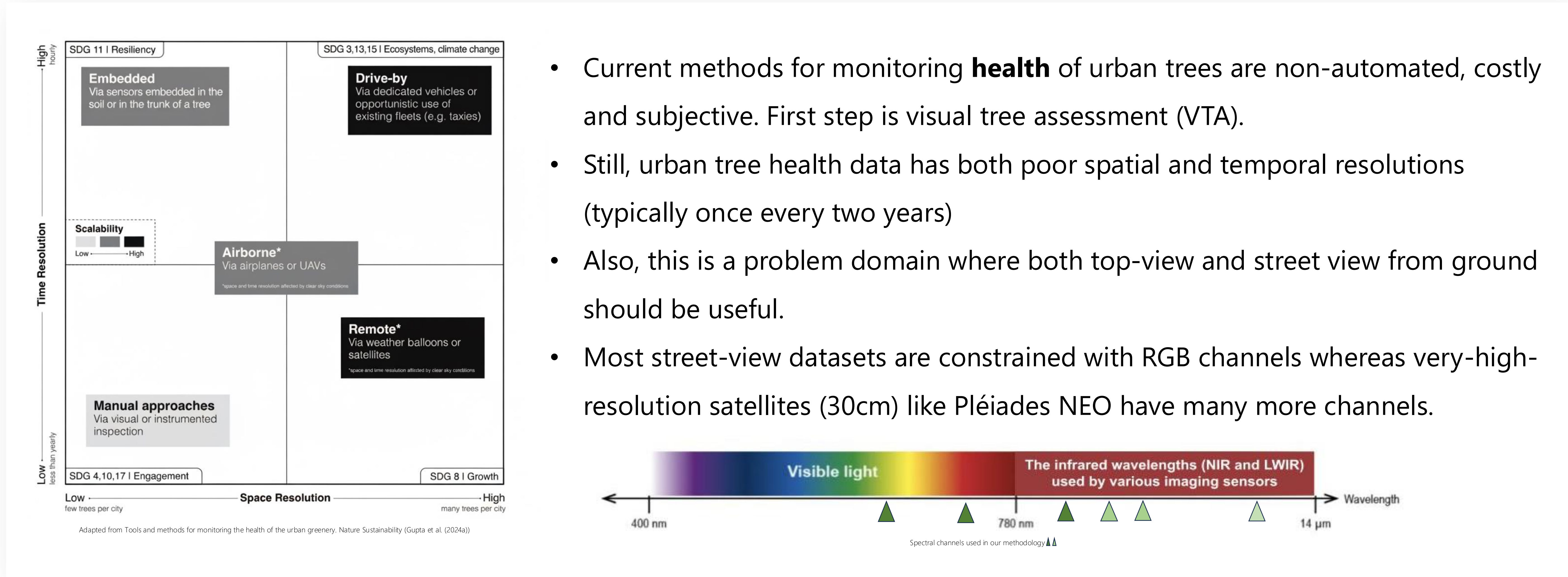


Gathering synchronized multispectral street-view imagery with opportunistic sensing to facilitate urban environmental insights

*Dataset Domain: Multispectral street-view imagery with very-high-resolution remote sensing for estimating the **health** of urban trees*

Ok, but why care about urban trees? Trees provide multiple ecosystem services, from regulating air temperatures to preventing surface run-off in events of heavy rainfall, while facing multiple stressors exacerbated by climate change.

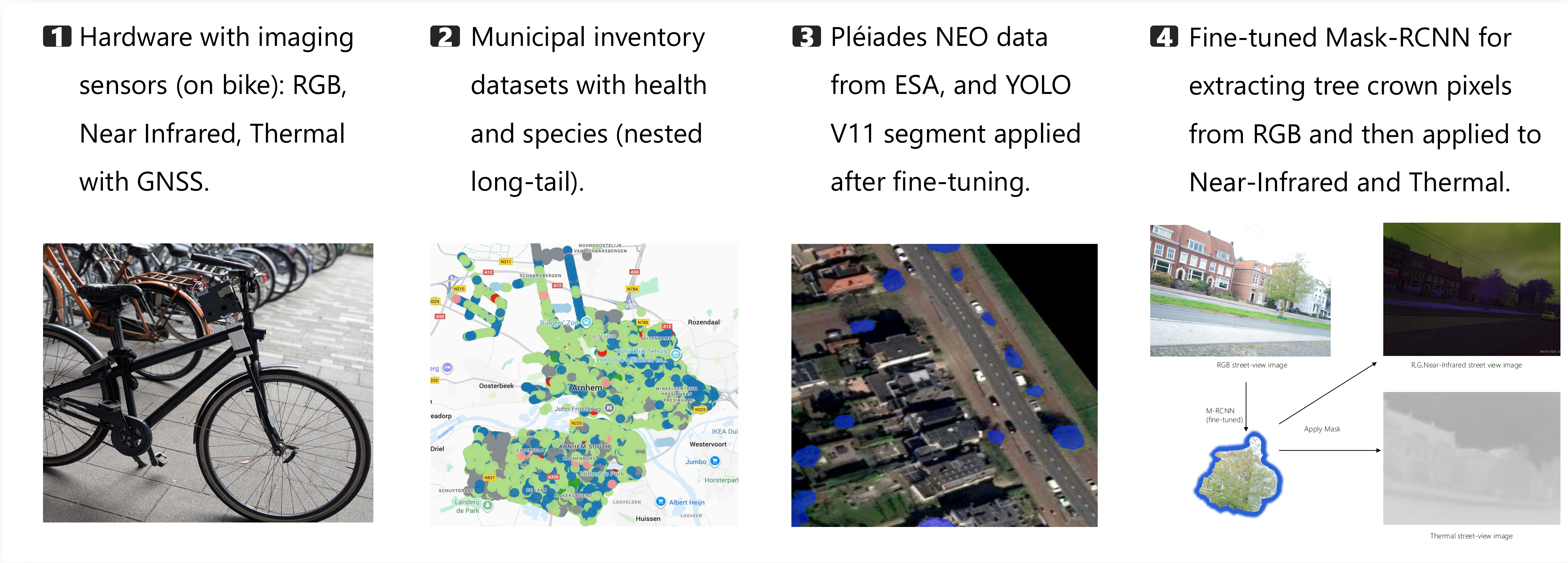


Methodology

Custom hardware

Segmentation

Opportunistic Sensing



Dataset generated: Groups of thermal, optical and near-infrared, satellite images centered on a tree, masks and *labels* (tree health assessment by arborist and species), covering three cities in the Netherlands with different urban morphologies : Arnhem, Oirschot, Delft. Currently, we have 7608 synchronized street-view images.



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