

Understanding and reducing air pollutant and greenhouse gas emissions using EMIT

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- 1 Who can use EMIT?
- 2 Understanding atmospheric emissions - how EMIT will make your work easier.
- 3 How EMIT works.
- 4 Reducing and testing your emissions - some examples of EMIT in action.

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● EMIT

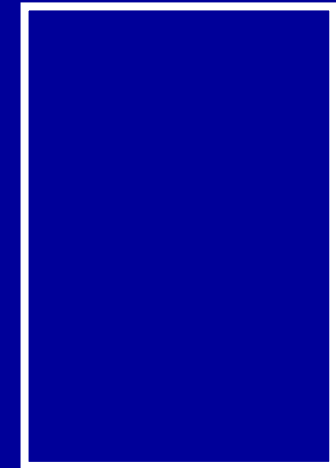
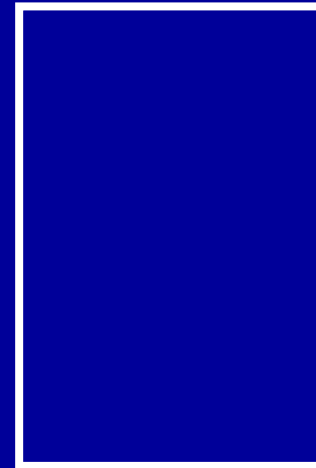
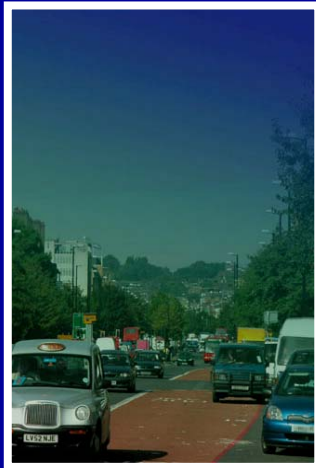
Atmospheric Emissions Inventory Toolkit

WHO CAN USE EMIT?

Any organisation or company in charge of sources of air pollutants or greenhouse gases.

WHO CAN USE EMIT?

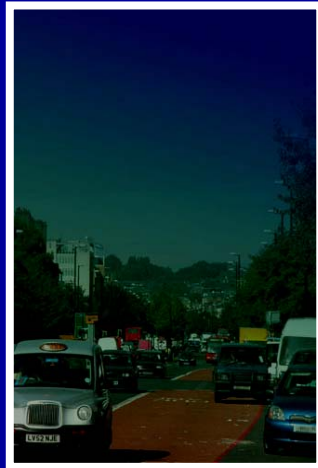
LOCAL AUTHORITIES



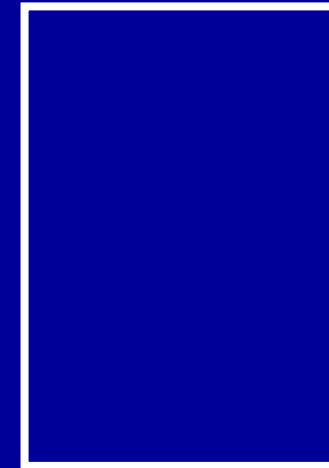
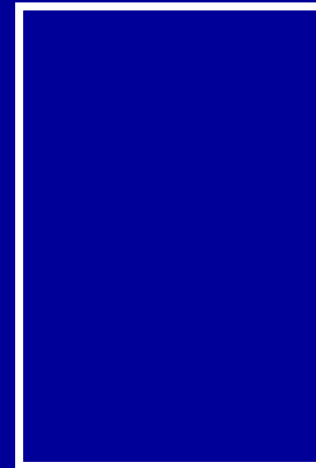
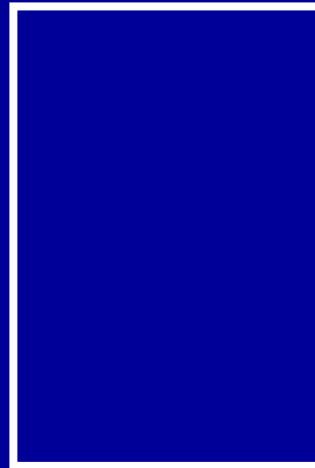
- Quickly build traffic emissions inventories.
- Make and maintain Part A & B inventories.
- Also greenhouse gas emissions.
- Test local emissions reduction initiatives.

WHO CAN USE EMIT?

LOCAL
AUTHORITIES



GAS EMITTING
INDUSTRIES



- Construct inventories of both air pollutant and Greenhouse gas (GHG) emissions.
- Easily convert from GHG to CO₂ equivalent Global Warming Potentials.

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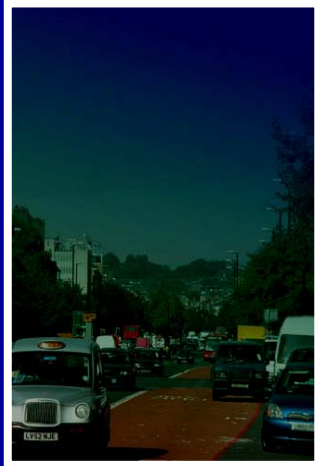
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WHO CAN USE EMIT?

