

SHERPA v2.0: new features

The European Commission's
science and knowledge service
Joint Research Centre

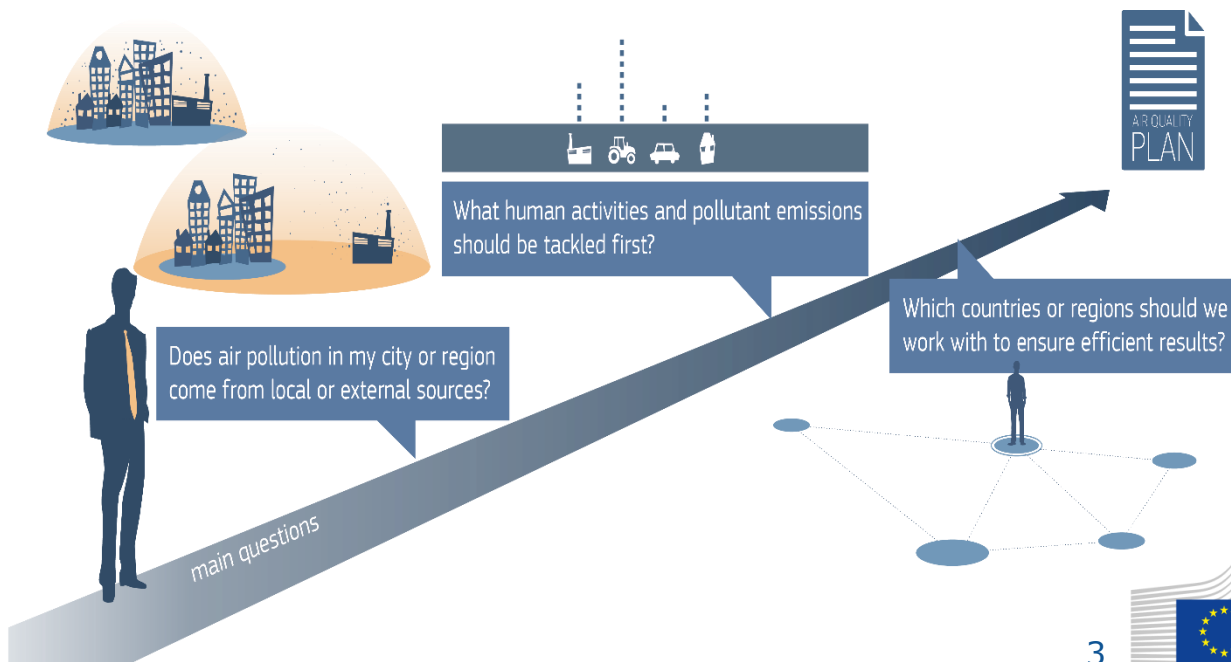
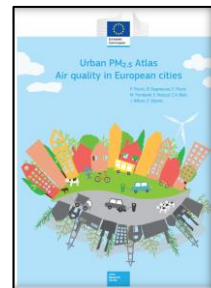
V2.0 (april 2018)

Features of the new release:

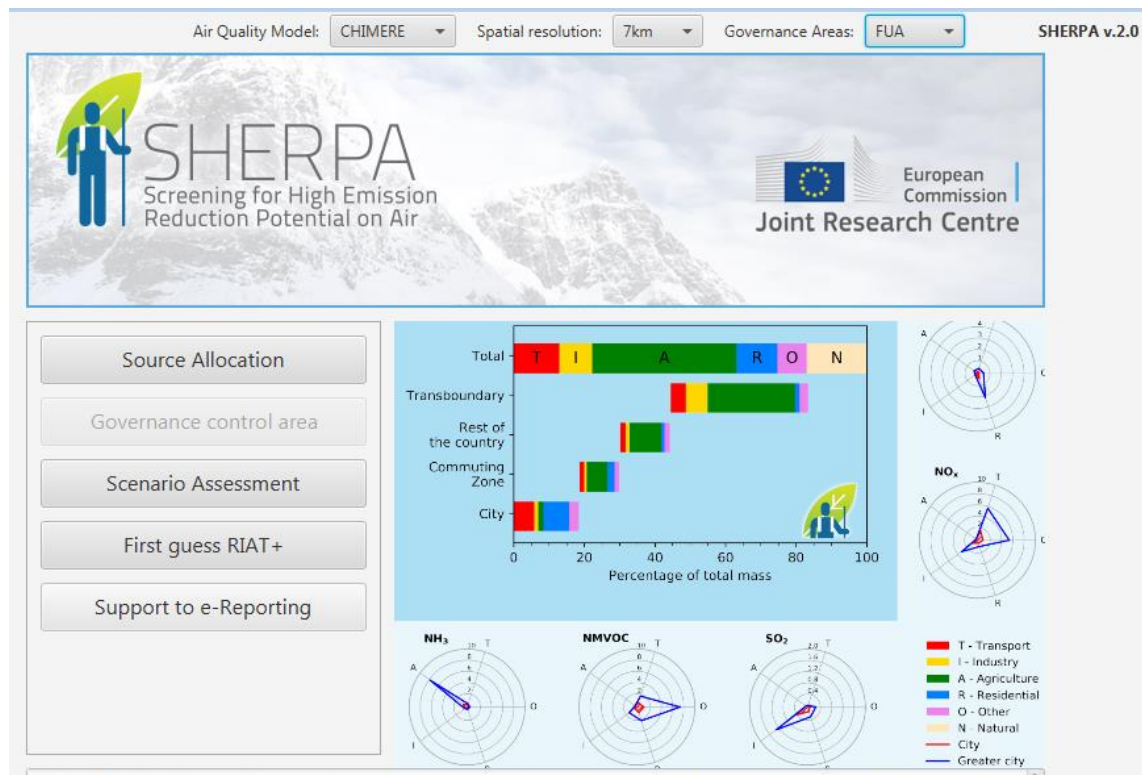
- A new module called 'support to e-reporting' (source allocation on 150 cities available)
- The extension of the 'scenario analysis' module, to allow for the 'health impact' evaluation of PM2.5 air quality policies
- Fixing a bug on 'source allocation' of NO2

The JRC PM2.5 urban atlas

The JRC recently published the Urban PM2.5 Atlas to help local/regional policy makers design their air quality plans



