Green Fintech Competition

Summary Report

—

April 2024

Content

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Introduction

Introduction

The Green Fintech Competition is part of the Hong Kong Monetary Authority (HKMA)'s efforts to enhance the resilience of the banking sector to climate risk.

The HKMA launched the Green Fintech Competition on 21 September 2023 to promote the adoption of green fintech solutions in the Hong Kong banking industry. Green fintech firms in Hong Kong and around the world were invited to participate and submit market-ready solutions that can help the banking sector address challenges under the themes below:

❑ Theme #1 Net-zero Transition or Transition Planning;
❑ Theme #2 Climate Risk Management;
❑ Theme #3 Green and Sustainable Finance; and
❑ Theme #4 Sustainability or Climate-related Disclosure and Reporting.

The themes were developed based on feedback received from an industry outreach conducted in July and August 2023 with 33 banks.

A total of 87 applications from 69 firms were received, spanning 19 jurisdictions. The applications were judged by a panel comprising representatives from both the public and private sectors, including the banking and technology sectors, professional associations and academia.

Ultimately, a winner and a runner-up were selected for each theme and were given the chance to showcase their solutions at the Green and Sustainable Banking Conference held by the HKMA on 11 December 2023.

Snapshot of the Green Fintech Competition

Promote the adoption of green fintech solutions in the Hong Kong banking industry

87

applications from

69

companies from

19

jurisdictions

4 **Themes:**

#1 Net-zero Transition or Transition Planning

#2 Climate Risk Management

#3 Green and Sustainable Finance

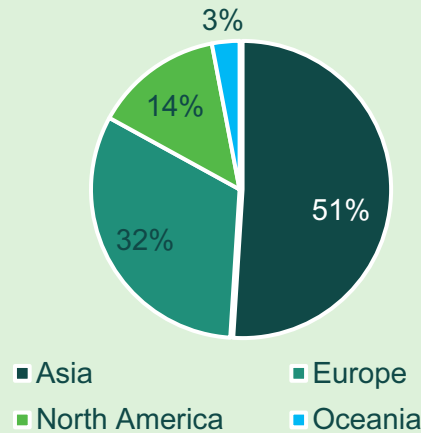*#4 Sustainability or Climate-related Disclosure and Reporting*

HONG KONG MONETARY AUTHORITY
香 港 金 融 管 理 局

2

supporting organisations

Cyberport 20

InvestHK
The Government of the Hong Kong Special Administrative Region of the People's Republic of China

Global distribution of Competition participants

3%

14%

32%

51%

- Asia
- Europe
- North America
- Oceania

19

members on the evaluation panel, representing both the public and private sectors

01
Problem Statements

Formulation of Problem Statements

An industry outreach was conducted in July and August 2023 to gain a better understanding of the pain points of the local banking industry with respect to green and sustainable banking practices, including in the adoption of green fintech. A combination of questionnaire and interviews was used in the outreach.

Questionnaire

- Designed to capture information about the current state and future trends of utilising green fintech in green and sustainable banking in Hong Kong
- A total of 25 banks responded to the questionnaire

Interviews

- Meetings with the representatives of 8 banks were scheduled
- To seek a more in-depth understanding of the current practices and challenges faced by practitioners in green and sustainable banking

Through the industry outreach, a series of problem statements were identified, encompassing the challenges encountered in green and sustainable banking. These problem statements revolve around four themes.

Theme #1 Net-zero Transition or Transition Planning

Theme #2 Climate Risk Management

Theme #3 Green and Sustainable Finance

Theme #4 Sustainability or Climate-related Disclosure and Reporting

The following pages provide examples of problem statements for each theme. Competition participants were required to submit market-ready solutions that address these problem statements or other relevant challenges associated with the respective theme.

Theme #1 Net-zero Transition or Transition Planning

As the real economy transitions to net-zero, banks have to manage the associated risks and adjust their business models.

For example, they might embed transition considerations into their governance and risk management frameworks and support their clients by providing advisory services and transition financing. In the process, banks face numerous challenges around data availability and quality harmonisation of taxonomies and scenario analysis.

Examples of problem statements

How can a bank monitor and benchmark its progress towards net-zero in a cost effective and efficient manner?

How can technology be leveraged to facilitate the collection of information about clients' emissions or transition plans and the analysis of clients' transition progress in relation to the bank's own target?

How can technology facilitate the building of comparable scenarios that cater to a bank's own context and needs?

- Some banks still primarily rely on a manual approach for tracking their net-zero progress, which is administratively burdensome and prone to human errors.

- A bank's transition planning process is dependent on its clients' transition pathways. However, information on clients' emissions or transition plans is often lacking. Also, some banks conduct surveys of clients in a manual or administratively burdensome manner.

- Scenario analysis is a key tool in transition planning, including in developing a transition strategy, setting targets and tracking progress. Yet, off-the-shelf scenarios might not be directly applicable to the region a bank operates in or to the bank's business needs.

