



Blockchain for **climate action**



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At Toucan, we're building the digital rails for climate finance.

We're doing this by creating a globally accessible platform that efficiently connects buyers and suppliers in the **voluntary carbon market**.

THE PROBLEM

We need to **rapidly coordinate** a response to our species' greatest challenge

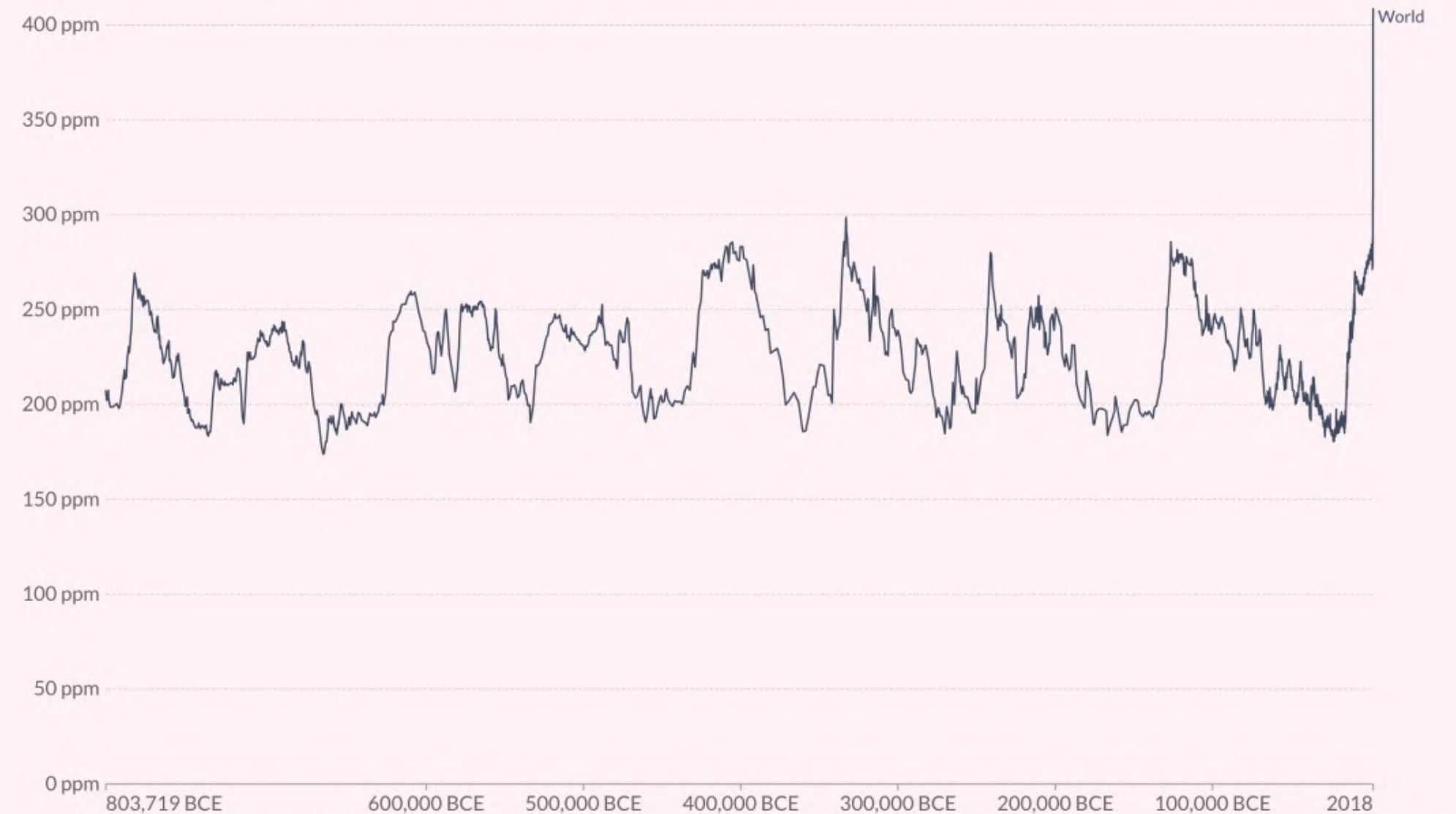
For too long, harmful practices have freely continued while our economic system fails to accurately price negative externalities.

