Project NetZero

Let's ride on the road to net zero and decarbonization

19 November 2021
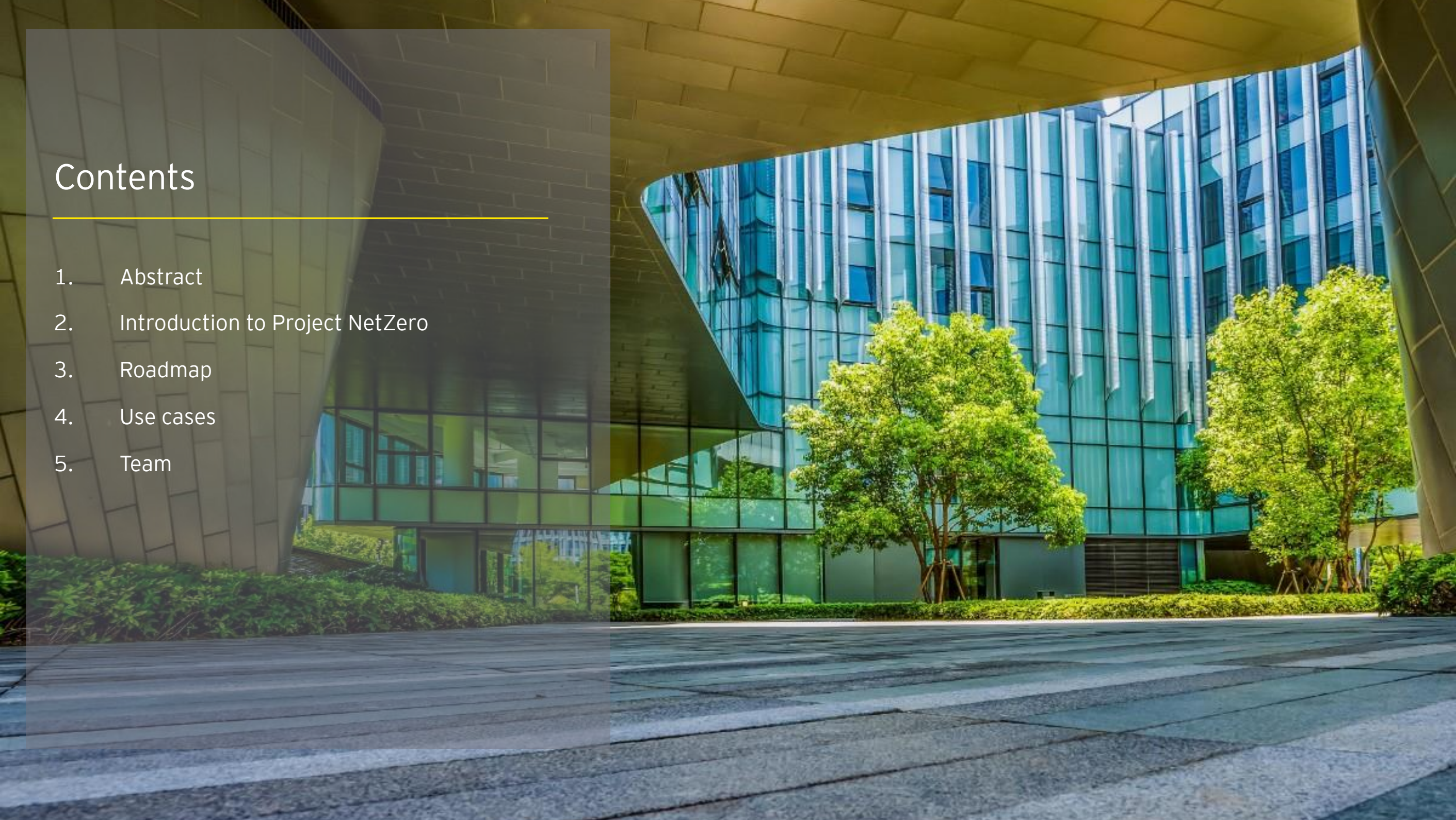
EY
Building a better
working world
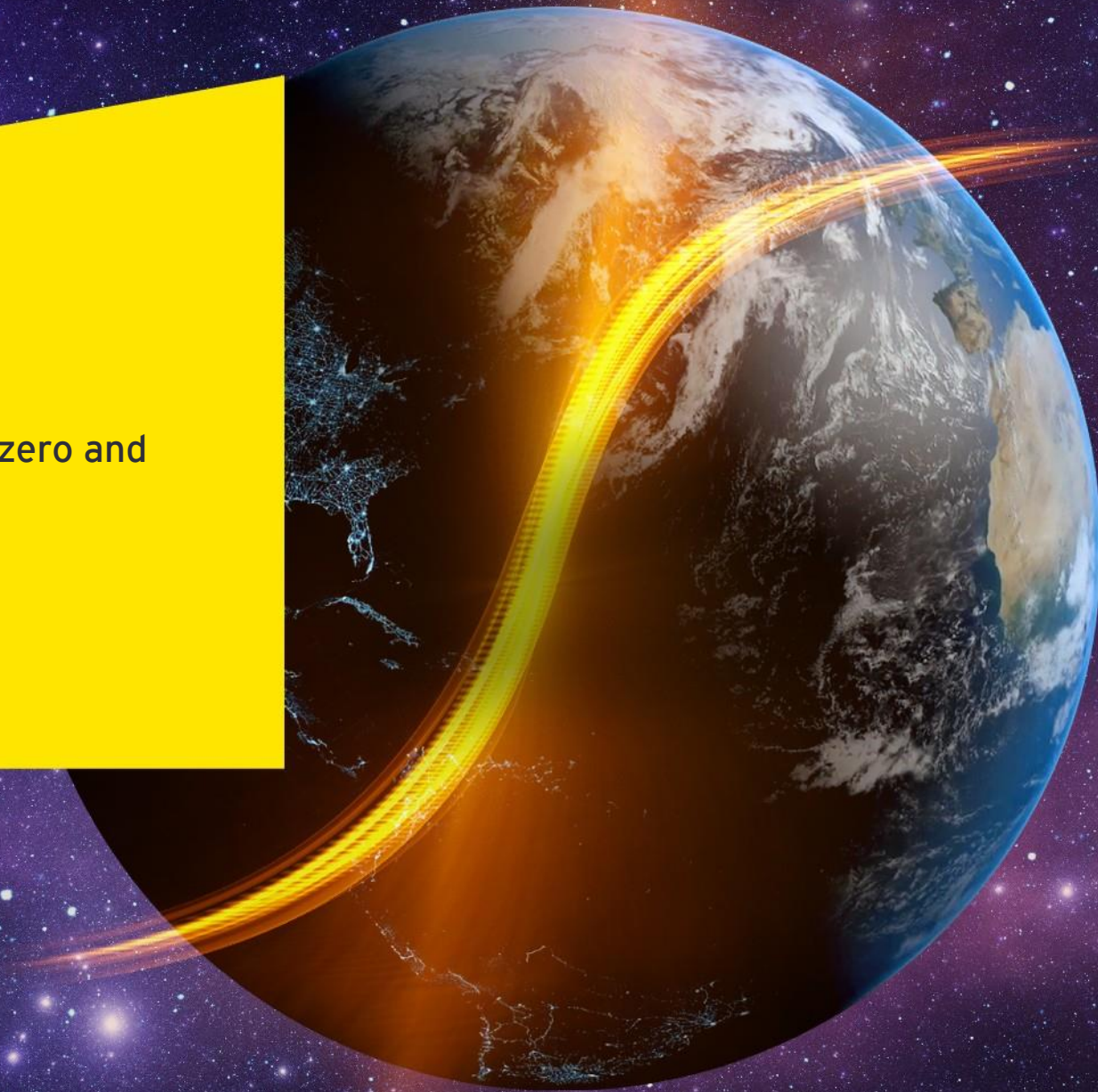
Abstract

