

# Powerful tools to fight Climate Impacts

Trees and urban green are one of the best tools to reduce city temperatures and flood risk, whilst also making our neighbourhoods places we want to live.

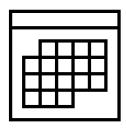
WEO utilise deep learning and satellite imagery to provide regular actionable insights for cities to help grow their urban forest to tackle climate change.

14

# Using Al we create high-resolution insights from satellite data



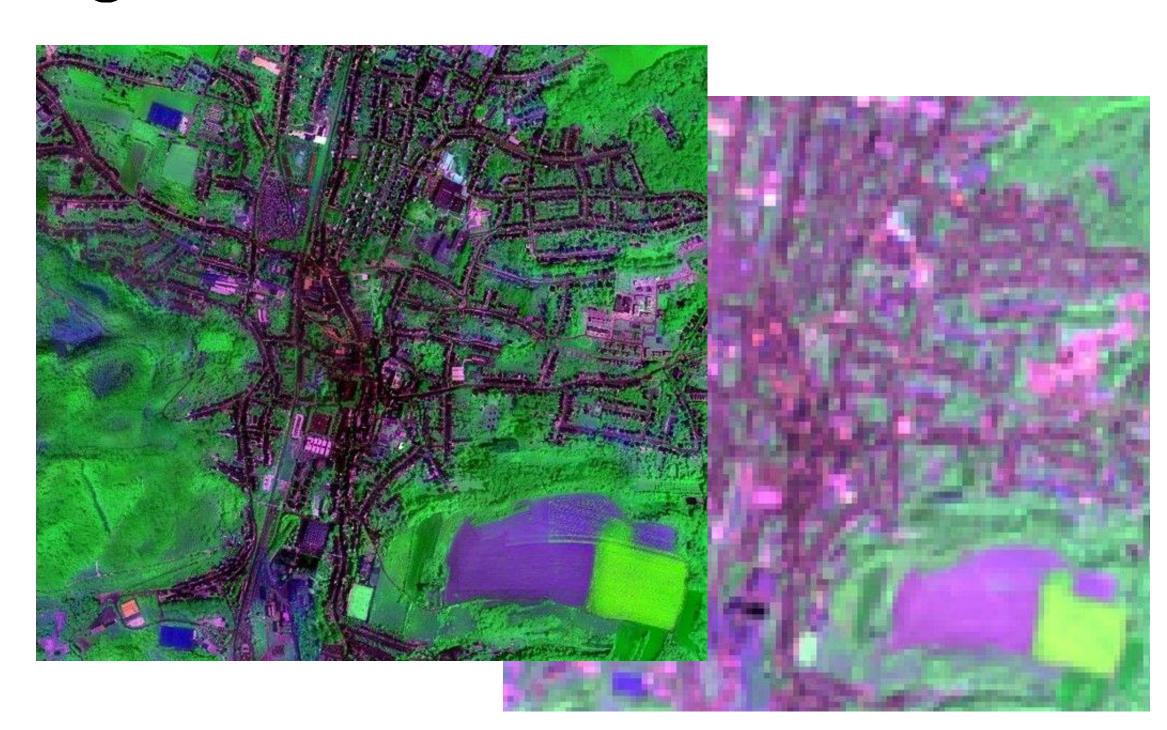
Deep Learning to zoom in to higher resolutions



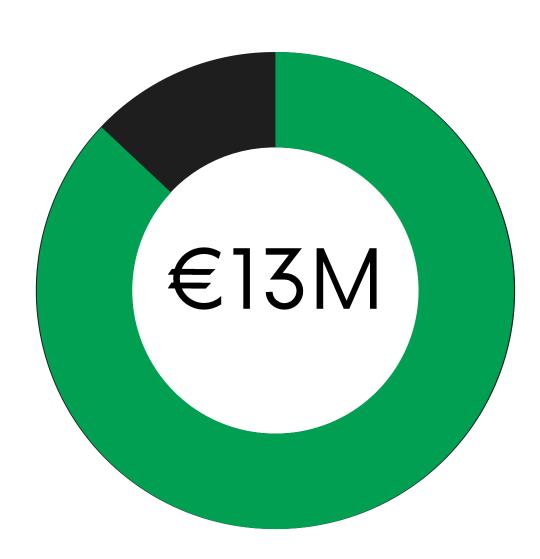
Seasonal Updates – not years between aerial flights



