SETTING UP AN EFFECTIVE MONITORING AND EVALUATION SYSTEM

Summary



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REPUBLIKA HKAIISAInalnoga Ministarstvo regionalnoga menoja i fondova Europske unije





This brief presents a summary of findings and recommendations presented in the report "Analysis of Theory of Change and Results Framework" (World Bank 2020). The report presents key findings and recommendations related to monitoring and evaluation (M&E) across STI support programs and provides guidance on applying a systematic approach in future M&E framework design and revisions. The report also contains 42 program-specific reports, each with a Theory of Change describing the potential mechanisms of impacts, a Results Framework proposing revised indicators in line with the Theory of Change, and key findings and recommendations on strengthening the M&E system of that particular program.

IMPROVING THE M&E SYSTEM FOR STI SUPPORT PROGRAMS



An explicit Theory of Change can help develop a coherent program logic

A Theory of Change is a visual or narrative representation of the intervention logic. It illustrates the logical connection between inputs that are invested into the project (such as funding, human resources, and time), activities (or project interventions), and expected outputs of such activities, which together are expected to generate shortterm and longer-term outcomes.

Unless required by donors or partners, STI programs in Croatia were not designed using an explicit Theory of Change. This means that the underlying logic and causal connections between the different elements of the intervention were not always clear. A Theory of Change has been developed for each program in program-specific reports based on available information and documentation. These should be taken as a starting point and should evolve over time as programs are refined.

Each element of the intervention logic should be associated with indicators based on CART principles¹

Programs define indicators for project reporting purposes, and most of them are set at output level. Indicator definitions are missing or incomplete in many cases. Other monitoring systems (such as S3 monitoring framework) define a different set of similar indicators which are often not harmonized with indicators at program level. The methods of collection and verification of data, targets, and deadlines for their achievement are missing for many indicators. Finally, no program defines process indicators, which would help to capture the operational performance of the programs.

The M&E system is not merely a dry bureaucratic construct

A robust and reliable M&E framework is a precondition for understanding the effectiveness of support programs. The information resulting from M&E enables policymakers to assess the effectiveness of programs, therefore informing decisions on whether the program should be replicated in the future, adapted or discontinued.

¹ CART principles are as follows: Credible – by collecting high quality data and analyzing the data accurately; Actionable – in that there is commitment to act on the data collected, Responsible – in ensuring the benefits of data collection outweigh the costs, and Transportable – so that collected data can generate knowledge for other programs.

WHAT CAN EACH INSTITUTION DO BETTER?



Ministry of Science and Education

- The indicators used to monitor programs should be expanded to capture all elements of the intervention logic (as specified in program-level reports).
- More information could be collected through surveys in the post-implementation period.
- Verification sources should be more clearly defined.

Ministry of Economy, Entrepreneurship and Crafts²

- Follow-up surveys with beneficiaries and target groups should be conducted to complement existing reporting on outputs and outcomes.
- Indicators that are not specific to implemented project activities (such as number of enterprises supported, etc.) should be tracked internally by program managers and should not be included in reporting requirements towards beneficiaries.

Croatian Science Foundation

- Indicators should be harmonized across different programs in order to track portfolio performance as a whole.
- Program managers could consider explicitly listing indicators and verification sources in the call document, together with objectives that they correspond to.

Other institutions

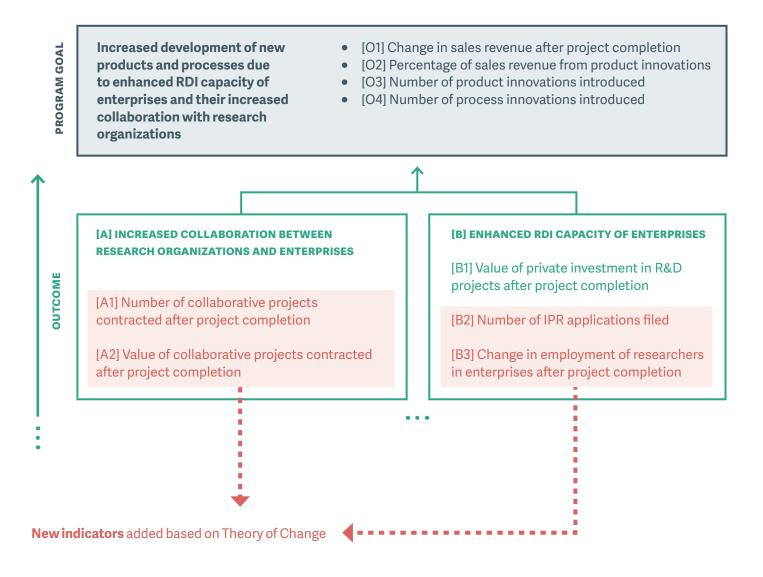
- Programs implemented in cooperation with international partners (such as Eureka, Eurostars, B-Light, etc.) have a complex monitoring system, which should be simplified to reduce the reporting burden on beneficiaries.
- Ensure that the common indicators proposed in the Results Framework follow the same definitions and verification sources to ensure transportability and credibility of information generated, particularly when aggregating across programs that are envisaged to contribute to achievement of common indicators on a strategic level (such as S3).