Theme #2 Climate Risk Management

To meet supervisory expectations, banks are increasingly looking to assess and manage physical risk and transition risk.

This is a challenging task due to the forward-looking nature and long time horizon of climate risk. Data is often unavailable and inconsistent, methodologies are not yet mature and uncertainty exists in the science of climate change (e.g. tipping points).

Examples of problem statements

How can technology assist banks in their internal processes of transforming and cleaning data collected from different regions?	How can technology improve data availability on SMEs and facilitate banks' access to such data?	How can technology facilitate data collection and processing for banks' carrying out of climate risk assessment?	How can technology help create risk management tools that are suitable for climate risk assessment and management?
• Regional constraints in data collection may lead to data inconsistency. For example, some jurisdictions are slower in adopting climate-related disclosure regulations, or their regulations are not aligned with well-recognised standards. For internationally active banks, it can be difficult to translate regional data into a common, standardised format.	• Climate-related data and emissions data on SMEs are often lacking, given that SMEs are not subject to regulatory disclosures and lack the resources to collect data. Also, SMEs do not usually have any carbon inventory baseline or tools in place to track their climate performance.	• Processing data for climate risk assessment is often labour-intensive and time-consuming. For example, information contained in the sustainability reports of listed firms is often unstructured and scattered across different parts of the reports. It takes time for banks to extract and clean the data to make it useful for the bank's own climate risk assessment model.	• Traditional risk management tools are often inadequate for climate risk assessment. For example, Excel-based tools cannot incorporate geospatial data.

Theme #3 Green and Sustainable Finance

To meet investor demand and support clients' green or transition projects, banks offer green and sustainable investment products and financing.

In the process, banks have to balance several objectives – ensure compliance with financial regulations, avoid greenwashing and seek commercial returns.

Examples of problem statements

	How can technology make it easier for banks to ensure compliance with different standards, regulations and taxonomies?	How can banks track key performance indicators and sustainability performance targets set during the project initiation stage or in green and sustainable finance products so as to reduce the risk of greenwashing by clients?	How to improve SMEs' knowledge of green financing options and lower the cost of SMEs to obtain green financing?	How to facilitate banks' assessment of low-carbon technologies and connect banks with borrowers that are developing technologies with good technical and commercial potential?
	• Standards and regulations relating to green and sustainable finance are varied and evolving. Different jurisdictions have different regulations about the green labelling of investment products and different taxonomies for green or transition activities. It is difficult for banks to monitor compliance, and there could be greenwashing risks if banks offer products that are not aligned with the latest regulations or taxonomies.	• There are growing concerns over greenwashing risks. The lack of historical data on non-listed firms poses a challenge for banks in tracking borrowers' climate performance. Consequently, it is difficult for banks to ensure alignment with green finance objectives and monitor the progress of clients' green or transition projects.	• SMEs are not incentivised to obtain green financing because of the high cost, lack of understanding of climate risk and lack of regulatory requirements.	• Before approving financing to low-carbon technology firms, banks have to understand and assess the potential of the technology, such as the scientific soundness and commercial viability. Not only does this take the banks time and efforts, but it also makes it difficult, time-consuming and costly for the firms to secure funding.

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Theme #4 Sustainability or Climate-related Disclosure and Reporting

To maintain transparency and comply with regulations, banks have to make disclosures that are in line with recognised standards and frameworks.

Banks face a number of challenges such as data governance and management. It is also difficult for them to collect high quality data from clients, particularly SMEs and non-listed companies which are not subject to disclosure regulations and often do not have the resources to collect data.

Examples of problem statements

How can technology facilitate the mapping of disclosure requirements and assist banks in making the necessary adjustments to their existing reporting processes?

How to help SMEs navigate the complexities of sustainability or climate reporting and meet the requirements of recognised frameworks, so as to facilitate banks' collection and compilation of data?

How can technology assist banks in collecting, processing or reporting nature-related data?

- Disclosure requirements and standards are evolving and it is time-consuming and labour-intensive for banks to identify discrepancies between the existing reporting process and the latest requirements or regulations.

- Even if SMEs are willing to collect emissions data, they often lack the resources and expertise to make disclosures that are in line with recognised standards.

- Reporting under nature-related frameworks (e.g. the Taskforce on Nature-related Financial Disclosures framework) requires various types of nature-related data such as biodiversity impact. It is difficult for banks to obtain high quality nature-related data for fulfilling the reporting requirements.

