

INTRODUCTION

France's healthcare sector contributes 8% of the country's carbon footprint, with 50% attributed to healthcare product supply (1). Our Grand Ouest University Hospital Center (UHC) in France works with several suppliers to identify and implement ways of optimizing logistics. Plasma-Derived Medicinal Products (PDMP) represent a significant portion of this product supply. An improvement project was initiated in early 2023 in our UHC to reduce the frequency of weekly orders to monthly orders.



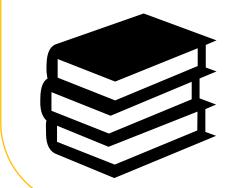




A query of the number of all PDMP orders with Pharma[®] (Computer-engineering V5.9).



Empreinte[®] database of the French Environment and Energy Management Agency (ADEME).(2) Results are in CO_2 equivalents (eq. CO_2).



Suppliers' ability to communicate the EI of orders is compared to an estimate on literature data.



Comparison : February to July 2022 / 2023.

RESULTS

Perimeter • **189** PDMPs • From **17** suppliers

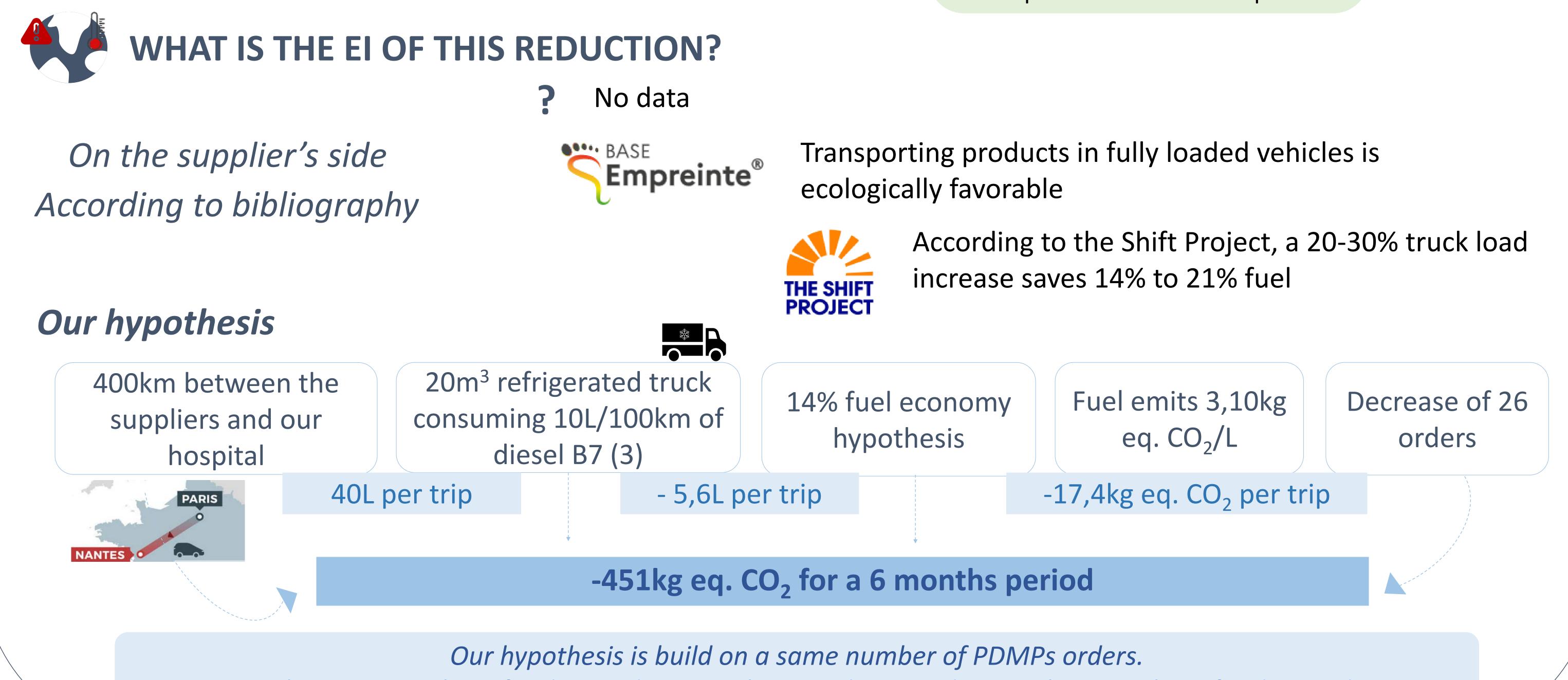
MATERIALS AND MET

The 3 major suppliers represents 32% of 2022 orders

Improvement project carried out in september 2023 to **reduce** the frequency of these orders

Orders dropped from **99** (feb-jul 2022) to **73** (feb-jul 2023) • Orders remained stable for others suppliers PDMP consumption were comparable between two periods

26% decrease



DISCUSSION

Reducing orders can optimize vehicle filling and lower delivery-related fuel consumption (4). Coordinating routes with other centers could further reduce EI. Larger orders require additional storage space, but it isn't a concern in our establishment. Fewer orders also ease logistics staff workload. However, tensions in healthcare supply can lead to sporadic receptions independent of our reduction policy, making an exact order-receipt match challenging.

References

- The Shift Project. Décarboner la santé pour soigner durablement. Impact climatique du secteur de la Santé en France. Calculs 2023. (1)
- Base Empreinte. ADEME et République française. (2)
- Données du Ministère de la Transition Ecologique et de la Cohésion des Territoires. (3)
- The Shift Project. Assurer le fret dans un monde fini. Rapport Mars 2022. (4)