*The worst **bull run***

Atmospheric CO₂ concentration

Global average long-term atmospheric concentration of carbon dioxide (CO₂), measured in parts per million (ppm). Long-term trends in CO₂ concentrations can be measured at high-resolution using preserved air samples from ice cores.

Our World
in Data



Source: EPICA Dome C CO₂ record (2015) & NOAA (2018)

OurWorldInData.org/co2-and-other-greenhouse-gas-emissions • CC BY

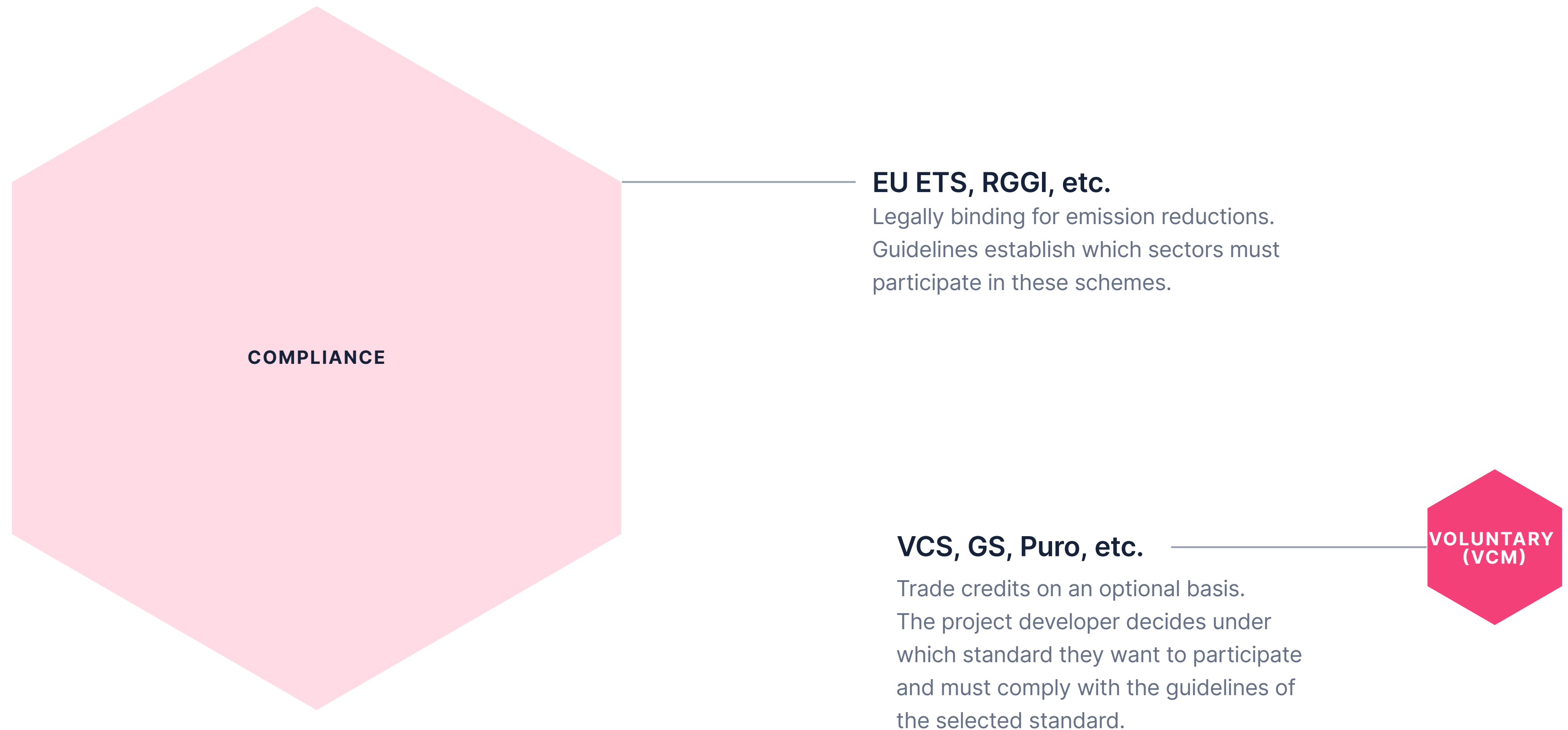
ONE SOLUTION

Carbon markets exist to put a price on polluting the atmosphere.

They are a market-based mechanism designed to incentivize the transition to a green economy.



