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Measuring microfinance impact: A practitioner perspective and working methodology

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Measuring microfinance impact: A practitioner perspective and working methodology

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Preface

The EIF supports Europe's SMEs - including microenterprises - by improving their access to finance through a wide range of selected financial intermediaries. To this end, the EIF primarily designs, promotes and implements equity and debt financial instruments which specifically target SMEs. In this role, the EIF fosters EU objectives in support of entrepreneurship, growth, innovation, research and development, and employment.

Against this background, to assess the effects of the support - *the Impact Assessment* - is an important topic for EIF, and a focus area of EIF's Research & Market Analysis. Many analyses in the field of SME guarantees and Venture Capital have already been published.¹

Regarding microfinance in Europe, EIF has been involved since 2000, providing funding (equity and loans), guarantees and technical assistance to a broad range of financial intermediaries, from small non-bank financial institutions to well established microfinance banks to make microfinance a fully-fledged segment of the European financial sector. The EIF has become an important pillar of this segment in Europe, by managing specific initiatives mandated by the European Commission, the EIB, and other third parties, as well as by setting up operations using own resources.

The Working Paper, presented here, results from a research project on "Measuring Microfinance Impact in the EU. Policy recommendations for Financial and Social Inclusion" (Memi), initiated by EIF. The aim of this project is to contribute to the debate whether microfinance is able to deliver the expected impact in terms of financial and social inclusion. This part of the project is funded by the EIB Institute under the EIB-University Research Sponsorship (EIBURS).

EIBURS is an integral part of the Knowledge Programme (one of the three flagship programmes of the Institute); this programme aims to provide support, mainly through grants or sponsorship, to higher education and research activities. EIBURS supports universities and research centres working on research topics and themes of major interest to the EIB Group. EIB bursaries, of up to EUR 100,000 per year for a period of three years, are awarded through a competitive process to university departments or research centres associated with universities in the EU, Accession or Acceding Countries.

This particular Working Paper "**Measuring microfinance impact: A practitioner perspective and working methodology**" conducted by Microfinanza is expected to be followed by other papers resulting from the Memi project.

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¹ See: https://www.eif.org/news_centre/research/index.htm.

Abstract

This paper introduces the concepts of impact, impact analysis/assessment and management, outlining the differences between assessment and evaluation, and highlighting their growing importance among the international and European communities.

The second part presents underlying reasons for undertaking this research, introducing the methodology designed and adopted by Microfinanza which relies on indicators concerning the three dimensions, i.e. economic, social and environmental.

Thirdly, two case studies are presented in order to better explain and practically implement the theoretical framework prefaced in the first part. They are not real-life cases, but they do show how the set of indicators should be applied in two different scenarios. One represents its adoption by a Microfinance Institution (MFI), presenting the impact assessment on financial supply side which aims at understanding how financial institutions could apply this aspect into their daily work. The second one, which is an impact assessment of a financial education activity, displays how the set of indicators could be used for evaluating impact assessment of specific activities.

Lastly, the paper outlines the importance of impact assessment and the future steps, underscoring the growing importance of this practice at different levels and for different stakeholders.

Table of contents



1	<i>Introduction to impact and impact assessment</i>	1
1.1	Impact assessment and the theory of change.....	1
2	<i>Methodology and data collection</i>	3
2.1	Methodology	4
2.2	Data collection	7
3	<i>Case 1: Applying the set of indicators to an MFI – Impact assessment from supply side</i> 8	
3.1	Who is your target? Which goals would you like to achieve?.....	8
3.2	Select or develop indicators.....	8
3.3	Update or adjust the MIS.....	9
3.4	Organize data collection as an embedded procedure	9
3.5	Analyse data.....	9
3.6	Work out reporting.....	10
4	<i>Case 2: Evaluating the impact of a financial education activity</i>	12
5	<i>Conclusions</i>	16
5.1	Why has impact assessment become so important?	16
5.2	Impact and sustainability	16
	<i>References</i>	18
	<i>About</i>	19
	... <i>the European Investment Fund</i>	19
	... <i>EIF's Research & Market Analysis</i>	19
	... <i>this Working Paper series</i>	19
	<i>EIF Working Papers</i>	20

1 Introduction to impact and impact assessment

Impact is defined as “a powerful effect that something, especially something new, has on a situation or person” (Cambridge Dictionary, 2019). Since the 2000s, its measurement has become a priority for both public and private organizations, independently from their vision and mission statements. The word “impact” has come to different meanings and nuances: for example, many investors talk about “impact investing”, whereas social actors refer to “social impact” and “social change”. Moreover, the urgent need of finding solutions to climate change has pushed the international community to focus on the environmental dimension widely defined as environmental sustainability. Thus, impact measurement, i.e. being able to quantify and measure medium- and long-term impact of our interventions, is a top priority regardless of the different meanings we give to this term.