Sentinel Satellite datasets available globally



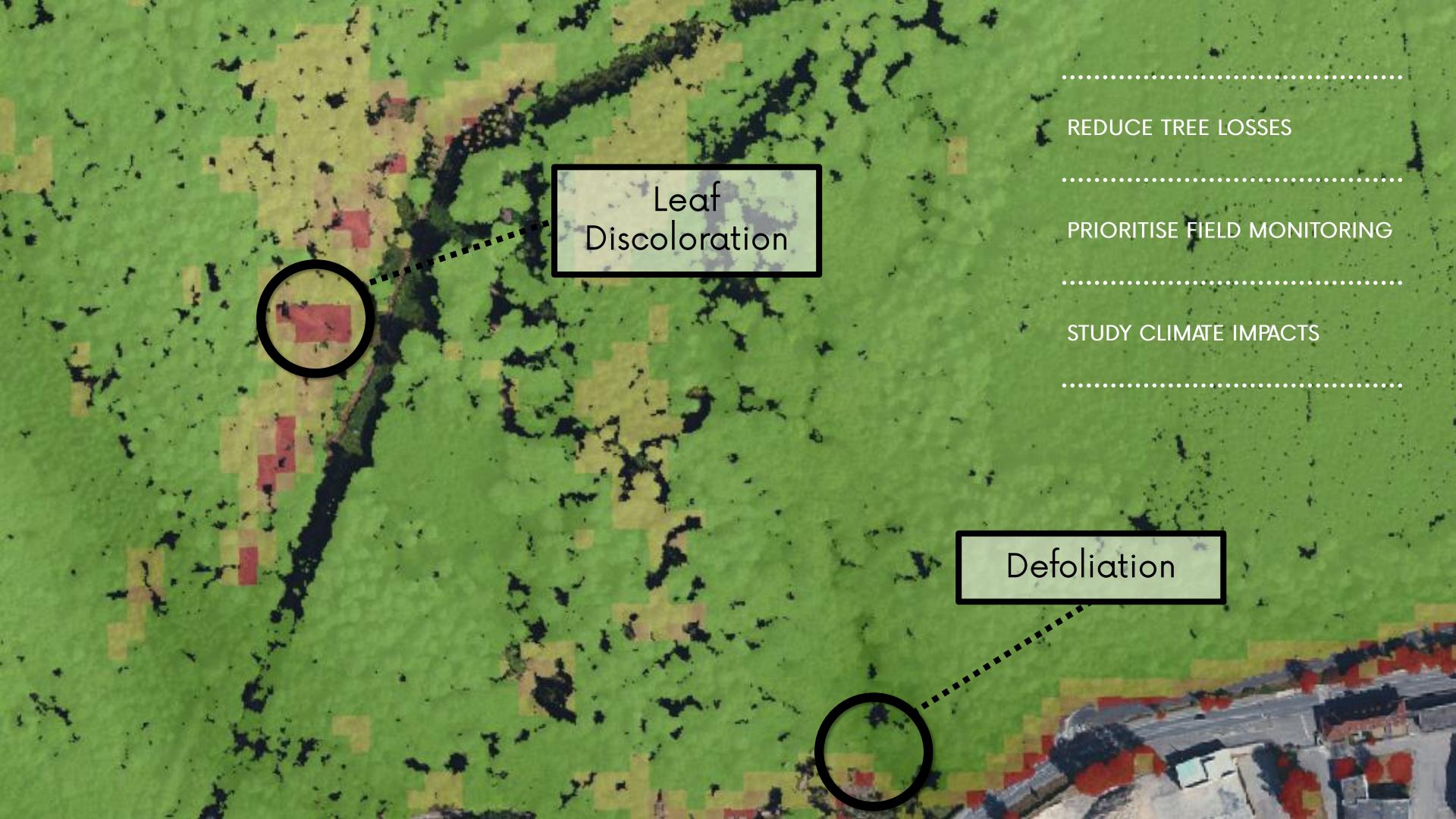
#### An enhanced approach is needed to achieve our tree goals