² At the time of the preparation of the report, the Ministry of Economy, Entrepreneurship and Crafts ceased to operate and the tasks within the scope of its authority were taken over in July 2020 by the newly established Ministry of Economy and Sustainable Development.

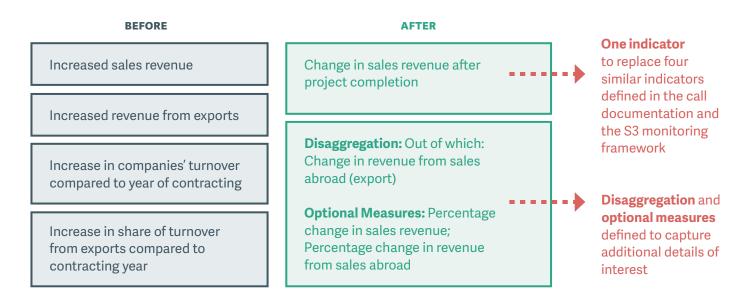
INDICATOR-LEVEL RECOMMENDATIONS



New indicators were added to fill the gaps revealed by explicitly developed Theory of Change



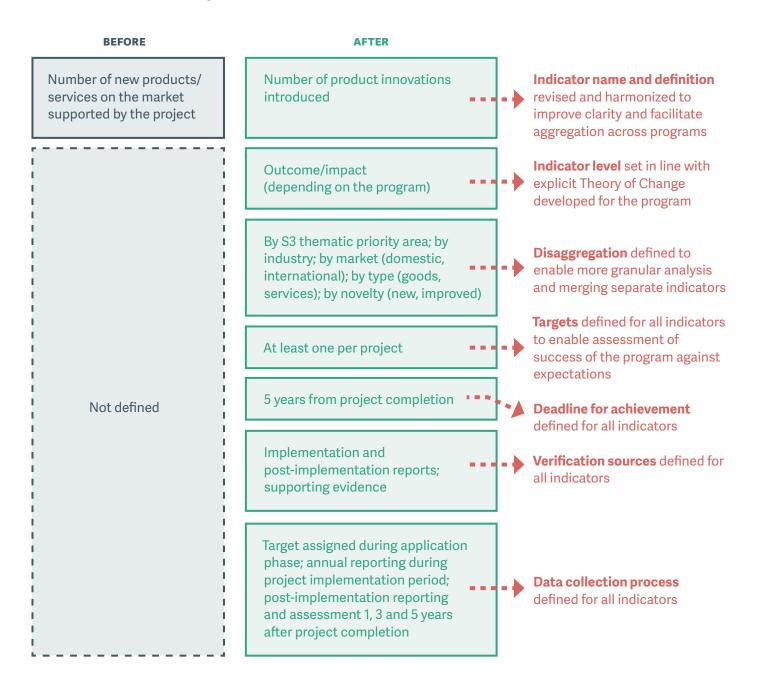
Some indicators were combined to streamline the results framework and ensure comparability



Process indicators were added to measure the operational performance of each program

