



Our mission

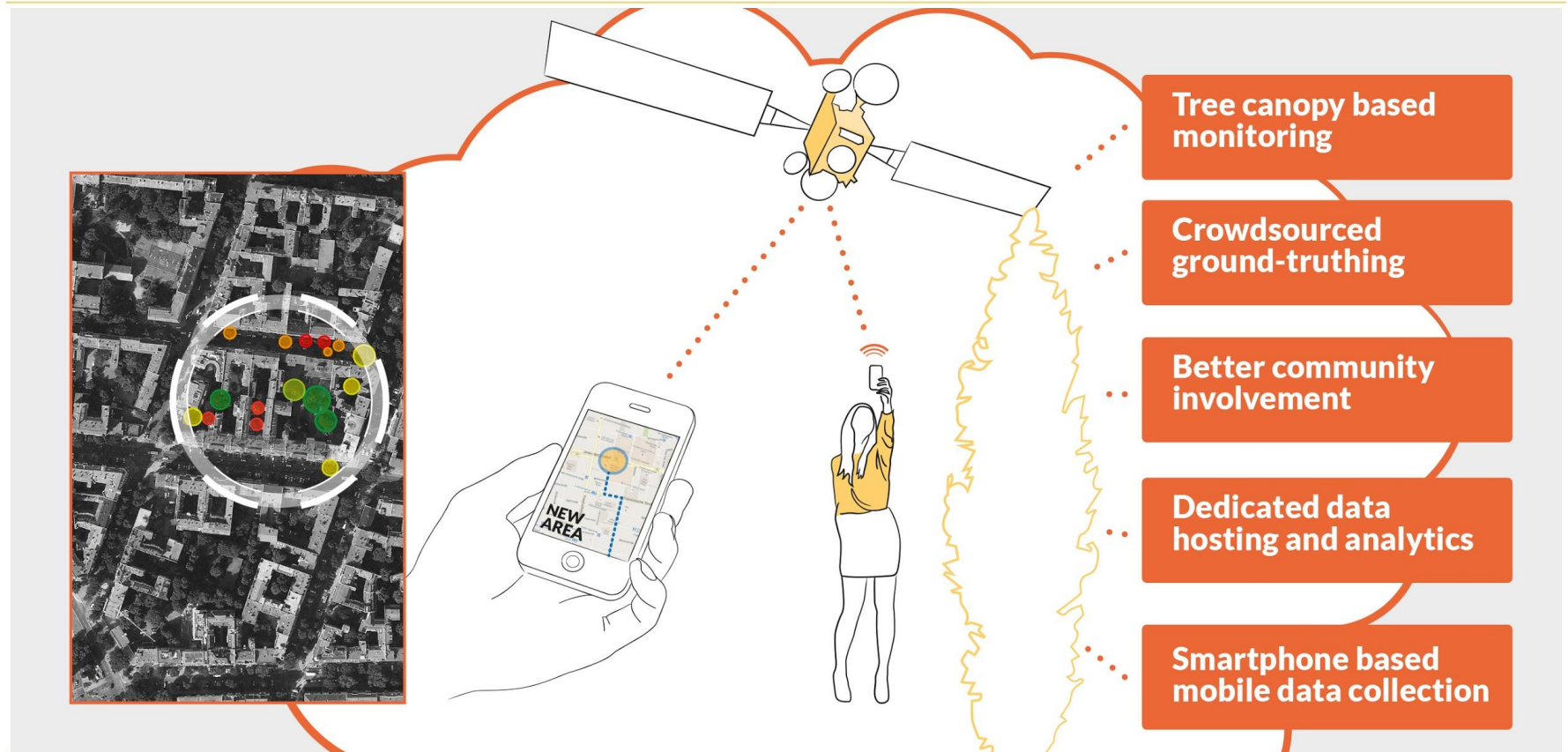
“Creating technologies to inspire and support environmental preservation”

Background

Feasibility research into a service that could combine Space Assets with Open Data and Crowdsourcing