The measuring of impact is important as impact can be both positive and negative, on a certain person, a community, a situation or an environment. In order to study the impact, we distinguish between two types of evaluation:

1. Impact **assessment ex ante** &
2. Impact **assessment ex post**.

According to the OECD (OECD Directorate for Science, Technology and Innovation, 2014), impact analysis is “part of the needs analysis and planning activity of the policy cycle”, taking into consideration what the impact of an intervention could have or be, and is used to inform the policymakers. Therefore, this analysis is an *ex-ante* evaluation. On the other side, impact assessment is “part of the evaluation and management activity of the policy cycle” and is conducted *ex post*. However, we can say that impact assessment and analysis can be used as synonyms. Furthermore, the hereby paper focuses only on assessment.

In sum, we can say that the main difference between *ex ante* and *ex post assessments* is the different time perspective: the first is prospective, meaning that it is conducted in the first phases of project or program when planning the interventions to be executed, whereas *ex-post* assessment is retrospective and *ongoing* as it focuses on the consequences of the interventions.

1.1 Impact assessment and the theory of change

Impact assessment is inherently linked to the **Theory of Change** (ToC). According to the Center for the Theory of Change, it is “essentially a comprehensive description and illustration of how and why a desired change is expected to happen in a particular context. [...] It does this by first identifying the desired long-term goals and then works back from these to identify all the conditions (outcomes) that must be in place (and how these related to one another casually) for the goals to occur.” (Center for Theory of Change, s.d.) Following this definition, we need to identify an Outcome Framework which provides the basis for all following activities and interventions – it is fundamental to start from the outcome in order to have a broader and clearer picture of the entire sequence chain (from propaedeutic activities, identification of inputs, and actions, to impact). A ToC also helps to identify the underlying assumptions and risks and it is vital to understand and revisit throughout the process to ensure that the approach contributes to the desired change.

The ToC framework has gained the attention of international agencies, organizations and aid workers as it goes a step further than the well-established Logical Framework. However, as this paper

is not dedicated to different project evaluation approaches in an international development context, we do not go deeper into the topic, but only give a glimpse. In brief, the theory of change starts from the desired change (impact) and investigates the activities and/or intervention that could lead to it.

Briefly, here are the main parts of the theory of change (or “results chain”):

- i) **Input.** The first element necessary to set up activities and interventions
- ii) **Activities or interventions.** Actions undertaken to carry out a task
- iii) **Outputs.** The results of the activities, which can be improved capacities, capabilities, skills, systems, policies; they can also be tangible elements such as something built, created or repaired
- iv) **Outcomes.** A further level of result which can be understood as the effect resulting after a short/medium period. Outcomes can hardly be controlled, as opposed to outputs
- v) **Impact.** The ultimate level of result, both positive and negative, primary and secondary effects produced by intervention, in a direct or indirect way, and intended or unintended. It is the effect of policy measures, and tends to be more abstract.

What is the relationship between theory of change and impact assessment?

- As theory of change looks for social change, impact assessment is a useful tool to identify data which need to be collected/gathered and to find out indicators for output, outcome and impact in a short/medium- and long-term perspective.
- The ToC lays out the “long chain of cause-effect relations” and acknowledges the complexity of development and change processes (Gerard & Saskia, 2015). All these elements can be traced back to the impact assessment which aims at describing and measuring the changes occurred along the chain.

In other words, impact assessment is a framework which helps us to study and verify whether an expected outcome or impact will occur, analysing the activities identified in the Theory of Change. It is important to clarify that, in some cases, for operational reasons and for the sake of effectiveness, it is only possible to focus on outcome assessment, instead of considering impact assessment.

2 Methodology and data collection

As stated in the previous section, impact assessment is crucial to demonstrate the effectiveness of an intervention, both financial and non-financial. In the last years, Microfinanza has developed a methodology which involves three dimensions, Economic, Social and Environmental, and a set of indicators retrieved from different sources and from own elaboration, based on the long international field experience in different contexts. In this working paper, we will focus on microfinance interventions at European level.

It is important to note that impact assessment needs to be as precise as possible and requires a restricted framework, answering to:

- **What** kind of impact we aim to investigate;
- **Whom** the impact concerns;
- **How** the impact manifests;
- **When** the impact materializes.

The following sections present the method used by Microfinanza in order to answer those questions.

