

For those that don't know us Advisory Software Data Surveying

Joining Data, Research and Technology to Transform Tree Management







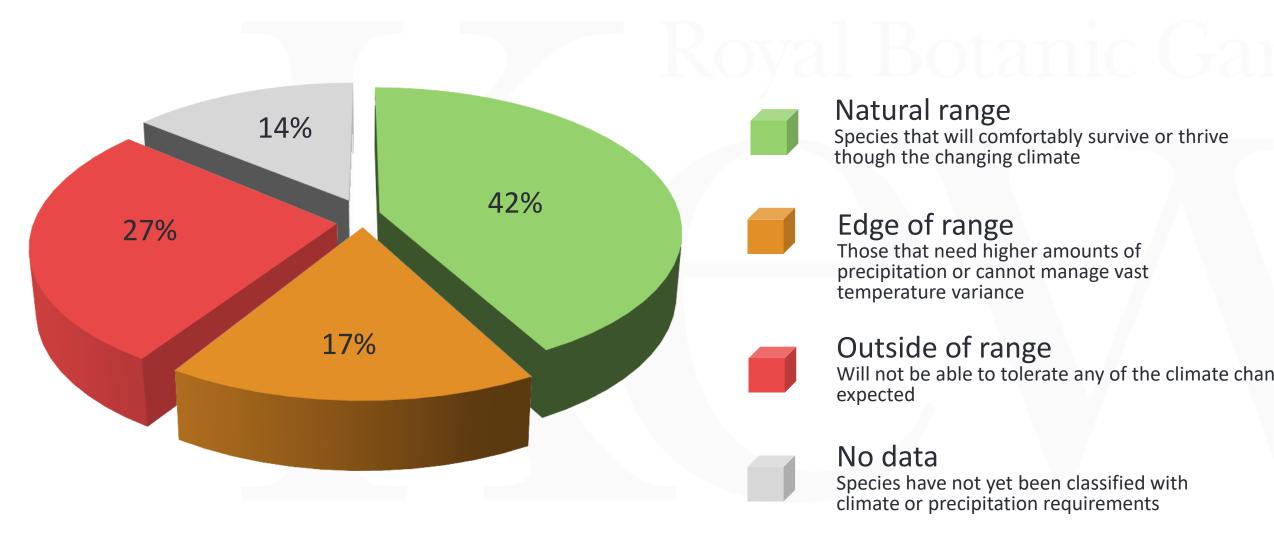
The work RBG Kew are doing

Using climate models to understand effects on species in the UK and identify those with the greatest chance of survival over the next 50 years





Climate assessment of Local Authority tree collection







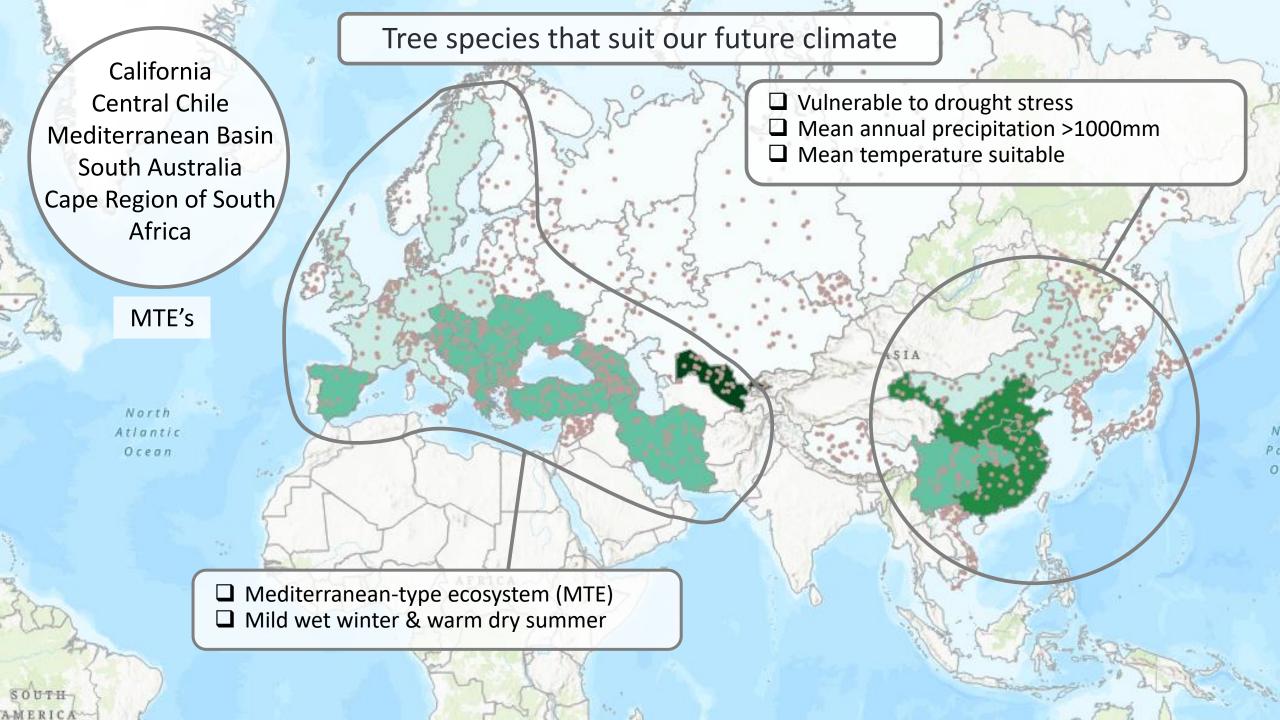
Why are trees affected?