Paris annual tree management budget



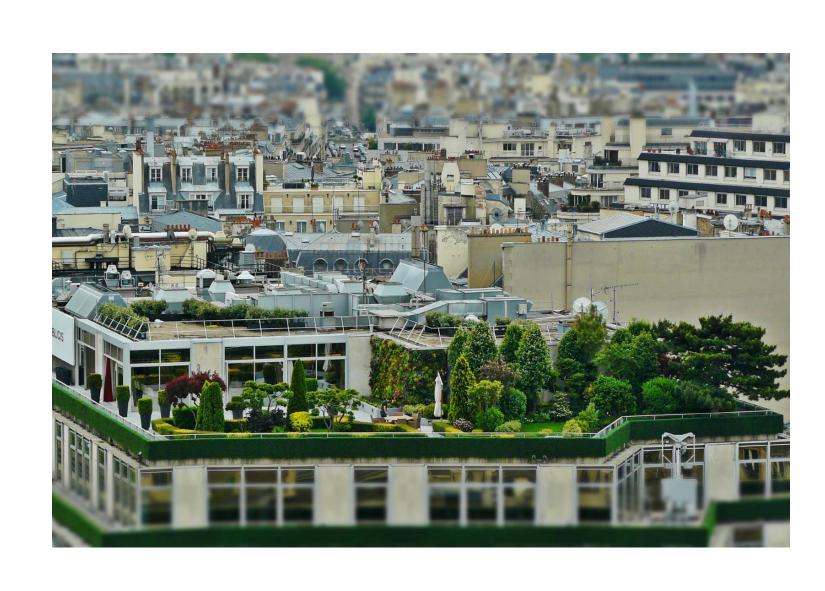
The average target canopy cover increase amongst surveyed major cities