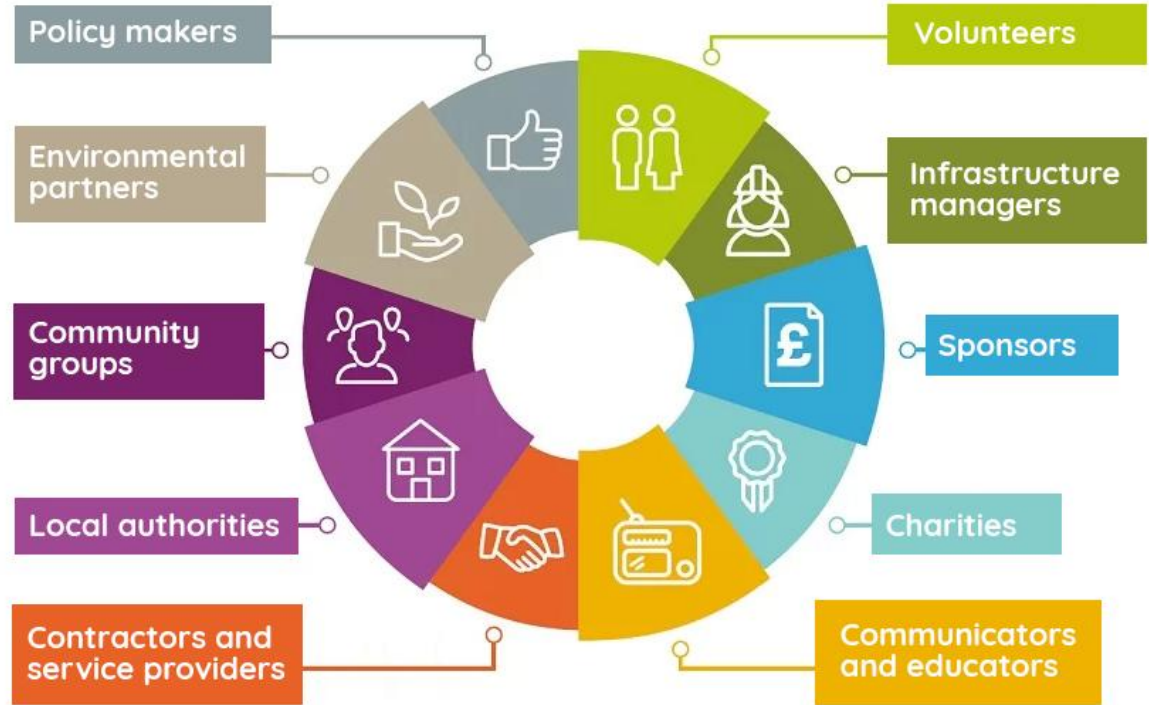
Background



Background

Research uncovered clear gaps in:

- Public engagement
- Wider stakeholder coordination



What is Curio?

An environmental software platform

A network that connects stakeholders

- visibility on the different approaches and projects that are taking place
- better cooperation between state, commercial, NGO and community
- support the exchange of expertise and services
- legacy to projects that have been carried out



Provides better information about local features

- Trees & plants; areas of habitat; special areas of conservation
- Ecosystem services from such features
- Social and cultural value of an area's natural environment
- Enable people to easily access educational resources relevant to their own local area

What is Curio? - Tiered approach

Satellite data analysis

- Informs policies, strategies, KPIs

Mapping data layers

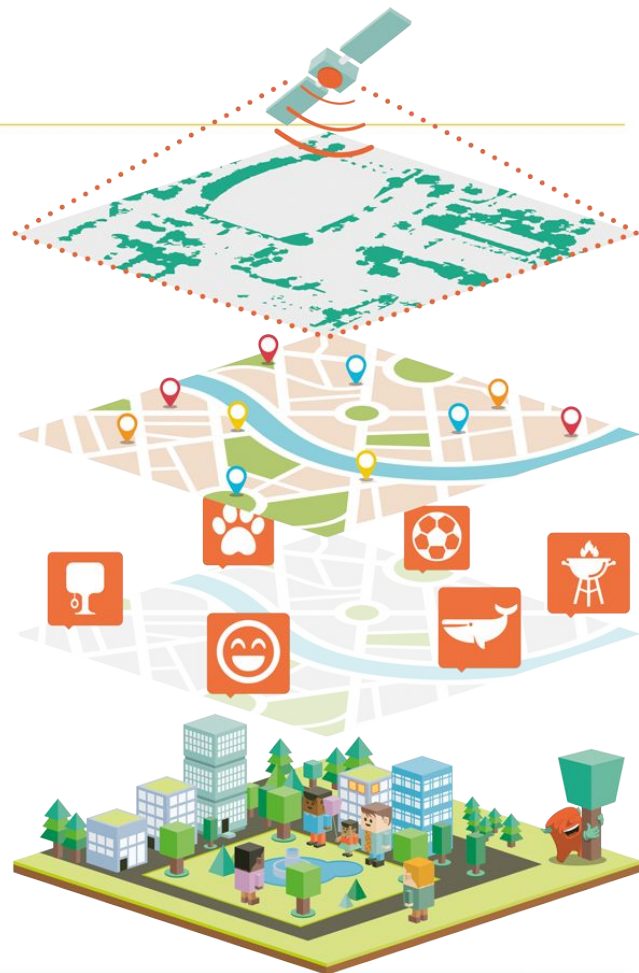
- Information and analytics on specific features
- Area & infrastructure management

