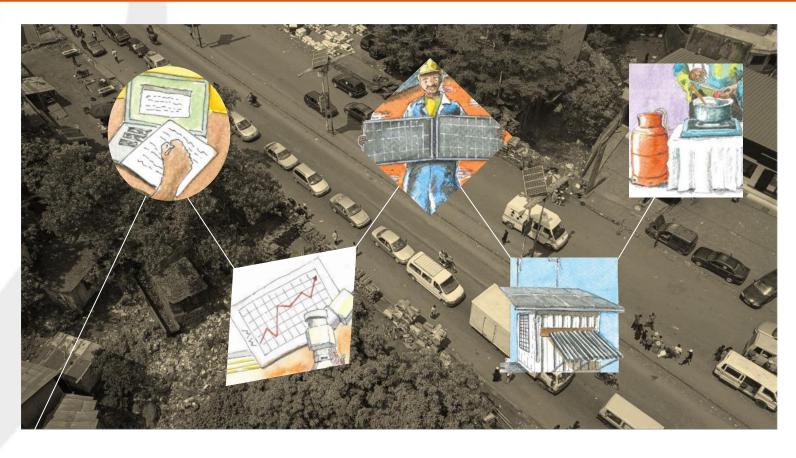


**WORKSHOP** 

16 November, 2023



# From Product to Impact:

Data Management in Green Inclusive Finance





# **Speakers**







Verónica Herrera

MiCrédito

Crecemos juntos!!!









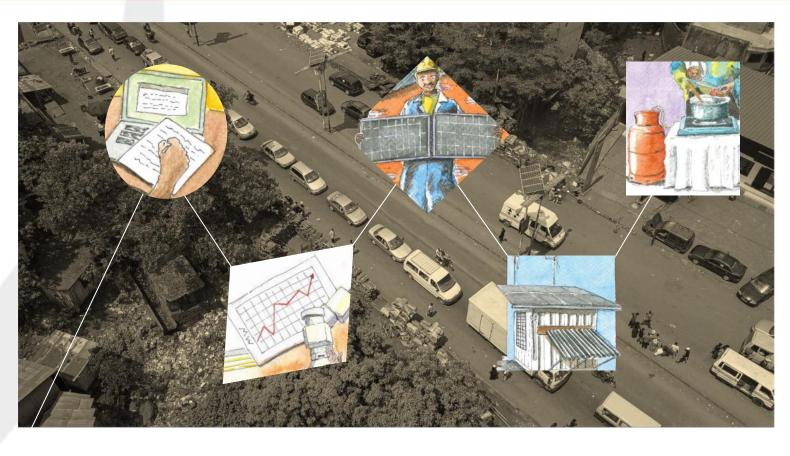
#### **AGENDA**

- Introduction to the Workshop
- Presentations Background
  - O HEDERA
  - O FUNDECOOPERACIÓN
  - O MICRÉDITO
  - O CGAP
- Stations' Discussion
- Wrap-up









# From Product to Impact:

Data Management in Green Inclusive Finance



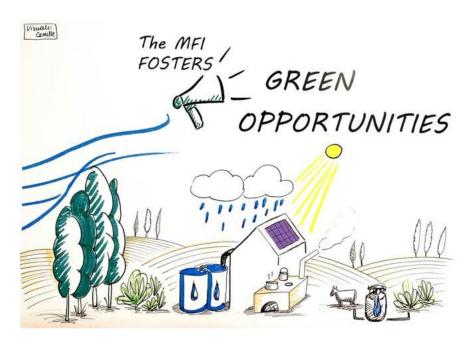


#### **Fostering GREEN INCLUSIVE FINANCE**

# Data-driven decision-making at MFIs

FIRST: Vulnerabilities identification











MICROFINANCE AS A
CHANNEL TO ENABLE
ACCESS TO CLEAN AND
MODERN TECHNOLOGIES

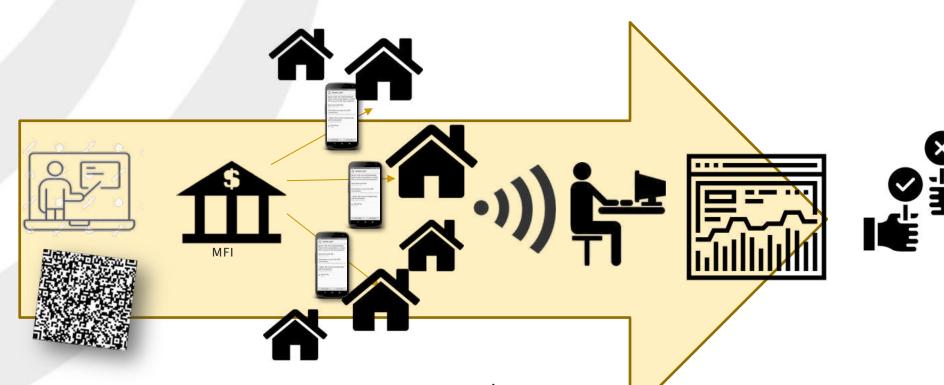
How to identify the technology or sustainable practice to finance?











