

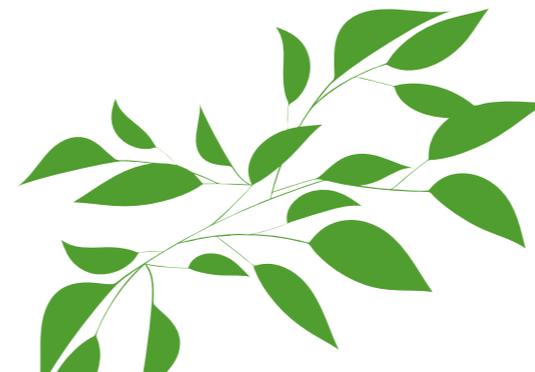
'All I need
is the air
that I breathe...'

The Hollies



Together,
we can help
make the
air quality in
your city better
for everyone.

Clean air is a basic human need. However, in cities across Europe that need is being compromised. Industry, commerce, and traffic emit PM 2.5 fine particle air pollution that is damaging to our populations' health. Largely, it's an invisible danger. As we go about our daily lives, we have no way of knowing the potential threats in the air around us. Without insight and real data it's impossible to change things for the better. This is where DPDgroup can help.



As a parcel delivery network, we recognise that our industry is part of the problem. That's what has spurred us to become part of the solution.

Imagine having real time data on PM 2.5 air pollution levels in your city? What if you could see the air pollution levels at your doorstep? Think of what could be done if you knew the areas with the highest air pollution and the time of day when they present the greatest risk?

DPDgroup's Air Quality Monitoring Programme will provide you with a wealth of air quality data allowing you to build on your knowledge of existing pollution hotspots to identify the root causes. That's the insight you need to truly to solve the issue. This data can help empower policy changes for the benefit of all your citizens. What's more, it puts the data in their hands too so they can make informed decisions to help protect themselves and their families.

Together, we can help make the air quality in your city better for everyone.

Free tools and insights to help you effect change

Here's just a snapshot of what our Air Quality Monitoring Programme can give your city.



PM 2.5 air quality monitoring sensors on DPD parcel delivery vans, depots, urban depots and Pickup points



Real time air quality data collected every

12.5 seconds



One initial air quality analysis report performed by Pollutrack* experts



A dedicated air quality monitoring website AirDiag™ that is accessible by the general public



