# **GREENCAP**<sup>TM</sup>

# Sustainable Lending Platform



Fostering Sustainable Lending Ensuring Climate Change Resiliency



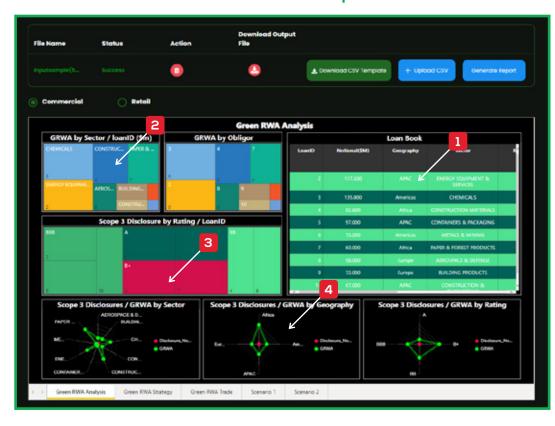




# GREENCAP<sup>™</sup> is a turnkey solution, designed to address five key needs of banks for sustainable lending and risk management

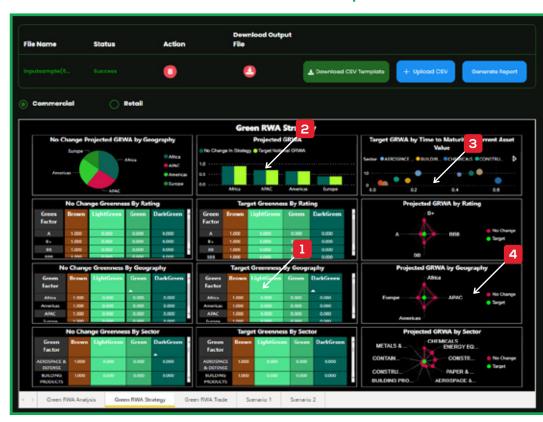
- Create multiple meaningful climate scenarios for assessing and projecting loan portfolio risks.
- Analyze existing loan portfolios to assess changing risk metrics against transitional and physical climate change.
- Price loans with incorporation of "green" risk factors.
- Intuitive, comprehensive, and seamless reporting for internal and external stakeholders.

### **Commercial Loan Portfolio Report 1**



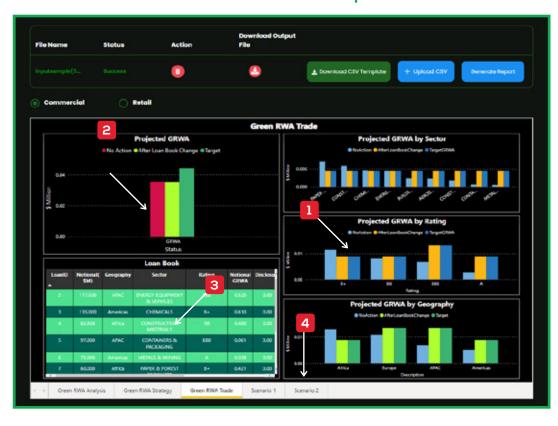
- Balance Sheet details, including green risk value.
- Graphical breakdown of portfolio by green risk.
- 3 Graphical breakdown of portfolio by scope 3 disclosures.
- 4 Intuitive comparison between green financial risk and scope 3 disclosures.

### Commercial Loan Portfolio Report 2



- Target greeness by geography, industry and rating.
- 2 Graphical breakdown of portfolio vs target greeness.
- Target greeness by time to maturity.
- 4 Target limit monitoring across sectors.

### **Commercial Loan Portfolio Report 3**



- New deal impact on specific green targets and limits.
- 2 Graphical breakdown of new deal effect on targets, before and after.
- Ability to add new loans or remove existing packets of loans.
- Easy navigation around GreenCap<sup>TM</sup> system outputs.

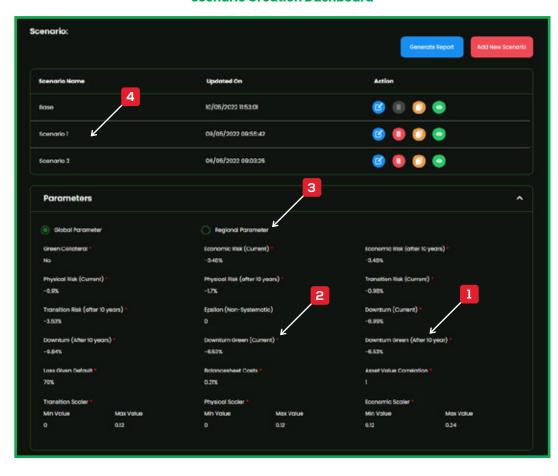
# **Meaningful Climate Scenarios**

Climate change data is evolving at a rapid pace with global bodies such as Intergovernmental Panel on Climate Change (IPCC) creating pathways for arresting climate change. These pathways have been recreated and costed by the NGFS, along with regional government policy plans.

### GREENCAP™ enables banks to represent multiple climate pathways segregated by:

- Impact and losses by country and targeted industries.
- Associated losses from upstream and downstream supply chains for specific/targeted industries.

#### **Scenario Creation Dashboard**



- Economic impacts of Transition risk.
- Economic impacts of physical risk.
- 3 Specific geographic settings within scenarios.
- 4 Multiple scenarios available to the user.

Supply chain impacts are calculated within GREENCAP™ by correlating non-targeted and targeted industry returns.



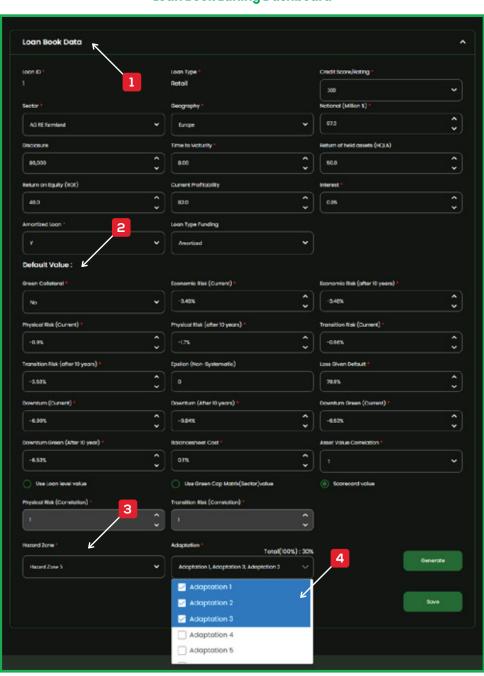
# **Loan Portfolio Analysis**

Transitional plans from the IPCC and governments around the world will impact most sectors of banks' loan portfolios. Once scenarios that reflect real world plans have been designed in GREENCAP<sup>™</sup>, they are applied to commercial and retail sectors of the respective loan portfolios.

### GREENCAP<sup>™</sup> analyzes each loan individually from the following perspectives:

- > Transitional impact on the sector.
- Specific climate adaptations made by each obligor to mitigate transition impact of climate change.
- Relative exposure of the obligor to physical climate impact.

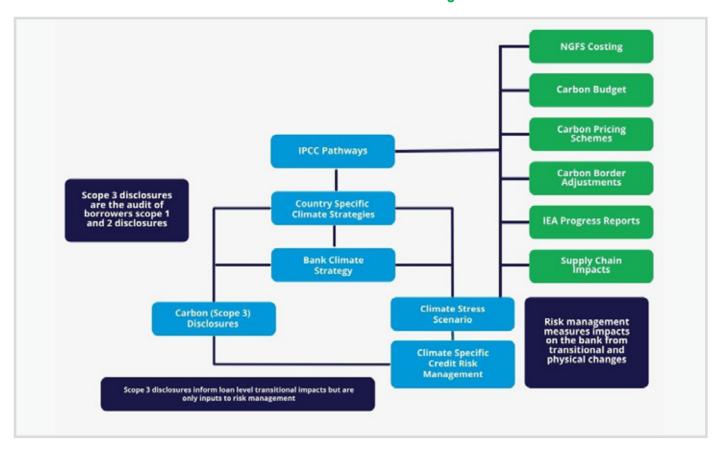
### **Loan Book Editing Dashboard**



- Loan details taken from the portfolio.
- 2 Economic settings taken from the scenarios.
- Hazard zones attributed for local 'physical risk'.
- 4 Adaptations to reduce the impact of 'transition risk'.

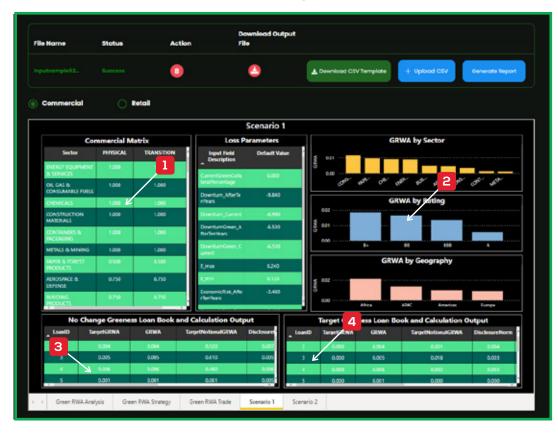
### **Potential Climate Scenarios**

### **Scenarios Within Climate Risk Management**



### Sample Scenario

### Scenario Report 1



- Scenario details shown with results.
- Loan portfolio, shown with green impacts.
- 3 Graphical breakdown of impacts of the scenario.
- Evaluation of green targets, under the specific scenario.

# **Climate Strategy**

Specific climate mitigation strategies employed by banks are complex and diverse. Banks strategies typically involve CO2 emissions and equivalent auditing with specific goals of

AG RE Farmland

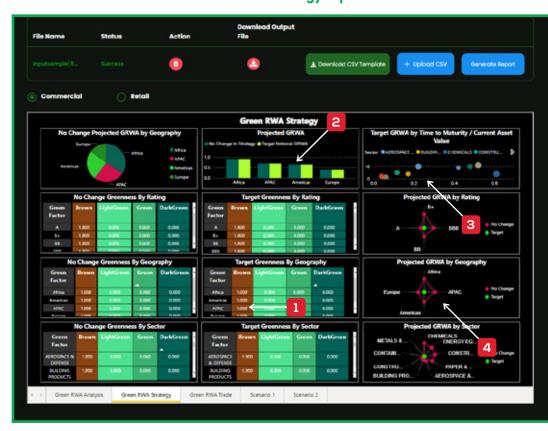
reaching funding and other targets by preset dates. Banks strategies do not typically reflect the risk of the transition itself and its consequential costs.

GREENCAP<sup>™</sup> allows a bank's climate strategy to be specified into the system in terms of its 'greenness' by sector and associated differences across future time periods.

### **Target Modification Dashboard** Target Greenness by Credit Score/Rating 1 888 88 . 300 2 Target Greenness by Geography Light Green Dank Green Europe APAC Americas 3 Africo Target Greenness by Commercial Sector **Oreen Factor** Light Oreen Dork Green ENERGY EQUIPMENT & SERVICES CONSTRUCTION MATERIALS CONTAINERS & PACKAGING METALS & MINING PAPER & FOREST PRODUCTS AEROSPACE & DEFENSE **BUILDING PRODUCTS** CONSTRUCTION & ENGINEERING 4 Target Greenness by Retail Sector

- Green impact targets set by current credit rating.
- 2 Green impact targets set by geographic region.
- 3 Green impact targets set by commercial sector.
- Green impact targets set by retail sector.

### **Green RWA Strategy Report**



- Target greeness by geography, industry and rating.
- 2 Graphical breakdown of portfolio vs target greeness.
- Target greeness by time to maturity.
- 4 Target limit monitoring across sectors.

GREENCAP™ identifies climate risks and targets by industry, borrower, and time to maturity. Through the system banks can clearly and predictably identify the most effective paths to reaching their targets.

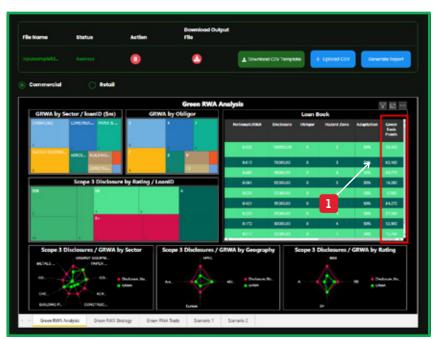
## Loan Pricing

Climate risk creates incremental capital requirements for the bank. The consequent capital and funding increases are converted into basis-point changes in loan spreads.

GreenCap™ provides comprehensive pricing models that compute spread changes at loan level scenarios.

Additional risk capital requirements are converted into a spread on each loan.

### **Loan Pricing Basis Point Report**



GREENCAP<sup>™</sup> enables banks' to price new loans, reprice existing ones and portfolios to incorporate climate risks and quantify establish 'green' premiums for loans that support their sustainability goals.

# **Intuitive System Design**

GreenCap™ is designed from the ground up as a secure cloud-based turnkey solution. The path from loanbook through climate scenarios to full

climate related risk analysis is mapped in Power BI dashboards for intuitive and best-in-class user experience.

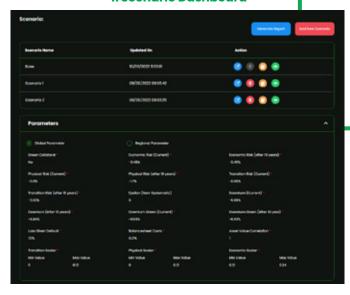
### 1. Upload CSV File



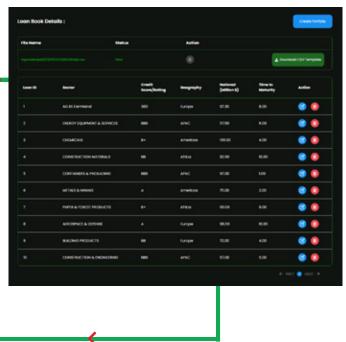
### 3. Target Change Dashboard



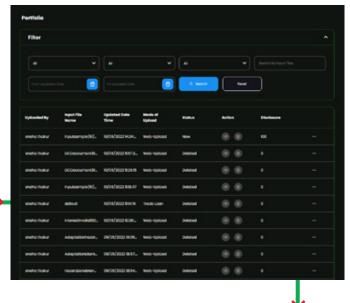
### 4. Scenario Dashboard



### 2. Loan Book Dashboard



### 5. Portfolio Dashboard



### 6. Settings Dashboard



# **GreenCap<sup>™</sup> Services**

We have built a system to assist banks in accurately and systematically classify climate risks and apply them to their loan portfolios along potential climate scenarios.

- Works with banks on methodologies to build climate scenarios.
- Conducts scenario design workshops to continually align and enhance system design and workflows.

 $\mathsf{GREENCAP}^{^\mathsf{TM}}$  has capacity to represent NGFS and local climate pathways.

Banks can add their own scenarios or modify those that are already populated. Our team also

 Builds additional parameters as requirements evolve.



GreenCap™ is committed to creating a global platform for financing sustainability over the foreseeable future.



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