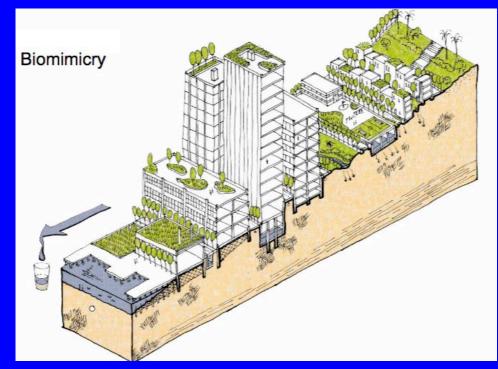
Vegetation Health Index: developing a decision support tool for land managers





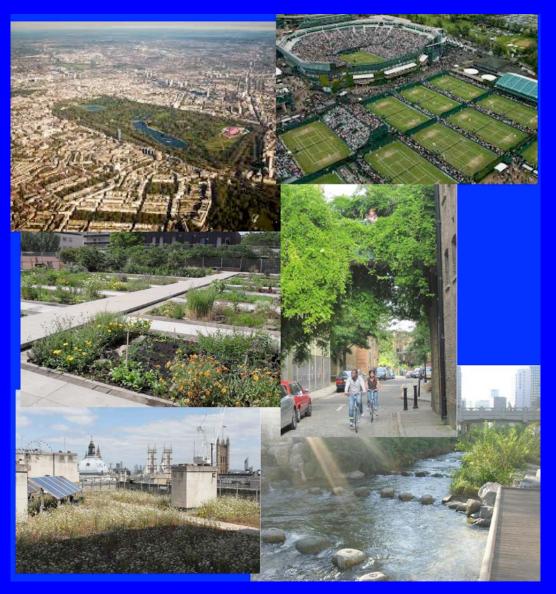
Dr Alejandro Dussaillant

London Climate Action Week 2020



Green Infrastructure (GI)

- Parks
- Nature conservation areas
- Sports fields
- Woodlands
- Community gardens
- Green roofs
- Riparian vegetation
- Cemeteries

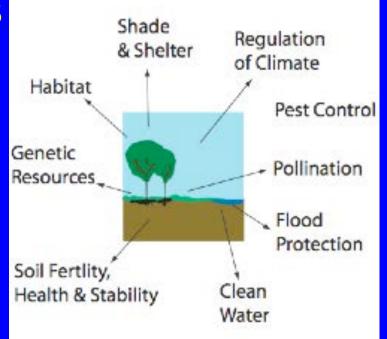




Green Infrastructure (GI)

Ecosystem Services





Sustainability interconnections NATURE-BASED SOLNS

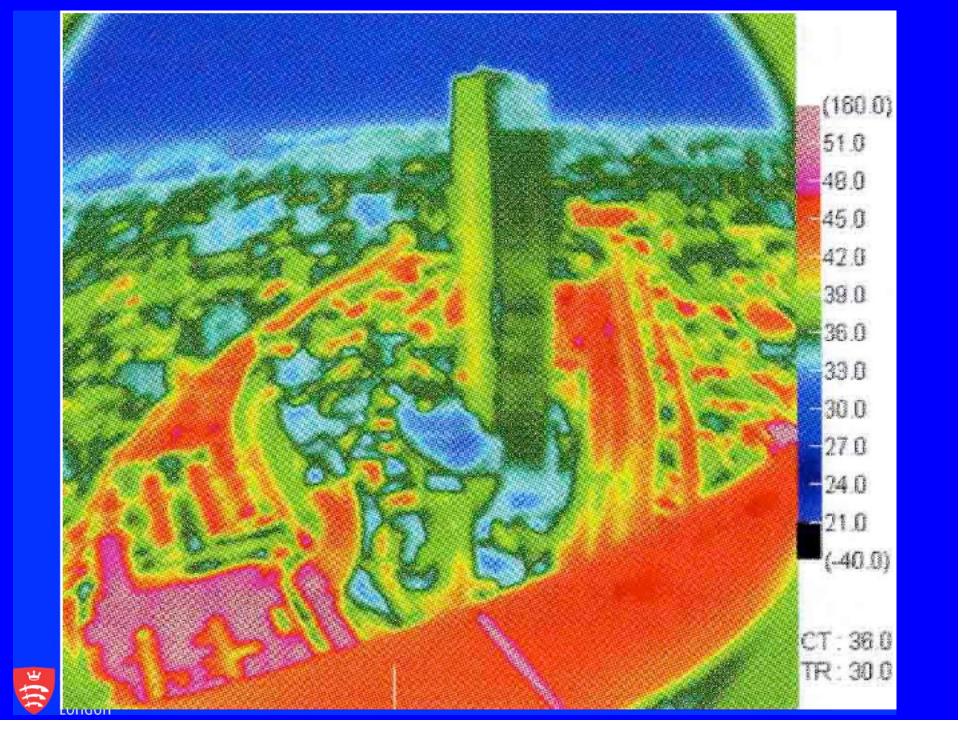
Gl services

- Mitigate heat
- Reduce flooding
- Retain pollutants
- Store carbon
- Provide habitat
- Improve air quality
- Reduce noise
- Aesthetics
- Recreation
- Wellbeing
- Health



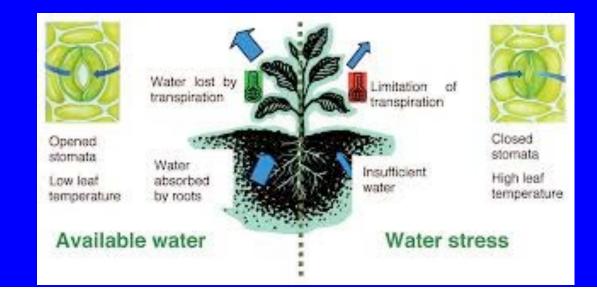






Vegetation Heath Index (VHI) tool for land managers

- Index idea established by Space4Climate working with LCCP as outcome from Heat & vulnerability + mapping GI in London
- Detect plant stress in time to hopefully help management
- Plant water stress shown in signals that can be detected from space by satellite sensors:
 - Reflected radiation from vegetation
 - Increase in temperature due to reduced plant transpiration (caused by lack of water)





Vegetation Heath Index (VHI) tool for land managers

UK

CLIMATE

- Presented proposal to UKRI NERC Embedded Researcher in Space4Climate, with support from scientists & industry experts in S4C & LCCP (including speakers/attendees today :-)
- Steps/objectives:
 - Scoping: evaluate existing tools & datasets
 - Stakeholders: identify needs & challenges
 - Open source prototype development
 - Evolution prototype

More info:

