Curio - environmental empathy & action

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ABSTRACT

Curio (www.curio.xyz) is a software platform that focuses on improving the effectiveness of local environmental management, planning and awareness activities by providing better information and people friendly tools. To do so we leverage and integrate a number of exciting technologies including remote sensing, machine learning, crowdsourcing and i-Tree. The i-Tree suite of models play a key role in unlocking the value of many of the novel data sources we'll discuss and in motivating environmental action

The presentation will cover:

- Our European Space Agency funded project Curio Canopy which led to the development of the Greater London Authority Canopy Map - https://www.curio.xyz/canopy
- An overview of the current state of the art of remote sensing options including the the Copernicus programme and how they can be integrated with i-Tree
- The value of Open Data and of connecting data sources and technologies. Curio hosts data on over 2.3 millions trees worldwide along with stories and photos of trees being added by our users daily. We recently started augmenting some of the tree data we host with i-Tree information through our ecosystem dashboard feature. This information is connected and searchable making it a powerful resource. it is also acts as a hub to a global network of local communities working together and sharing knowledge
- Our i-Tree powered Citizen Science project in collaboration with SciStarter

BIOGRAPHY

Conor is one of the co-founders and creators of Curio, an environmental monitoring, outreach and education platform (www.curio.xyz). He has a degree in computer engineering and a PhD in Artificial Intelligence from Trinity College, Dublin. After working on industry focused research projects in University College Cork as a postdoc he went on to work for a number of start-up companies including Idiro, TreeMetrics, and Intercom before going on to create Curio.

Along with his fellow co-founder, Paul, his motivation in creating Curio was build tools that enrich people's view of the world around them and help them take an active part in the effort to protect their environment. This led to successful funding applications to the European Space Agency and to leveraging and integrating a number of exciting technologies including remote sensing, machine learning, crowdsourcing and the i-Tree ecosystems services models. Curio's technology is currently being used in projects in the US and Europe.