

TRUE Seminar: Remote Sensing Data and Low Emission Zones

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Global Vision for TRUE Initiative

1. To serve as the intellectual focal point for scientific development of real world testing equipment and techniques (remote sensing, PEMs, etc);
2. To build and maintain the global database for real world emissions including the capability to analyze this “big data” with a high degree of statistical validity;
3. To regularly publish the results of real world emissions information to continue to foster media attention and support city policies;
4. To work with governments in regional groups and individually to foster policies and actions to lower emissions from vehicles and to accelerate the transition to zero emission vehicles; and,
5. To provide leadership and a venue for the promotion of data transparency, corporate responsibility, and good government practices around vehicle emissions and policies.

Applications for Real World Emissions Data

1. Identification of individual high (or low) emitters
2. Generation of real-world emissions factors
3. Steer new policies
4. Track policy effectiveness
5. Track technology effectiveness
6. Screen fleet for market surveillance
7. Monitor a single fleet
8. Understand the impact of specific driving conditions
9. Inform purchasing decisions

Growing interest in remote sensing at national and city level

City/Region	Remote sensing plans
China	In late 2017, China finalized a standard that allows local Environmental Protection Bureaus (EPBs) to conduct remote sensing to identify high emitting vehicles. Over the past <12 months, the amount of remote sensing equipment in China has grown exponentially and continues to grow.
Hong Kong	Hong Kong has been conducting remote sensing for a number of years and for the past 4 years have been utilizing remote sensing for identification of high emitters. They have plans to expand their program over the next couple years.
Tokyo	Tokyo's regional government has extensive experience with vehicle (lab based) testing and is currently trying to raise internal funding to conduct remote sensing in the next year.
Delhi	India's Supreme Court, in May of 2018 said that Delhi should purchase remote sensing equipment and use it to identify high emitters.
US States	A number of US States continue to utilize remote sensing. In Virginia and Colorado there are large "clean screen" programs where vehicles that are found to be clean through the use of remote sensing can bypass annual emissions testing. California is exploring a number of new ways that they can utilize remote sensing as well.
Mexico City	Mexico City has recently begun using remote sensing to identify individual high emitters and they plan to expand this project over the next couple years.
Europe (European Commission)	The European Commission is making significant (multi-million Euro) funding available to fund projects that address how to increase the utilization of remote sensing across Europe.
Scotland	Scotland's government has announced that they will introduce Europe's most comprehensive network of remote sensing equipment starting in 2019.
Germany	Germany's UBA (German EPA) is providing funding to explore how remote sensing could be utilized in Germany as part of future projects to update vehicle emissions factors and support air quality modeling.

For more details, please visit:

www.theicct.org

www.trueinitiative.org