GREEN DUBS

VISION

Creating Sustainable and Collaborative Technologies for Environment

MISSION

Drive Community Action for Environment and Climate Change

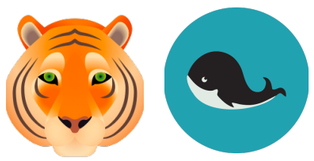
Information School
UNIVERSITY of WASHINGTON

1. A Climate Emergency

"99 percent of currently threatened wildlife species are at risk due to human activities." (Dublin, 2019)

"60% decline in the size of populations of mammals, birds, fish, reptiles, and amphibians in just over 40 years." (WWF, 2018)

"The primary cause for wildlife extinction is human communities." (Van Dooren, 2014)



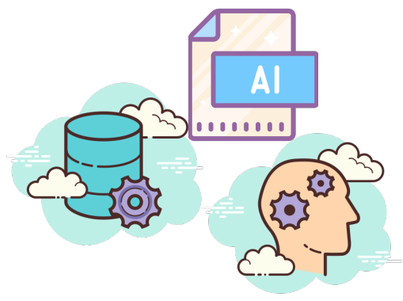
"Worst spate of species die-offs since the loss of the dinosaurs 65 million years ago." (Rice, D 2014)

How can we leverage technology to empower community action for climate change?

Can we create a platform to aggregate data into a single source?

3. Digital Citizen Science

A collaboration platform with open source tools to empower citizen science communities across the world in data aggregation.



Aggregated datasets from different sources will accelerate collaborations across different areas of environmental research.

Existing cloud-based technologies such as IoT, AI/ML Image recognition will help reduce the manual effort in classifying image-based datasets.

A data licensing model for citizen science communities to generate revenues from data sharing and receive attribution

2. Citizen Science Community

"More than 2 million active volunteers worldwide." (Theobald et al. 2015)

Volunteers collect scientific data in the form of images and measurements.

"Combined volunteer effort is estimated to be worth $2.5 billion dollars annually." (Theobald et al. 2015)

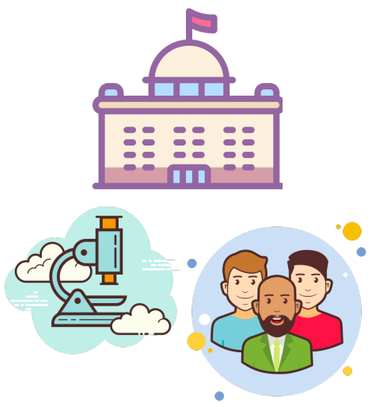
How can we help volunteers collaborate more efficiently?

Volunteers collaborate, curate and classify datasets manually using emails, google drives & excel sheets and sometimes invest in building custom platforms. This leads to datasets being isolated in silos.

Can we provide real time analytics for active decision making?

Government Agencies, City Councils and Environmental Research Organizations can access datasets to drive policy decisions related to environment and biodiversity conservation

4. Community Action



Neighborhood communities can use datasets to drive discussions and engagement with local environmental issues

K-12 and higher education institutions can use the platform to engage the youth through earth games and drive public participation and learning in STEM through citizen science

Team Green Dubs

A not-for-profit social entrepreneurship capstone project, currently in customer discovery phase funded by,
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-Burke Entreprenurship Prototype & AWS Grant
-Selected to Mozilla Spring MVP Open Lab 2020

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