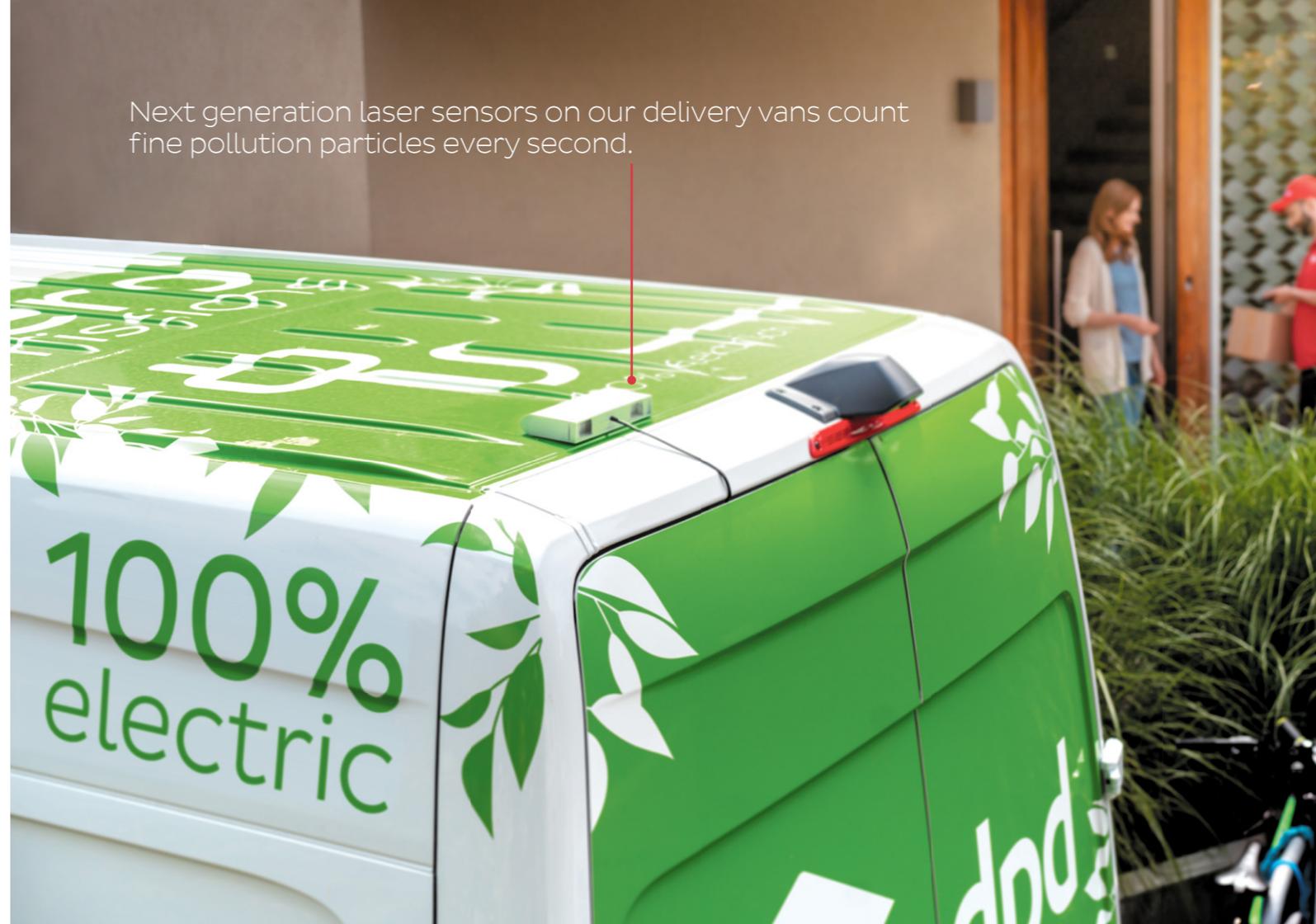
One year of PM 2.5 pollution data



A live air quality dashboard for one year

* Pollutrack is a leading provider of mobile tracking systems for fine particles (PM 2.5)

Next generation laser sensors on our delivery vans count fine pollution particles every second.



What is it and how does it work?

What is PM2.5?

Air pollution accounts for 4.2 million premature deaths every year. Particulate matter 2.5 (PM 2.5), refers to tiny particles or droplets in the air that are more than thirty times smaller than a human hair. Most prevalent in urban air pollution, they can travel deeply into the respiratory tract, reaching the lungs. Scientific studies have linked daily PM 2.5 exposure with increased respiratory and cardiovascular infections, hospital admissions and deaths. WHO estimate that reducing annual average fine particulate matter concentrations could reduce air pollution-related deaths by around 15%.



Here's how DPDgroup's Air Quality Monitoring Programme works

DPDgroup has forged a unique partnership with Pollutrack to enable precision air quality monitoring at scale. Pollutrack is a leading provider of mobile tracking systems for fine particles (PM 2.5) which is particularly relevant for urban air pollution. DPDgroup fits our delivery vehicles, urban depots and Pickup points with Pollutrack next generation laser sensors. These sensors count particles every second and transmit data 5 times per minute, street by street and at breathing level. The resulting 'air quality diagnosis' is displayed digitally over high resolution maps in real time.

The initiative gives citizens the ability to access an air quality diagnosis at their doorstep and gives city officials the opportunity to efficiently tackle their air quality issues by making data-based decisions on how to implement mitigation plans and new traffic regulations.