02
Competition Process

Competition Process

21 September ① → **20 October** ② → **3 November** ③ → **11 December** ④
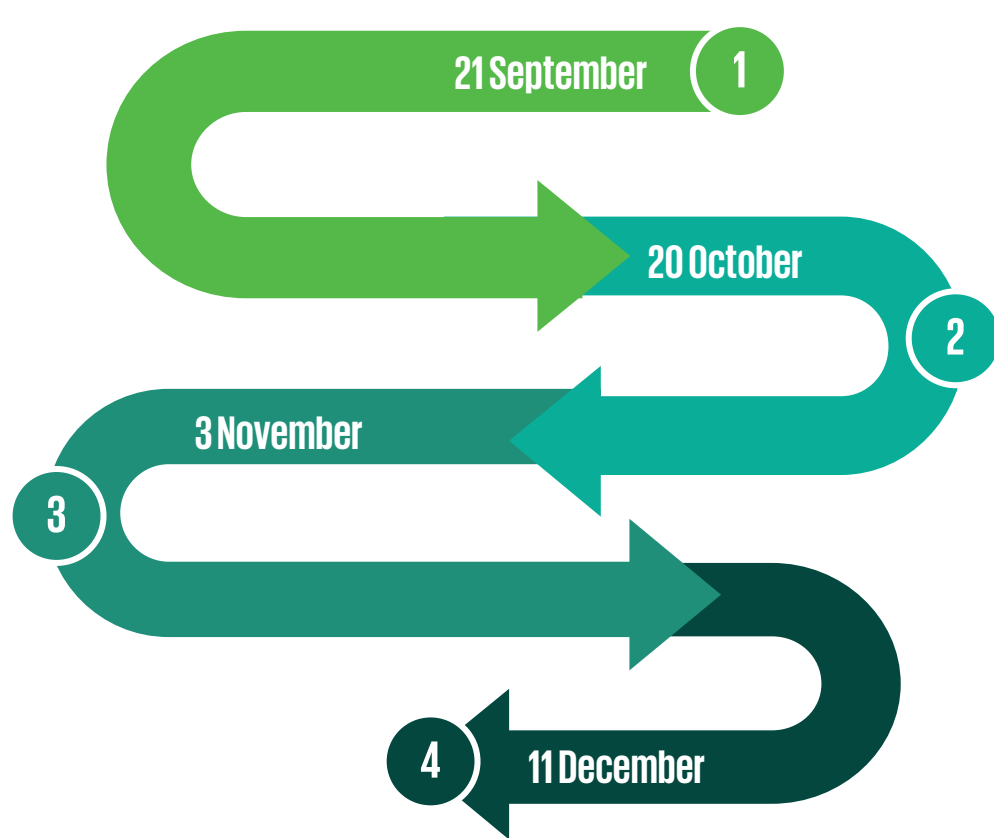
1 Officially launched

An online platform was launched for companies to sign up and submit their solutions. Applications were open from 21 September to 20 October 2023.

2 Phase 1 – Initial screening

An initial screening was conducted to shortlist companies that can enter phase 2 (virtual pitching). Ten companies were shortlisted for each theme.

3 Phase 2 – Virtual pitching

Virtual pitching sessions were held for each shortlisted firm to present its solution to the evaluation panel and for the panel to ask questions.

4 Results announcement

The results were announced at the Green and Sustainable Banking Conference held by the HKMA on 11 December 2023. The winner and a selected finalist of each theme showcased their solutions at an exhibition area at the Conference.

03
Evaluation Panel

Evaluation Panel

The evaluation panel comprised representatives from both the public and private sectors, including the finance and technology sectors, professional associations and academia in Hong Kong.

Theme #1 Net-zero Transition or Transition Planning

Anita Chau
Director, Ecosystem Development
HK-SZ Innovation and Technology Park

Jennifer Chiu
General Manager & Head of Market and Credit Risk Methodologies
China Citic Bank International Limited

Maggie Yung
Managing Director, Head of Treasures & Distribution, Consumer Banking Group and Wealth Management
DBS Bank (Hong Kong) Limited

Tasos Zavitsanakis
Head of Sustainable Finance Greater China
UBS

Theme #2 Climate Risk Management

Dr. Robin Kennish
Asia Lead of Renewables & Climate Change Services
ERM

Prof. Lapman Lee
Professor of Practice (ESG, FinTech, Sustainable Finance)
Hong Kong Polytechnic University

Cindy Pau
Head of Risk Management
Citibank HK Limited

Vincy Shiu
Chief Data Strategist
Bank of China (Hong Kong)

Dr. Agnes K.Y. Tai
Director
Great Glory Investment Corporation

Theme #3 Green and Sustainable Finance

Jenny Fan
Executive Director, Sustainable Finance
ANZ Banking Group Limited

Dr. Crystal Fok
Head of STP Platform
HKSTP

Prof. Veronique Lafon-Vinais
Program Co-Director, Sustainable and Green Finance
HKUST

Kim Lay
Head of Digital Banking
Hang Seng Bank

Ronald Young
Head of Sustainable Finance Asia, Global Banking and Advisory
Société Générale