Additional educational and information resources

- Biodiversity and species information
- Ecosystem services

Human interaction

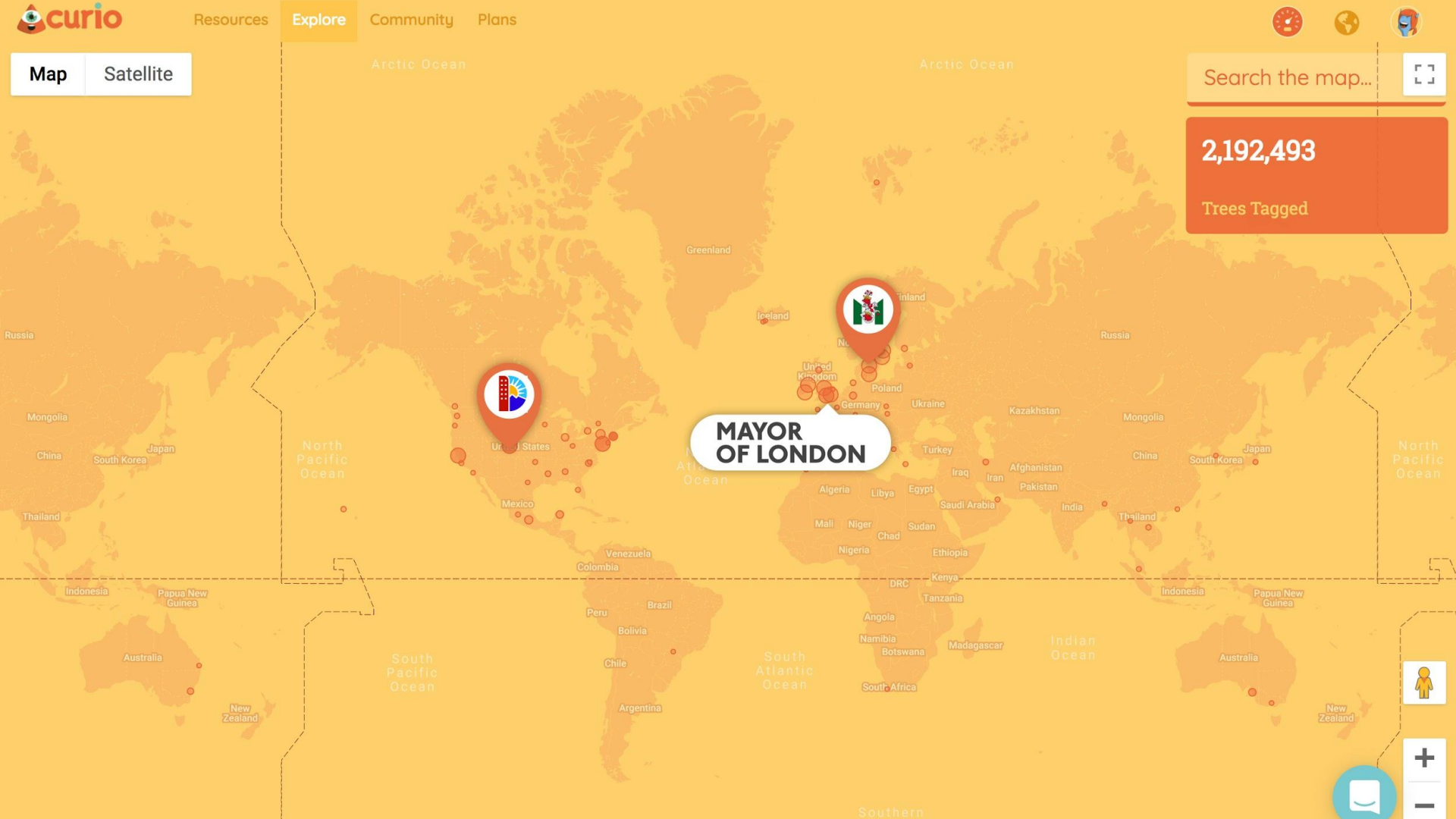
- Exchange information and expertise
- Collaborate on projects



Map Satellite

Search the map...

