

## Nature Internet

A project dedicated to improve the relationship  
between people and trees.



## Nature Internet

A project dedicated to improve the relationship  
between people and trees.

# BACKGROUND

It started with this little idea.

---

Our earth is covered by diverse trees. Since the stone age, the relationship between human and nature had been closely linked together.

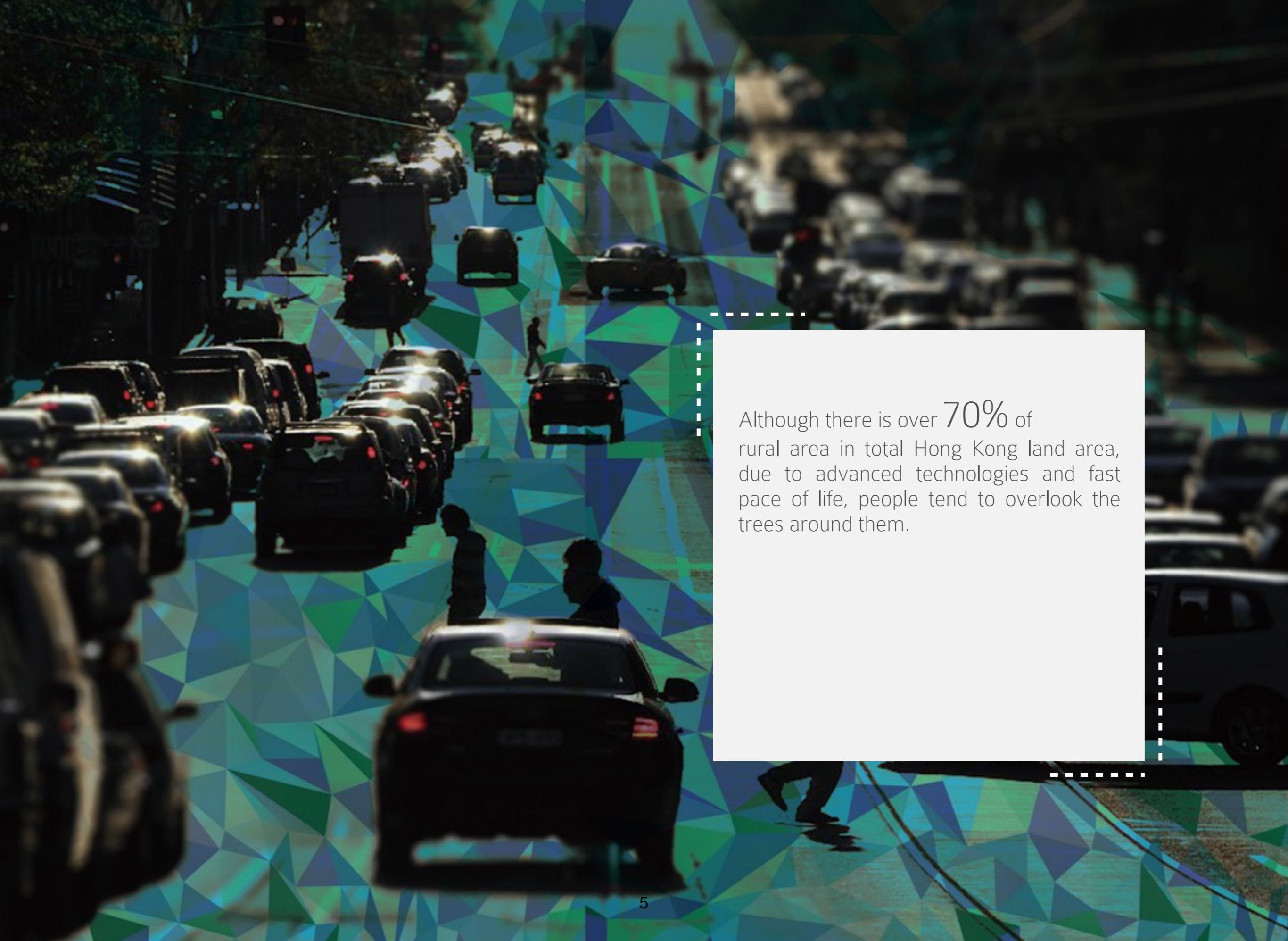


For example, modern humans makes fire by drilling wood, improvising clothes with leaves and eating berries.

