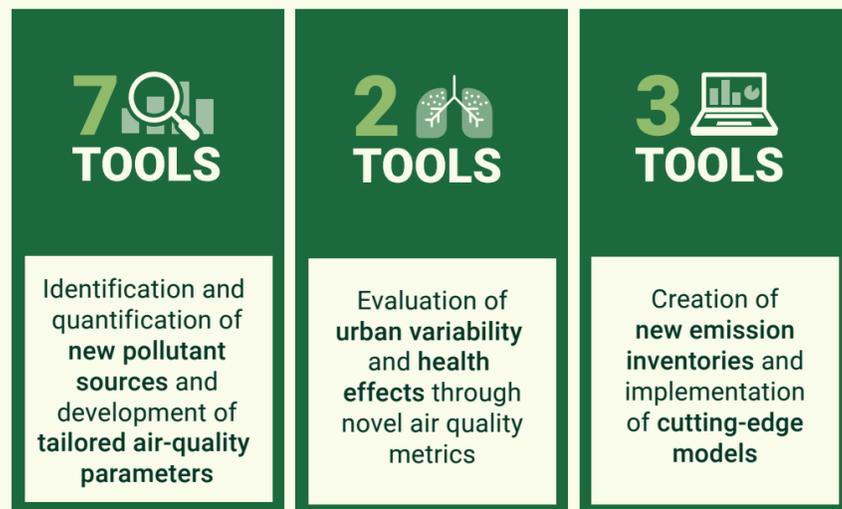


Service tools

RI-URBANS provides 12 advanced service tools to reply to the challenges of **new and complex urban air quality pressures**, and improve the analysis of air quality across Europe.



The problem

Atmospheric pollution is a major cause of **premature mortality and disease in Europe**.

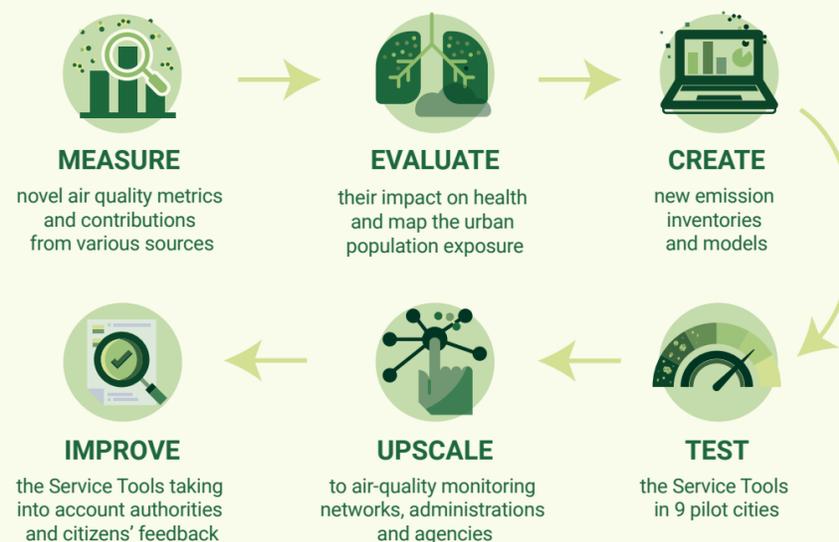
According to the 'Air Quality in Europe 2021' report, around 307,000 premature deaths were attributed to chronic exposure to fine particulate matter in 2019.

Even though the success of the European Air Quality Directive in reducing this number over the last decades, **poor air quality remains a health issue in urban, industrial, and rural areas**.

Objective

RI-URBANS aims to improve the service tools from atmospheric research infrastructures to better monitor air pollution and quantify its impact on human health.

What do we do?



RI-URBANS



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Project duration: 01-OCT-2021 to 30-SEPT-2025

Coordinators



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RI-URBANS

Research infrastructures services reinforcing **air quality monitoring capacities** in European urban and industrial areas



Key innovative approaches

- 1 Near real-time data of nanoparticle size distribution
- 2 Source apportionment of nanoparticles
- 3 Near real-time source apportionment for particulate matter and black carbon
- 4 Offline and online measurements of oxidative potential
- 5 Mapping urban pollutants involving citizens
- 6 Linking vertical measures with air quality services and modelling tools
- 7 Evaluating the impact of air pollution on health