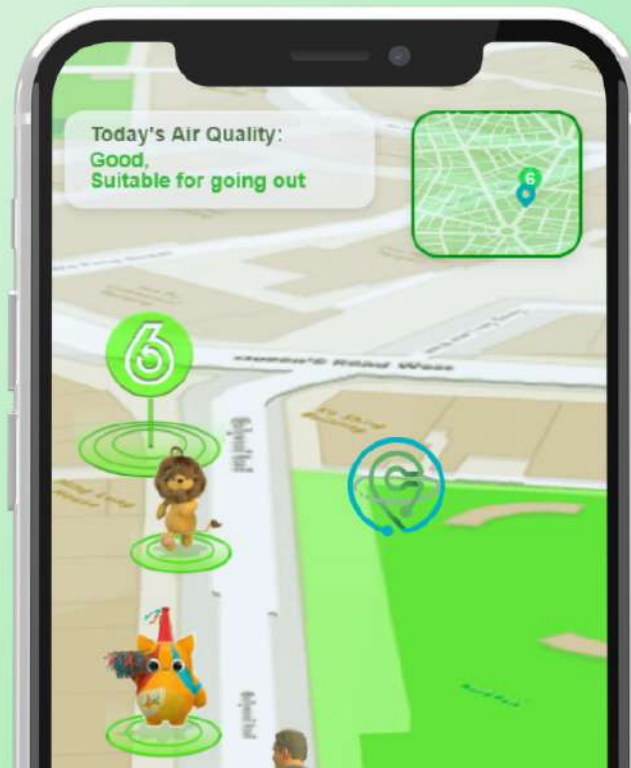




Department of Urban Planning and Design,
Faculty of Architecture, The University of Hong Kong

HK GREEN METAWORLD

A fun and playful GIS-integrated system which empowers citizens and local businesses in ESG commitment.



SCAN FOR DEMO VIDEO

HKUrbanist

Huang Xinyi Joyce

Kuang Yi Lily

Liang Shizheng Laurence

Date
July 30 2023

PAIN POINTS



Individual

Demand

Lack awareness, guidance, and tools

Supply Gap

Existing resources fail to effectively educate and empower

Fun gamification mechanics to enhance engagement

Solution



Business

Demand

Seek motivation, guidance, and collaboration opportunities

Supply Gap

Current solutions fall short in meeting businesses' needs

Establishment of a unified platform to help with operations and promotion.

Solution



Government

Demand

Requires comprehensive ESG management solutions

Supply Gap

Lack comprehensive ESG frameworks

Regularized the management of environmentally related industries and activities.

Solution

CANVA STORIES Z650



Before



原來我之前的行為唔夠ESG



After

CNVFILLM



Z650

CNVFILLM



USER PROFILE

Emma Wong: 17 Years Old High school student

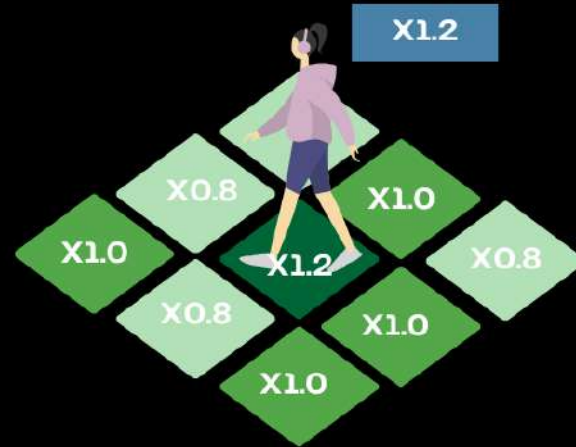
Picture credit to: Midjourney

The interaction with Mascots can attract people to engage.