2,192,493
Trees Tagged



London - a case study

Mayor of London's mission

Published a clear environment strategy that set out aims for:

- cleaner air
- reduced CO₂ and waste
- climate resilience
- more tranquil spaces and...

*“for more than half of London's area to be green and for tree canopy cover to increase by ten per cent by 2050” ***

**https://www.london.gov.uk/sites/default/files/london_environment_strategy-_draft_for_public_consultation.pdf



Sadiq Khan ✓
@SadiqKhan

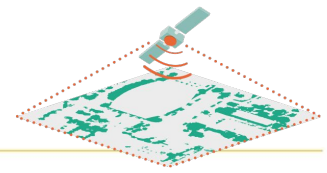
Following

I'll plant 2m trees in London in my first term as Mayor - focusing around our schools
theguardian.com/politics/2015/ ... #COP21



11:54 AM - 30 Nov 2015 from [London, England](#)

London - a case study



Needed an accurate measurement of existing urban forest cover and greenspace

- 25cm per pixel mapping of tree canopy cover using *machine learning* approach
- Can guide tree planting and policy across the whole of greater London
- General analysis of green infrastructure (GI) including how it has changed annually
- Data is available to be used by any agency - local authorities, utilities and transport, researchers, landscape managers, NGOs, communities etc.