Types of carbon markets

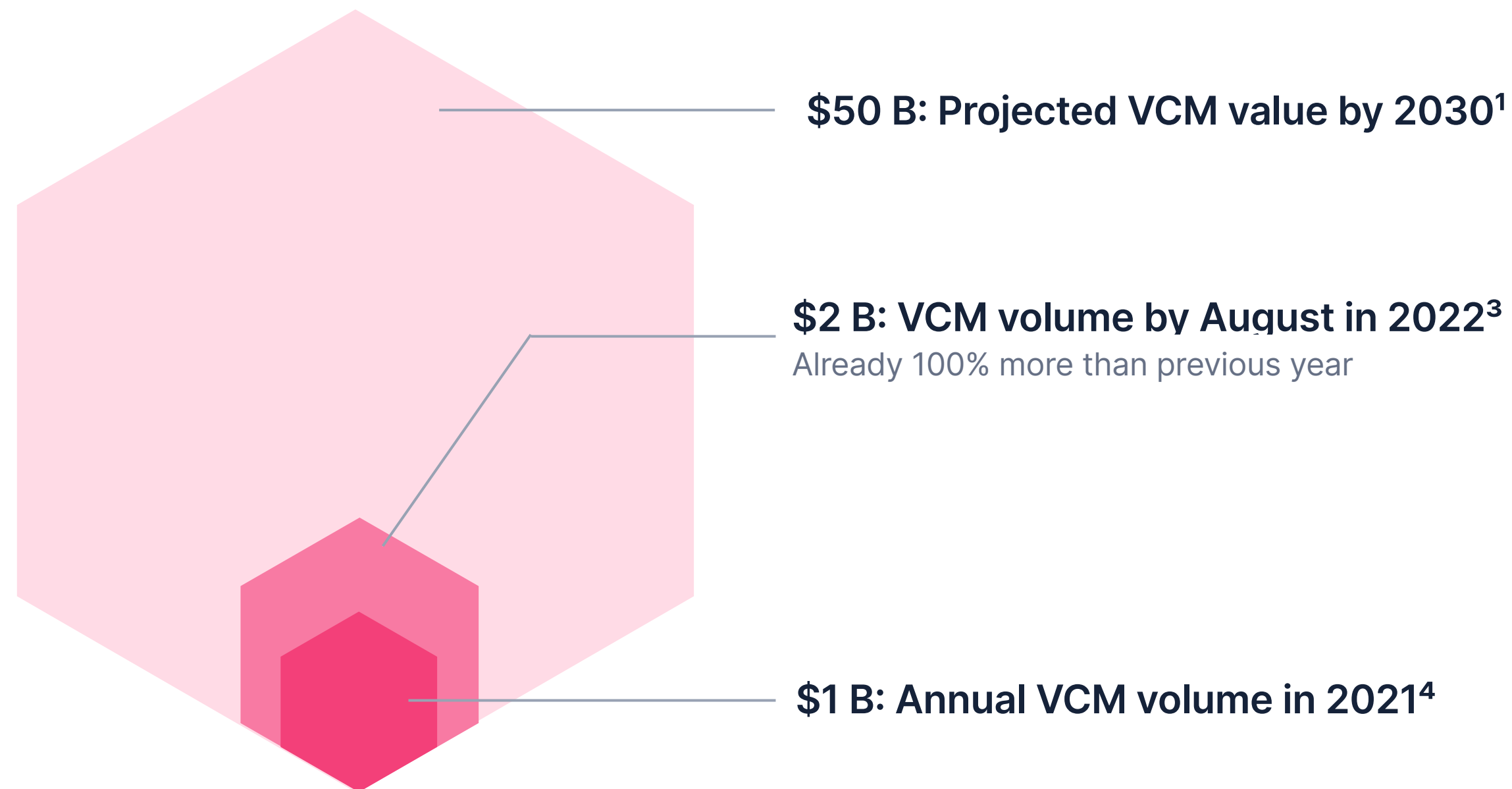


History of carbon markets



MARKET

Carbon markets are **growing rapidly**



\$147

Target price per
tonne CO₂e by 2030¹

100x

Target VCM demand
growth by 2050²

MARKET

But capital isn't efficiently
flowing to impact projects.



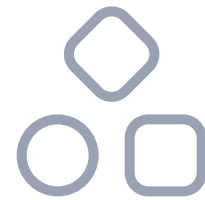
MARKET

Today's carbon markets are not ready to scale climate finance to meaningful levels



Inefficient supply

Very bureaucratic, slow (eg., it takes ~5 years for Verra to issue credits)



Fragmented markets

Credits have a wide variety of attributes across many different standards and registries. This silos markets and limits liquidity