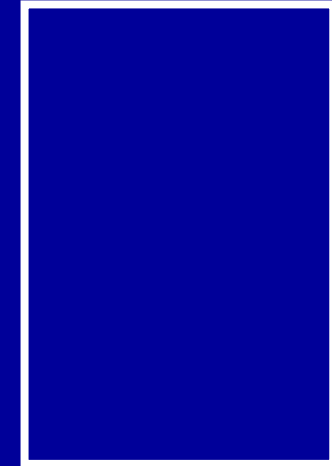
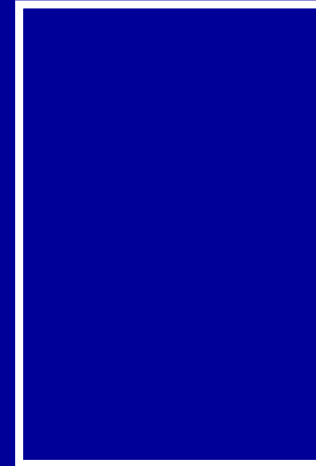
LOCAL
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GAS EMITTING
INDUSTRIES



TRANSPORT
COMPANIES



- Vehicle fleet emissions inventories, with details like cold start and catalytic converters.
- Fleet emissions projection out to 2015.
- Emissions for most aircraft types built-in, as well as landing & take-off cycles.

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WHO CAN USE EMIT?

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AUTHORITIES



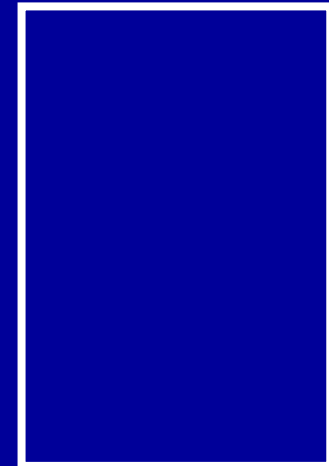
GAS EMITTING
INDUSTRIES



TRANSPORT
COMPANIES



HOUSING
ASSOCIATIONS
& TRUSTS



- Calculate SAP factors with ease.
- Rapidly construct inventories of housing CO₂ and pollutant emissions.
- Test the effect of housing improvement schemes.

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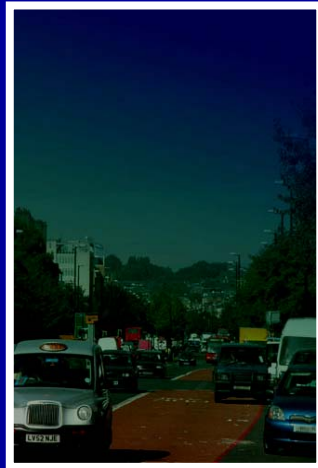
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WHO CAN USE EMIT?

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GAS EMITTING
INDUSTRIES



TRANSPORT
COMPANIES



HOUSING
ASSOCIATIONS
& TRUSTS



AGRICULTURE
& LANDFILL



- Easily calculate emissions from agricultural or landfill sources.

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What EMIT can do for you

- Using EMIT will
 - ❖ Reduce the effort needed to compile emissions inventories.
 - ❖ Improve the accuracy of your inventories.
 - ❖ Help keep your inventories up to date.
 - ❖ Save on advanced training and expertise.

 - ❖ Save you time.
 - ❖ Save you money.

What EMIT can do for you

- Using EMIT will

- ❖ Reduce the effort needed to compile emissions inventories.
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- What users say:

“EMIT is a God-send .. it is an extremely useful tool.”

AT, Pollution Control Officer

What EMIT can do for you

- **RAPID INVENTORY DEVELOPMENT**

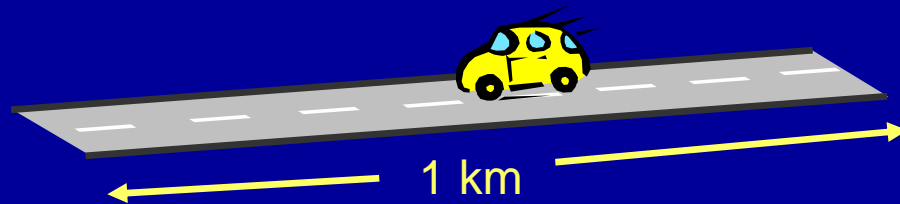
- ❖ Allows emissions of your sources to be calculated using emission factors and activity data.
- ❖ Includes comprehensive emissions factors for most major sources types found in the UK.
- ❖ Can also calculate emissions using a top-down approach from scaling data.

What EMIT can do for you

- **RAPID INVENTORY DEVELOPMENT**

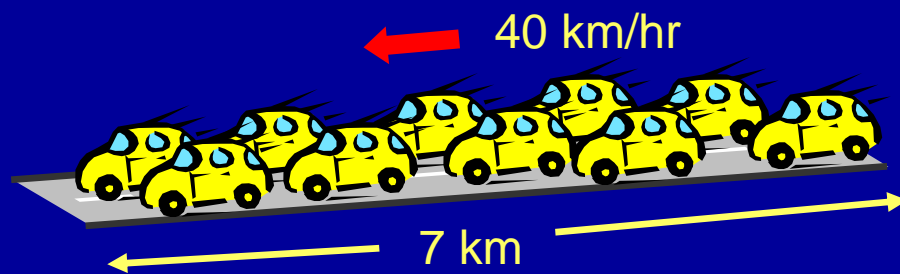
EMIT knows:

- How much pollution a certain type of car emits at a given speed.