Tier 1: satellite analysis



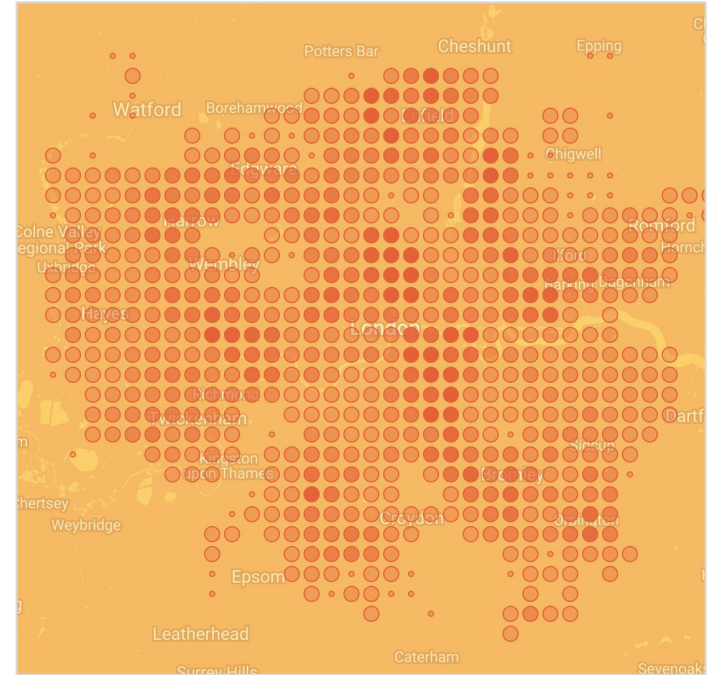
London - a case study



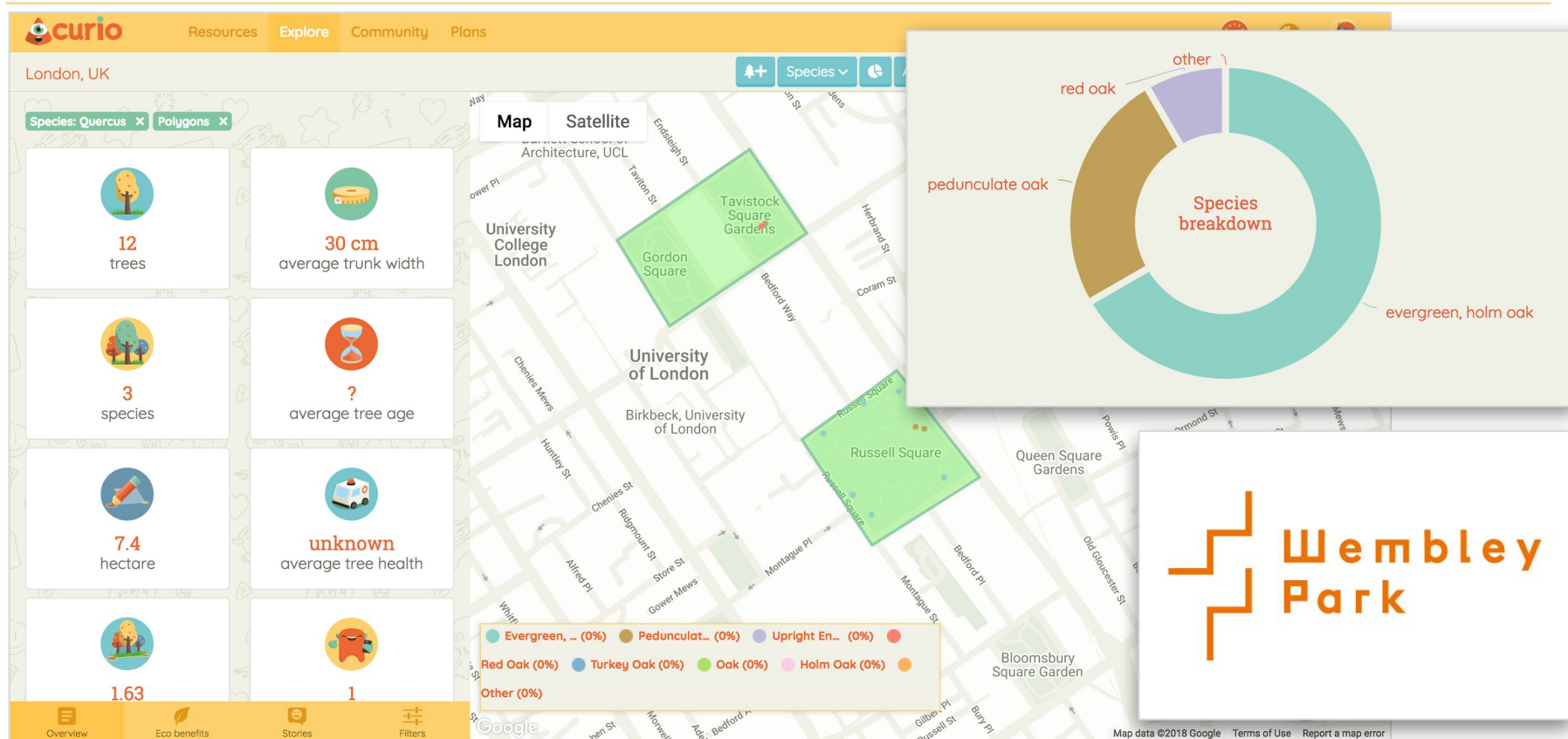
A more detailed view

- Precise ground-level data on >700K plantings
- An inventory of plant stock for local managers
- Longitudinal data storage to support studies of environmental change
- Analytics tools to understand stock profile
- Planning and recording of operations at an individual tree level