Theme #4 Sustainability or Climate-related Disclosure and Reporting

Nixon Chau
Managing Director & General Manager
SenseTime

Erika Leung Rodriguez
Principal, Sustainability
KKR

Millie Pau
Alternate Chief Executive & Chief Compliance Officer
WeLab Bank

Gabriel Wilson-Otto
Head of Sustainable Investing Strategy
Fidelity International

Victor Yim
Head of Fintech
Cyberport
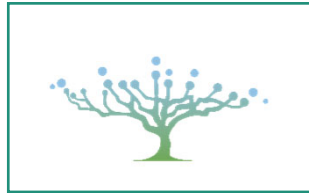
Note: There were originally five judges for each theme, but a judge for Theme #1 subsequently withdrew from the panel for personal reasons.

04
Solutions

Snapshot of Top 5 Shortlisted Solutions

**Theme #1
Net-zero Transition
or Transition
Planning**

Winner

Cogo
https://www.cogo.co/

1st runner-up

PortageBay
https://www.portageb.com/

Other shortlisted firms (in alphabetical order)

Carbonbase
https://www.carbonbase.co/

MVGX
https://www.mvgx.com/

Negawatt Utility
https://www.zero2.app/en/

**Theme #2
Climate Risk
Management**

Winner

S&P Global Market Intelligence
https://www.spglobal.com/marketintelligence/en/solutions/climate-credit-analytics

1st runner-up

Riskthinking.AI
https://riskthinking.ai/

Other shortlisted firms (in alphabetical order)

Intensel
https://www.intensel.net/

SaferPlaces
https://saferplaces.co/

Wolters Kluwer
https://www.wolterskluwer.com/en

Note: This section showcases the top five shortlisted solutions for each theme. A firm may offer more than one product and the websites listed on this page may show solutions other than the ones that were submitted for this Competition.

Snapshot of Top 5 Shortlisted Solutions

Winner | **1st runner-up** | **Other shortlisted firms (in alphabetical order)**

Theme #3 Green and Sustainable Finance

Winner	1st runner-up	Other shortlisted firms (in alphabetical order)		
Allinfra https://allinfra.com/	Frigg https://www.frigg.eco/	BlueOnion https://www.blueonion.today/	Ecolytiq https://www.ecolytiq.com/	Xalts https://www.xalts.io/

Theme #4 Sustainability or Climate-related Disclosure and Reporting

Winner	1st runner-up	Other shortlisted firms (in alphabetical order)		
Diginex https://www.diginex.com/diginex-esg	Floodlight https://floodlightinvest.com/	Acuity Knowledge Partners https://www.acuitykp.com/	IBM China/Hong Kong https://www.ibm.com/products/envizi?mhsrc=ibmsearch_a&mhq=envizi	InnoBlock https://www.tt-green.com/

Note: This section showcases the top five shortlisted solutions for each theme. A firm may offer more than one product and the websites listed on this page may show solutions other than the ones that were submitted for this Competition.

Theme #1 Net-zero Transition or Transition Planning

Technology trends identified in the solutions:

❑ Software-as-a-Service (SaaS) platform
❑ Artificial intelligence
❑ Blockchain
❑ Data-driven measurement, reporting and verification
❑ Open API development framework

▶ **Top 5 solutions**

cogo

PortageBay

MVGX

negawatt

Solution	Features
Carbon Manager and Reporting	• Improve carbon literacy, management and reporting, and foster green finance
Transition Suitability Indicator	• Evaluate the credibility of corporate net-zero commitments
Digital Carbon Registry	• Improve digital carbon credits with transparency, credibility and quality
Carbon Connect Suite	• Track and calculate Scope 1, 2 and 3 emissions • Framework encompassing measuring, mitigating, offsetting, certifying and financing
Zero2 ESG Gamification App	• Quantify and accelerate individual behavioural for sustainability

Winner: Cogo

o Cogo's SaaS solution is designed to support hundreds of millions of retail and commercial banking customers across the world, encouraging them to be more conscious of their impact on the planet and make advancements in their decarbonisation journey. The **Personal Carbon Manager** feature tracks the carbon footprint of retail customers' spending, offering reduction insights and enabling banks to personalise green financial products. The **Business Carbon Manager** aids SMEs in adopting a low-carbon model, with tools for measuring and managing emissions. Integrated with Xero, it assists in creating GHG Protocol-compliant reports and setting decarbonisation targets.

Note: Please note that this page contains marketing materials provided by Green Fintech Competition participants. The HKMA does not endorse any of the solutions mentioned.