1. Tools setup for MFI

2. Household/MSMEs data collection

**3.** Data analysis and visualization









# DATA COLLECTION & FRAMEWORKS





# **Frameworks**







Electricity supply
(households and
productive uses -MSMEs)
&
Cooking solutions



Drinking water, sanitation & hygiene at the household level





Food Insecurity
Experience Scale
at the household
level





# Cooking Solutions

#### **Electricity Supply**



ATTRIBL	JTES	TIER 0	TIER 1	TIER 2		TIER 4	TIER 5	
	Power capacity ratings	Less than 3 W	At least 3 W		At least 200 W	At least 800 W	At least 2 kW	Cook Expo
Capacity	(Wordaily Wh)	Less than 12 Wh	At least 12 Wh		At least 1 kWh	At least 34 kWh	At least 8.2 kWh	
Capacity	Services		Lighting of 1,000 lmhr per day					
A - N- b Wa -	Daily Availability	Less than 4 hours	At lea		At least 8 hours	At least 16 hours	At least 23 hours	
Availability*	Evening Availability	Less than 1 hour	At least 1 hour		At least 3 hours	At least	4 hours	Cook
Reliability		More than 14 dis	sruptions per week		At most 14 disruptions per week or At most 3 disruptions per week with total duration of more than 2 hours"	(>3 to 14 disruptions / week) or s 3 disruptions / week with > 2 hours of outage	At most 3 disruptions per week with total duration of less than 2 hours	Conv
Quality		Household expe	riences voltage pr	oblems that damage a	ppliances	Voltage problems use of desired ap	do not affect the pliances	Safet
Affordability					Cost of a standard of year is less than 5%			Prima Cook
Formality		No bill payment	s made for the use	of electricity		Bill is paid to the card seller, or aut representative		Affor
Health and Safety		Serious or fatal	accidents due to e	dectricity connection		Absence of past a	occidents	Fuel Avail

ATT	RIBUTES	TIER 0	TIER 1	TIER 2	TIER 3	TIER 4	TIER 5
	Emission: Fuet	Firewood, dung, briquette, charco	twigs, leaves, rice h oal, kerosene	nusks, processed b	iomass pellets or	Biogas, ethanol, high quality processed biomass pellets or briquettes	
Cooking	Emission: Stove Design	Three-stone fire, tripod, flat mud ring, traditional charcoal stove	Conventional or old generation ICS	ICS+ chimney, rocket stove or ICS + insulation	Rocket stove with high insulation or with chimney, advanced insulation charcoal stoves	Rocket stove with chimney (well sealed), Rocket Stove gasifier, Advanced secondary air charcoal stove, forced air	Electricity, solar, LPG
Exposure *	Ventilation: Volume of Kitchen <sup>5</sup>	Less than 5 m <sup>3</sup>	More than 5 m <sup>3</sup>	More than 10 m <sup>3</sup>	More than 20 m <sup>3</sup>	More than 40 m <sup>3</sup>	Open air
	Ventilation: Structure	No opening except for the door	1 window	More than 1 window	Significant openings (large openings below or above height of the door)	Veranda or a hood is used to extract the smoke	Open air
	Ventilation Level		Bad		Average	Goo	d
	Contact Time	More than 7.5 hours	Less than 7.5 hours	Less than 6 hours	Less than 4.5 hours	Less than 3 hours	Less than 1.5 hours
			Bad		Average	Goo	d
Cookstove Efficiency	ISO's Voluntary Performance Targets (TBC)	Less than 10%	More than 10%	More than 20%	More than 30%	More than 40%	More than 50%
Convenience	Fuel acquisition (through collection or purchase) and preparation time (hours per week)	More than 7 hou	rs	Less than 7 hours	Less than 3 hours	Less than 1.5 hours	Less than 0.5 hour
	Stove preparation time (minutes per meal)	More than 15 mi	nutes	Less than 15 minutes	Less than 10 minutes	Less than 5 minutes	Less than 2 minutes
Safety of Primary Cookstove		Serious accident	s over the past 12 n	No serious accidents over the past year			
Affordability d		Levelized cost of income	cooking solution (	Levelized cost of cooking solution (fuel) less than 5% of household income			
Fuel Availability		Primary fuel ava	ilable less than 80%	6 of the year		Primary fuel is readily available 80% of the year.	Primary fuel is readily available throughout the year









# Water, Sanitation & Hygiene (WASH)

Drinking Water

Service level	Definition
Safely managed	Drinking water from an improved water source which is located on premises, available when needed and free of faecal and priority chemical contamination
Basic	Drinking water from an improved source provided collection time is not more than 30 minutes for a roundtrip including queuing
Limited	Drinking water from an improved source where collection time exceeds over 30 minutes for a roundtrip to collect water, including queuing
Unimproved	Drinking water from an unprotected dug well or unprotected spring
No service	Drinking water collected directly from a river, dam, lake, pond, stream, canal or irrigation channel







Hygiene

#### BASIC

Availability of a handwashing facility on premises with soap and water

#### LIMITED

Availability of a handwashing facility on premises without soap and water

#### NO FACILITY

No handwashing facility on premises









#### SAFELY MANAGED

Use of improved facilities which are not shared with other households and where excreta are safely disposed in situ or transported and treated off-site

#### BASIC

Use of improved facilities which are not shared with other households

#### LIMITED

Use of improved facilities shared between two or more households

#### UNIMPROVED

Use of pit latrines without a slab or platform, hanging latrines or bucket latrines

#### OPEN DEFECATION

Disposal of human faeces in fields, forests, bushes, open bodies of water, beaches and other open spaces or with solid waste









# FOOD INSECURITY EXPERIENCE SCALE (FIES)



- 1. You were worried you would not have enough food to eat?
- 2. You were unable to eat healthy and nutritious food?
- 3. You ate only a few kinds of foods?
- 4. You had to skip a meal?
- 5. You ate less than you thought you should?
- 6. Your household ran out of food?
- 7. You were hungry but did not eat?
- 8. You went without eating for a whole day?