Tier 2: day-to-day data



London - a case study



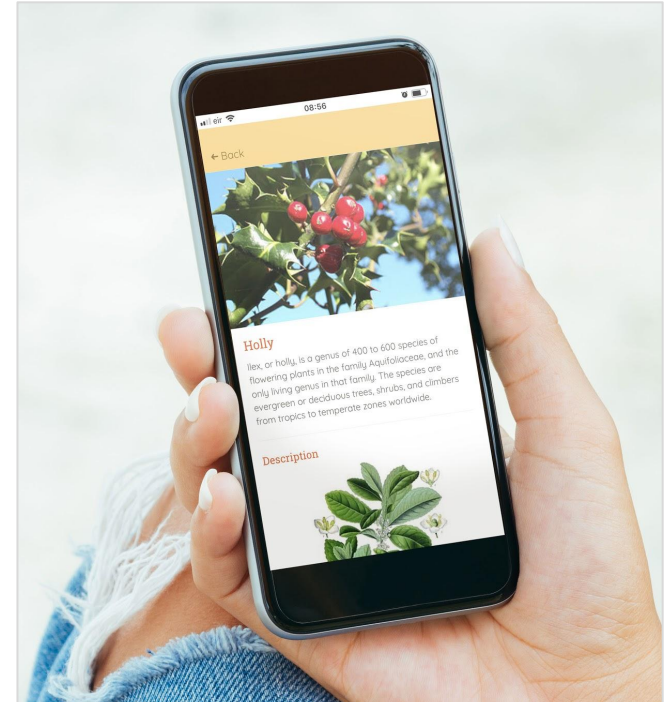
London - a case study



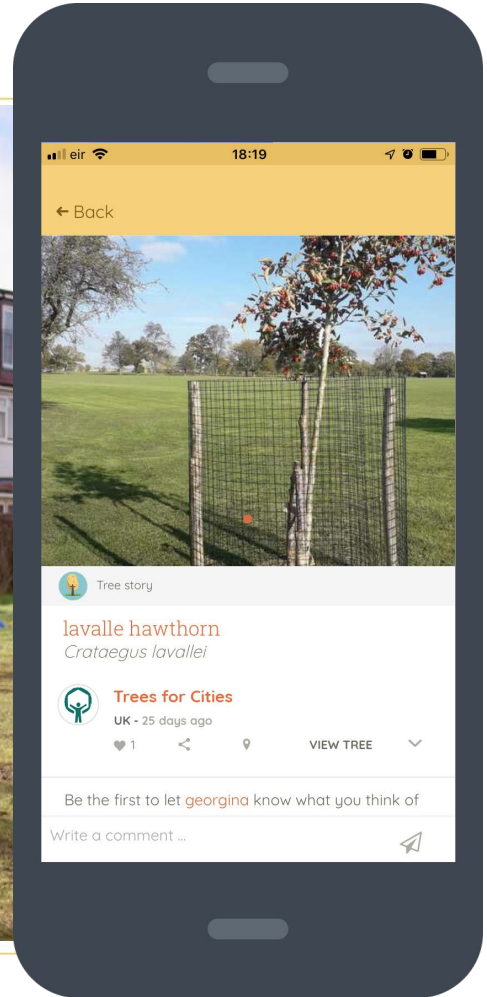
Unlocking the hidden value of data

- Connect data points to libraries of additional information
- Process the data to extract further information on ecosystem services
- Use the data to execute projects that benefit local communities
- Encourage people to contribute their own data