Theme #2 Climate Risk Management

▶ **Top 5 solutions**

	Solution	Features
S&P Global Market Intelligence	Climate Credit Analytics	• Evaluate the impact of climate on financial and credit risk
riskthinking.AI	Climate Risk Assessment	• Enhance asset-level resolution and forward-looking modelling capabilities
INTENSEL CLIMATE RISK SOLUTIONS	Climate Risk Assessment	• Quantify climate-related financial risks at asset-level with forward-looking scenario analysis
SaferPlaces	Flood Modelling and Analysis	• Deliver comprehensive flood risk intelligence across the globe
Wolters Kluwer	OneSumX for ESG	• Provide a seamless data flow and consistent architecture

Technology trends identified in the solutions:

❏ Digitalised platform
❏ Artificial intelligence
❏ Machine learning
❏ Cloud-based solutions

Winner: S&P Global Market Intelligence

o Climate Credit Analytics (CCA) was launched in late 2021 as an advanced climate scenario analysis capability using a framework initially developed in collaboration with the UNEP-FI. It combines the powerful datasets and advanced credit modelling capabilities of S&P Global with Oliver Wyman's expertise in climate risk analysis and stress testing to estimate the impact of climate risk on financial statements of companies. CCA translates climate scenarios and market dynamics into financial performance drivers tailored for each industry, forecasting financials and credit risk via Credit Analytics models. It leverages S&P Global's databases and quantitative methods, allowing instant scoring for 2.2 million companies and proprietary analysis for those not in the database.

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Theme #3 Green and Sustainable Finance

Technology trends identified in the solutions:

❑ SaaS platform
❑ Digital platform
❑ Artificial intelligence
❑ Large Language Model
❑ Digital measurement, reporting and verification
❑ Internet of Things monitoring

▶ **Top 5 solutions**

	Solution	Features
ALL INFRA	Green Finance Impact Reporting Tool	• Improve efficiency, reliability and transparency in green finance impact reporting
Frigg	Integrated Regulatory-compliant Debt Securities Platform	• Standardised workflow for the vetting, financing, and reporting of sustainable infrastructure projects
blueonion Invest Responsibly	Investment Greenness Assessment Platform	• Alignment with global anti-greenwashing frameworks to quickly validate investees
ecolytiq	Climate Engagement Platform	• Drive individuals to make sustainable choices through carbon footprint measurement, insights and reduction
[x] alts	Integrated Solutions across ESG Financial Products	• Embed and enforce ESG standards across financial products with blockchains

Winner: Allinfra

o The Allinfra Green Finance Impact Reporting Tool enables users to create on-chain formulas for almost any purpose, with inputs from device and system data, manual and other third-party sources selected by an asset/entity owner, coupled with granular third-party verification and reporting, all within a single platform. The trusted and verifiable KPIs created and reported upon using the Tool are ideal for monitoring the impact of all types of climate finance, from green bonds to sustainability-linked bonds and loans.

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Theme #4 Sustainability or Climate-related Disclosure and Reporting

Technology trends identified in the applied solutions:

❑ SaaS platform
❑ Hybrid cloud
❑ Artificial intelligence
❑ Blockchain
❑ Satellites and other empirical instruments

▶ **Top 5 solutions**

	Solution	Features
diginex	ESG, Climate and Supply Chain Data Collection and Reporting	• Increase transparency and provide data for decision making
Floodlight	Verification for GHG Scope 1 & 2 Emissions	• Use empirical instruments for assessing risks and trends around emissions and physical risk in the portfolio
ACUITY KNOWLEDGE PARTNERS	Market Insights Monitor	• Access market insights to support ESG decision making
IBM	Data, Analytics and Insights ESG Platform	• Empowered with artificial intelligence to streamline the capture, consolidation and management of ESG data to drive analytic insights with ESG reporting
InnoBlock	ESG Data Management and Reporting Platform	• Allow reporting across multiple international frameworks and comprehensive Scope 3 data collection

Winner: Diginex

o Diginex is a fast-growth software company helping companies of all sizes with their ESG, Climate and Supply Chain data collection and reporting. It utilises the latest blockchain technology to lead change and increase transparency. Diginex helps organisations which want to do better and be more responsible, to realise the commercial benefits of ESG and make data-driven decisions to mitigate risk, build resilience and capitalize on growth opportunities. Organisations use Diginex's technology to future-proof their business models and accelerate growth, while contributing to a better future.

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05

Appendix

Snapshot of the Competition Winners and First Runners-up

Below are summaries of the information submitted by the winners and first runners-up of the Green Fintech Competition.

Themes	Winners	Page	First runners-up	Page
Theme #1: Net-zero Transition or Transition Planning	Cogo	25	PortageBay	26
Theme #2: Climate Risk Management	S&P Global Market Intelligence	27	Riskthinking.AI	28
Theme #3: Green and Sustainable Finance	Allinfra	29	Frigg	30
Theme #4: Sustainability or Climate-related Disclosure and Reporting	Diginex	31	Floodlight	32

Please note that the following pages contain marketing materials provided by the Green Fintech Competition winners and first runners-up. The HKMA does not endorse any of the solutions mentioned.