Before proceeding, it is important to emphasize the link between impact assessment and microfinance. In fact, if we consider social and environmental dimensions, microfinance may have a positive social impact or may generate positive externalities, but we need to learn how to measure and capture them. To do so, Microfinanza launched a study in 2019 (Microfinanza Srl, 2019), in order to stimulate debate inside and outside the microfinance industry. The pioneering and ambitious study was focused on the link between impact and indicators, the latest referred to Social Development Goals (SDGs) as well. SDGs can be defined as “urgent call for action [...] in a global partnership” (United Nations, s.d.) and has gained worldwide attention at different levels. SDGs aim at “eradicating poverty in all its forms and dimensions, including extreme poverty” (United Nations, 2015), being committed in achieving sustainable development in different dimensions – Economic, Environmental, Social and Governance. The Agenda 2030 is based on principles and purposes of the Charter of the United Nations, including full respect for international laws, on Universal Declaration of Human Rights, on Millennium Declaration and on 2005 World Summit Outcome. It is important to highlight that the dimensions are deeply related one to the other, in order to reach a sustainable development: the authors of this paper believe that economic development cannot ignore the **scarcity** or non-reproducibility of natural resources and factors, especially water, and the **necessity** of starting a responsible action towards nature.

The underlying reasons that have led to this Agenda are above others the extreme poverty billions of individuals suffer from, and the lasting inequalities, including gender ones. Therefore, the links between SDGs, impact assessment and microfinance are clear: the latter is a tool through which deprived individuals can try to escape from the poverty trap, being financially and socially included. However, the microfinance sector is strongly in need to demonstrate benefits of financial and social inclusion and whether access to finance may improve incomes, capacities, empowerment, well-being and opportunities of clients served by the different financial institutions (Microfinanza Srl, 2019). The broad nature of financial inclusion requires the adoption of a holistic approach, considering several dimensions related to the social, economic and environmental capital, which is why the methodology suggested by the company focuses on these three dimensions responding to the triple bottom line.

Moreover, we have been investigating the meaning and importance of financial and non-financial services through the analysis of the above-presented dimensions and capitals, and by focusing on five key categories of stakeholders such as clients, microfinance providers, investors, public institutions and donors and intervention community.

In fact, a set of indicators must be established in order to monitor and analyse the loan portfolio and credit history of the client. The proposed set of indicators should be consequently embedded in the MFI data collection procedures and become standardized, in order to enable the production of reports, for internal and external use.

2.1 Methodology

The hereby presented methodology is an approach suggested by Microfinanza based on its multi-year experience inside and outside Europe in socially and economically different contexts.

WHAT

To circumscribe the impact, we do consider three different **dimensions**: Economic, Social and Environmental.

Firstly, the **economic** dimension represents the capacity to satisfy essential needs for individuals and groups of individuals through the creation of economic added value. It is the most viable dimension to study and to deepen as it is composed of figures and numbers. Secondly, the **social** dimension concerns values, norms, roles and rules, and influences the human behavior. Sustainable social dimension can be related to the concept of quality of life of individuals, groups and communities which does not necessarily correspond to a high level of economic status. It is also characterized by the presence of positive, neutral and negative externalities caused by human action. Lastly, the **environmental** dimension represents all those elements such as activities, products and services which interact with the environment. It deals with the fragility of ecological and biophysical systems and their interactions. It is characterized by the presence of negative externalities having a negative impact on the environment. In this context, the word *environment* is to be understood in its natural and ecological sense and not as the external context surrounding a given situation.

WHO






Once the dimensions are identified, we need to clearly define the **stakeholders**, who have a twofold dimension of “interest”, meaning that they are interested because of the results of the impact assessment, but also interested because they are affected by it. In particular, in the context of the impact assessment of microcredit program, five stakeholders can be identified:

- i) **Client**
- ii) **Microfinance provider**
- iii) **Intervention community**
- iv) **Investors**
- v) **Public institutions and donors**

At the European level, we talk about microfinance providers (MFPs) and not only microfinance institutions (MFIs) as financial actors are very diverse across Europe. In fact, besides commercial banks targeting general Small and Medium Enterprises (SMEs) lending, we can find profit-oriented

and non-profit associations such as banks (both private and state-owned), non-bank financial institutions (NBFIs), microfinance associations, credit unions, cooperatives, government bodies, religious institutions and Non-Governmental Organisations (NGOs) (Kramer-Eis, Botsari, Gvetadze, Lang, & Torfs, 2019). They provide microloans up to 25,000² to microenterprises, to social economy enterprises, to individuals wishing to become self-employed, or to unemployed (Kraemer-Eis & Conforti, 2009).

