

Save Money, Save the Planet!

The role of Integrated Decision Support Systems in Infrastructure

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CLIMATE CHANGE STUDY CENTRE

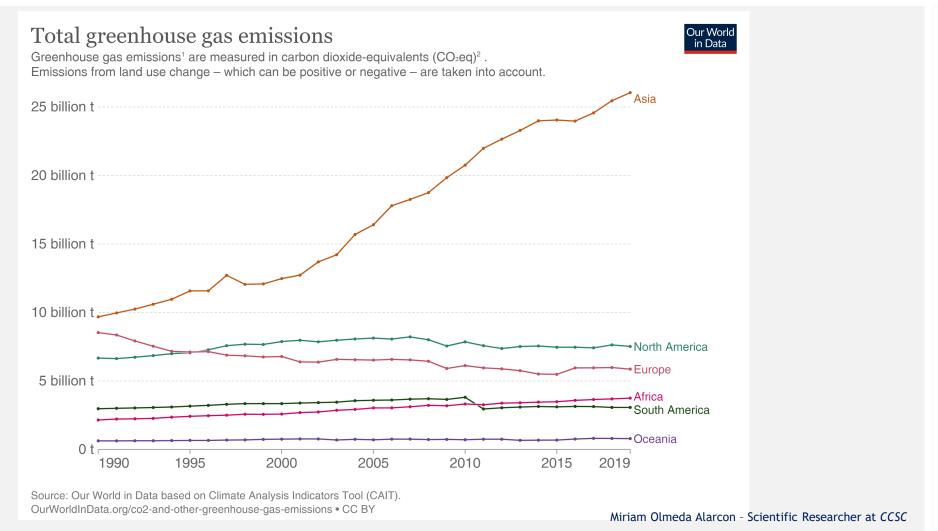




Collapse of the bridge along State Road 195 over the Santa Lucia River (Cagliari, Italy). Source: La Repubblica, 2018.

"Vegetation adaptation strategies are essential in a climate change context"





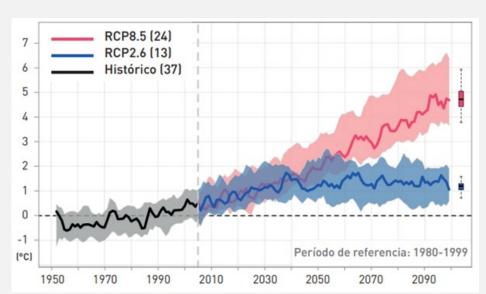




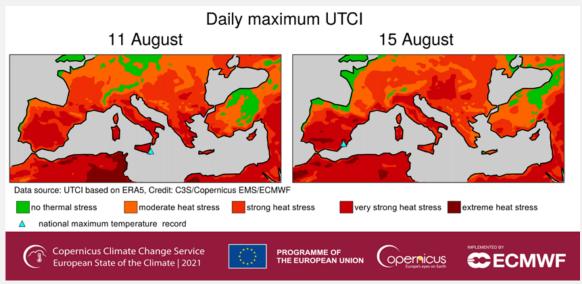








Projected annual temperature changes compared to the reference period of the recent past (1980-1999), based on the EURO-CORDEX ensemble mean of 0.11°. Source: Cramer et al., (2020).



Universal Thermal Climate Index (UTCI) daily maximum for 11 and 15 August, showing the locations of the provisional national maximum temperature records observed in Syracuse, Italy and Alcantarilla, Spain. Data source: ERA5. Credit: C3S/Copernicus EMS/ECMWF.