Manual, OTC

Not user friendly for retail



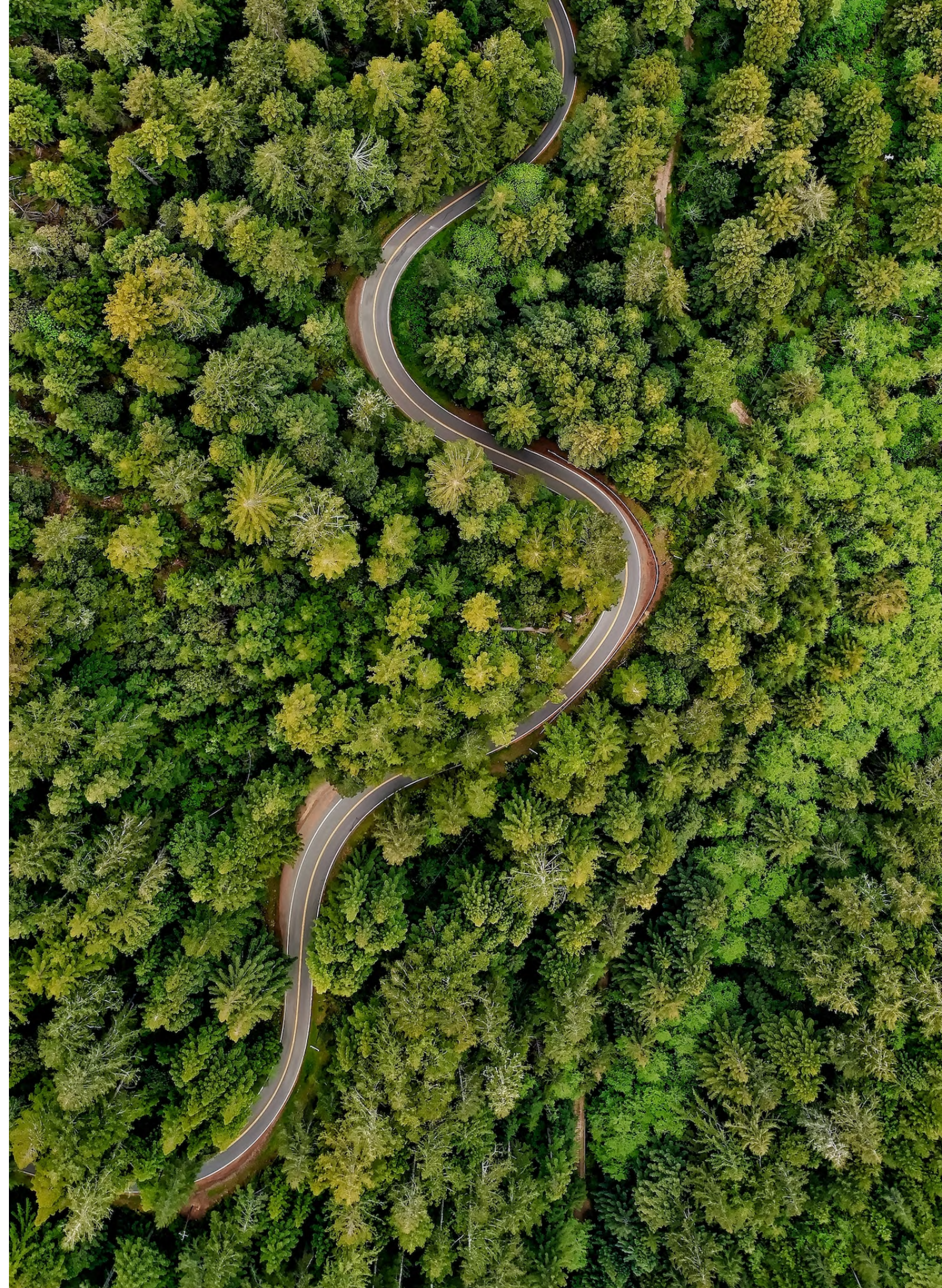
Opaque pricing

Lack of transparency results in intermediaries capturing 50-80% of value

Exclusivity limits carbon market access, holding back participation and keeping the price of carbon too low



**Technology can help us build
better carbon markets.**





With **Toucan's data and liquidity tools**, buyers can confidently assess risk and easily buy and retire credits.

These same products help project developers unlock instant liquidity for their credits, and tell their story.



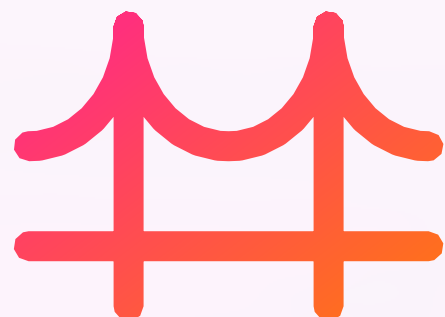
Tokenized carbon credits transform the market

Tokenized carbon instantly reduces bureaucracy, and opens a frictionless global carbon market that's available to all.



TECHNOLOGY

Meet the **Carbon Stack**,
everything needed to unlock
newfound carbon credit utility.



Toucan Bridge

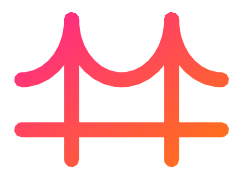


Toucan Meta Registry




Carbon Pools

TECHNOLOGY



Toucan Bridge, the gateway to programmable carbon

The Toucan Bridge enables the journey from carbon credit to tokenized asset. For each credit bridged, one Toucan CO2 (TCO2) token is minted. TCO2s are semi-fungible and retain credit-specific attributes and metadata.



