



Horizon Prize

CLEANEST ENGINE RETROFIT

COMPETE, INNOVATE & WIN €1.5 MILLION!




The EU is offering €1.5 million to the person or team who develops the **best solution** for cutting emissions from an existing diesel engine in real-life driving conditions.

WHY?

The EU aims to develop **AFFORDABLE** technology to reduce the impact of existing diesel cars on **AIR QUALITY**.

HELP US

REDUCE EMISSIONS OF:

-  Nitrogen Oxides (NOx)
-  Particles
-  Hydrocarbons
- ...and other pollutants

WHAT IS AN ENGINE RETROFIT?

One or more emission control devices is/are added to an existing diesel engine to reduce its emissions.

On-road emissions can be **4-7 times higher** than those released during lab tests (more for older vehicles)

Exposure to air pollutants during pregnancy has been linked to:

- **reduced foetal growth**
- **premature births**
- **miscarriages**

Air pollution is the top environmental risk factor behind **premature deaths** in Europe

- **cancer**
- **lung, heart, brain problems**

Early-life exposure to air pollution can significantly affect development and trigger **allergies and diseases** such as **asthma and diabetes**



HEALTH



THE HORIZON PRIZE ENGINE RETROFIT FOR CLEAN AIR

Aims to stimulate innovative thinking to find a solution for an **existing** diesel engine that:



reduces emissions of regulated and unregulated pollutants



ensures fuel consumption doesn't increase significantly – a decrease would be even better!



is affordable and can extend vehicle life for those who cannot afford a new one



provides local authorities with a tool to respond to pollution risks



maintains acceptable driving performance

CAN YOU CRACK THIS CHALLENGE?

Find out more at www.ec.europa.eu/horizonprize/engineetrofit

#horizonprize

ec-engine-retrofit-prize@ec.europa.eu