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Facility lockers appoints TK'BLUE Agency to demonstrate the very favourable environmental and societal impact of their connected concierge solution

Facility lockers asked the Transport Rating Agency TK'Blue Agency to assess the environmental and societal performance of their solution that equips workplaces and apartment buildings with secure and smart mailboxes.

Facility lockers sets up ultra-secure and smart mailbox systems that allow parcels to be delivered wherever the e-commerce customers are (collective lockers in apartment buildings or at the workplace).

This solution allows employees and residents to receive their parcels directly at their place of work or residence thanks to a personalised access code sent by facility lockers, without having to rush down to collect them. Parcel delivery is not delayed due to absences, is secure and convenient for the recipient.

To assess the environmental and societal impact of this solution, TK'Blue Agency took into account two last-mile delivery scenarios with the most modern type of urban vehicle meeting the Euro VI standard:

- A delivery to facility lockers, which makes it possible to pool the delivery to a limited number of 10 locker points.
- A standard delivery by courier, comprising delivery to 150 sites located in the same geographical perimeter, assuming that all deliveries were successful at the first attempt (best-case scenario).

To deliver 150 parcels, it takes an average of 10 stops with the facility lockers solution, 10 times fewer than with a door-to-door delivery scheme. In fact, this solution has a significant economic impact for delivery companies (time, fuel costs, risks, etc.)

TK'Blue based its calculations on a 150-parcel delivery scenario to calculate the costs of negative externalities: greenhouse gas emissions, noise, congestion, accidents, particles, NOx, SOx, climate change and upstream/downstream impacts.

Table 1 shows the costs of these externalities for a standard delivery of 150 parcels and a delivery to 10 facility lockers delivery points that can hold 15 parcels simultaneously, both using Euro 5 vehicles.

Table 1: Results for deliveries using Euro VI vehicles

	Classic delivery	Facility lockers delivery
		
GHG emission	148,512 gCO ₂ e	38,742 gCO ₂ e
Noise	€6.57	€1.72
Congestion	€49.17	€12.83
Accidents	€3.23	€0.84
Pollution	€1.65	€0.43
Climate change	€10.74	€2.80
Upstream/Downstream	€5.84	€1.52
Total cost of externalities	77,22	20,14

(Click to see the full French study [Euro VI](#)).

Due to the pooling of deliveries, the number of miles covered to deliver facility lockers parcels is naturally much lower than conventional delivery, which has a very significant impact on the result for greenhouse gas emissions (731,8 grs/parcel) but an even higher impact on societal costs (noise, congestion, accidents, pollution, climate change and upstream-downstream), i.e. 0,38€/parcel.

TK'Blue has developed the only methodology that allows for a comprehensive approach to all externalities. It goes far beyond simple GHG emissions to take into consideration societal costs, i.e. the real nuisances borne by citizens.

CEO of facility lockers: *"Our strategy is hinged around the last-centimetre delivery, the carbon impact, and especially the service potential of buildings. This choice is not only good for the environment, but, above all, makes life easier for people by controlling the last centimetre for the delivery of the 55 billion parcels that roam the planet."*

Philippe Mangeard, President and founder of Agence TK'Blue, comments: *"The study carried out for facility lockers shows the significant difference in the environmental and societal cost between two methods of delivery. TK'Blue allows professionals to have access to real-time tools to assess the economic, environmental and societal performance of their transport choices... and make the right decisions!"*

For more information about Facility Lockers: +32 (0)2 880 56 22 or www.facilitylockers.com
 For more information about TK'Blue Agency: +33 (1) 71 39 80 71 or www.tkblueagency.com

About facility lockers

Facility lockers offers an innovative solution of attractive and ultra-secure smart mailboxes for the delivery of private parcels ordered from e-commerce sites.

Thanks to its service platform, it is also possible to take advantage of a range of concierge services through the smart mailbox - dry cleaning, ironing, IT repair, shoe repair, sewing, etc.

In addition to partnerships with all delivery companies, facility lockers is committed to working with partners in sync with the local ecosystem.

About TK'Blue Agency

TK'Blue is a transportation labelling and rating agency organised as a service platform. It measures, scores and evaluates the eco-responsible performance of each of the players - transport operators and instructing parties - in compliance with legislative and regulatory requirements relating to CO₂ emissions and CSR, at national and European level (Bureau Veritas certified).

Its European governance, made up of more than seventy representatives of all the logistics chain stakeholders, allows it to ensure its legitimacy, credibility, evolution and independence in the long term.

The platform is accessible in Saas mode in the Cloud, which is free for all freight carriers across all modes.

Large groups like Carrefour, Michelin and Saint-Gobain have already adopted the TK'Blue approach. By combining the eco-responsibility and economic performance of logistics choices, TK'Blue meets the demands of each transport operator: control of transport flows, alert in the event of a downturn in quality, mitigation of the consequences of poor transport purchases, commitment to a CSR policy, and the response to CO₂/GHG and CSR regulations and legislation.

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