Provide step-by-step guidance leading to ESG principles



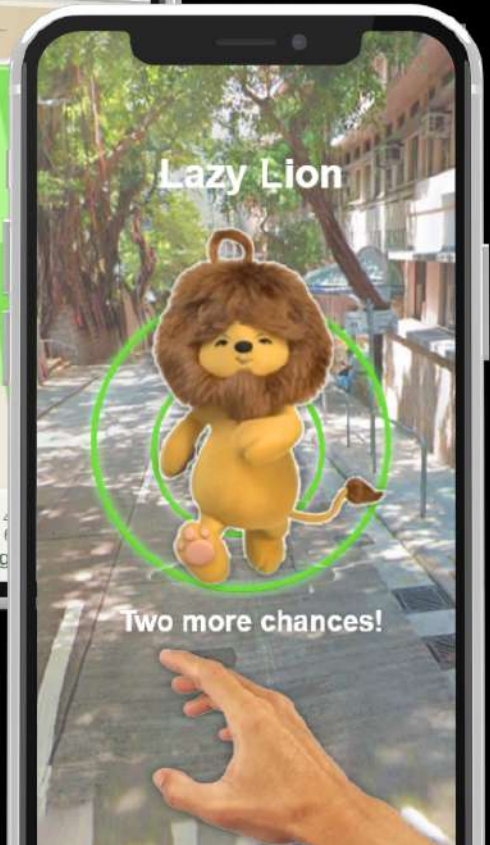
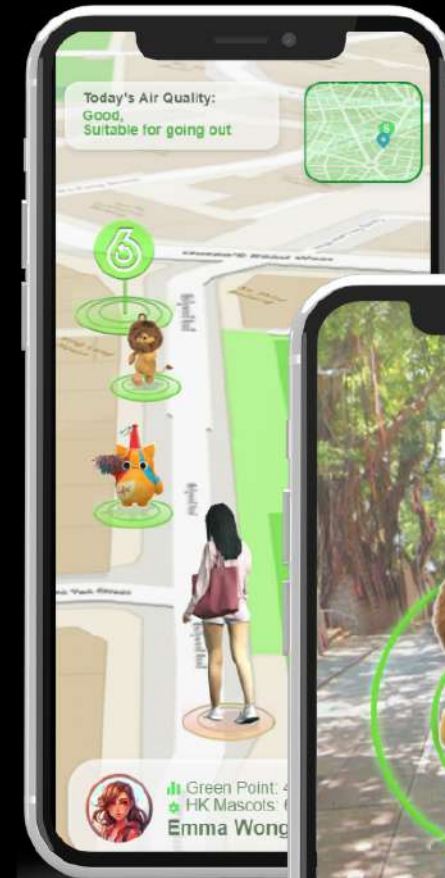
CITIZEN INTERFACES: ESG GAMING