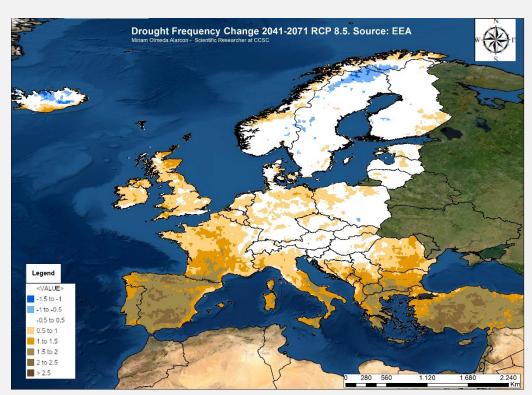




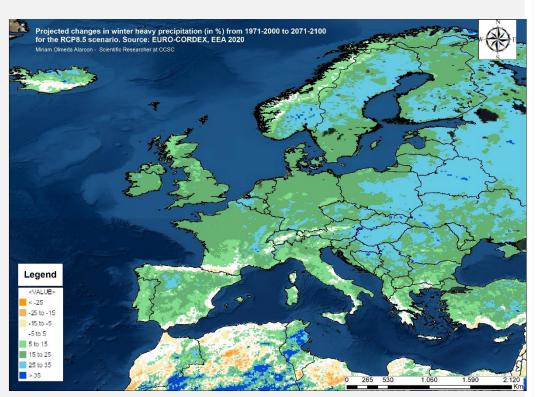








Drought Frequency Change 2041-2071 RCP 8.5. Source: EEA. Cartography by: Miriam Olmeda Alarcon – Scientific Researcher at CCSC.



Projected changes in winter heavy precipitation (in %) from 1971-2000 to 2071-2100 for the RCP 8.5 scenario. Source: EURO-CORDEX, EEA 2020. Cartography by: Miriam Olmeda Alarcon – Scientific Researcher at CCSC.

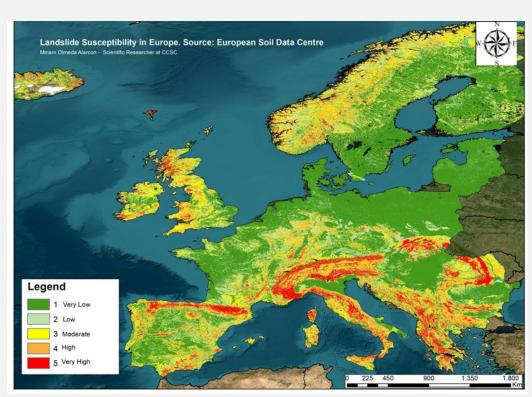




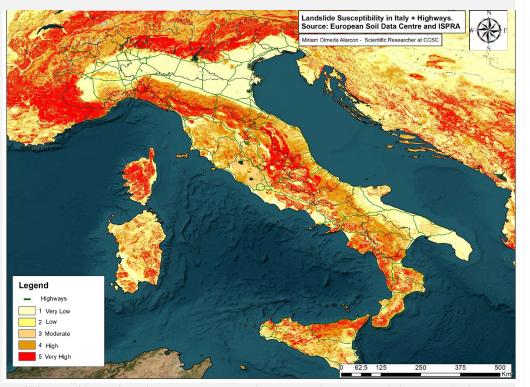








Landslide Susceptibility in Europe. Source: European Soil Data Centre. Cartography by: Miriam Olmeda Alarcon – Scientific Researcher at CCSC



Landslide Susceptibility in Italy + Highways. Source: European Soil Data Centre and ISPRA. Cartography by: Miriam Olmeda Alarcon – Scientific Researcher at *CCSC*.











ARE WE READY?

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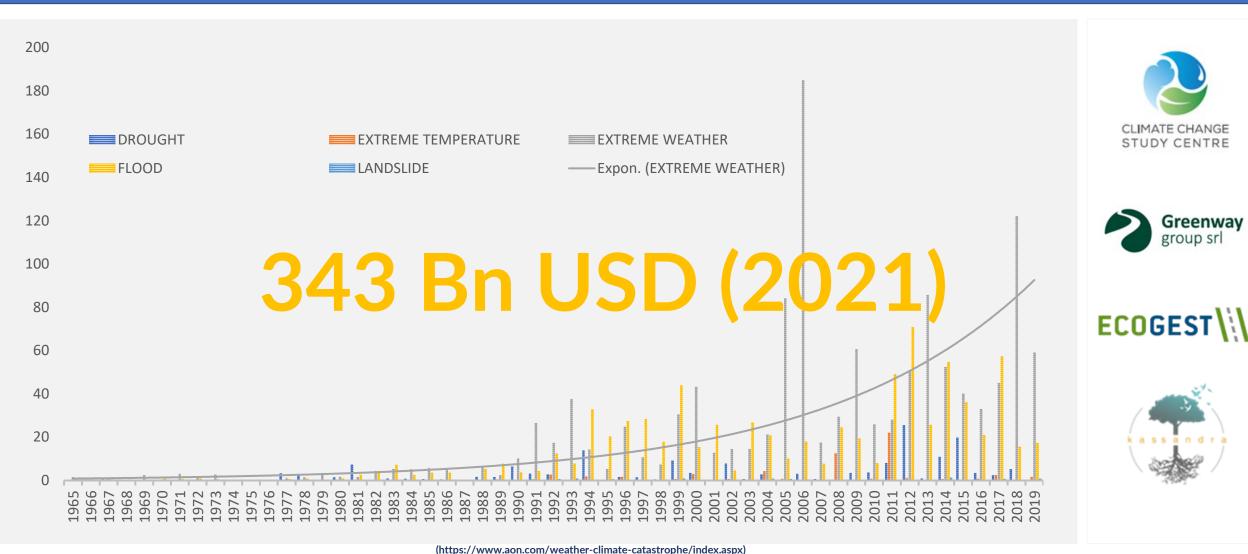