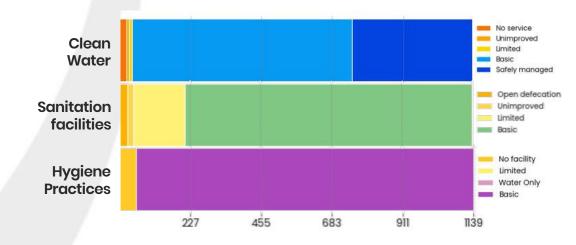






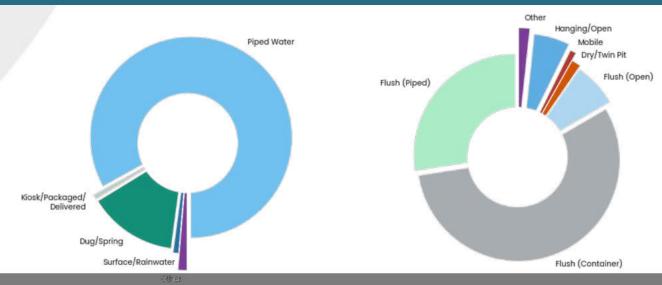


#### WASH/JMP Service Ladder for Households



#### Drinking water source

#### **Sanitation facilities**









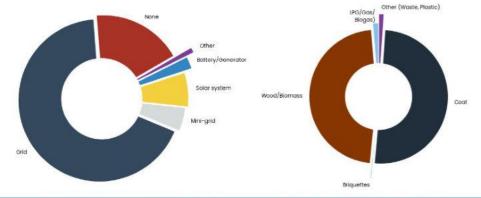


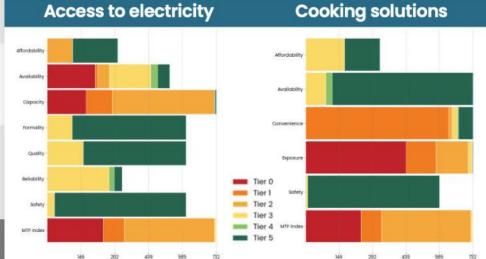




🆚 HEDERA **Example** 

#### **Cooking fuels Power sources**



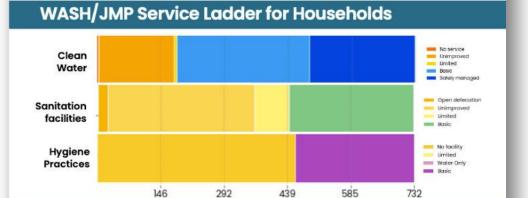




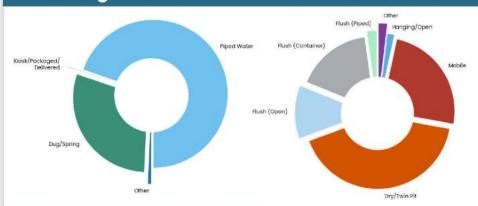
#### **Entrepreneurs du Monde - FANSOTO**



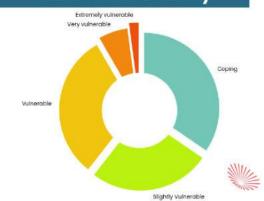








#### **Health Vulnerability**











About Energy Access







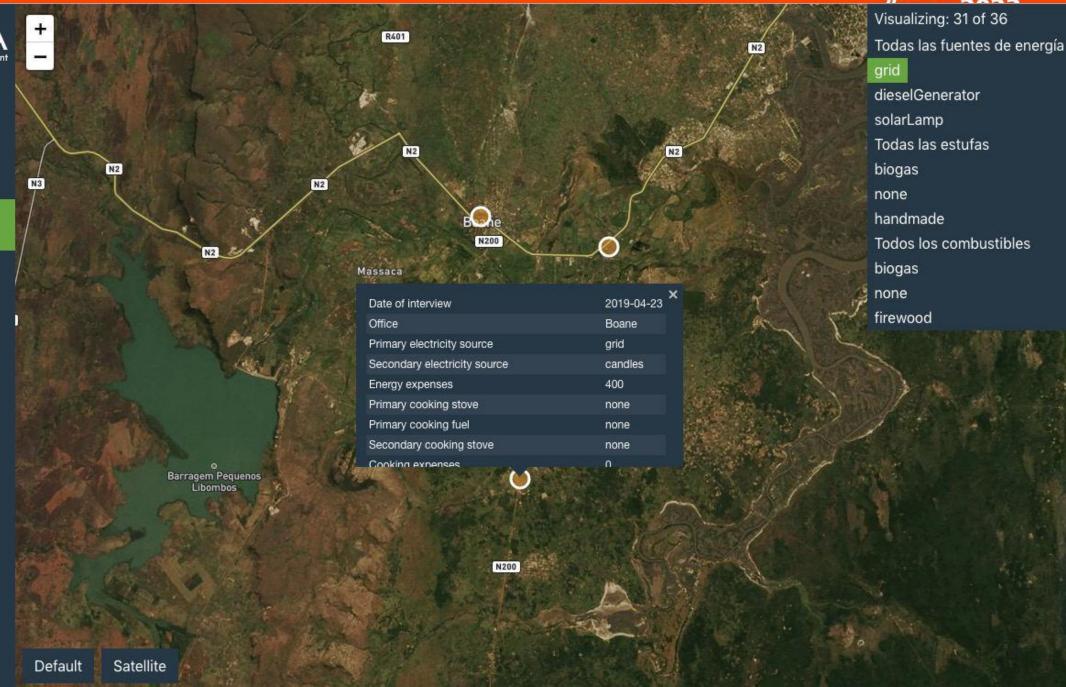
Cooking solutions



≜ ■ My Institution

Logout

25/5/2019 11:23:30







#### Welcome to your energy access dashboard







Indicators



Cooking solutions

? FAQ

**≜** My Institution

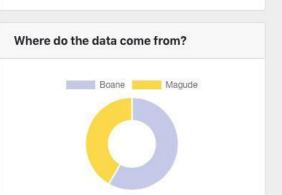
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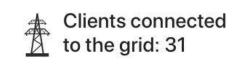
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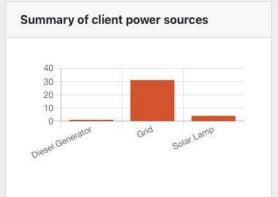
See https://fontawesome.com/license