As you have already noticed that its no longer an option rather an necessity for each one of us to take part in this global transition to a sustainable future.

Global Market Leaders, Wealth and Asset managers as well as Investors must play critical role in enabling the transition to a more sustainable future by strengthen environmental disclosures, bring in sustainability governance, Green energy investments along with advancement of the sustainability agenda across the broader economy.
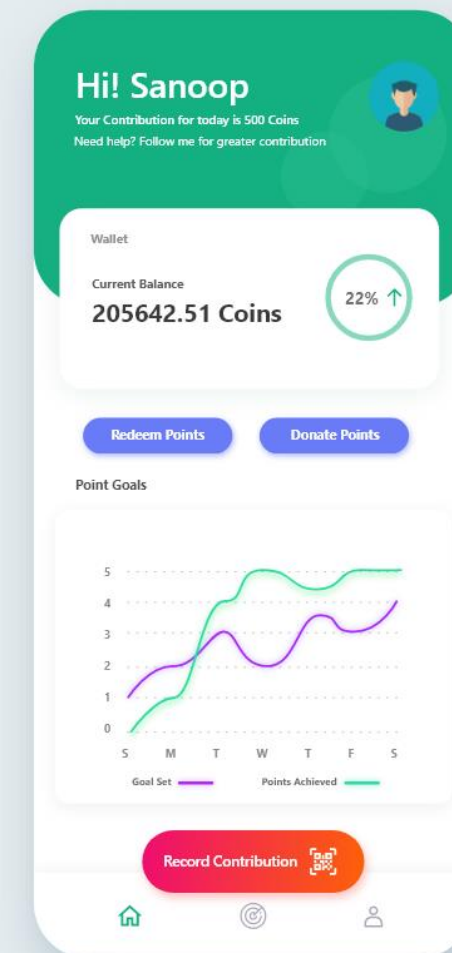
Contents

Introduction to Project NetZero

Project NetZero aims to bring in an Global Transparent collaborative reward platform that allows for empirical comparisons at the firm, sector and country level as well as helping to define Sustainable Development Goals, identify best practices and target areas for improvement along with the ways to generate green capital for future green economy development.
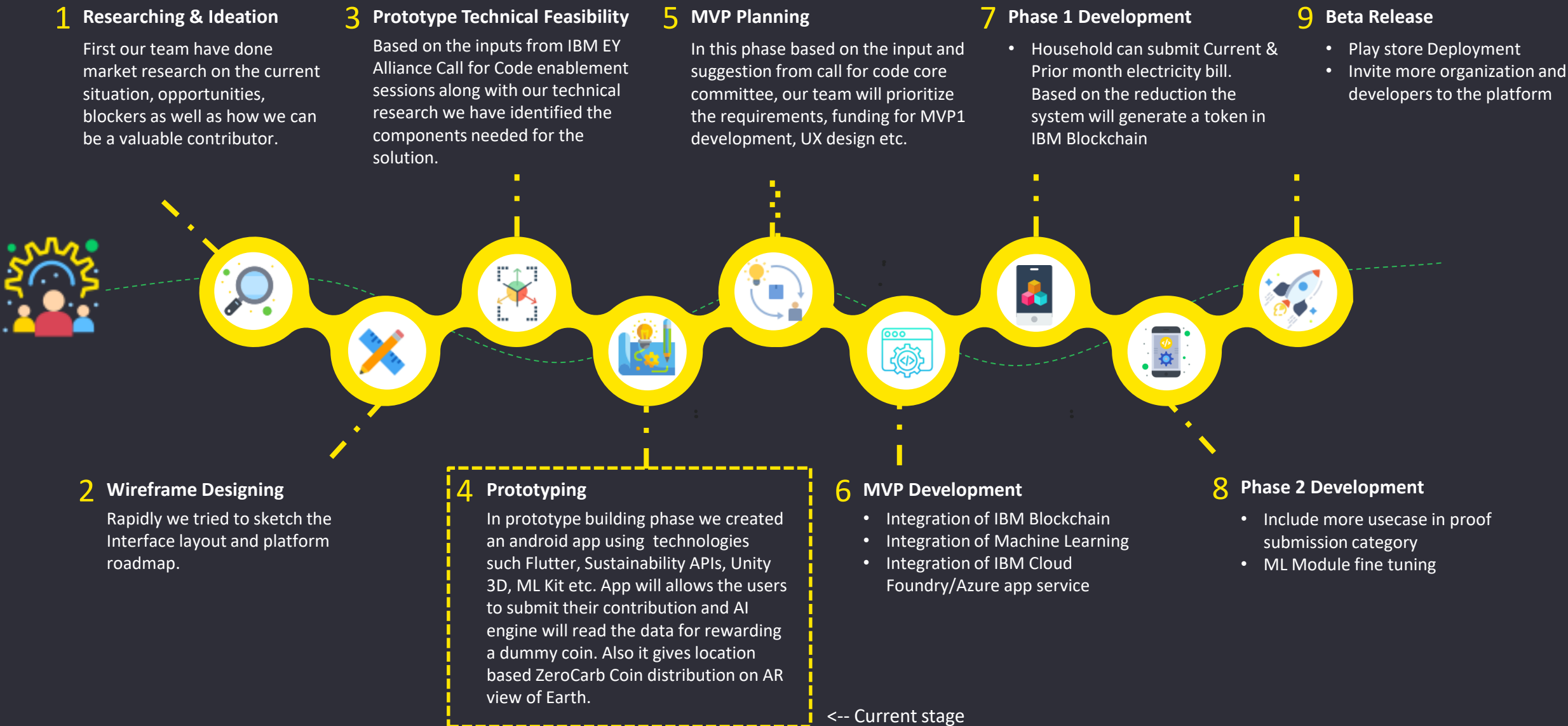
Public as well as companies can access this platform through our mobile application and submit their proof of contribution to sustainability. Then our AI engine will ensure the credibility of the submitted proof and generates Carbon Reduction Index(CRI) value. CRI will be used for deriving the crypto tokens (ZeroCarb Coin) through IBM Blockchain. These generated tokens will be available in contributors wallet and these transactions will be shared across the distributed ledger.