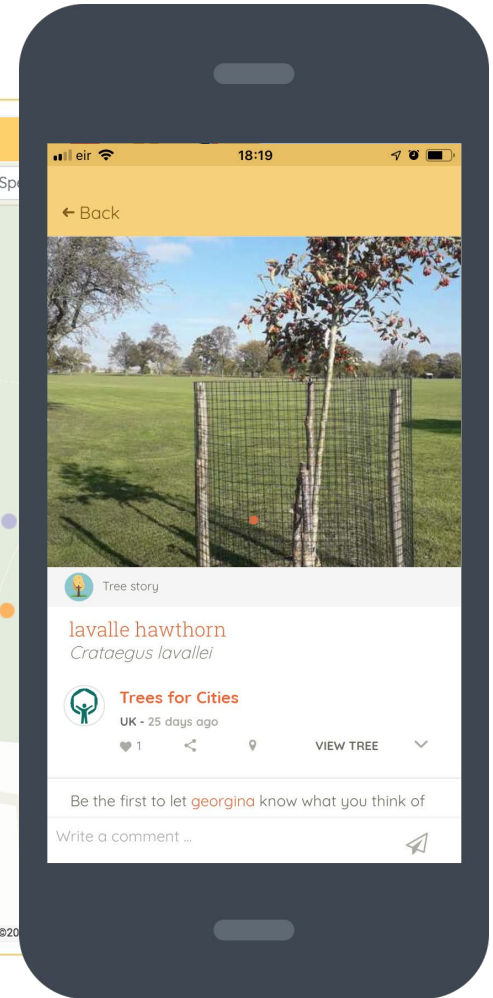
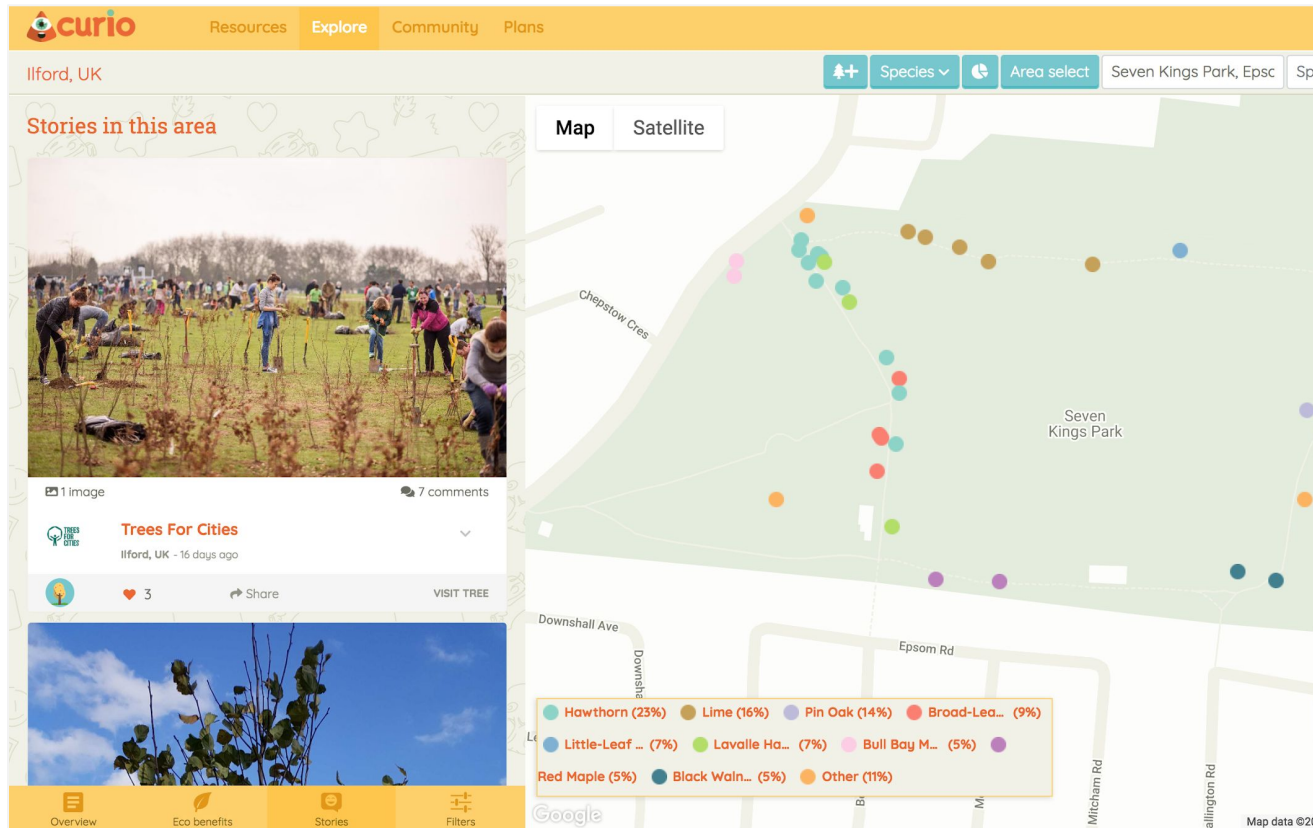
Tier 3 - rich resources



London - a case study



London - a case study



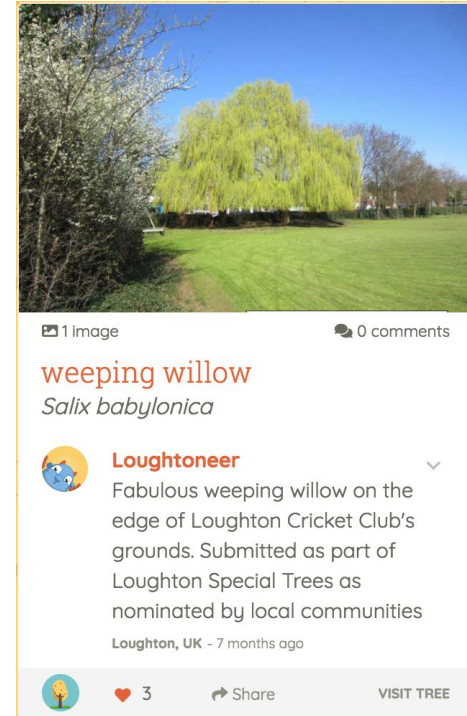
London - a case study





Enabling exchanges of expertise and collaboration on projects

- Stories structure for information similar to social media posts - supports dialogue
- People can connect with each other or with organisations and get notified on activities by particular groups or in particular regions
- Community experts to answer questions
- Integrates with social media channels for promoting activities more widely


Tier 4 - interactions



London - a case study




The Great London Tree Hunt London's Favourite Flowers Islington walking trails




21 - 29 Jul 2018


The Great London Tree Hunt
This event is being run as part of London National Park City Week.