Here is a summary of stakeholders and their positioning:

Dimensions and capitals	Economic					
	Social					
	Environmental					
Stakeholders						
	Clients	Microfinance Providers	Intervention community	Investors	Public Institutions and Donors	
Positioning	Client micro level	Market level	Meso Level	Meso and Macro Level	Meso-Macro Level	

HOW

As previously mentioned, to measure the impact, the hereby paper will introduce a set of indicators all meeting the following criteria:

1. **Stability:** a good indicator should be used throughout the whole analysis
2. **Comparability:** a good indicator should be useful to compare data across different institutions, projects, programs and situations
3. **Functionality, specificity and measurability:** a good indicator should be feasible to construct (in terms of financial means, data collection and timing).

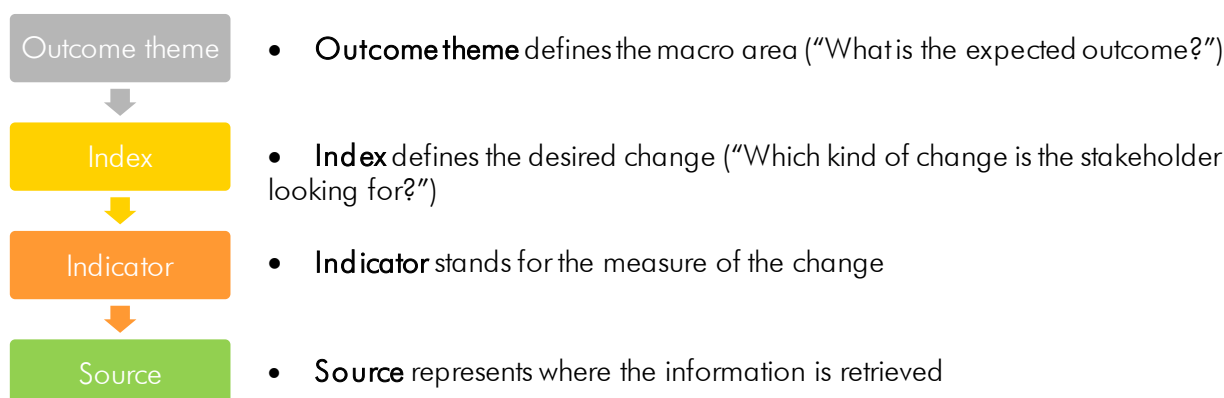
The indicators are related to the three dimensions and refer also to the SDGs. They are both quantitative and qualitative and refer primarily to an index ("synthetic index") which is then associated to an outcome.

² As a consequence of COVID-19 pandemic, in Italy the limit was raised to EUR 40,000 according to art. 49 of Italian National Law n. 18 dated 17/03/2020.

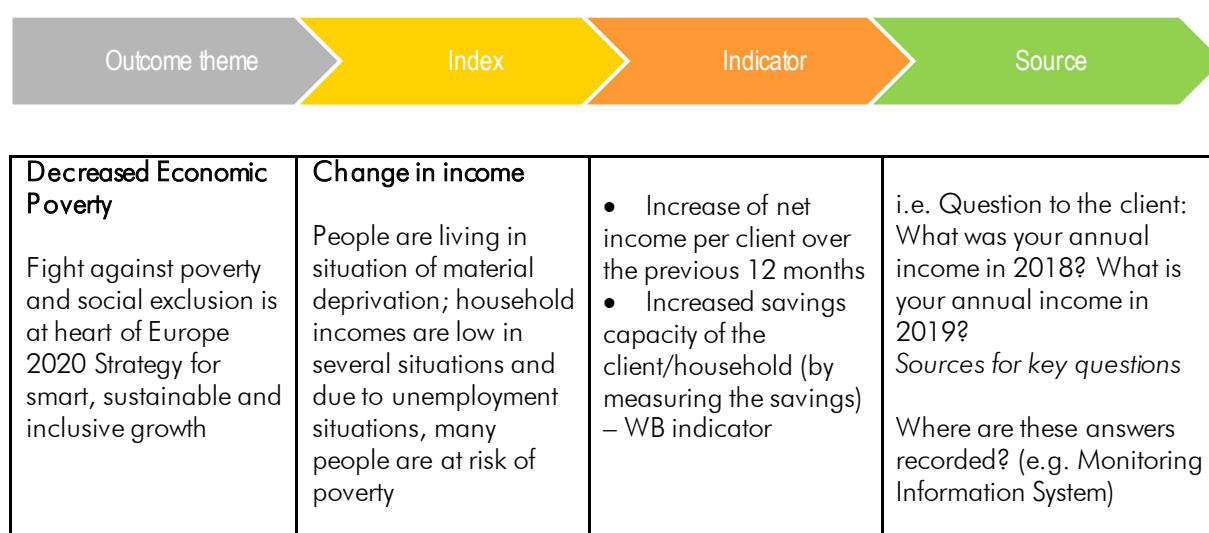
In the European and microcredit framework, impact assessment follows this path:

- Identifying the target and goals to be achieved, analysing vision, mission and values of the MCP;
- Selecting and developing indicators;
- Updating or adjusting Monitoring Information System (MIS);
- Organizing data collection as embedded procedure;
- Analysing data and working out the reporting.

