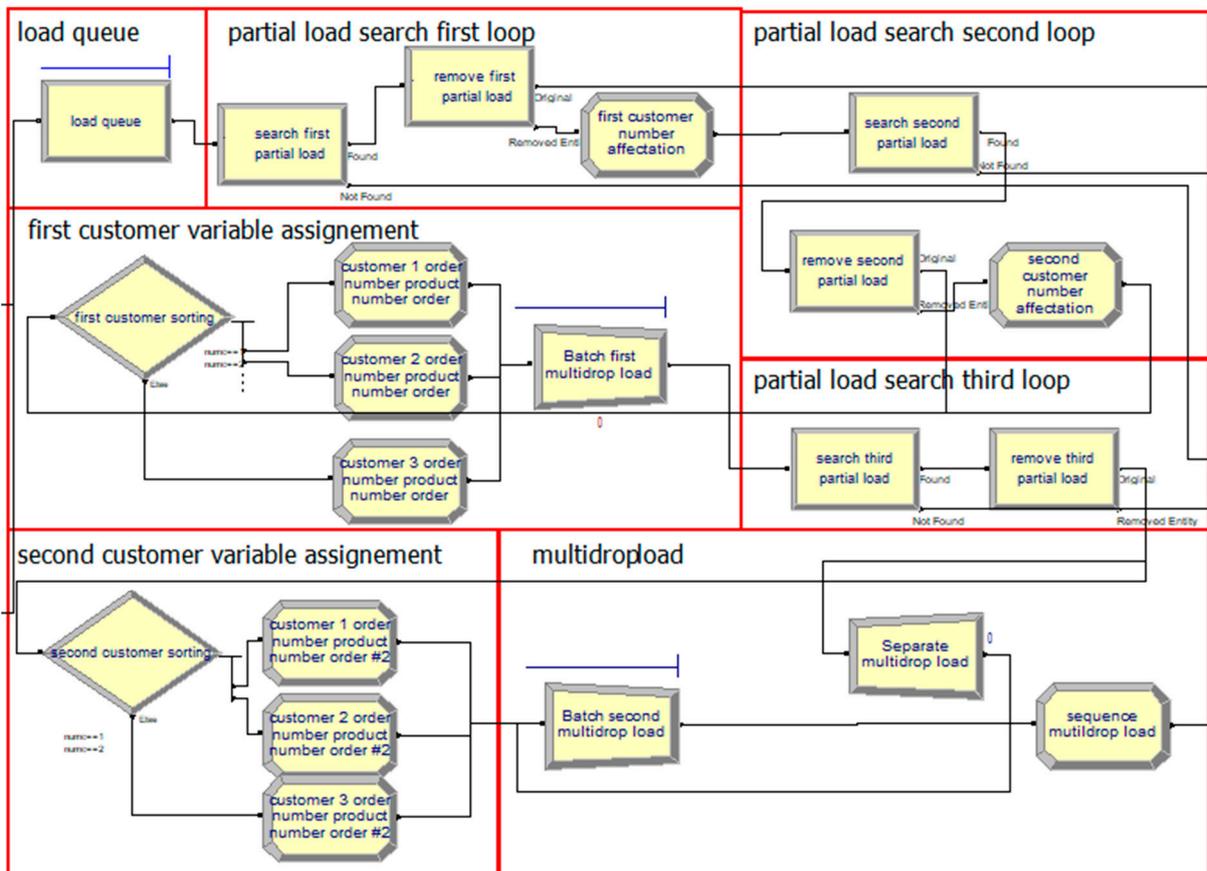


C: Company 2 multi-pick management sections

Figure S2 : Simulation model of pooled-supply chain with multi-drop

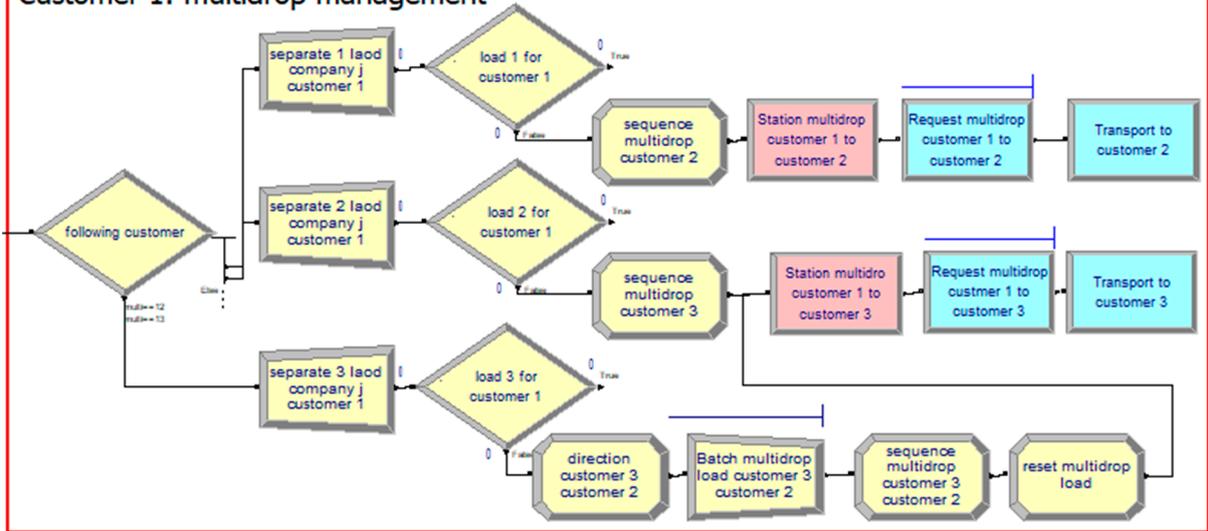


A: Simulation model overview

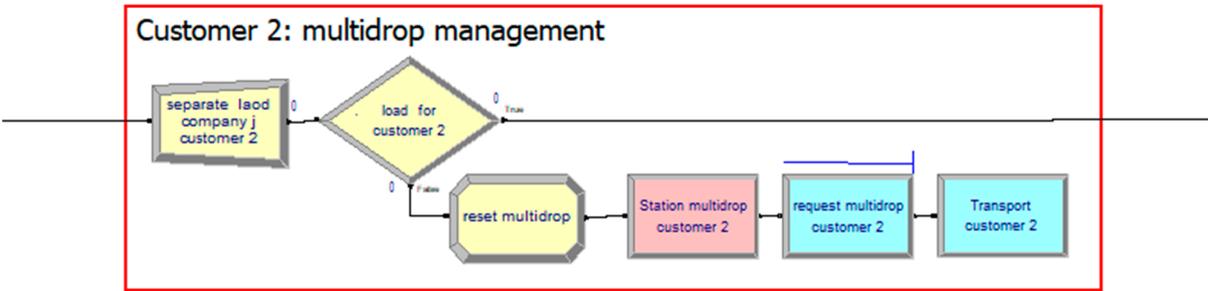


B: Company j multi-drop management section