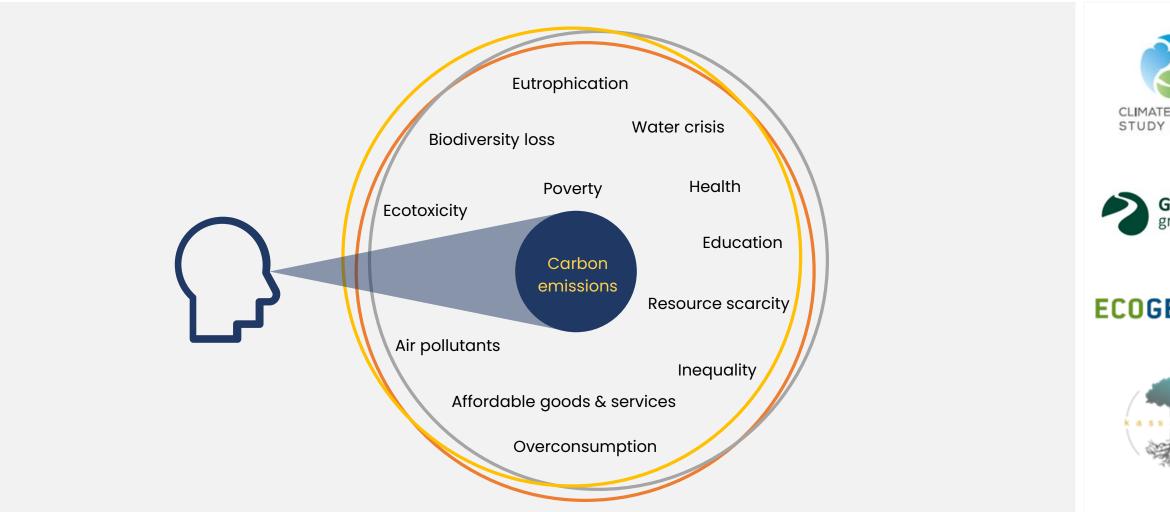






















Infrastructure and cities are complex systems

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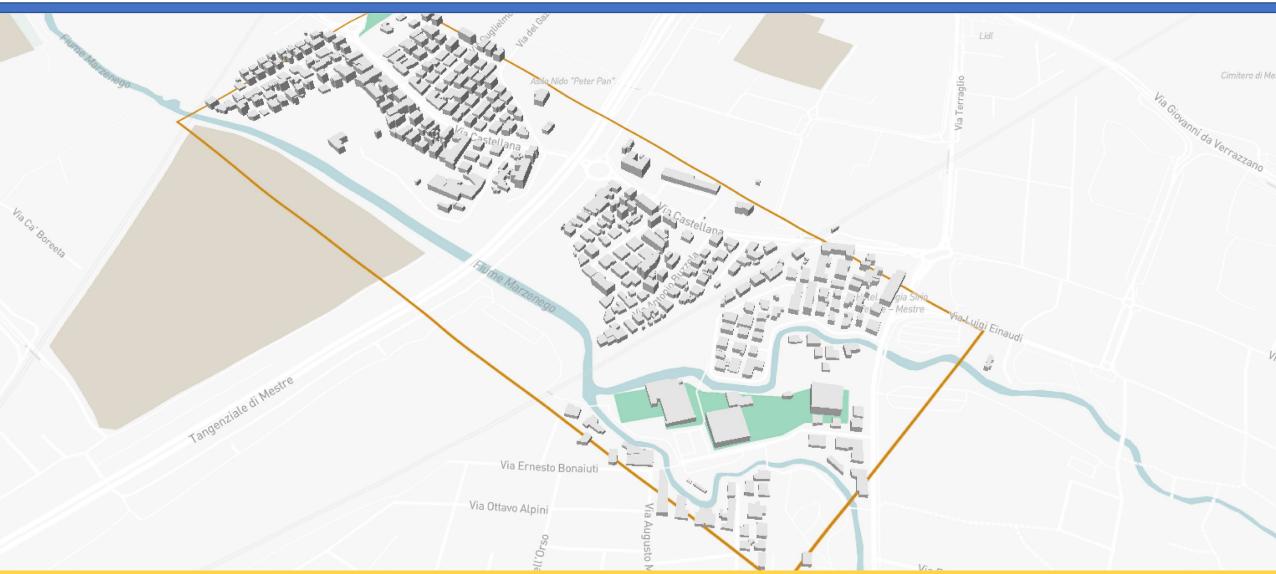