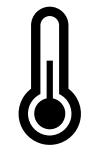


# Green Roofs: Combatting Climate Change Beautifully





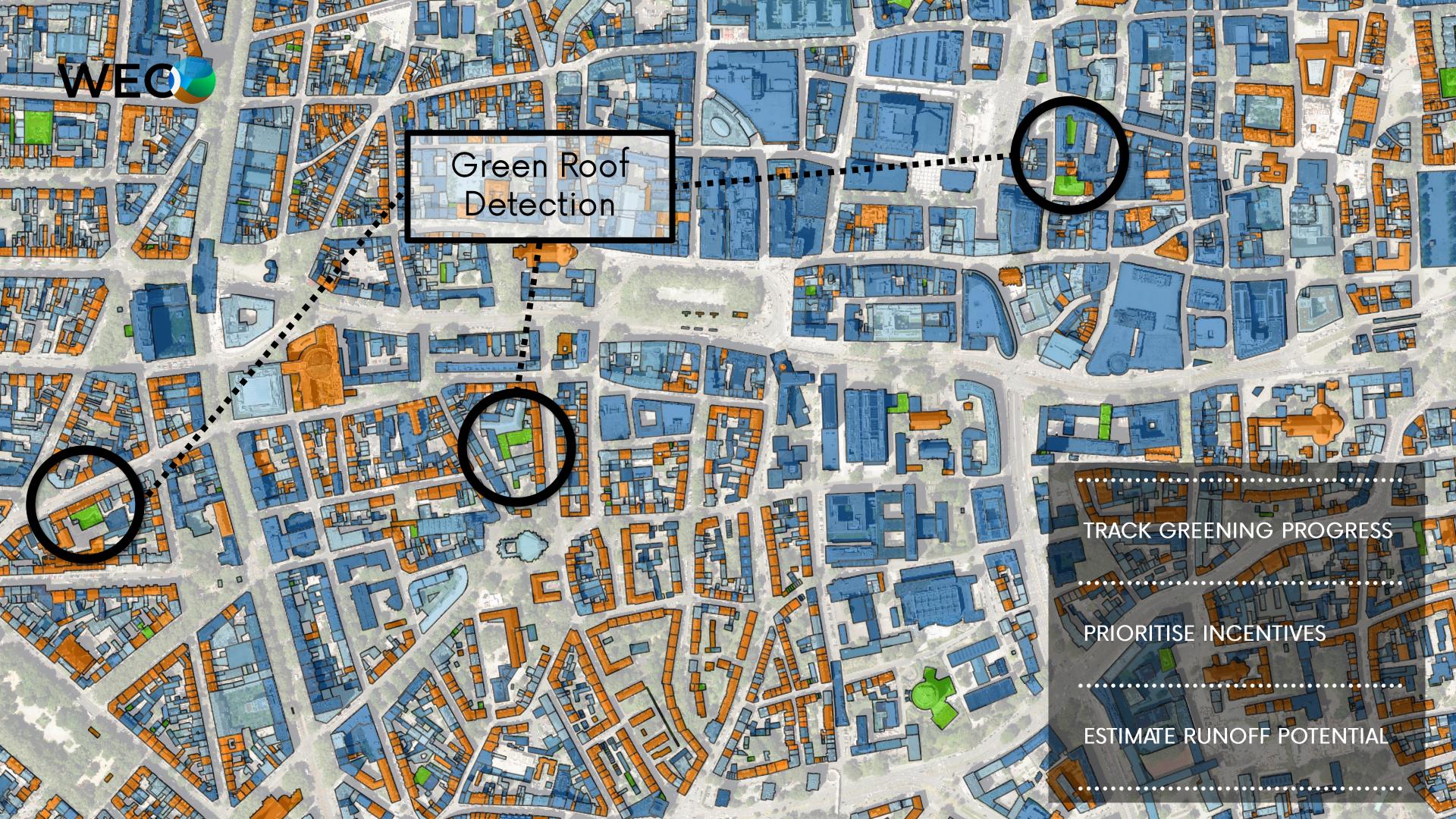
Reduce Flood Risk without building concrete barriers