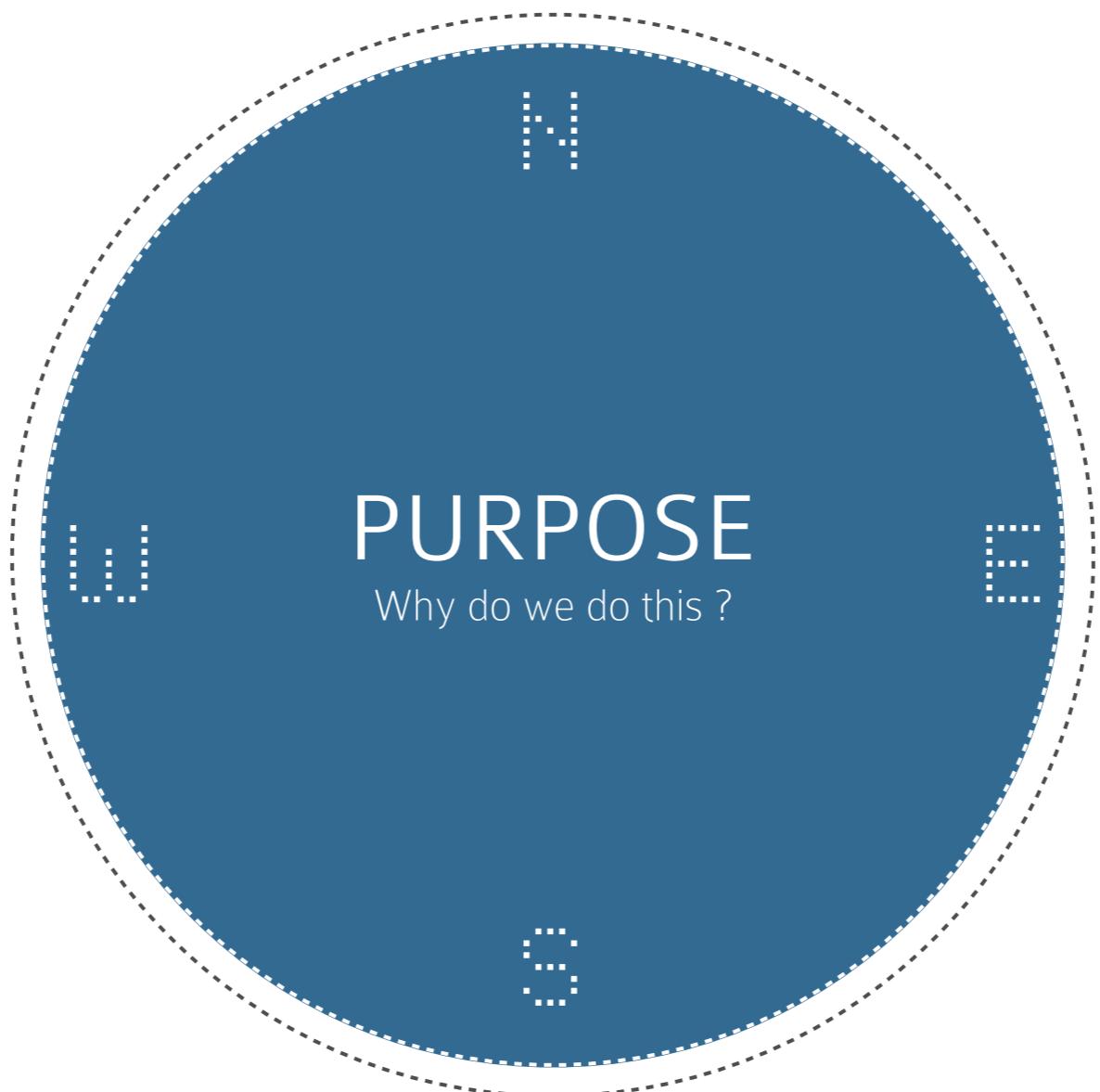
---

**But** now, people tend to spoil the relationship with nature in order to build their own place, turning a mighty green forest into pale concrete forest.



The background of the slide is a collage of several photographs. On the left, there's a dense grid of buildings with many lit windows. In the center, a multi-lane highway is filled with cars in both directions, with some people walking on the sidewalks. On the right, there are more cars and what appears to be a construction site or a large pile of rubble. A small white rectangular box containing text is positioned in the upper right quadrant of the collage.

Although there is over 70% of rural area in total Hong Kong land area, due to advanced technologies and fast pace of life, people tend to overlook the trees around them.



---

The purpose of this project is to let provide a way for people touch with the trees.

We hope people could try to discover and eventually learn to admire the beauty of trees.

---





# Hong Kong citizens

Many Hong Kong citizens are very busy, thus most of them seldom make contact with trees, so the relationship between citizens and trees is becoming remote. Therefore, we hope we can provide a chance for Hong Kong citizens to get close to the nature.



# TUTORIAL

How does it work ?



# Location

We will experiment this project on a tree in Hong Kong Institute of Vocational Education ( Sha Tin ). Once it is done testing, we hope we can launch this project at different place in Hong Kong.