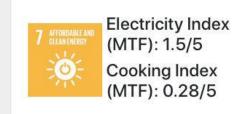


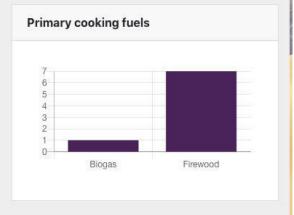
Surveys: 36





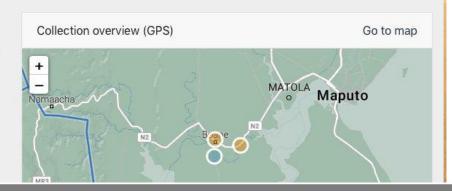






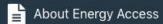


Office	Date of first collection	Date of last collection	Total number of surveys
Total	2019-04-01	2019-05-11	36
Boane	2019-04-01	2019-05-02	21
Magude	2019-04-01	2019-05-11	15











Electricity





**≜** My Institution



24/5/2019 18:45:06

#### Multi-Tier Framework: Access to electricity

Background: How to measure access to electricity

The MTF approach measures energy access provided by any technology or fuel based on seven attributes that capture key characteristics of the energy supply that affect the user experience: Capacity, Availability, Reliability, Quality, Affordability, Legality, and Health and Safety.

Based on those attributes, it then defines six tiers of access, ranging from Tier 0 (no access) to Tier 5 (full access) along a continuum of improvement.

al Providencia Ospina SantaCruz Ca

Carmen



















# From Product to Impact:

Data Management in Green Inclusive Finance







Sustainable Development Goals of Agenda 2030.

We have the support of national and international organizations thanks to our institutional, financial, and environmental stability. We have inter-institutional and inter-sectoral alliances that we offer to our clients with financing, training, advice, and participation in sustainable development projects.





We work to improve the socio-productive, environmental, and gender conditions of the population in Costa Rica, allowing for environmentally respectful economic and social development through financing for entrepreneurs and business owners

**Our Mision** 



#### **Our vision is**



Our vision is to be the leader in Costa Rica in financing sustainable development projects that generate positive impact for environmentally respectful economic and social development





- Projects, non-reimbursable funds from international cooperation or private companies, for innovation, knowledge generation, piloting.
- Customized Credit, the option for individuals and micro-businesses in need of accessible and flexible financing that understands the specificities of each activity or business

As an organization specializing in sustainable development, climate actions, and credits for sustainable micro-businesses, at Fundecooperación, we have two engines to execute our mission and create synergy between both areas...

#### Some of our products include:



**Investment Loans:** Finance the purchase of land, acquisition, construction, remodeling or repair of infrastructure, purchase of equipment or machinery, work vehicles and assets, and construction of commercial, agricultural, industrial or service facilities.

Line of Credit: Working capital for labor, raw materials, assets, bonuses, short-term investments, and other actions necessary for business operations.

**Tier Two Banking:** Loans to other financial institutions and cooperatives, which include reimbursable financing among their services and promote sustainable development.

**Green City Loans:** Urban agriculture, green areas, green architecture, green city, eco-design, productive chains, and sustainable tourism.

Responsible and Adapted Fishing Credit: Implement transformative actions for the medium- and small-scale fishing fleet.

#### **PRO+CLIMA Agricultural Credit:**

Implement climate actions on farms and in agricultural activities.

PRO+CLIMA Livestock Credit: Implement climate actions on cattle farms, to increase the availability of water and food, to better farm conditions, and to improve animal health, among others.

Mujeres Natura Credit: Promote women's business and economic participation in environmental issues, with differentiated conditions: biodiversity management, the purchase of specialized and efficient equipment or machinery, working capital, improvements to infrastructure and processes, or final products.

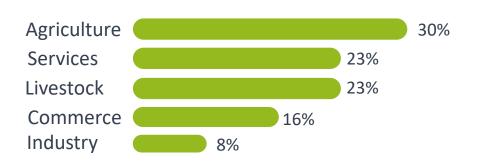
# Our loan program during the last 8 years

# 20 USD million

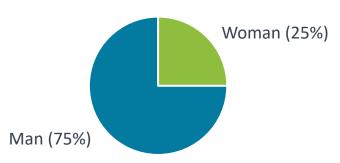
Approved loans and credit lines

# 40 USD million

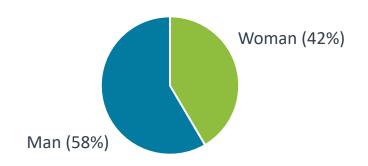
Amount disbursed







#### **Total borrowers**



+1.000

Clients

#### **Total amount**

70% Micro

30%

**SMEs** 

#### **Total borrowers**

**90%** Micro

Our sustainability approach

Climate risk assessment (Agroclimática) Business model transformation

Business opportunities

Financial education: record-keeping notebook, best practices, training, etc.



Support in technical and financial aspects to develop the investment plan for financing

Field days, weather information, webinars, technical assistance \*App coming soon

Technical assistance and information

**Loans** for adaptation measures

Flexible payment schemes, guarantees, mixed collateral.

# agreclimatica

Climate risk

Soil risk

Technical risk (Livestock or crop risk)

#### **Climate Risk Assesment**



#### agreclimatica RISK SCORE





Riesgo climático

Alto

Se presenta un riesgo alto de estrés climático, principalmente debido a la precipitación y humedad relativa. El área seleccionada está expuesta a riesgos de seguía.

- La temperatura media es 20.6 °C y la oscilación media entre máximas y mínimas es de 5.8 °C.
- Humedad relativa media 79%.
- · La precipitación acumulada es de 3440 4205 mm y la distribución temporal es regular.
- La elevación del sitio está en un rango entre 1201 1250 m.s.n.m.



Riesgo de suelo

Medio

Se identifica que existen restricciones de suelo moderadas para el desarrollo adecuado del cultivo, principalmente por textura y pendiente.

- · La vocación del suelo es AGRICOLA, con textura arcilloso, presenta un drenaje interno excelente y fertilidad aparente
- · La pendiente es de 21-25%.
- Grado de erosión fuerte.
- · La profundidad del suelo es alta y es mayor a 100 cm.
- · Riesgo de deslizamiento de laderas medio.

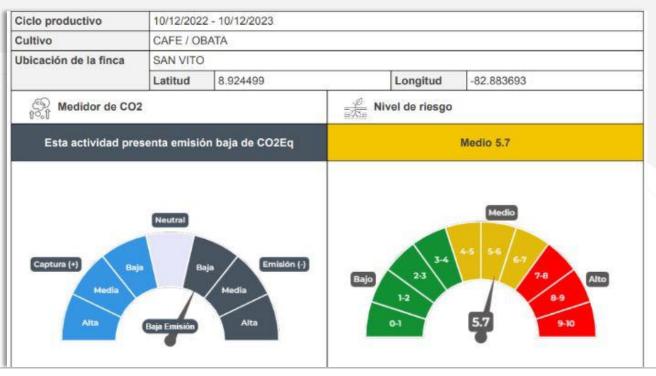


Riesgo de cultivo

Bajo

No existen restricciones significativas que limiten el desarrollo adecuado del cultivo y sus buenos rendimientos.

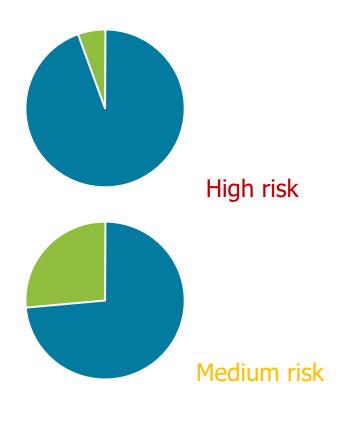
- · La variedad de CAFE es OBATA.
- · El área a sembrar es de 10.50 Ha.
- La tenencia de la tierra es propia.
- La experiencia del productor/a es alta (Más de 5 años).
- · La categoría de la semilla es certificada (Comprada en casa comercial, vivero, etc).
- La variedad del cultivo es de ciclo largo (15 años).
- El rendimiento potencial de la variedad seleccionada es alto.
- La probabilidad de aparición de plagas y enfermedades es alto.
- Sistema de Riego: No existente.
- Manejo del cultivo: Tecnificado.
- · Se aplican medidas para el control de plagas y enfermedades.





#### **Adaptation actions**

Only 6% of producers with high climate risk had implemented measures before obtaining the credit

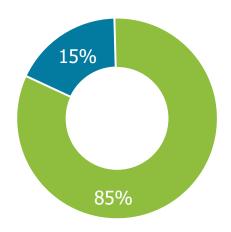


With adaptation measures

Without adaptation measures

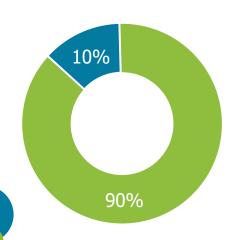


# **Agriculture**



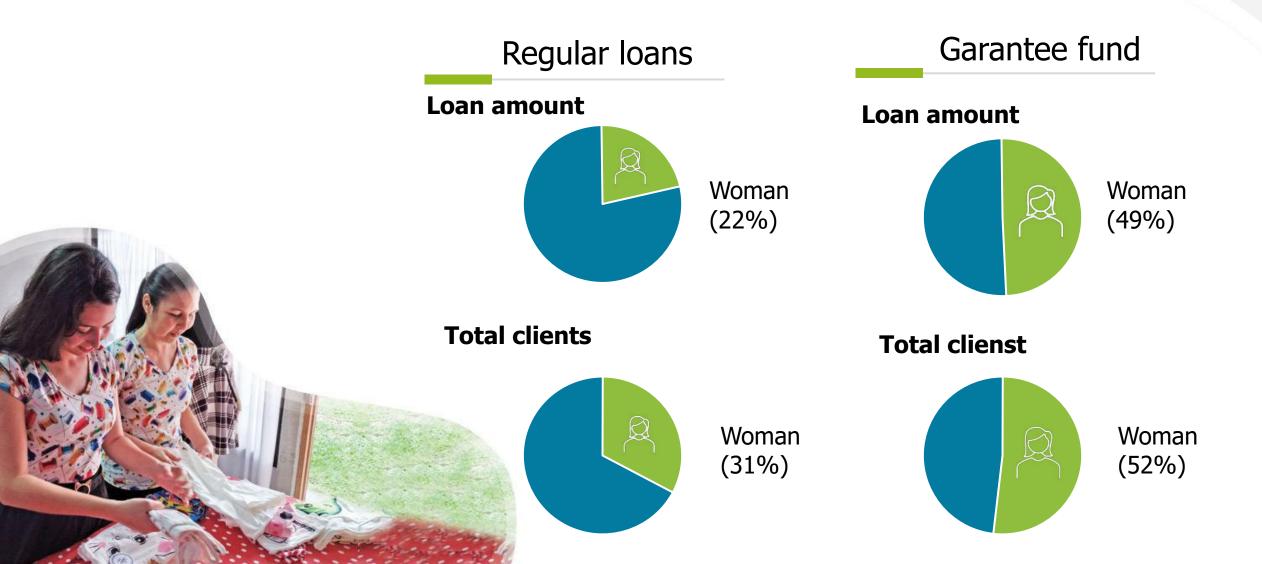
**85%** of our active clients in the **agricultural sector** implement practices such as drip irrigation, living fences, organic fertilizers, soil conditioning, rainwater harvesting, crop diversification, water reservoir, composting, and waste management, etc.

### **Livestock and fishing**



**90%** of our active clients in the **livestock and fishing sector** implement practices such as forage pastures; protection of water sources; rainwater reservoir, rotational grazing, silage, responsible fishing techniques.; respect for fishing bans, up-to-date permits, etc.

# **Guarantee fund to reduce gender gaps**





# Permita que apoyemos su actividad productiva



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www.fundecooperacion.org



@Fundecooperacion





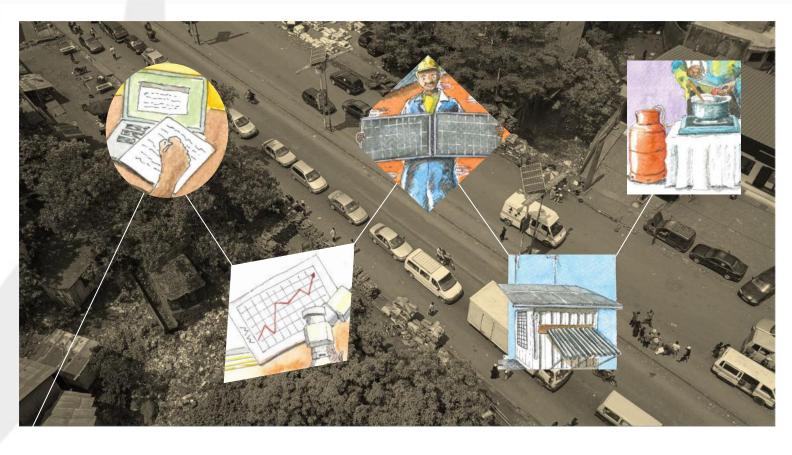


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# From Product to Impact:

Data Management in Green Inclusive Finance

























#### Recognitions









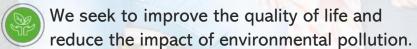


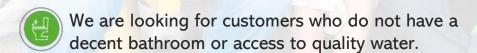


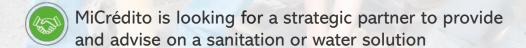














The client and his family get a sanitary battery and drinking water.



Positive impacts on the environment, such as: reducing contamination of the aquifer, rivers, lagoons and other water sources.







We establish strategies based on the SDGs



Achieving our environmental objectives



We design loans with a high social impact



Environmental policies are created



We perform monitoring and reporting



Staff and customer training



Environmental activities: garbage collection, tree planting, etc.



Alliances with relevant stakeholders in potable water, sanitation and clean energy such as: BID, Water For People, AMEC, CentroSmart, Plastitank, Cewas, Tecnosol, Solubrite

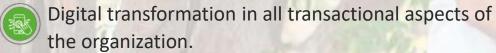


Communication campaign









We have a staff committed to protecting the environment.

Cloud data storage

Digital meetings and presentations



Communication campaigns to motivate to reduce, recycle, and reuse



Solar panel installation projects



Installation of water filters in the offices for responsible water consumption.













## Thank You!











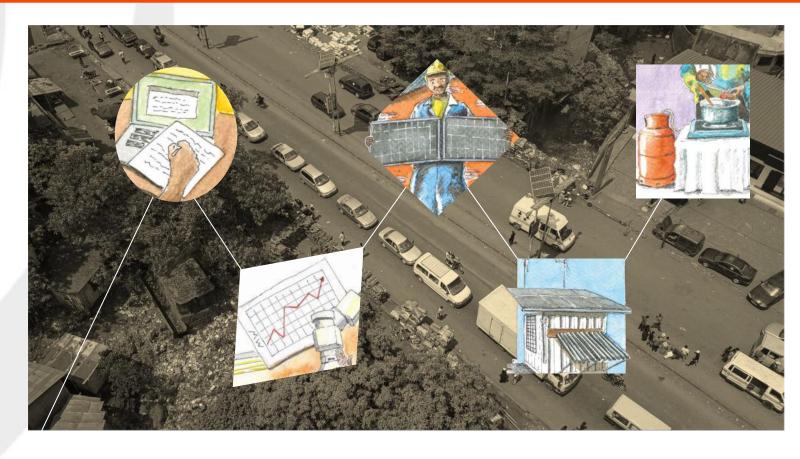












## From Product to Impact:

Data Management in Green Inclusive Finance





# **European Microfinance Week**From Product to Impact

**Michel Hanouch** 

Senior Financial Sector Specialist

### The business case complications

- Most products are subscale partly because of the diversity of customer needs. Where on the spectrum between tailored to flexible, will we find the value scale balance?
- Balance between affordability and impact, particularly evident in the insurance discussion

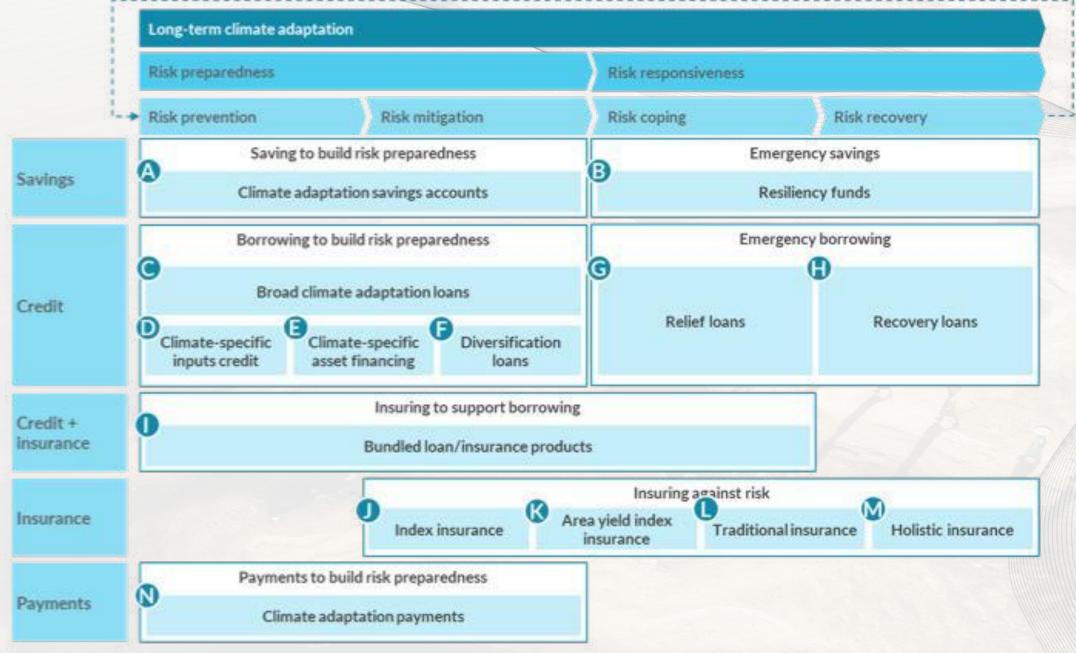
Risk (3rd party); survey; Tx; staff; location; competitor; other?

- Climate solutions are often complex or new to inclusive FSPs and their customers and require TA
- Partnerships are essential -TA, service providers, government (subsidy, training), donors, funders, other FSPs

TA providers, solution providers, funders, govt departments (others?) with aligned incentives

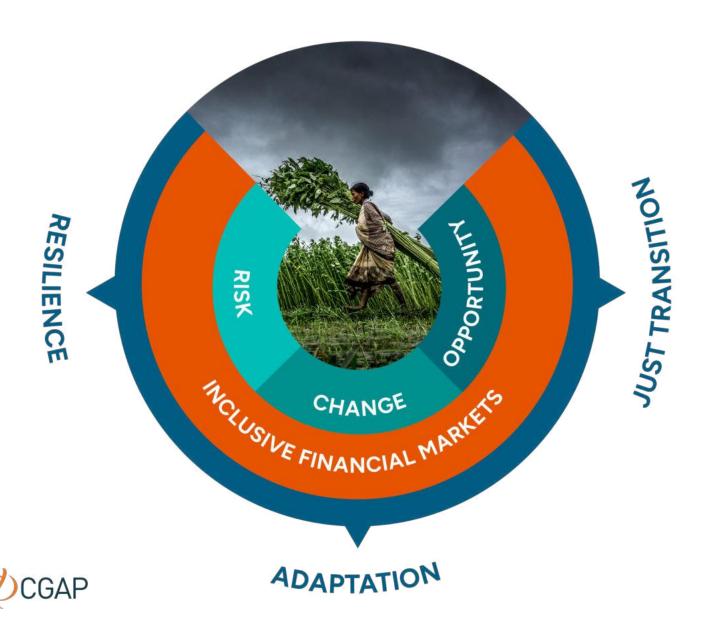


**External subsidy is often required**, but complicated by lack of clear definitions of resilient and adaptive products





## You can't solve for climate change without financial inclusion



Climate change impacts the lives of the poor in ways that bring risks and change as well as new opportunities for development.

CGAP sees financial inclusion playing a role across this continuum, enabling poor people to pursue the responses they see fit.

Resilience, adaptation, and a just transition all require an inclusive financial system.

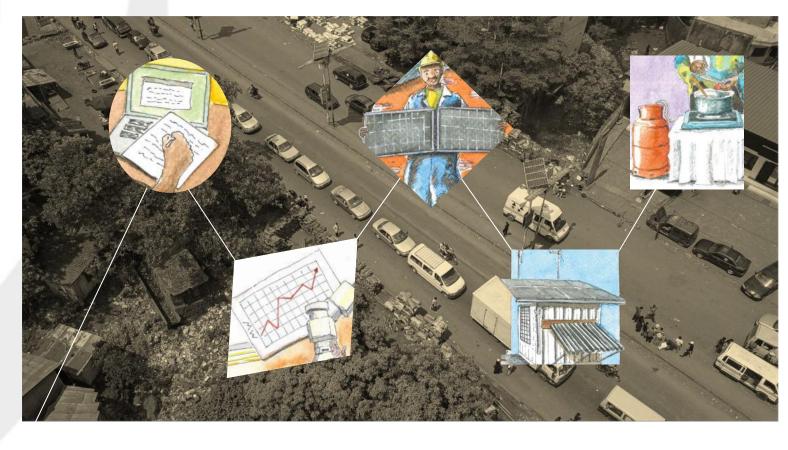
# ©CGAP Thank you

To learn more, please visit cgap.org

Connect with us on these social channels:







**DISCUSSION** 

## From Product to Impact:

Data Management in Green Inclusive Finance











Green Product





objectives & regulations



Risk & Impact Management

Metrics, monitoring investment



Green Product

Design, taxonomies & needs assessment



#### 10 MIN each station



Environmental Strategy Objectives & regulations



Risk & Impact
Management
Metrics, monitoring,
investment



Green Product

Design, taxonomies & needs assessment















Verónica Herrera

MiCrédito

Crecemos juntos!!!





GROUP 1 GROUP 2 GROUP 3





■Give us your feedback ©

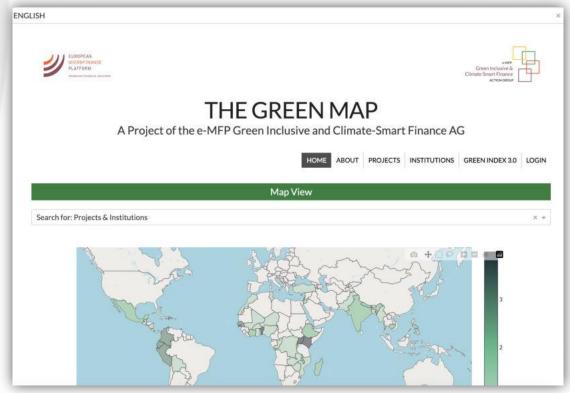




#### **LEARN FROM OTHER INSTITUTIONS:**

The Green Map











https://e-mfp-green-map.hedera.online/





#### KEEP LEARNING: TRAINING IN GREEN INCLUSIVE FINANCE IN ENGLISH/SPANISH/FRENCH

e-mfp.eu/gicsf-trainings-workshops











#### Training on Green Inclusive Finance in English, en español, en français

The e-MFP Green Inclusive and Climate-Smart Finance Action Group is happy to provide a full training on Green Inclusive Finance to all its members and the sector at large. The training is organized in modules according to the topics. With the support of the Government of the Grand Duchy of Luxembourg, the GICSF-AG has been reviewing the modules, translating them to French and Spanish and producing audio-visual training materials that you can find here below.

Access to the structure and content of the training in English, en español, en français

Find below the introduction videos for each module as well as the training materials in English / en español / en français;



Module 1: Introduction to green inclusive finance Introduction video & Training material in English

Module 1: Introduction à la finance verte inclusive Vidéo d'introduction et Matériel de formation en français

Módulo 1: Introducción a las finanzas verdes inclusivas Video de introducción y Material de formación en español



Module 4: Assessment & management of negative environmental impacts Introduction video & Training material in English

Module 4: Évaluation et gestion des impacts négatifs sur l'environnement



Module 2: Green strategy Introduction video & Training material in English

Module 2: Stratégie verte

Vidéo d'introduction et Matériel de formation en français

Módulo 2: Estrategia verde

Video de introducción y Material de formación en español



Module 5.1: Green loans for clean energy/efficiency Introduction video & Training material in English

Module 5.1: Introduction aux crédits verts pour l'énergie propre et l'efficacité énergétique

Vidéo d'introduction et Matériel de formation en français



Module 3: Assessment & management of vulnerabilities Introduction video & Training material in English

Module 3: Évaluation et gestion des vulnérabilités Vidéo d'introduction et Matériel de formation en français

Módulo 3: Evaluación y gestión de vulnerabilidades Video de introducción y Material de formación en español



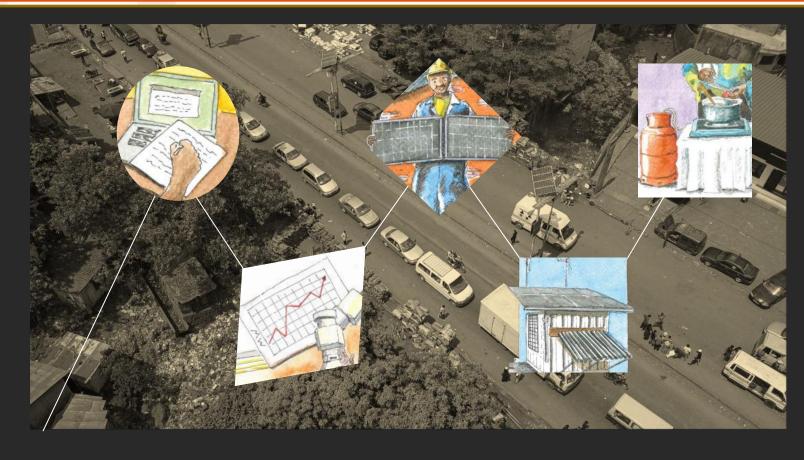
Module 5.2: Green loans for sustainable agriculture & CC adaptation

Introduction video & Training material in English

Module 5.2: Crédits verts pour l'agriculture durable et l'adaptation au changement climatique

https://www.e-mfp.eu/gicsftrainings-workshops





THANK YOU'!

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