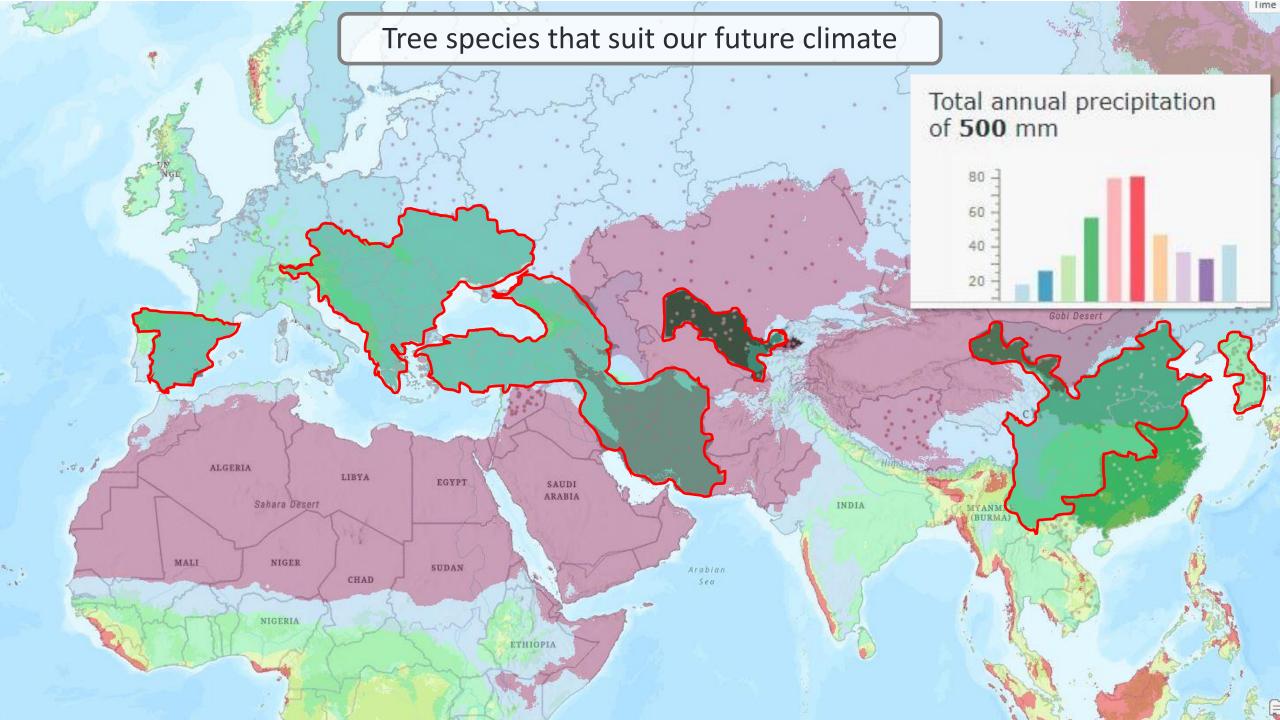
Getting too much or too little water

Not used to the temperature

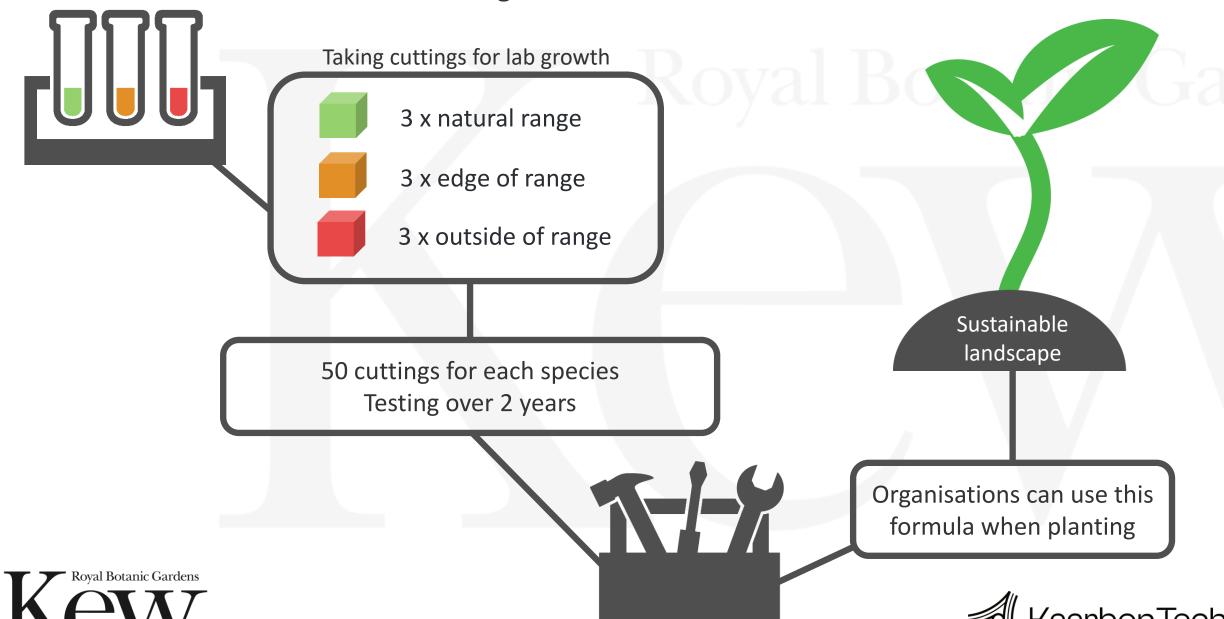








Putting the models to the test



Can we add value?

Typical connections that we make through data

Typical connections through data

Deciduous trees + vicinity to gullies

▼ Tree heights + their target area with pavements, roads, building or rail + Type of road

≪ Risk assessments + spatial data (Road hierarchy, speed limits, flood zones) + Risk modelling