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Overview

Bridge

Pools

Swap

SOON

Docs

Github

Discord

Polygon Mainnet0x123

Total Offsets Bridged ⓘ
140,027 TCO2

Total BCT Supply ⓘ
112,382 BCT

TVL in BCT / DAI Pool →
\$1,028,302


Total Carbon Offsets
2,037 tCO2e

My Carbon Assets




Search

Init



Carbon Pool Tokens ⓘ

Balance ↓	TCL ⓘ	BCT Price	Action
 <div>100,700.00 BCT \$ 728,061.00</div>	5,637,489.54 TCO2 Base Carbon Pool	\$ 7.23 On Sushiswap →	<div>Buy →</div> <div>Redeem TCO2</div>

Open TCO2 Batches ⓘ

ID	Balance ↓	Project Name ⓘ	Status	Action
#1702	 -	Unassigned	Initialized	<div>Attach Serial</div>
#1839	 <div>4,200.00 TCO2 VCS-8902-2019</div>	Bull Run Project 2019 · REDD+	Pending...	
#471	 <div>1,200.00 TCO2 GS-8902-2017</div>	Katingan Mentaya Project 2017 · REDD+	Approved	<div>Convert</div>

Toucan CO2 Tokens (TCO2) ⓘ

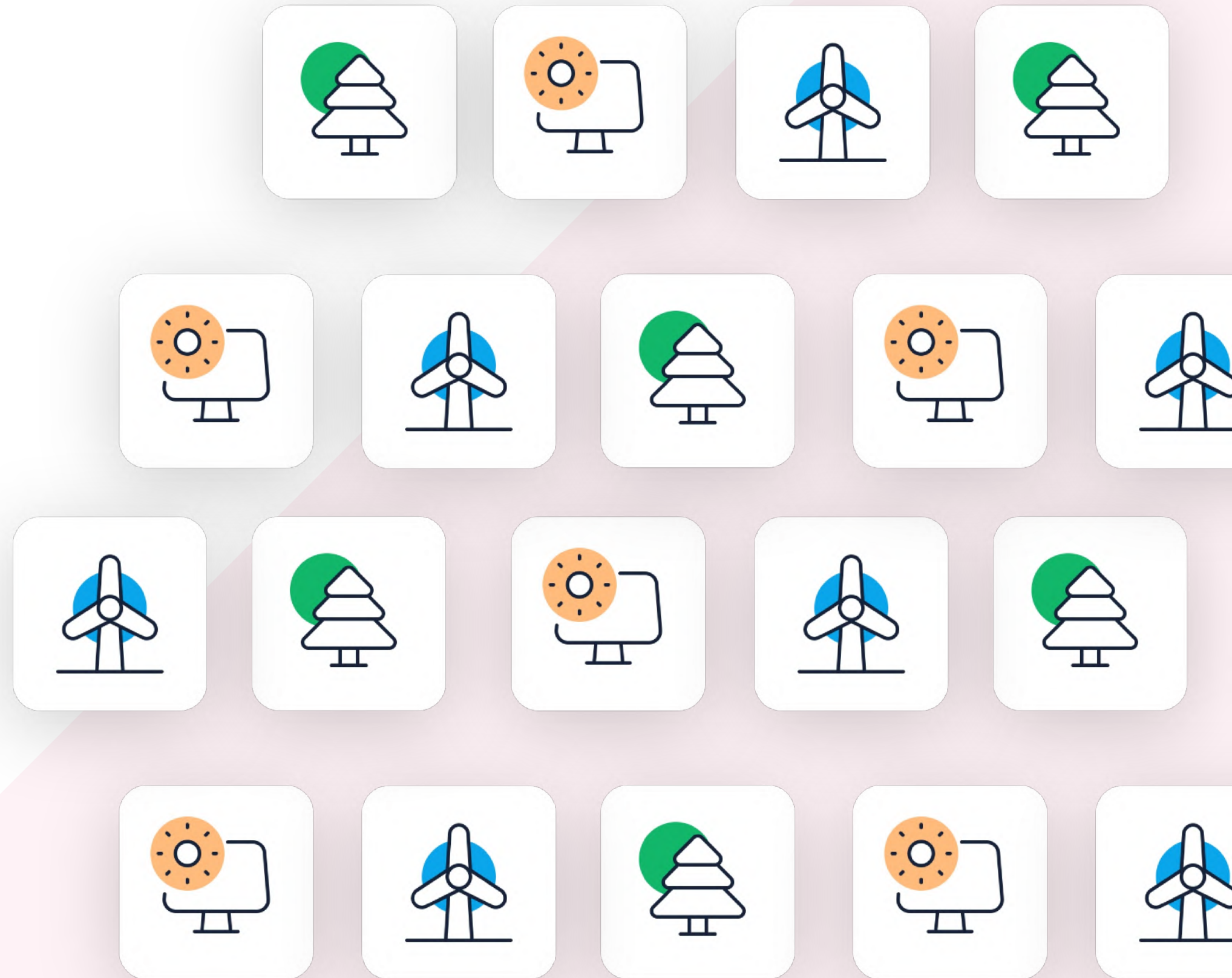
Balance ↓	Project Name	Action
 <div>1,203,791.00 TCO2 VCS-8902-2018</div>	Bull Run Project 2018 · REDD+	<div>Deposit</div> <div>Offset</div>
 <div>67,232.00 TCO2 GS-8902-2018</div>	Katingan Mentaya Project 2017 · REDD+	<div>Deposit</div> <div>Offset</div>