What EMIT can do for you

- **RAPID INVENTORY DEVELOPMENT**



EMIT knows:

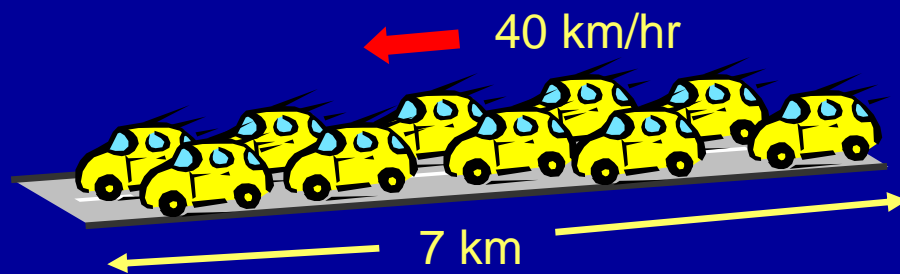
- How much pollution a certain type of car emits at a given speed.

You tell EMIT:

- How many cars are on the road.
- How fast the cars are travelling.
- How long the road is.

What EMIT can do for you

- **RAPID INVENTORY DEVELOPMENT**



$$E = 365 \times 2000 \times 7 \times 0.455 \text{ g/year}$$

= 2.325 tonnes/year

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- How much pollution a certain type of car emits at a given speed.

You tell EMIT:

- How many cars are on the road.
- How fast the cars are travelling.
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EMIT does the rest...

What EMIT can do for you

- **RAPID INVENTORY DEVELOPMENT**



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What EMIT can do for you

- SCENARIO TESTING MADE EASY

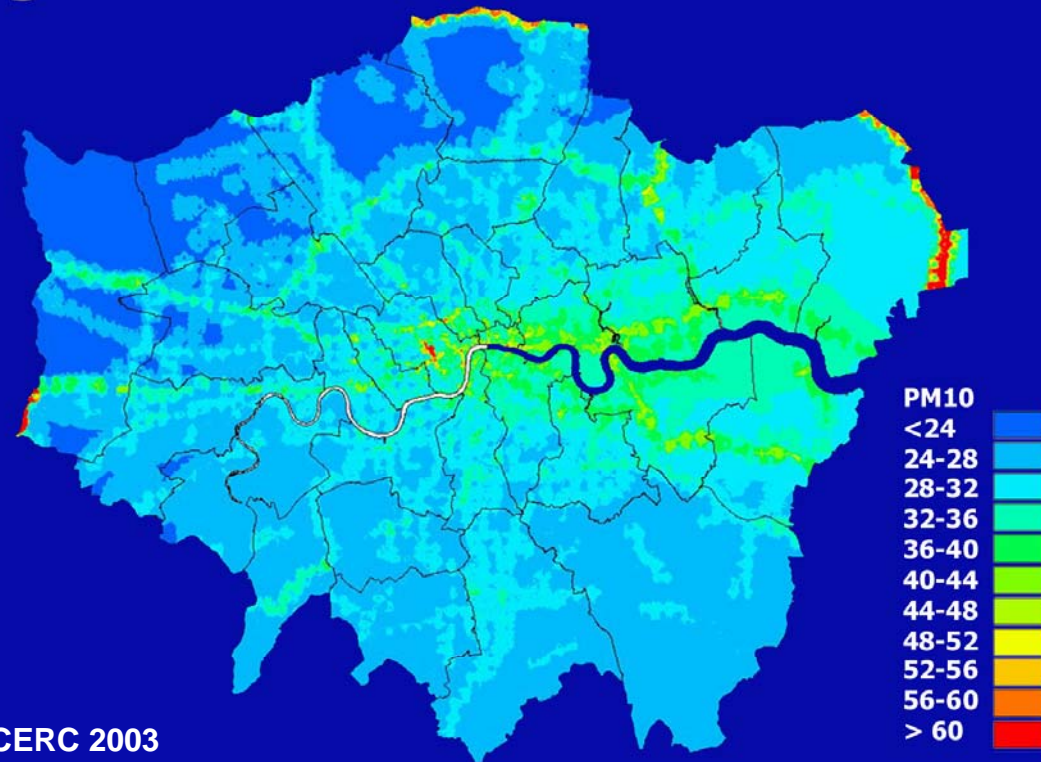


What EMIT can do for you

- **SAVE YOU TIME AND MONEY**

EMIT AND ADMS-Urban

**Example forecast
Highest PM10 levels over 24 hours**



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Summary

- Most industries can use EMIT.
- EMIT will simplify and speed the development of emissions inventories.
- EMIT will makes the maintenance and revision of inventories easy.
- EMIT will save you money.