Cogo

cogo

Winner of Theme #1: Net-zero Transition or Transition Planning

Overview

- Cogo's SaaS solution is designed to support hundreds of millions of retail and commercial banking customers across the world, encouraging them to be more conscious of their impact on the planet and make advancements in their decarbonisation journey. The **Personal Carbon Manager** feature tracks the carbon footprint of retail customers' spending, offering reduction insights and enabling banks to personalise green financial products. The **Business Carbon Manager** aids SMEs in adopting a low-carbon model, with tools for measuring and managing emissions. Integrated with Xero, it assists in creating GHG Protocol-compliant reports and setting decarbonisation targets.
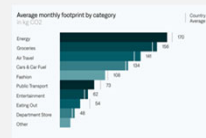
Problem statement

How can technology be leveraged to facilitate the collection of information about clients' emissions or transition plans and the analysis on clients' transition progress in relation to the bank's own target?

Solution

Measure
Provide market-specific carbon footprint for categorised spendings of the business

Understand
Drive change, increasing literacy and confidence, to better understand impacts and opportunities

Reduce
Tailor climate action plans and content to support business to reduce carbon emissions against SBTi

Report
Create GHG Protocol aligned carbon footprint reports to disclose status, targets action and progress

Key benefits

- As customers' carbon literacy increases, this boosts customer adoption of green finance product offerings from banks and drives the transition to a low-carbon economy.

PortageBay

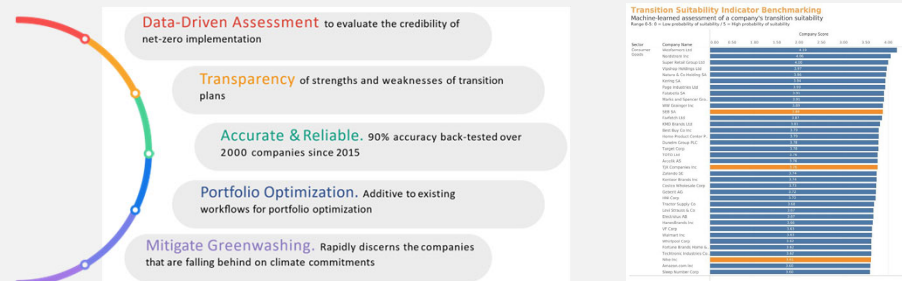## First runner-up of Theme #1: Net-zero Transition or Transition Planning

🪧 Overview

- The Transition Suitability Indicator (TSI), developed by PortageBay, addresses the challenge of evaluating the credibility of corporate net-zero commitments amidst increasing greenwashing risks. The AI-driven tool stands out for its unique approach to assessing net-zero strategies. Unlike conventional methods focusing on high-level strategies and leadership, TSI probes the intrinsic "corporate DNA" - the people, culture, and policies crucial for adapting to change. This identifies the persistent factors within a company, crucial for achieving net-zero goals.

⚙️ Problem statement

Banks have set financed emissions targets. Yet, how can banks select which companies can achieve their decarbonisation to align with the bank's targets?

💡 Solution

PortageBay's AI models thousands of companies' employee, social and governance performance to discern the indicators of transition suitability. The TSI then analyses a company's predisposition to achieve net-zero strategies, based on an industry's unique "transition DNA".

🌐 Key benefits

- Gain increased clarity on which companies can execute their decarbonisation plans to align with a bank's own targets.
- Mitigate risks: transparency in the factors that are supporting or hindering transition initiatives.
- Tangible productivity gains with 90% reduction in research time.
- Accurately price green and sustainability-linked bonds through benchmarked climate performance and indicators of net-zero success.

S&P Global Market Intelligence

**Winner of Theme #2: Climate Risk Management**

Overview

- Climate Credit Analytics (CCA) was launched in late 2021 as an advanced climate scenario analysis capability using a framework initially developed in collaboration with the UNEP-FI. It combines the powerful datasets and advanced credit modelling capabilities of S&P Global with Oliver Wyman's expertise in climate risk analysis and stress testing to estimate the impact of climate risk on financial statements of companies. CCA translates climate scenarios and market dynamics into financial performance drivers tailored for each industry, forecasting financials and credit risk via Credit Analytics models. It leverages S&P Global's databases and quantitative methods, allowing instant scoring for 2.2 million companies and proprietary analysis for those not in the database.

Problem statement

How can technology help create risk management tools that are suitable for climate risk assessment and management?