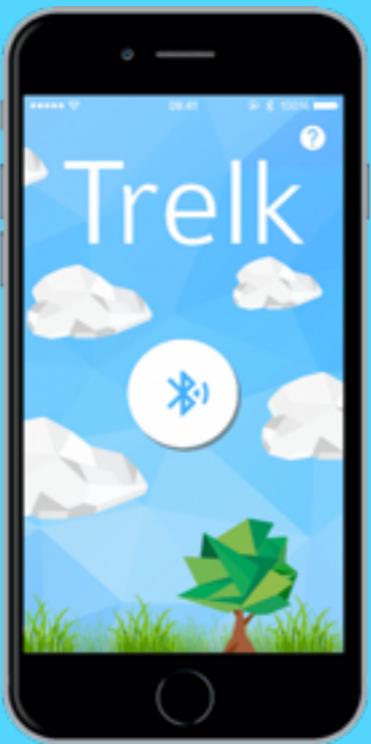


# Application



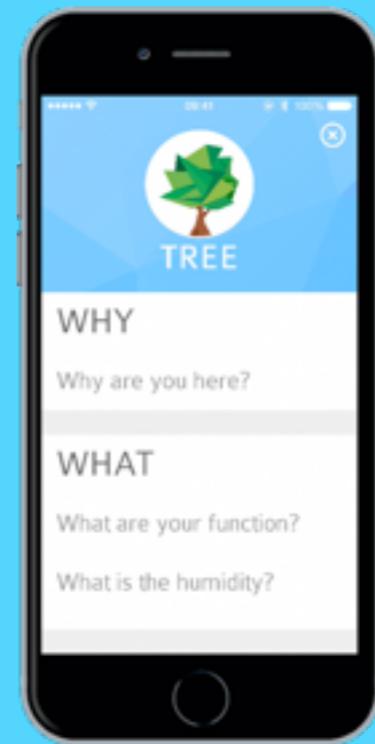
1

First, download our mobile application.



2

When entered the homepage, click the "SCAN" button.



3

Type your question in chatroom, and then you can make interaction with the tree.

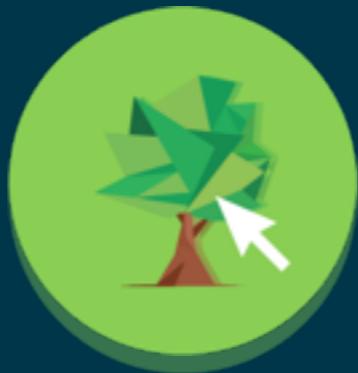
# Device

At the tree have our device, our device can collect environmental data around the area. We will use these data make it be visualized.

Also, you can realtime interactive with our device to experience chat with the tree!



# Website



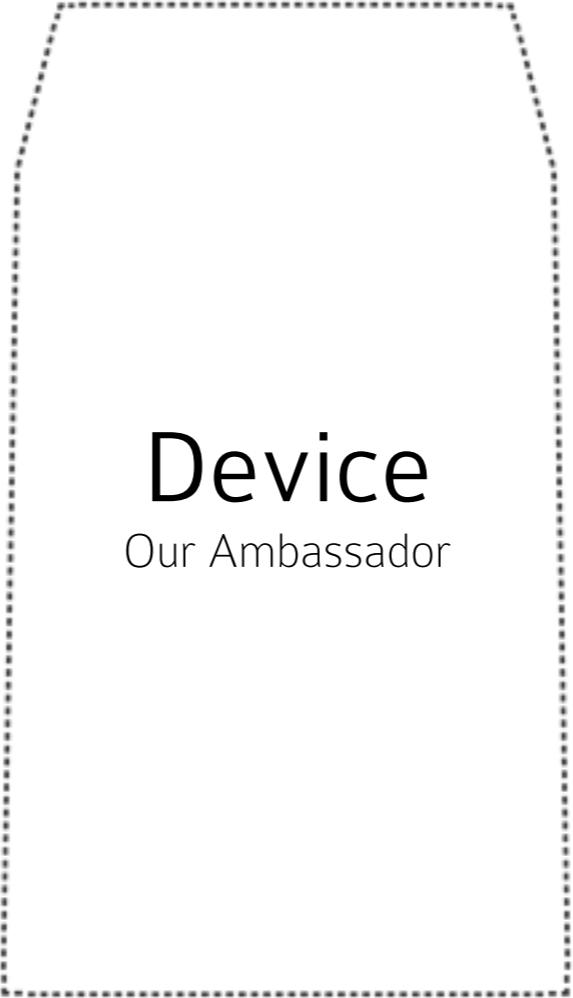
You can know more about our project in the website and see how we show out some interest with the data that we collected from our device.



Nature-Internet



To know our News!



# Device

Our Ambassador

# Function



# Case Design

## Ease Of Maintenance

Sensor slot design make the maintenance work easily. Also the case design able to apply more components.



## Specification

Material:	PMMA
Size(LxWxH):	200mmx200mmx360mm
Arduino:	MEGA2560
Shield:	Arduino MEGA Shield WiFi CC3000 Shield BLE Shield
Sensor Slot:	6 (one of wind seed sensor)
Sensor:	Raindrop Sensor / Wind Speed / Temperature / Dust / Sound / Light Intensity / Soil Humidity / Speaker

## Waterproof Design

The case design with consider use at outdoor, whole case design is come with bevel. For the sensor, because most sensor need place out of the case, the bevel design won't let the water stay on our case



## Nature Internet

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the publisher, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law. For permission requests, write to the publisher, addressed "Attention: Permissions Coordinator," at the address below.

Nature Internet

IVE (Sha Tin)

21 Yuen Wo Road

Sha Tin, New Territories

Tel: 2606 6227

Fax: 2694 7029

<http://nature-internet.ivehost.net/fyp/index.php>