The hierarchy of analysis is the following:



As an example, here follows the scheme functioning for the economic dimension:



As seen above, the outcome theme is “Decreased Economic Poverty”, to which one possible index, “Change in income”, is associated to which two indicators are mentioned, i.e. “Increase of net income per client over previous 12 months” and “Increased savings capacity of the client”. This second indicator is retrieved from the World Bank: indicators are designed by Microfinanza or by international organizations, such as United Nations (UN) Agencies or the World Bank (WB). The last key question concerns where the information can be found and recorded; ideally it should be gathered by the financial institutions and inputted in the Monitoring Information System (MIS); according to the suggested approach, the impact assessment working plan should define from the beginning where information can be found and should be archived.

2.2 Data collection

Microfinanza strongly believes that **MIS** and its use should have a **central role** when studying and analysing microfinance impact. Nowadays, the technology available in most of the financial institutions would allow to support data collection and entry processes on a daily basis into MIS; data could be further analysed according to the selected set of indicators and desirable changes that stakeholders would like to follow through a systematic tracking of changes against the progression of time.

Firstly, we do underline that the proposed methodology can be used as complementary to other assessments. As a matter of fact, it is important to mention that our methodology can be a part of the overall approach to measure impact and sustainability. Quantitative and qualitative data assessment should be included as well to get a broader and more complete analysis of the impact of a certain activity, project or program. We do recognize that indicators are an easier tool to make different data set more comparable, but they are partial.

Secondly, data collection implies the launch of specific interviews and questionnaires as well as Focus Group Discussions (FGDs) with the target population in order to gather all data that cannot be retrieved from international and national statistics. In the following paragraphs, practical examples of data collection are presented and applied to two different cases.

Lastly, it is important that relevant stakeholders are involved in design, conception, test, validation and definition of set of indicators, so that all values and concerns are included and considered.

3 Case 1 : Applying the set of indicators to an MFI – Impact assessment from supply side

The hereby presented methodology can be applied to both supply and demand side of financial and non-financial services. As explained in the previous paragraphs, the current study presents an example of indicators that can be used to measure medium- and long-term impact inside MFIs, considering different perceptions. In the following chapter we explore the supply side, and the set of indicators is applied to an MFI and its MIS. What we aim to present is a step-by-step approach for an effective impact assessment. We do underline that it should be **an embedded procedure** in the MIS, and that indicators should be **adapted** to different stakeholders, more specifically to their vision and mission.

3.1 Who is your target? Which goals would you like to achieve?

The stakeholder looking for changes, i.e. outcome and impact measurement, should clearly identify its target and goals to achieve as well as required and desired kind of changes according to the three suggested dimensions: the Economic, the Social and the Environmental ones. These latter should be further interrelated and linked in order to promote progressive and positive changes at different levels. As a matter of fact, a positive change at the economic level should be capable to produce positive effects also at social level without having a negative impact (or, to express it in economic terms, without having a negative externality) on the environment. According to the approach suggested by Microfinanza, it is not enough to measure 'the number of jobs created, or the economic activities supported' as the other two dimensions, social and environmental, must be explored as well. A few questions must be considered, such as whether these jobs and economic activities are positively contributing to changes at household level or at community level, whether the social cohesion has improved, if the economic activities are environmentally sustainable in terms of proper use of natural resources and waste reduction. Once the target is clearly known and goals well identified, an appropriate set of indicators is defined and worked out according to changes to be measured in the short, medium- and long-term timeframe. It is thus important to set the target and goals to be achieved through the impact assessment in order to ask the right questions and to define the right data collection methodology.

3.2 Select or develop indicators

Microcredit Providers, donors, investors and public institutions usually use their own set of indicators to measure changes across programs and project they support or to simply monitor if funds are efficiently used.

Financial institutions are increasingly focusing on their financial and social performances, in line with international best practices and procedures. However, despite the potential data being significant, few indicators are used and the signs of change are hardly graspable. It is not always clear what to measure, whether the measurement of processes is useful and how it can be used internally or externally for analysing results of ongoing activities and guiding decision-making processes, as well as serving reporting, communication or visibility purposes.

Consequently, the suggested methodology shall be used to identify a set of stable, comparable, operable, specific and measurable indicators (about 10 to 15), covering the three dimensions.