Green Score accumulation

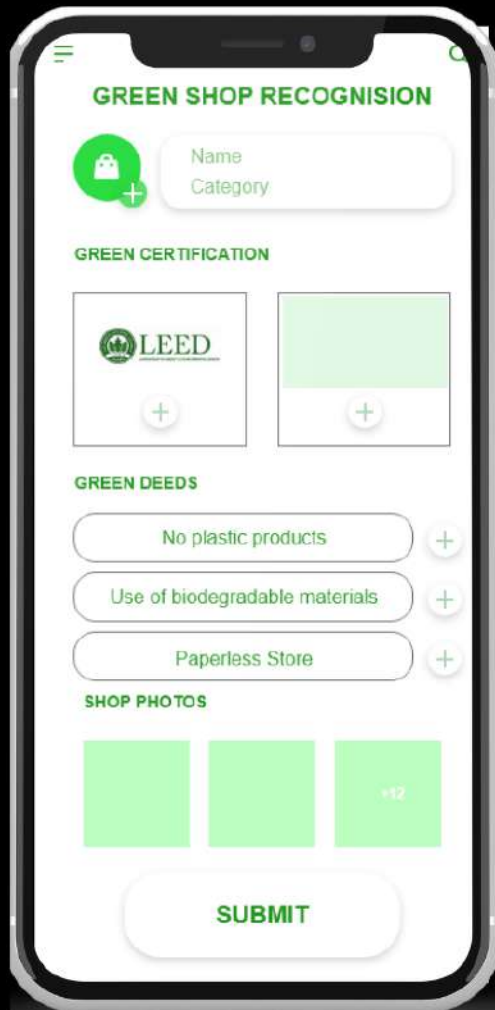


AR Hong Kong Mascot collection

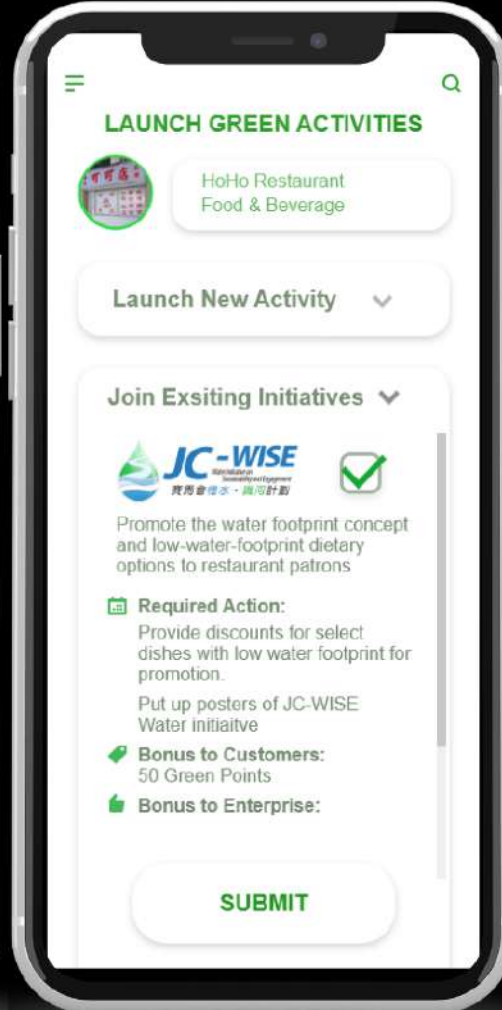


COMPANY INTERFACES: ESG BUSINESS LOOP

Green Certificate



Green Initiatives



Notification



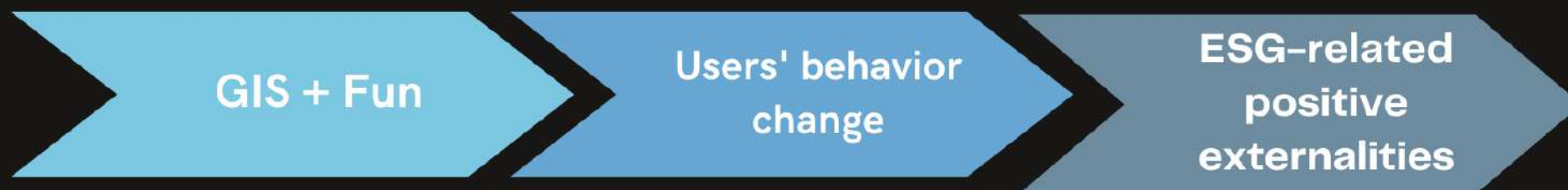
Merchant gets more popularity



Citizen behaves greener

UNDERLYING TECHNOLOGIES

- Integrate GIS into the everyday lives of the general public



- Center technologies with three themes:



- Reality-Based Gamified Solutions
 - Game Engine Unity
 - Augmented Reality (AR)
 - Location-Based Service (LBS)
 - AIGC: Midjourney



- Multi-device Compatible for Citizens
- C# .NET Core 6.0



- Solid GIS Analyses
 - ArcGIS Maps SDK
 - ArcGIS REST API
 - ArcGIS Pro