Typical connections through data

▼ Tree coverage + by ward ÷ by UK government targets

Co2 or Carbon sequestration from species type + DBH = % ward cover



Identifying tree locations, the carbon capture and other benefits



How do we add value?



The Tree Management Research Group



Tree Management Research Group



How can we add value to this?

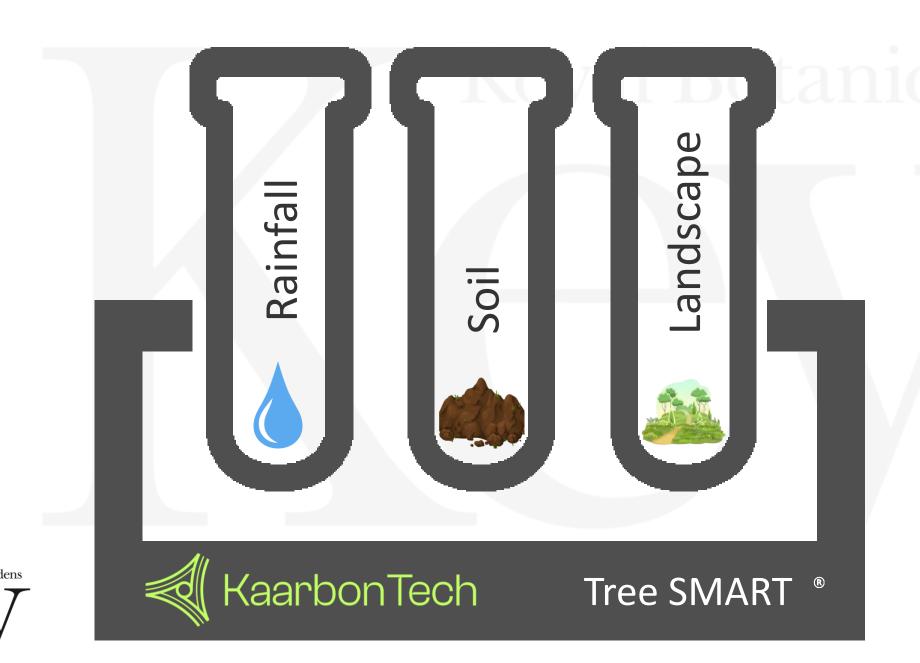
Provide more data to RBG Kew's 300 scientists