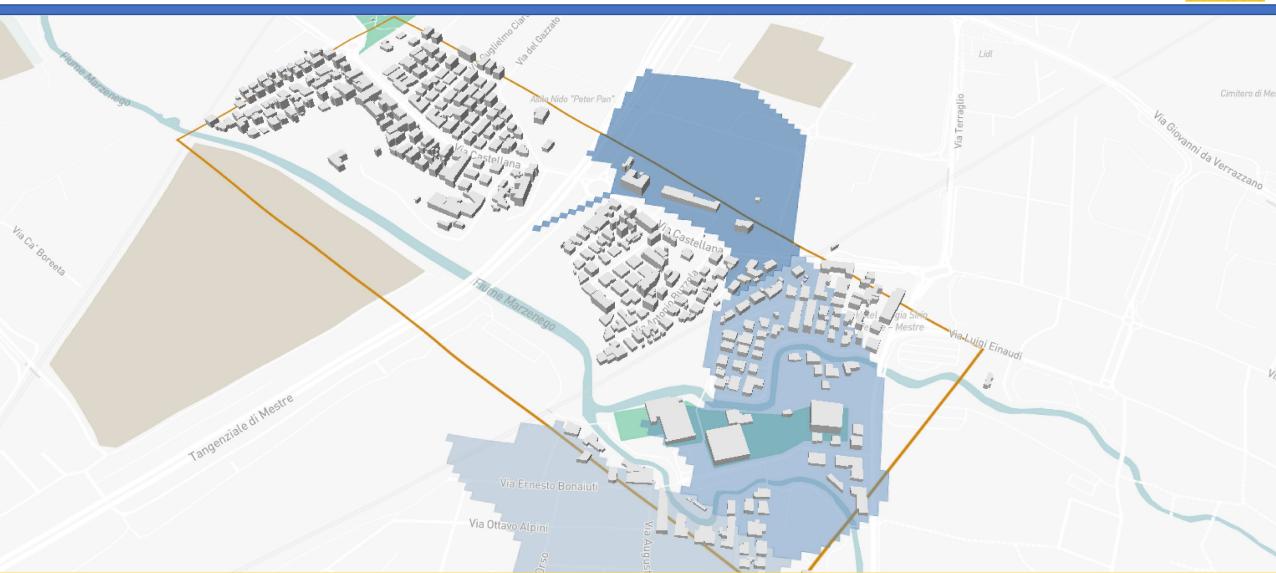




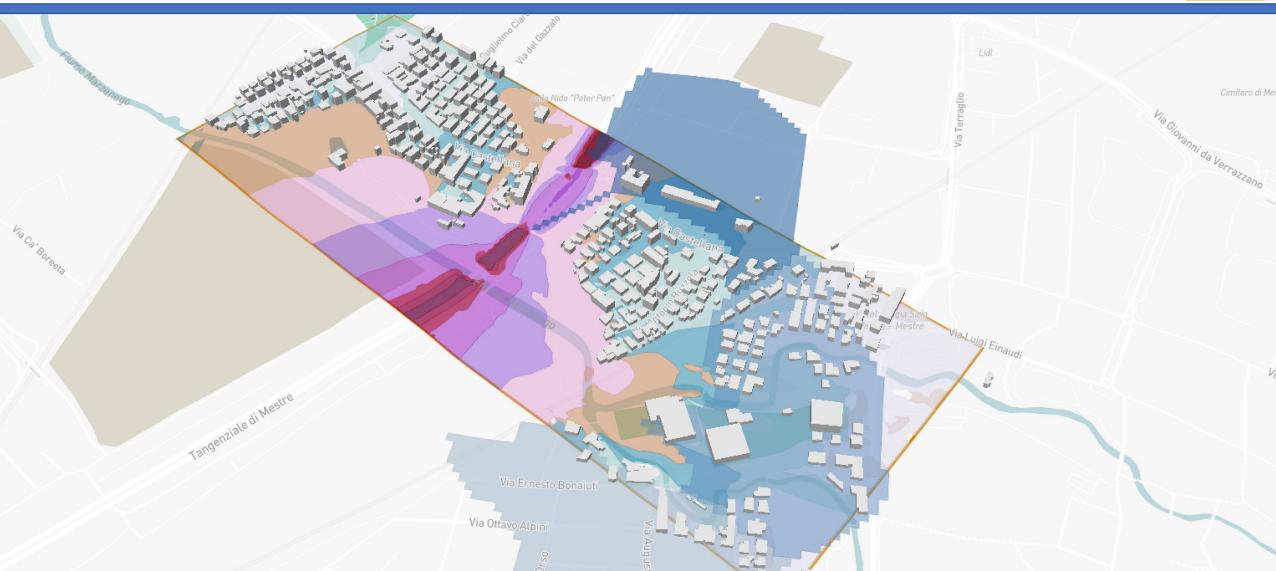








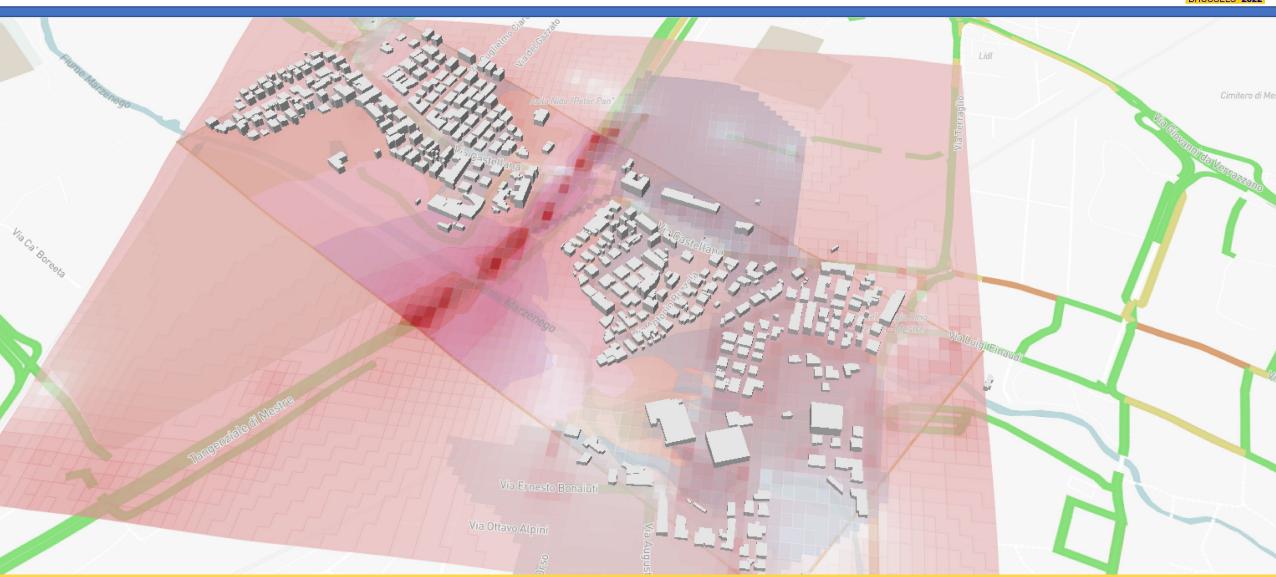




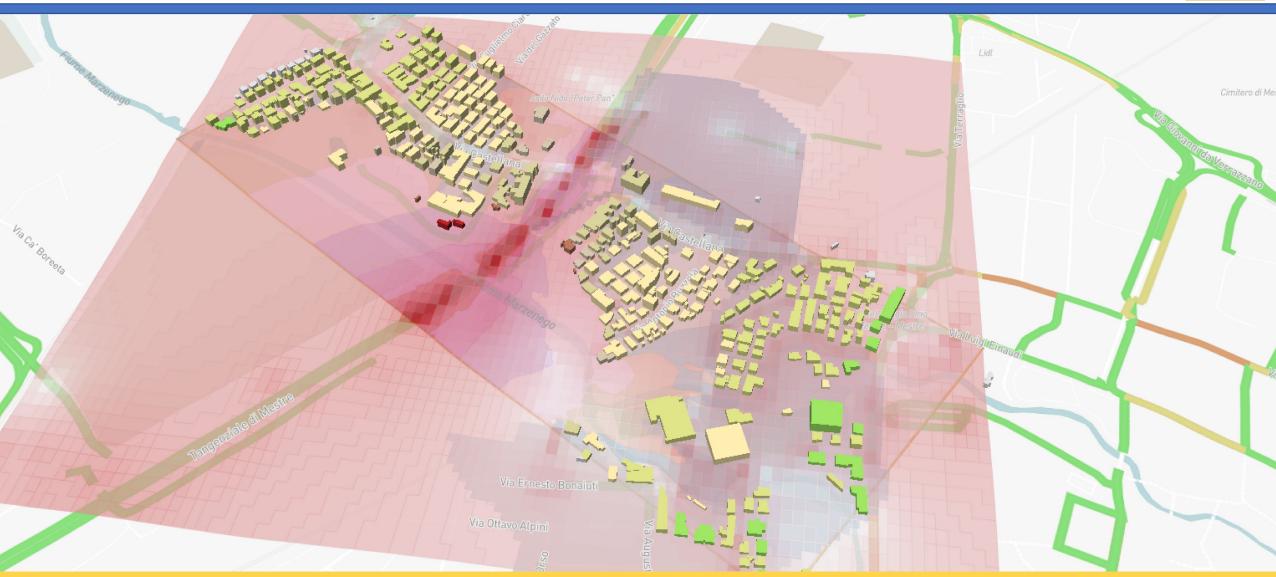








