Framework of visualising and analysing urban transformation features responding to Covid 19 pandemic

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Framework of visualising and analysing urban transformation features responding to Covid-19 pandemic

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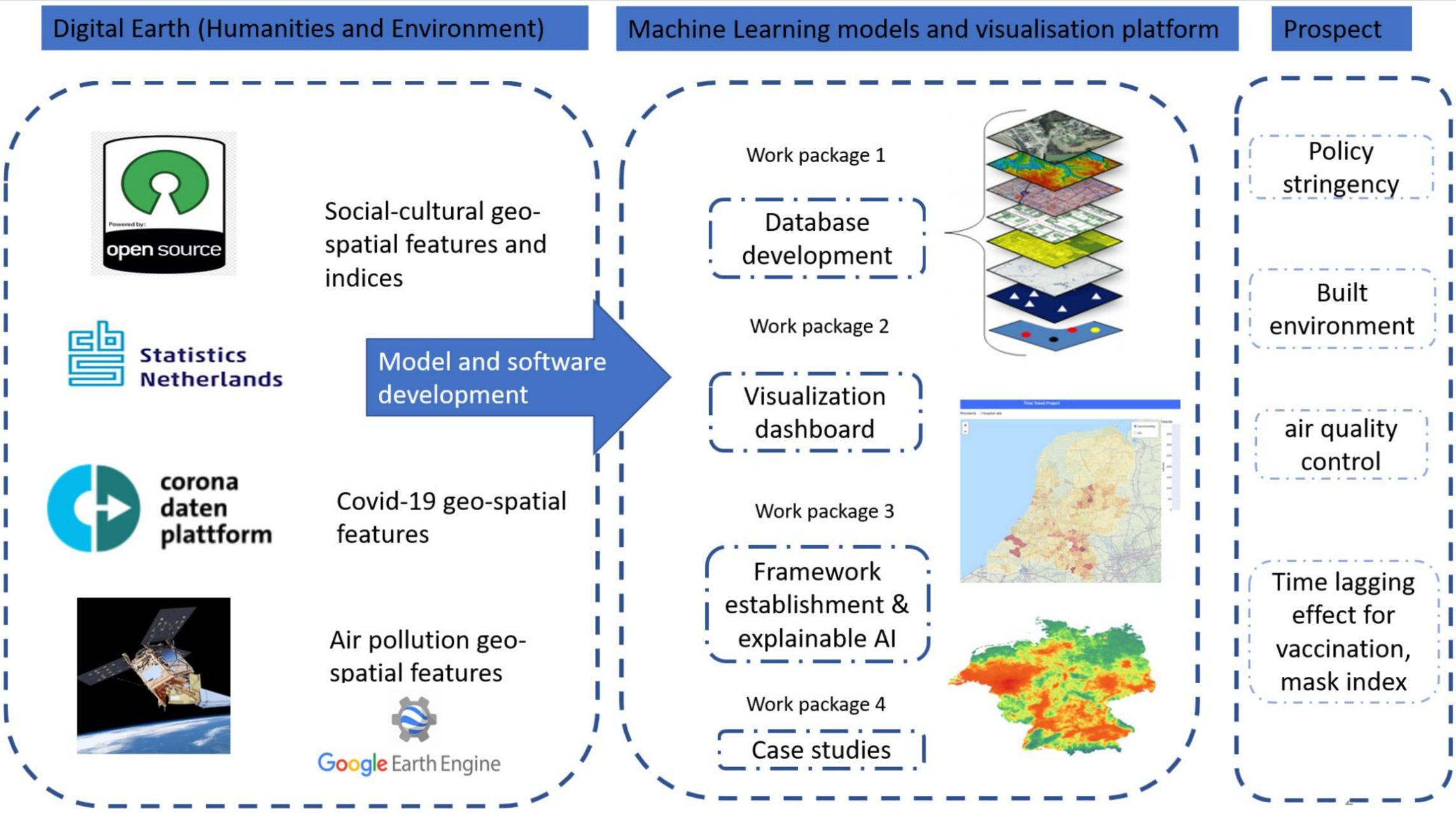
❖ 1. Background and highlights

- There are dashboards that visualising the social, environmental features and the Covid-19 features.
- There are studies which are focus on analysing the correlation between pandemic features and urban transformation features at the country level, district level, municipality level, city level, community level, individual level, etc.
- ➢ We are establishing a dashboard that will facilitate researchers in the domain of urban planning, air quality control, public health with data acquisition, visualisation, and analysis at different levels.
- ➢ There will be one case study on the air quality dynamics responding to Covid-19 policy for the urban air quality control.
- ➢ In this research, we will develop the methodology framework of correlation analysis applied on multi-source data including explainable artificial intelligence models.

❖ 2. Workflow



❖ 3. Prospect and Discussion

- ❑ The post-processing analysis using machine-learning explainable methodologies could contribute the correlation analysis of multi-source data.
- ❑ Importance ranking of the urban features responding to Covid-19 is diverse metrics from both spatial and temporal scale.
- ❑ Importance ranking of the urban features could provide new evidence and scientific support for policymaking of urban built environment management, air quality control, public health.

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