Here's what it will give **your city**

1. Access to the Pollutrack air quality dashboard

The Pollutrack air quality dashboard will visually show your city's air quality by overlaying data on a city map. This lets you analyse the variations of PM 2.5 concentrations and identify areas that need action.

There are several visualisation options:

- The Vector map allows you to easily display the areas covered by our air quality monitoring system.
- The AQI* map shows the PM 2.5 air quality index in a specific area in granular detail (100 x 100m).
- The Hotspots map enables you to identify areas of the city that are above the average air quality index more than 50% of the time and where corrective actions would be considered as priority.

Air quality data will be displayed as 7-day moving averages on the dashboard. You gain access to the tool for a full year for up to five users of your choice.

*AQI = Air Quality Index

2. AirDiag™ website for the citizens of your city

DPDgroup and Pollutrack will create a brand-new air quality website, called AirDiag, to help your city raise public awareness of urban air quality. It is designed in the first instance for DPDgroup consignees so they can see the air quality levels right at their doorstep when their parcels are delivered. It will also be provided to city authorities so you can decide if and how to communicate PM 2.5 information to citizens.



3. Air quality analysis report of your city performed by Pollutrack experts

After a minimum of one month of PM 2.5 tracking, DPDgroup will share preliminary air quality insights with city authorities through an analysis report performed by Pollutrack experts. The report will include the following elements:

- Overview of the areas covered, and the quantity of data collected by the air quality monitoring system
- Daily and weekly variations compared with WHO recommendations and with geographic heterogeneity observed
- Significant hotspots identified near sensitive areas (nurseries, schools, hospitals, retirement homes, etc...)
- Air quality index maps and benchmarking with other major European cities who are part of our Air Quality Monitoring Programme
- Preliminary conclusions and recommendations