Prizes
Everyday we will be giving out a prize pack containing an awesome Curio T-shirt







air 23:09 


← Back




 Tree story

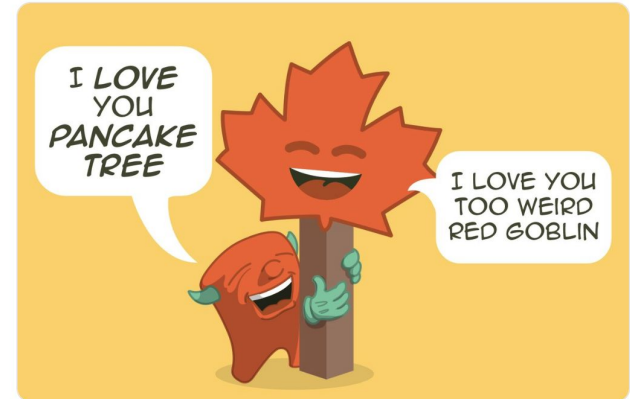
olive
Olea europaea

 roynabegum #wheresolea
#londontreeweek #icogreen
UK · a year ago
❤ 5   VIEW TREE 

Write a comment ... 

 curio @curioxyz · Jul 23

#ScavengerHunt alert 📢 Solve the clue, find the tree, win a prize - use the Curio app to take part in this nature scavenger hunt across #London for #NationalParkCity week - full details at bit.ly/2LmROqf - remember, every action you take on Curio helps the environment!

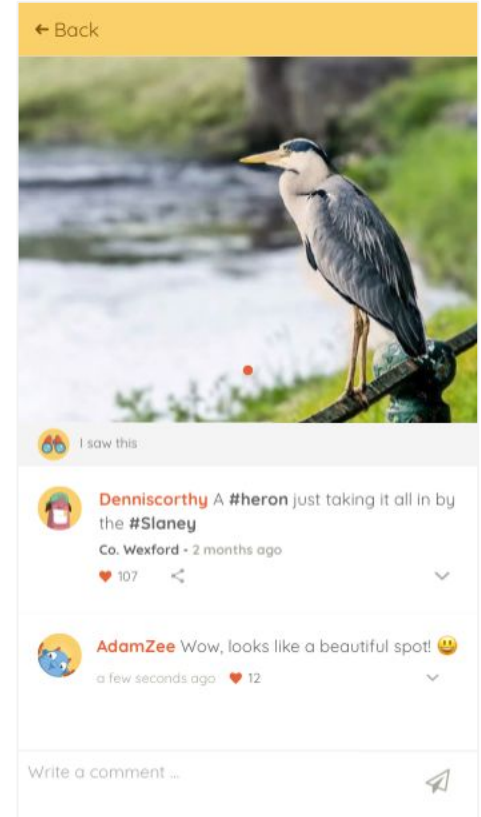


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**LONDON
NATIONAL
PARK CITY***

Working with Enniscorthy Tidy Towns

- Worked with local schools and community groups
- Curio used to map local habitat and Tidy Town's activities
- Began to create an inventory of the area's trees



Working with Enniscorthy Tidy Towns



845
trees
recorded



75
species
identified



59
local people
mapped a tree



> 370
local people
directly involved



14.4%*
tree canopy
($\pm 1.11\%$ error - tree canopy is the
area of tree foliage as % of total
ground area)



4.30 kt*
CO₂ stored
($\pm 0.33\%$ error - the amount of
carbon dioxide stored in the region's
trees at a rate of approx. 144t per year)

Curio and the SDGs

- Educate greater numbers of people about the composition of their local, natural environment
- Improve habitat and biodiversity monitoring and management
- Connect and engage more stakeholders in the domain to improve cooperation



Twitter: @curioxyz
www.curio.xyz

Thanks