Solution
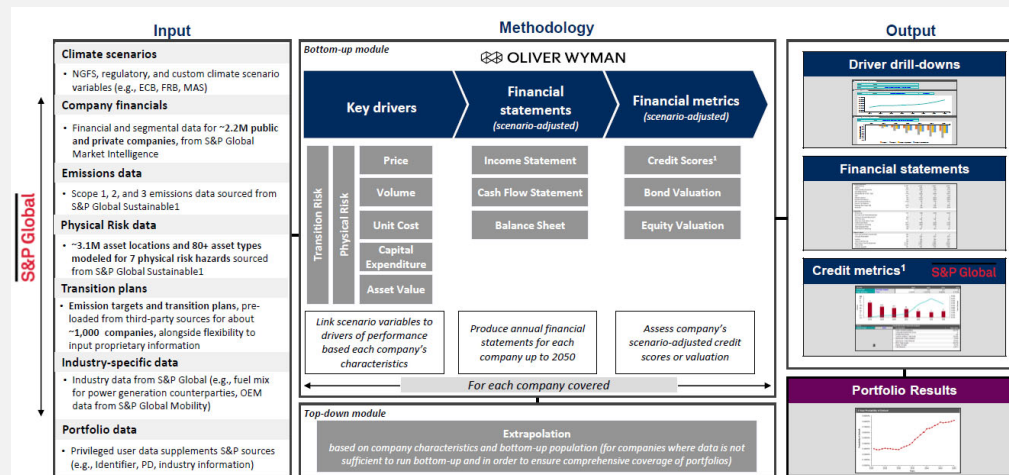
Key benefits

- Investment professionals, government agencies, corporations and universities globally can gain the intelligence essential to making business and financial decisions with conviction.

Riskthinking.AI

riskthinking.AI™

First runner-up of Theme #2: Climate Risk Management.

Overview

- Riskthinking.AI is a leading data and technology company repricing financial risk with the reality of climate change. It aims to do this through the generation of climate risk analytics that are science-based and mathematically consistent, and that deliver truly dependable insights to inform investment decision-making.

- Riskthinking.AI has captured climate uncertainty worldwide. In addition, it has captured the material assets of hundreds of thousands of companies and brought these together in an enterprise solution for climate risk management called VELO®.

Problem statement

How can technology help create risk management tools that are suitable for climate risk assessment and management?

Solution

Data
Curate exactly the data that clients need, selecting from a catalogue of over 50 perils, multiple climate pathways and millions of company-tagged assets. Results delivered in bulk or via API.


Products
Explore climate exposure and impact in award-winning cloud-based applications, providing direct access to the data needed to support risk quantification, management and reporting.

Enterprise
Unlock the full power of VELO® through complete customisation of data inputs and analytical controls, designing models that explicitly address business needs and enable market-wide stress testing.
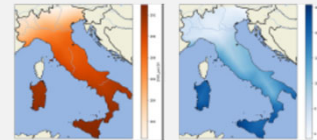
Key benefits

- Transforming, cleaning & integrating data.

- SME data availability.

- Data collection and alignment.

- Using technology to advance risk management.

Allinfra

## Winner of Theme #3: Green and Sustainable Finance

Overview

- The Allinfra Green Finance Impact Reporting Tool enables users to create on-chain formulas for almost any purpose, with inputs from device and system data, manual and other third-party sources selected by an asset/entity owner, coupled with granular third-party verification and reporting, all within a single platform. The trusted and verifiable KPIs created and reported upon using the Tool are ideal for monitoring the impact of all types of climate finance, from green bonds to sustainability-linked bonds and loans.

Problem statement

How can technology make it easier for banks to ensure compliance with different standards, regulations and taxonomies?
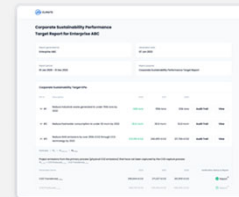
Solution

Flexible blockchain-based reporting system with third-party verification. Ability to build formulas for specific KPI tracking needs and generate on-demand reports.
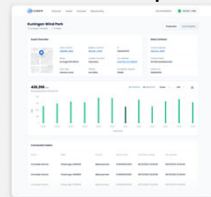
Collection and visualisation of climate-relevant data at the device, asset or portfolio level.
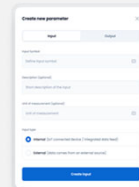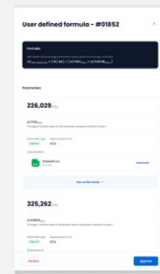
Reports and proof on the blockchain-based system.

Key benefits

- Reduce cost of data collection.

- Improve the reliability of data collected.

- Seamlessly integrate into reporting and financial products.

- Deliver maximum transparency while maintaining privacy.

Frigg

First runner-up of Theme #3: Green and Sustainable Finance

Overview

- Frigg is a blockchain-powered software for documenting, underwriting, securitising, and IPOing infrastructure special purpose vehicles (SPVs).
- Awarded Swiss-based company that equips infrastructure developers with digital tools to link project SPVs with capital markets.
- This enhances liquidity and ultimately curtails financing costs for these project SPVs.

Problem statement

How to facilitate the issuance and management of green loans by sustainable project developers and financial intermediaries?