SHERPA Main screenshot



Selecting cities

Sherpa

Support to e-Reporting

Load config Save config

Add location

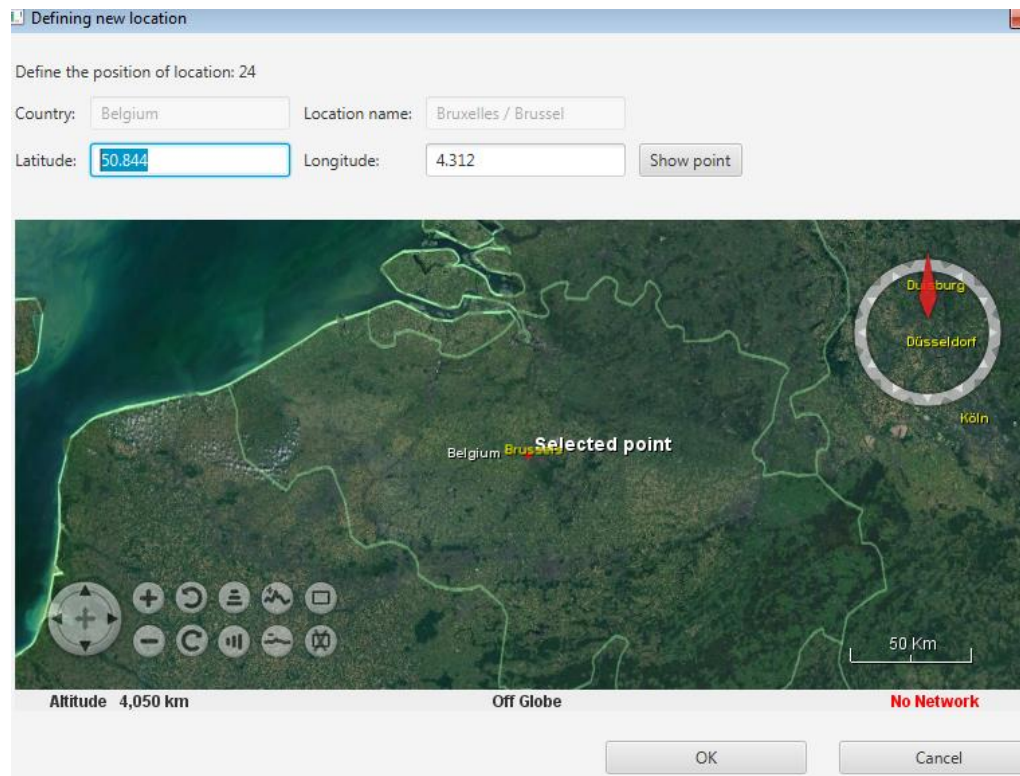
Select all

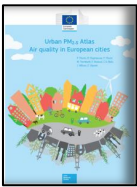
Deselect all

Restore default list

Locations list								
Identifier		Country	Location name	Latitude	Longitude			
16	<input type="checkbox"/>	Germany	Bonn	50.78125	7.1875	Edit	Delete	
17	<input type="checkbox"/>	France	Bordeaux	44.84375	-0.5625	Edit	Delete	
18	<input type="checkbox"/>	Slovakia	Bratislava	48.15625	17.0625	Edit	Delete	
19	<input type="checkbox"/>	Germany	Braunschweig-...	52.15625	10.4375	Edit	Delete	
20	<input type="checkbox"/>	Germany	Bremen	53.09375	8.6875	Edit	Delete	
21	<input type="checkbox"/>	Italy	Brescia	45.53125	10.1875	Edit	Delete	
22	<input type="checkbox"/>	United Kingdom	Bristol	51.46875	-2.5625	Edit	Delete	
23	<input type="checkbox"/>	Czech Republic	Brno	49.21875	16.5625	Edit	Delete	
24	<input type="checkbox"/>	Belgium	Bruxelles / Brus...	50.84375	4.3125	Edit	Delete	
25	<input type="checkbox"/>	Romania	Bucuresti	44.40625	26.0625	Edit	Delete	
26	<input type="checkbox"/>	Hungary	Budapest	47.46875	19.0625	Edit	Delete	
27	<input type="checkbox"/>	Bulgaria	Burgas	42.53125	27.4375	Edit	Delete	
28	<input type="checkbox"/>	Poland	Bydgoszcz	53.09375	18.0625	Edit	Delete	
29	<input type="checkbox"/>	France	Caen	49.15625	-0.3125	Edit	Delete	
30	<input type="checkbox"/>	United Kingdom	Cardiff	51.46875	-3.1875	Edit	Delete	
31	<input type="checkbox"/>	Italy	Catania	37.46875	15.0625	Edit	Delete	
32	<input type="checkbox"/>	France	Clermont-Ferra...	45.78125	3.1875	Edit	Delete	
33	<input type="checkbox"/>	Poland	Czestochowa	50.78125	19.0625	Edit	Delete	

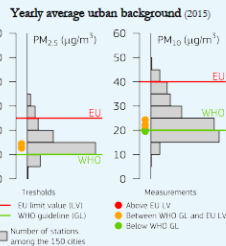
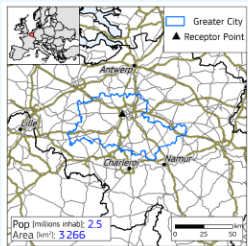
Selecting location inside the city