Starting from the systematized ones provided by different authoritative source and by those suggested, indicators should be identified according to stakeholders' own measurement purposes. Selected indicators should be further linked to SDGs and their monitoring framework.

Finally, selected indicators should be used to regularly capture and monitor changes against the progression of time; a data collection plan should be embedded in the MFI working procedures and the MIS should be used as a data collection tool.

A synthetic or a macro-indicator (such as the Social Return on Investment – SROI, that will be presented in an upcoming paper as part of the Memi project) may be key to ensure an adequate level of comparability. Nevertheless, in this case, it is necessary to clarify which are the assessment and weighting criteria used in the construction of the indicator: the more an indicator is useful and easy to communicate, the more it is important to understand how it is build up.

3.3 Update or adjust the MIS

Each Microcredit Provider has a specific MIS to manage account systems, portfolio and to track mainly financial performance through a set of financial indicators. An increasing number of financial institutions is chasing also social indicators according to internationally recognized social performance best practices and procedures endorsed by the microfinance industry. At MIS level, inputs (data) and outputs (reports) shall be linked, too. To measure the selected set of outcomes, input must be the most appropriate to measure expected changes. The work must be based on an adequate collection of data at the source to ensure that the same data can then feed the analysis of the outcomes according to the selected indicators. The MIS is the “core” of data management and is used for different reporting purposes at Microcredit Provider (MCP) level, for regulators, donors, partners and stakeholders. From our experience, we can say that MIS and data stored are often underused and given the huge amount of data collected at field level by the staff and the technology, available outcomes measurement are largely improvable. A few refining might be needed at software level.

3.4 Organize data collection as an embedded procedure

The work must be based on an adequate collection of data at the source to ensure that the relevant and correct data can then feed the analysis of the outcomes according to the selected indicators. An internal data collection plan and related procedures should be defined and known by the staff which will then follow the process. The data must be regularly collected and enter the MIS for subsequent processing. It is key to anticipate the data that will enable the measurement of selected indicators.

3.5 Analyse data

Data collected according to a work plan and regularly inputted in the MIS will feed the outcomes analysis according to a previously selected set of indicators. Data analysis according to impact measurement objective should be an embedded practice allowing to have a clear understanding on outcomes related to the three dimensions: Economic, Social and Environmental. According to data analysis it will be possible to have a critical thinking on results achieved and to analyse data more in detail. Data will feed the set of indicators which will be adapted to the institution's mission and vision. The steady availability of data with respect of its work objectives will facilitate the decision-

making process by the Board of Directors, the external communication – towards partner and donors – and will improve visibility with respect to community.

3.6 Work out reporting

The impact assessment should be used to steer and systematically analyse changes incurred at client and community level in the Economic, Social and Environmental dimensions. Reports can be a time-consuming exercise if data are not constantly collected and managed, but certainly reports are relevant to every stakeholder and for internal decision-making process. Reporting can be used as a way to present MFI to external stakeholders as well as for internal communication.

OUTCOME THEME: EMPLOYMENT PROGRESS	OUTCOME THEME: BUILD FINANCIAL WELL-BEING, RESILIENCE AND ACCESS TO FINANCE	OUTCOME THEME: ENVIRONMENTAL SUSTAINABILITY
Synthetic index: JOB CREATION	Synthetic index: FINANCIAL ACCESS	Synthetic index: IMPACT OF ECONOMIC ACTIVITY ON THE ENVIRONMENT
No. of employment units created as a result of the financial support provided by the institution, still working	Reduction in financial stress	Decrease of use of natural resource
Increase in employment of youth (aged 15-24 years) not in education, employment or training	Greater satisfaction with financial situation	Reduction in waste production
Increase of personal income (or average hourly earnings) of the employment units created as a result of the financial support provided by the institution, still working	Reduced amount of time spent managing financial matters	% of businesses having enhanced material recyclability
Increase of skills level of the employment units created as a result of the financial support provided by the institution, still working	Increased financial stability (self-perceived resilience): 1. Perception that financial situation is the same or better than a year ago, 2. Expectation that financial situation will be the same or better next year)	Decrease in waste generation and achievement of environmentally sound management procedures for chemicals
Increase of formal employment in non-agriculture employment	Achievement of a financial goal	Decrease in energy use

SUSTAINABLE DEVELOPMENT GOALS FOR EACH DIMENSION



According to this approach, in the following pages an example of a set of indicators is provided for a microcredit provider having the following mission: “Promoting employment, support and accompany micro-entrepreneurs, support financial education, promote transition to formal sector and promote social solidarity economy”. This data measurement is mainly based on data that can

be accessible from the MIS or loan officers reporting documents; these last can be easily integrated in the MFI's MIS and the institution should just adjust the system in order to track also few new data. For some areas of analysis, information should be specifically collected, such as data to monitor if social and environmental outcomes are missing and a specific monitoring culture should be developed on these areas.