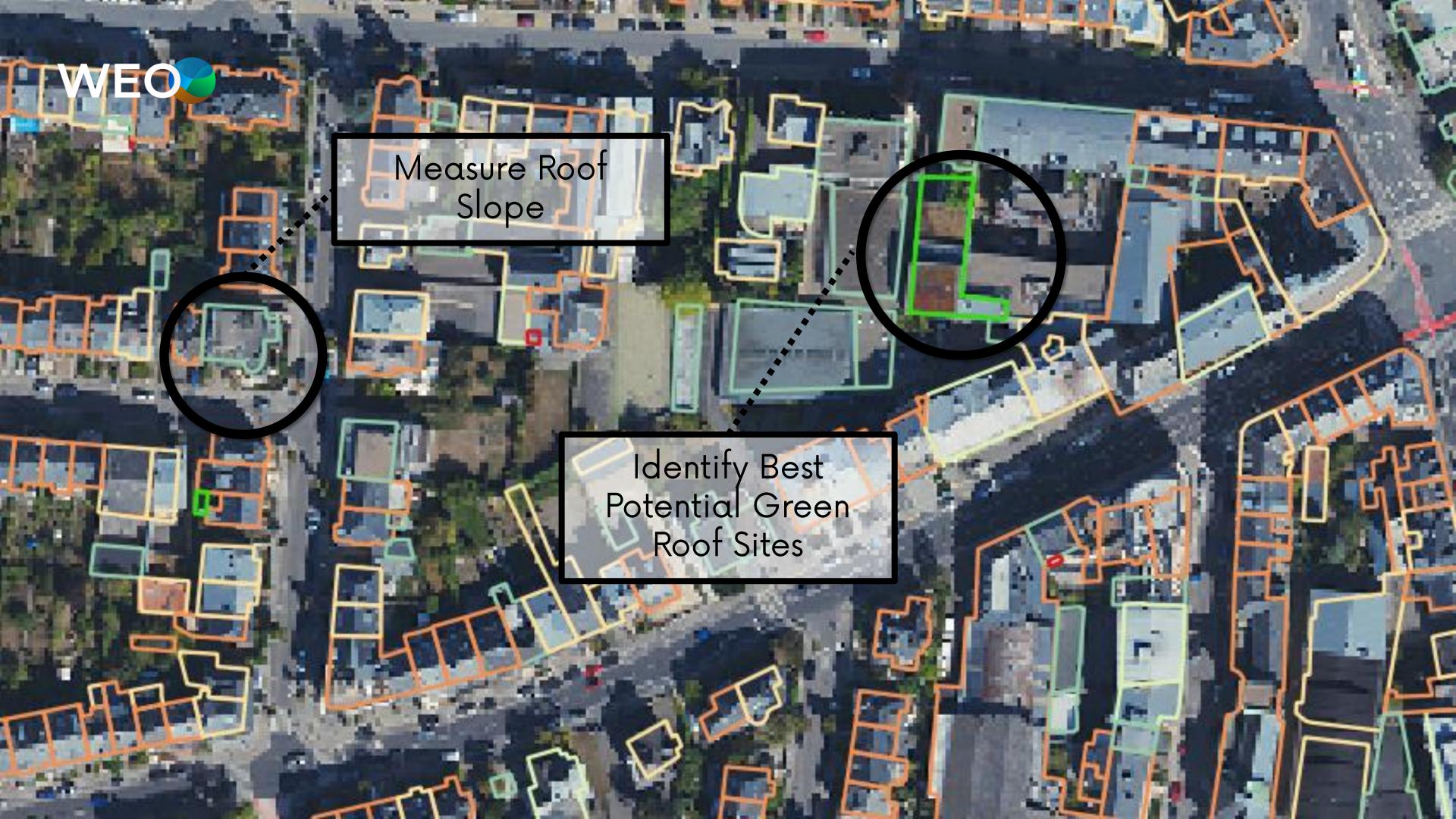


Combat Urban Heat Island Effects



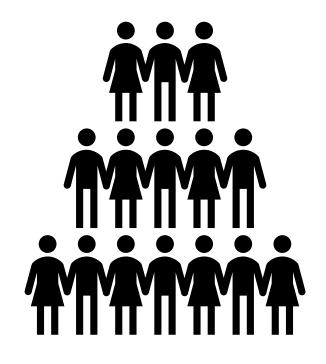
Insulate homes during the winter







## Preparing for Climate Change



70,000

The number of excess deaths in the 2003 European Heatwaves



Natural surfaces heat up in daytime and then cool at night



Roads and pavement heat up and stay warm through the night

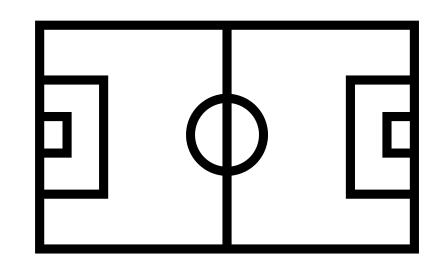


Rural areas can be 10 degrees cooler than adjacent city blocks during a heatwave.





# Land take and the concreting of our countryside



2 Million

The number of football fields of arable land taken for urban growth since 2000 in Europe



Identify new development early



Incorporate data into flood risk models







# Vegetation putting assets at risk

This image highlights vegetation covering the roof of a critical pump station supplying 30,000 homes in a high fire risk area of South Australia.

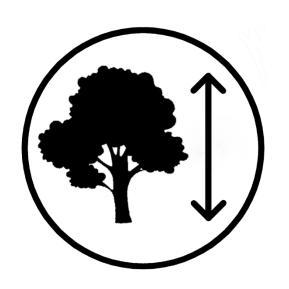
With thousands of assets like these, the only way to accurately and regularly update risk assessments for its critical assets is with satellite data.