TECHNOLOGY



Toucan Meta Registry, a sink for carbon credits sourced from registries throughout the VCM

The collection of TCO2s in circulation make up the Toucan Meta Registry — a unified home for credits that helps to standardize data and simplify accounting.



TECHNOLOGY



Say hello to ultra liquid carbon markets — enabled by **Carbon Pools**

Carbon Pools are designed to attract tokenized carbon credits that share environmental project attributes.



USE CASES

On-chain carbon opens opportunities for a radically new system — one where economics and ecology align.



Carbon Project
Explorer



Climate Impact
Dashboards



Retail Offsetting
Providers



Marketing and
storytelling tools



Data and analytics
tools and services



Embedded offsetting in
Web3 protocols
(NFTs + DeFi)



We are enabling an ecosystem
of **regenerative innovation**.

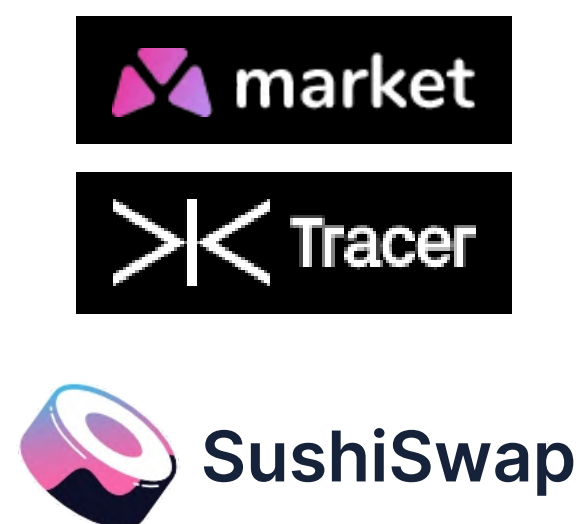
Carbon Explorers



Carbon-backed currency



DeFi Integrations



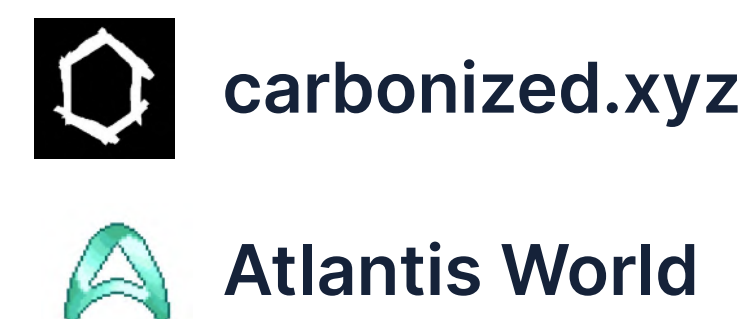
Consumer Offsetting



ReFi OGs



Metaverse + NFTs





Thank you 🙏

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Twitter:

@toucanprotocol