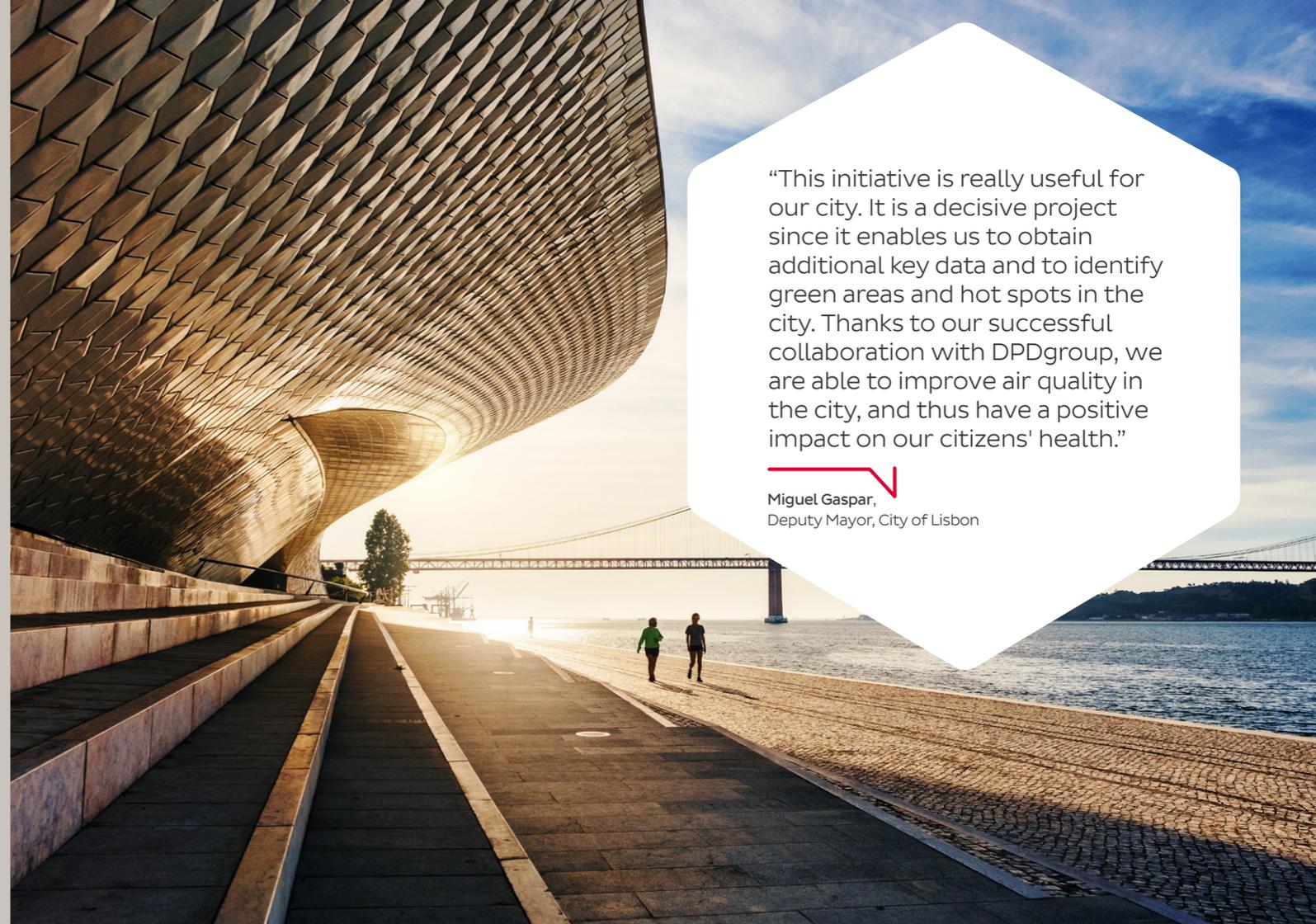
4. One year of PM 2.5 data sets

Your city will receive duly qualified PM 2.5 data collected by our mobile and fixed sensors for one year. The combination of this data represents the average value of measurements gathered with a granularity of 100m by 100m. The data will be transferred on a weekly basis to the city as CSV files, with the timestamp, latitude and longitude values corresponding to each square with validated PM2.5 values gathered over the past 24 hours.

Lisbon, Portugal - A proven success story



DPD Portugal partnered with Lisbon city authorities on its European Green Capital 2020 commitment. Thanks to data measured by Pollutrack using 73 sensors on our vehicle fleet and 19 sensors at our Pickup points, Lisbon authorities were able to design their new low emission zone in the heart of the city. The PM 2.5 pollution hotspots identified enabled objective decision-making to improve air quality in Lisbon for all its citizens.



“This initiative is really useful for our city. It is a decisive project since it enables us to obtain additional key data and to identify green areas and hot spots in the city. Thanks to our successful collaboration with DPDgroup, we are able to improve air quality in the city, and thus have a positive impact on our citizens' health.”

Miguel Gaspar,
Deputy Mayor, City of Lisbon

Why are DPDgroup doing this?

At DPDgroup we are proactive in our approach to sustainability. With 30% of urban air pollution generated by urban logistics, we have an essential role to play in making cities more breathable. Our Air Quality Monitoring Programme is one of our most exciting innovations. We're doing this because it's the right thing to do for our planet, our people and all the communities in which we work.

In 2020, the programme was a huge success in Lisbon, Paris, Madrid, London and Rotterdam.

Our next goal is to grow the programme to include up to 20 cities across Europe.

What happens after the first year?

Our Air Quality Monitoring Programme is just the first step towards better air quality for your city. We cover the cost for the first year so you can see the value in the data collected and begin to leverage it to improve your air quality. It ensures proof of concept for your city without any financial commitment. After the first year, you can choose to continue with the same set up, invest in it further or simply end the agreement. It's up to you.



To bring our Air Quality Monitoring Programme to your city, please get in touch.

For more visit [dpd.com](https://www.dpd.com)





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