### Customer 1: multidrop management

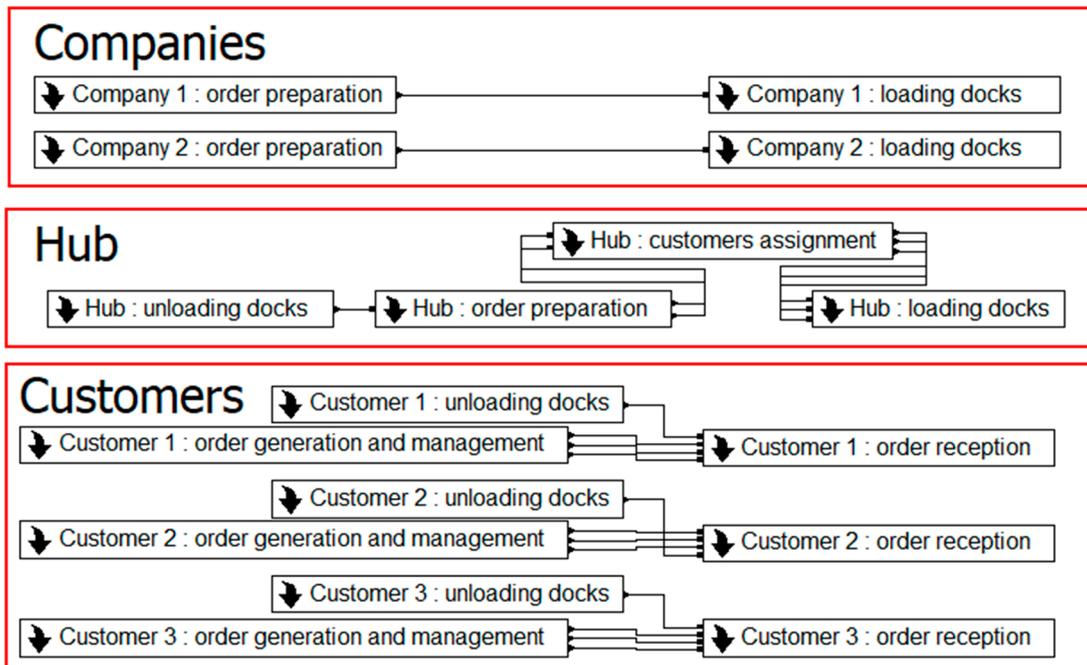


### Customer 2: multidrop management

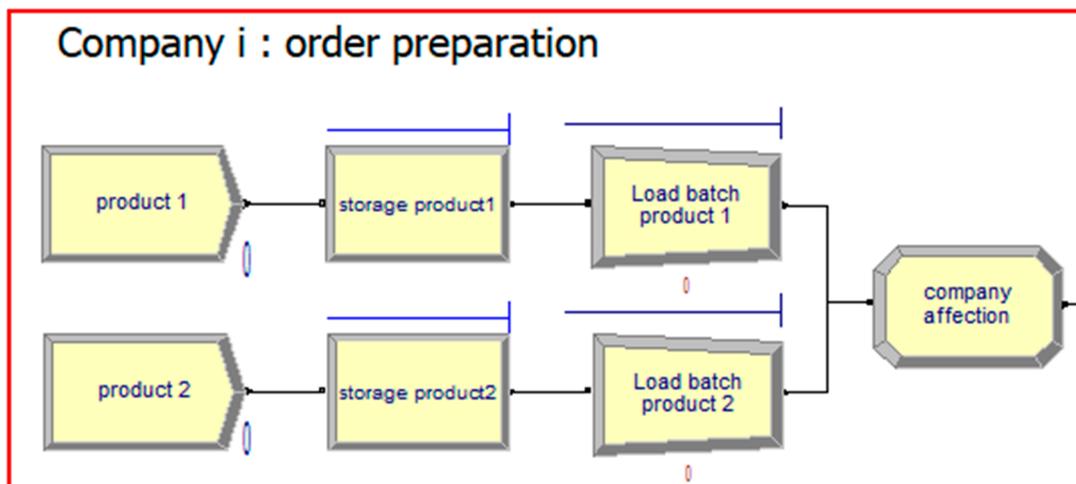


C: Customer multi-drop management sections

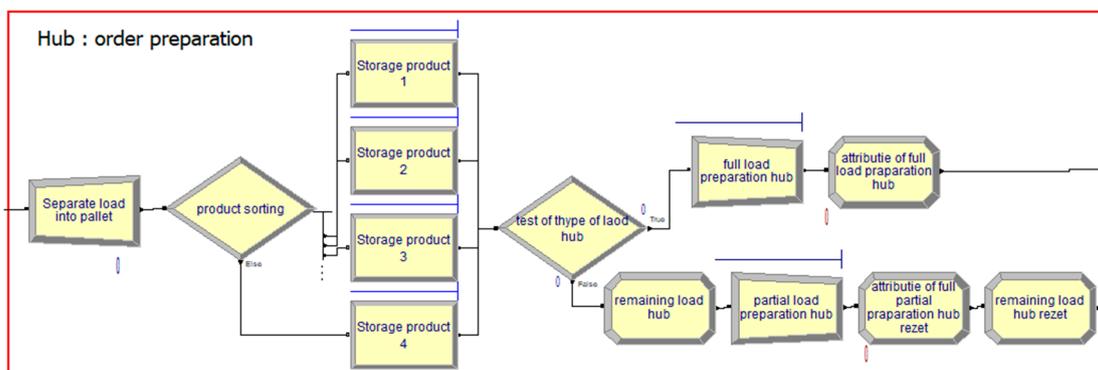
Figure S3 : Simulation model of pooled supply chains with hub simulation model