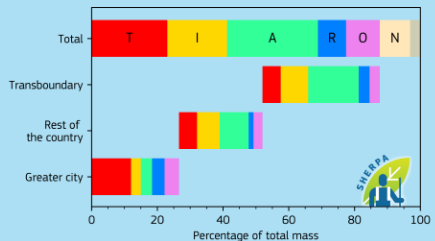


Mapping the source of PM2.5 in the EU

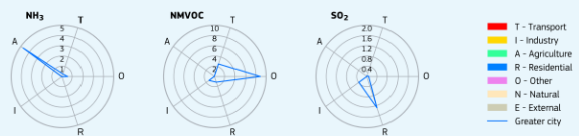
Belgium, Brussels



PM_{2.5} Spatial and sectoral allocation (SHERPA v.1.9)



Emissions [t/year]



Geographical and sectoral allocation



V2.0 (april 2018)

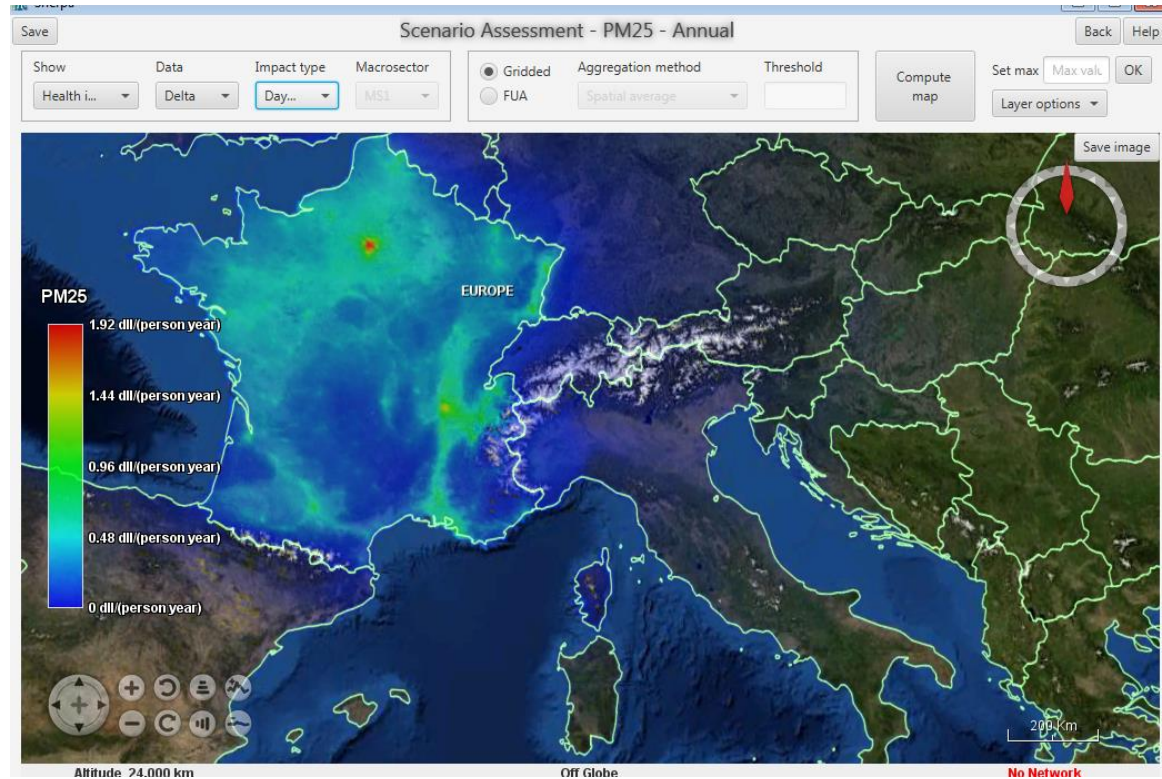
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Health impact

- Only available for PM2.5
- Population: from LUISA modelling platform
- Health impact methodology: from WHO HRAPIE
- Available end-points:
 - **Mortality**
 - **YLL**
- Based on population, concentration, ERF -- > compute health

Example: days of life loss per person



Mortality