Solution

Frigg has developed a SaaS platform to document and integrate ratings from third parties (ESG rating, credit rating, etc.) and underwrite and securitise green loans issued by sustainable project developers.
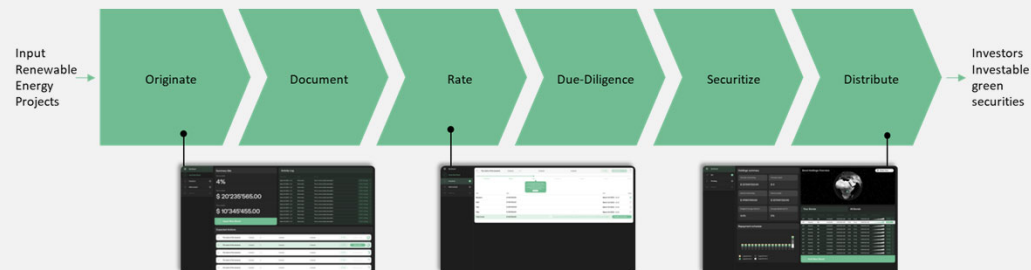
Key benefits

- Project developers can use the software to efficiently issue regulatory-compliant debt securities at a fraction of the cost and time.
- Distributors (financial intermediaries) can underwrite/bid, monitor, and compile portfolios of these green loans directly within the platform. It is a cloud-based SaaS with two-factor authentication for secure access.
- A standardised workflow for project documentation, securitisation, underwriting, and post-investment follow-up.

Diginex

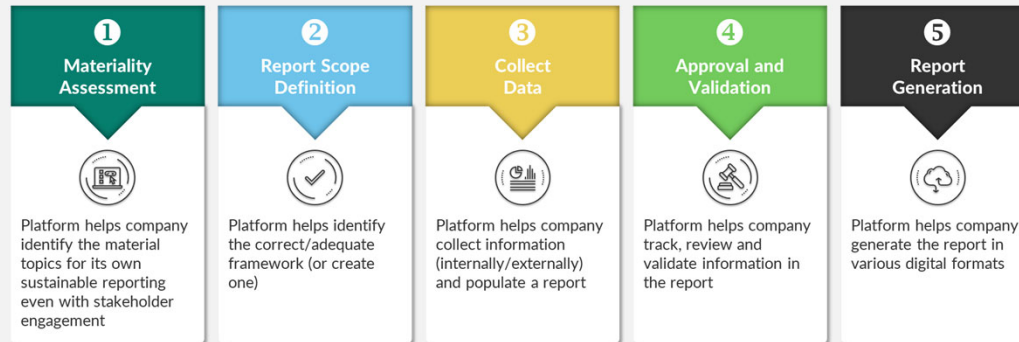## Winner of Theme #4: Sustainability or Climate-related Disclosure and Reporting

Overview

- Diginex is a fast-growth software company helping companies of all sizes with their ESG, Climate and Supply Chain data collection and reporting. It utilises the latest blockchain technology to lead change and increase transparency. Organisations use Diginex's technology to future-proof their business models and accelerate growth, while contributing to a better future.

Problem statement

How to help SMEs navigate the complexities of sustainability or climate reporting and meet the requirements of recognised frameworks, so as to facilitate banks' collection and compilation of data?

Solution

① Materiality Assessment
Platform helps company identify the material topics for its own sustainable reporting even with stakeholder engagement

② Report Scope Definition
Platform helps identify the correct/adequate framework (or create one)

③ Collect Data
Platform helps company collect information (internally/externally) and populate a report

④ Approval and Validation
Platform helps company track, review and validate information in the report

⑤ Report Generation
Platform helps company generate the report in various digital formats

Key benefits

- Help organisations which want to do better and be more responsible, to realise the commercial benefits of ESG and make data-driven decisions to mitigate risk, build resilience and capitalise on growth opportunities.

Floodlight

First runner-up of Theme #4: Sustainability or Climate-related Disclosure and Reporting

Overview

- By leveraging a cutting-edge approach to data from satellites and other empirical instruments, Floodlight can serve as a verification layer for key activities like GHG Scope 1 and 2 emission measurement.

- Customers use Floodlight to easily verify key behaviours around carbon, forest cover, and climate risks that are growing in materiality to businesses worldwide. Floodlight's tools and dashboard enable their clients to see trends in their investments, hard assets, and geographic areas of focus that help them strategically plan for the future.

Problem statement

How can technology assist banks in collecting, processing or reporting GHG emissions data?

Solution

Floodlight provides direct measurements of GHG emissions data. Floodlight's system of satellites and sensors solves the problem by providing a precise measurement, as well as a clean audit trail back to the source data.

Key benefits

- Help clients to determine and defend a much more precise valuation than the bare-bones GHG accounting methods available in the market.

- Provide specialised services for all stakeholders to ensure reporting is correct and true impact is measured and reported.

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