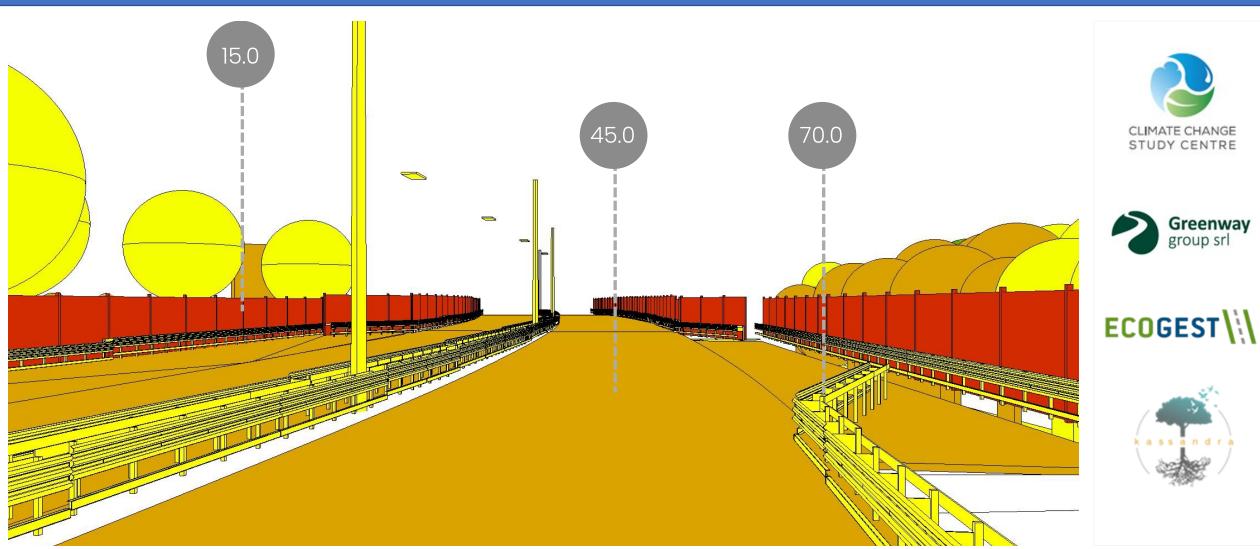
















MOTORWAY SECTION STUDIED

300 m





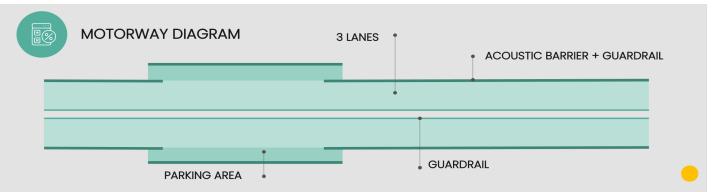




















With the right decisions it is indeed possible to save money and save the planet!











THANK YOU FOR YOUR ATTENTION

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