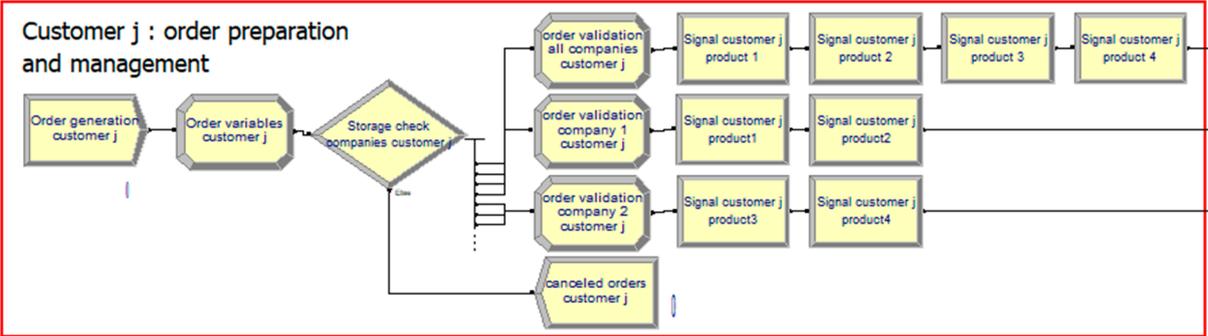
A: Simulation model overview



B: company i order preparation section



C: Hub order preparation section



D: Customer j order generation and management section

Figure S4 : Simulation model of pooled supply chains with hub and multi-drop