Our mobile app provides an Immersive Augmented Reality view of Earth along with various data distributions such as methane, carbon monoxide, oxone, and nitrogen oxide along with related climate change as well as temperature anomalies. Also it gives location based ZeroCarb Coin distribution that can provide a clear indication of overall app usage and peoples live contribution at country level.

In addition to this, we are also envisioning to collaborate with various companies to enable the ZeroCarb coin redemption that will also accelerate their related products and services.

Roadmap

1 Researching & Ideation

First our team have done market research on the current situation, opportunities, blockers as well as how we can be a valuable contributor.

3 Prototype Technical Feasibility

Based on the inputs from IBM EY Alliance Call for Code enablement sessions along with our technical research we have identified the components needed for the solution.

5 MVP Planning

In this phase based on the input and suggestion from call for code core committee, our team will prioritize the requirements, funding for MVP1 development, UX design etc.

7 Phase 1 Development

- Household can submit Current & Prior month electricity bill. Based on the reduction the system will generate a token in IBM Blockchain

9 Beta Release

- Play store Deployment
- Invite more organization and developers to the platform

2 Wireframe Designing

Rapidly we tried to sketch the Interface layout and platform roadmap.

4 Prototyping

In prototype building phase we created an android app using technologies such Flutter, Sustainability APIs, Unity 3D, ML Kit etc. App will allows the users to submit their contribution and AI engine will read the data for rewarding a dummy coin. Also it gives location based ZeroCarb Coin distribution on AR view of Earth.

<-- Current stage

6 MVP Development

- Integration of IBM Blockchain
- Integration of Machine Learning
- Integration of IBM Cloud Foundry/Azure app service

8 Phase 2 Development

- Include more usecase in proof submission category
- ML Module fine tuning

Use cases

Household

- Proof of electricity usage reduction
- Proof of renewable energy usage
- Proof of Usage of public transport
- Proof of Energy saving product purchases

Workforce

- Proof of Purchase of Electric Vehicles
- Proof of usage of shared cab/public transport/cycling/walking
- Proof of taking part in green initiatives

Corporates

- Proof of Investments in Renewal Energy
- Proof of collaborating with Green projects
- Proof of purchase of recycled products
- Accept ZeroCarb Coins in their platforms as acceptance mechanism

Team

Milan K Raj

Nandu Krishna

Sanoop Surendran

Niji Rajan

Robin Raj SB

Thank You