Share the results of the research back with the local authorities



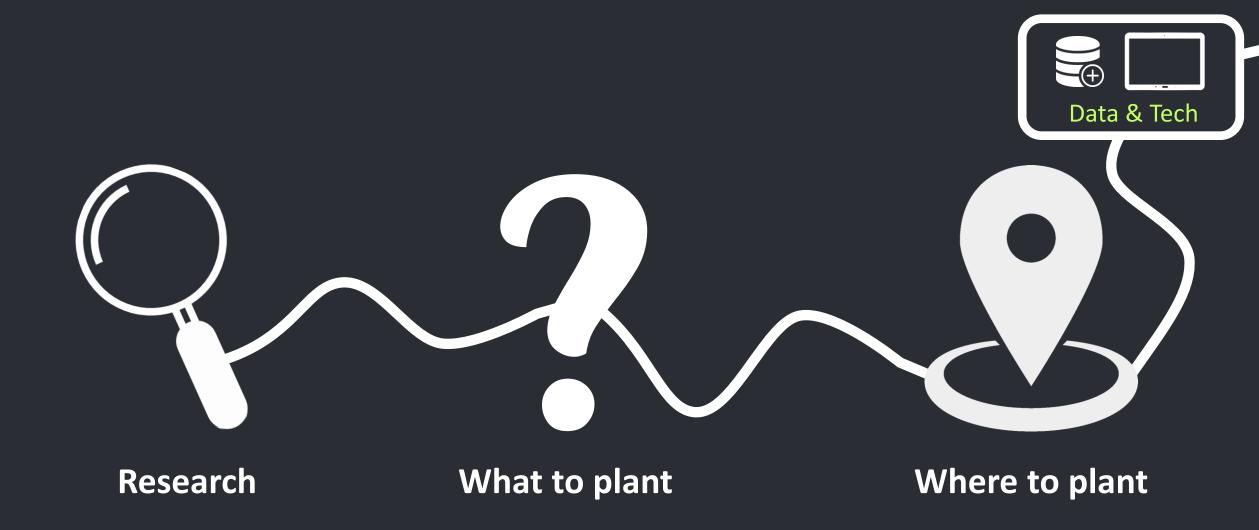


Joining data for better outcomes



A step further? Identifying tree planning locations







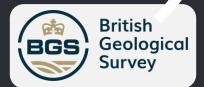
How we can use data to help



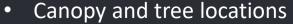
How we can use data to help



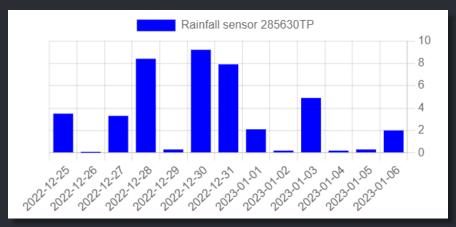
- Existing tree inventory
- Identifying areas of most need
- CO₂ benefit per tree species
- Appropriate species for location



- Groundwater Flooding (BGS)
 - Selecting the right tree for the right soil type.
 - Flagging risks, where subsidence might be an issue



- Surface water flood zones
- Fluvial flood zones
- Recorded flood outlines
 - All sources of flooding are a risk to trees.
 - Increasing trees within floodplains could slow flood waters
- Live and historic rainfall data



Live & historic rainfall in tree vicinity within Tree SMART

What can we create?

- Locations for approval with suitable species identified
- A platform to manage public sponsorship
- A streamlined request, approval and action process
- An ability to measure the success of planting activity

Why is it so important to have mature trees?



More information