Given the importance of job creation in Europe, this set of indicators includes also a “bang for the buck” marker focusing on cost-benefit analysis. The “bang for the buck” provides an estimation on the cost per unit of employment created considering the overall financial support provided to financial institution.

In the table above, the three dimensions are listed and some SDGs are associated to each of them. For each dimension a few indicators are presented and data should be collected for three periods, covering one year (the period to assess medium-term impact assessment).

4 Case 2: Evaluating the impact of a financial education activity

While in the previous chapter the set of indicators was applied to the supply side, in the following paragraphs we consider an application example to the demand side. The selected case is a financial education activity and practical directions are included.

a) Defining sampling strategy

Sampling definition is important in order to collect trustworthy data which are representative of the universe of beneficiaries benefitting from financial education activities. When selecting the sampling, it is necessary to respect, for example, the gender and age distribution, as a way to use the stratification methodology.

b) Defining questions and indicators

Starting from the Theory of Change, we need to focus on a first sample of indicators among the three different dimensions. Firstly, the choice of indicators needs to focus on objectives to be reached, especially impact assessment of financial education and financial inclusion of our target.

Secondly, we need to define a baseline which identifies the level of competences and knowledge of the target on budgeting, inflows and outflows management, business planning and its management. The baseline needs to be conceived and built by defining the initial date (t_0) whereas the end line represents the final date (t_1 , t_2 , etc.). We need to consider benchmarks at national level in order to enable a first comparison and to interpret correctly collected data.

When talking about non-financial services, especially financial education, impact assessment on the economic dimension is easy to predict. As a matter of fact, being able to manage one's own resources has directly consequences on personal finance and business.

Concerning the choice of outcome theme and indices, the three outcomes identified by Microfinanza are:

1. Decreasing of economic poverty
2. Business development
3. Employment progress

To each outcome theme, different synthetic indexes capturing many aspects of economic dimension are associated:

- a. Change in revenues
- b. Change at household economy level
- c. Increase of household level
- d. Change in business

However, financial education is an activity which does not concern only the economic sphere; the social one as well as non-financial services are usually linked to the increase of personal competences.

When talking about the **social dimension**, one of the outcomes identified by Microfinanza is the construction and consolidation of well-being, of resilience and of financial access. This outcome is composed as follow:

1. Financial well-being
2. Financial resilience
3. Access to credit

Main themes and activities are inflows and outflows recording and budgeting, savings management, debt management, access to formal financial services, and entrepreneurship.

Following the Theory of Change, the baseline is formed by the following input: financial resources, competences, knowledge, attitudes and behaviors.

Before any kind of assessment, *ex-ante* objectives need to be defined according to the target by giving a percentage to each index. For instance, needs and behaviors of a relatively young target group are different from needs and behaviors of an older target.

Once the objectives of the assessment are clear, we need to identify the indicators and/or benchmarks for each input category as per activity or main theme. These indicators will be then useful to create and build the questionnaire.

For example:

Input	<i>Financial resources</i>	<i>Knowledge</i>	<i>Competences</i>	<i>Attitudes</i>	<i>Behaviors</i>
Activity	Budgeting and inflows/outflows recording				
Indicator	Monthly / annual revenue	Budget components	Keeping track of money inflows/outflows	Creating a savings plan	Keeping track of expenses in a regular manner
Question	<i>Which is the monthly/annual revenue at time N?</i>	<i>Which are the budget components?</i>	<i>Do you track the money you earn and the money you spend?</i>	<i>Do you use a savings plan?</i>	<i>Do you regularly keep track of every expense?</i>

Subsequently, we need to consider one of the outcomes linked to the social dimension, for example the construction of financial well-being, of financial resilience and access to credit, divided into synthetic indices:

Outcome	Construction of financial well-being, of financial resilience and access to credit		
Synthetic index	Financial well-being has increased	Financial resilience has increased	Access to credit has increased
Indicators	Stress reduction	Being able to face emergency/unforeseen expenses	Use of another financial product proposed by the MFI
Question	<i>Has the stress decreased if compared to t_N-1?</i>	<i>If you need to spend money for an emergency, are you able to pay it?</i>	<i>Have you recently started to benefit from another financial product and/or could you increase the amount requested to MFI?</i>

In the same way, the **environmental dimension** can be analyzed as well.

