CL5-2022-D6-02-01: Logistics networks integration and harmonisation through operational connectivity to optimise freight flows and drive logistics to climate neutrality

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Organisation name	TNO
Motivation	The climate goals can be achieved through technical decarbonization measures (e.g. electric vehicles) and helped by **more efficient transport**. The later is the topic we are interested in this call. In the past we carried out research on the potential to improve load factors through collaboration between carriers, as well as understanding about load factors of the Dutch carriers. This research has shown that ***there is a potential in road transport of more than 20% carrier capacity matching***, this potential is even higher for some individual companies in an alliance with a potential to ***realize costs savings of 45%***. The picture is shared by the companies we interviewed. We see a strong potential to decrease emissions and other externalities through pooling networks of several carriers. This call provides an opportunity to try, test and realize this vision in demonstrations / practice.
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Interest in the call and expertise to be brought into a consortium	Preliminary, TNO is interested in: 1. Develop and demonstrate a robust and transparent ***collaborative framework*** with guiding principles to ensure operational connectivity of logistics networks. We will further develop and apply the matching factor, i.e. a quantitative assessment of complementarity of firms' networks in order to allow the to collaborate and reduce vehicle movements (kilometres driven) for a given amount of transport demand 2. Demonstrate real world gains through such collaborations (pilots) 3. Continue work on alleviation of identified bottlenecks. Previous involvement of statistics beurres (i.e. Dutch statistics bureau CBS) has shown to help identify companies with strong matching potential 4. Identify business models, and especially gain sharing mechanisms for the collaborating parties
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