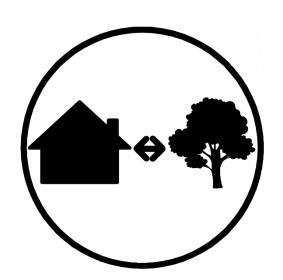
#### Proximity

Vegetation Distance from Buildings



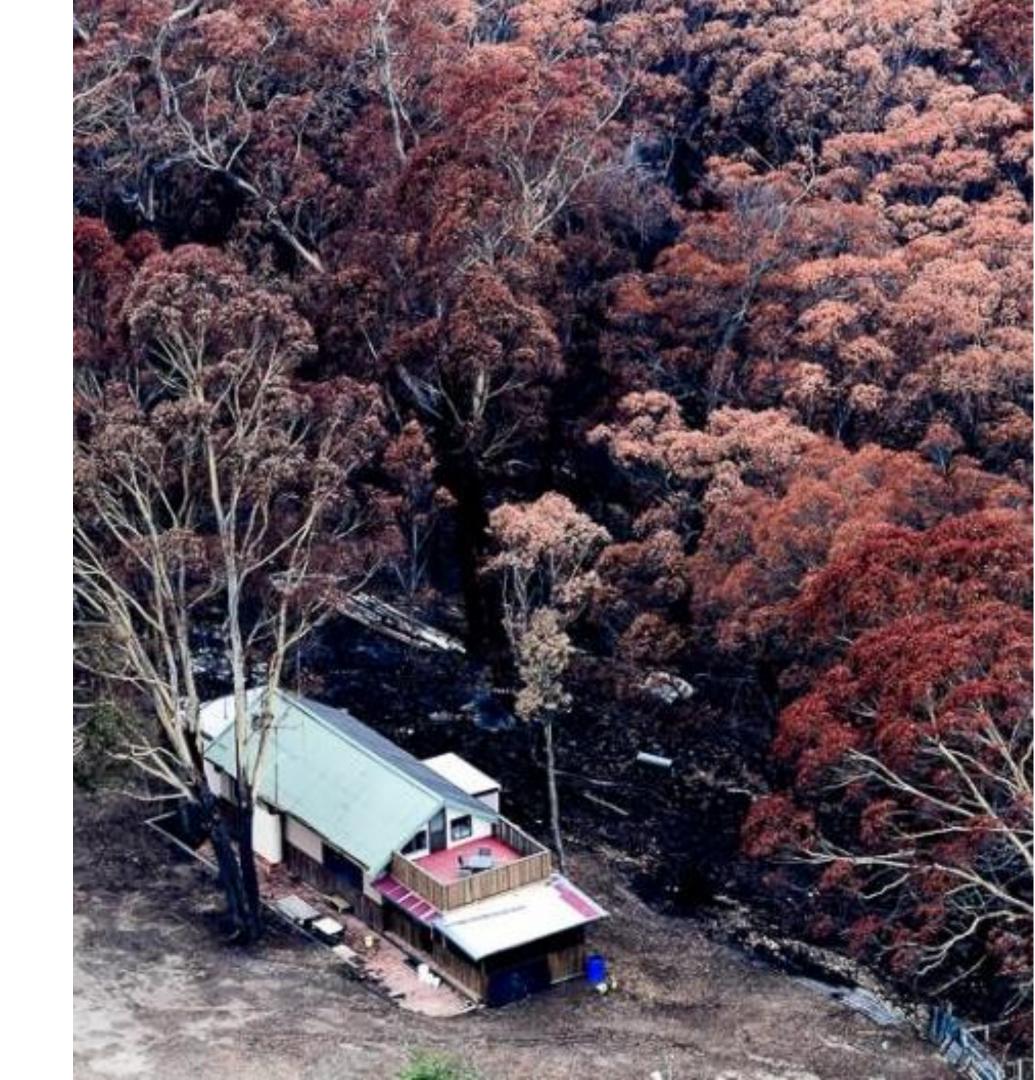
#### Structure

Vegetation Height and Structure



#### Flammability

Vegetation Flammability and Dryness



### WEC Existing Clients











bruxelles environnement leefmilieu brussel

.brussels 🕰





Ministère de l'Environnement, du Climat et du Développement durable

Administration de la gestion de l'eau



**SCHROEDER** & ASSOCIÉS









ma ville, ma vie





### Our Successes



Best use of Al & Data



























4 x Project Funded



### The Team





Imeshi Weerasinghe
CFO and Cofounder



Dr. Charlotte Wirion
CTO and Cofounder



Olivier de la Guéronnière Director



Rowan Steele Business Dev. Manager



Dr. Frankwin van Winsen Head of Development



Thierry Nicolas
Senior Software Developer



Dr. Adelene Lai Software Developer



Dr. Nicla Notarangelo Post-Doctoral Researcher



Nicola Dimarco Intern

### +10 years experience in our respective fields