c) Defining and conceiving the questionnaire

The first question concerns the **change**: in the frame of an impact assessment of financial education, one possible question is: "Has the financial education training session been a determining factor in the success of a business and in the improvement of life conditions?". Secondly, **follow-up questions** to clarify, verify and complement the main question, such as "How much did the person save in the year N? How much did he/she save in the year N+1? Did changes and improvements in life conditions occurred in the years N and N+1? Were improvement at household level done?". Those questions need to refer to the three dimensions considered. Finally, the baseline is a first evaluation of the target and it allows to measure the initial level of many aspects related to the three dimensions; the end line is an evaluation after a specific period of time (one year for a short-term outcome, two years for a mid-term outcome, and four years for a long-term outcome).

d) Test with Focus Group Discussions (FGDs) & Control and application of the questionnaire (if the case, translation from English/French to local languages)

The test with a sample of beneficiaries is necessary in order to understand the efficiency and the coherence of the questionnaire elaborated in a first phase.

e) Training of Trainers on financial education and impact assessment

During a financial education training, it is important that knowledge and competences are transferred to local staff.

f) Other discussion groups in parallel for continuing to test the efficacy and relevance of the questionnaire

Additional open discussions with target groups and individuals might be organized to further collect data and test the efficiency of the data collection methods and the clarity of the questionnaire.

g) Data entry in an Excel sheet or into another analysis tool & data analysis

An Excel sheet as well as other tools should be used to input and analyse data and to make figures comparable and understandable overtime. Data analysis depends on the type of questions that were asked to the beneficiaries. In fact, as stated by Greet (Greet, 2014), descriptive questions require methods involving quantitative and qualitative data; casual questions require a research design which can address attribution and contribution; finally, evaluative questions require strategies that can synthetize and be applied to the evaluative criteria.

5 Conclusions

5.1 Why has impact assessment become so important?

According to Hearn and Buffet (Hearn & Buffard, 2016; Authors, 2018), there are many economic and political factors which have led to a growing interest for the topic of impact assessment in the last twenty years. They state that a possible explanation is the reduction of financial resources available for international development programs, provided by donors and agencies – and consequently the need for justifying the use of those financial resources; another reason might be the fact that in international development projects and programs, “welfarism” has somehow failed to alleviate poverty, and social and financial exclusion; therefore, there has been a growing need of being able to state and clarify how money was spent.

Another possible reason could be the need to overcome the mere assessment of interventions from the economic point of view. In fact, a vast and broad literature was produced in the last years, stating that other dimensions need to be taken into consideration, such as the social and the environmental ones. In this sense, evaluating the external determinants which are not taken into account by the market becomes a key element.

5.2 Impact and sustainability

Impact assessment is a transversal topic which can be related to many others such as sustainability. In fact, as stated in the comprehensive work “Sustainability: A Comprehensive Foundation” (Theis & Tomkin, 2015), “sustainability indicators are needed to improve our understanding of the nature of human demands on ecosystems and the extent to which these can be modified”. Impact assessment can also be useful to make this understanding easier and more comprehensive.

Furthermore, impact assessment can be helpful for the stakeholders who need to give evidence and transparency of their actions and performances, not necessarily economic, but environmental, social and governance. For instance, at European level, in 2016 a High-Level Technical Expert Group (HLTEG) on sustainable finance was created with the specific aim to elaborate a common European strategy on sustainable and green finance. One of the objectives of this HLTEG is to improve transparency concerning societal communication: in fact, private entities are not required to communicate only about financial information, but also non-financial. It is then clear that impact assessment and its communication towards internal and external stakeholders are important.³

In this sense, impact assessment may become one of the major and key topics in the following years. As Ursula von der Leyen, President at the European Commission states, even in times of crisis (i.e. COVID-19), “the political necessity is as strong as it was before the crisis, because climate change and global warming did not stop – they will keep on going. So, to fight it is in our own interest if we do not want to pay heavily for the costs of non-action”. It is clearly necessary to “kick-start our economies and drive our recovery towards a more resilient, green and digital Europe”. For this reason, we need to promote a new paradigm, in which productivity, environment, stability and social rights are ensured, interconnected and disseminated. In the following years, we will witness a transition towards a new idea of sustainable finance, with capitals dedicated to sustainable

³ For more information see: https://ec.europa.eu/info/business-economy-euro/banking-and-finance/sustainable-finance_de#hleg.

investments, sustainability integrated in the internal risk management system, and a promotion of the transparency and compliance, together with a long-term vision and strategy.

In all likelihood, private actors and entities will be prompted to become more and more familiar with non-financial information on their social and environmental impact disclosures (all the more considering the legal requirements and outlooks related to the EU Directive 2014/95).

Impact measurement, its analysis and management, will become a key component in reporting comparable and reliable non-financial information. Moreover, a sufficiently structured scheme may be essential to face complexity and avoid unnecessary costs related to reporting non-financial information.

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