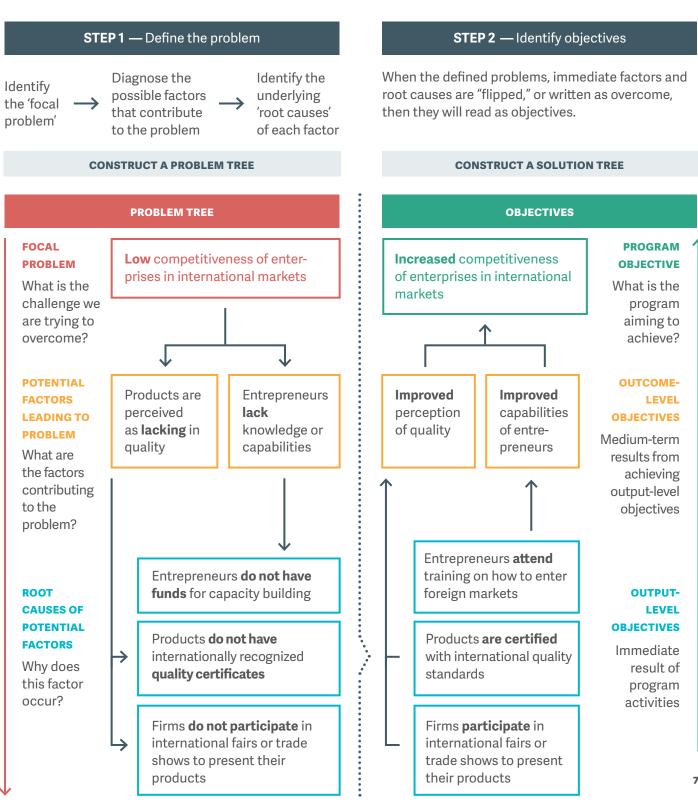
GRANT AWARD RATE	Number of contracts awarded/Number of proposals received
PROJECT AWARD DELAYS	Days elapsed between publishing call for proposals and awarding contracts
PROJECT COMPLETION RATE	Number of projects successfully finished/Number of contracts awarded
DISBURSEMENT RATE	Amount disbursed/Amount allocated for grants
FINANCIAL CORRECTION RATE	Amount withdrawn/Amount of grants disbursed
VALUE OF FUNDS DISBURSED	Total funds disbursed to the beneficiaries from the program
NUMBER OF APPLICANTS AWARDED FUNDS	Number of applicants who were awarded funds from the program

Existing indicators were revised and assigned a specification of indicator level, disaggregation, targets, deadline for achievement, verification sources and data collection process



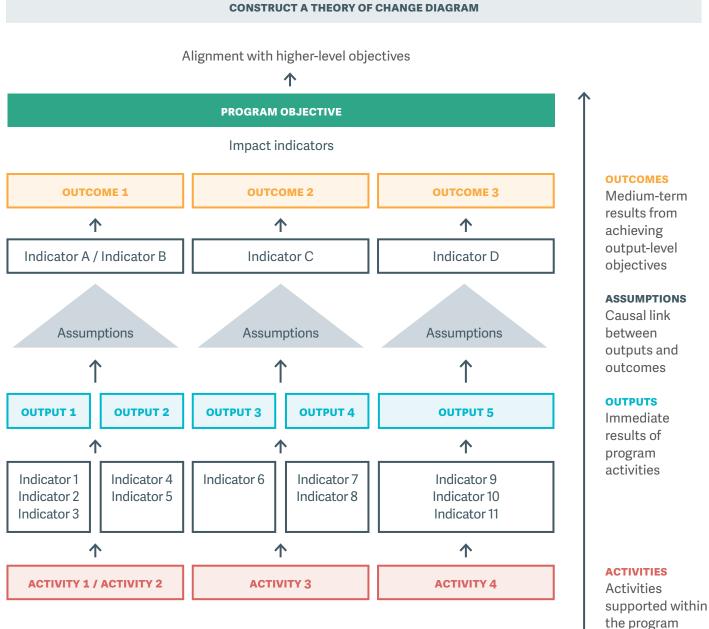
STEP-BY-STEP GUIDE TO DEVELOPING AN M&E STRATEGY





STEP 3 — Develop a Theory of Change

A Theory of Change illustrates the "pathways of change," connecting the inputs that are going into the project to conduct various activities with the expected outputs, short-term and longer-term outcomes.



INPUT 1 / INPUT 2

Funding, human resources, and time to conduct activities

INPUTS

ASSUMPTIONS

Causal link between outputs and outcomes

OUTPUTS

Immediate results of program activities

STEP 4 — Construct a Results Framework

The Results Framework identifies indicators based on the Theory of Change for the program. For each indicator, the RF presents:

- 1. a clear definition so that interpretation and unit of measurement of the indicator is consistent,
- **2. disaggregation** of the indicator that enables more granular analysis and comparisons,
- **3. target** setting, with a standard approach for baseline and deadline for achievement, and
- 4. methods of data collection and verification, including frequency, process, and sources.

SET UP THE RESULTS FRAMEWORK

STEP 5 — Develop an Evaluation Plan

- 1. Define the types of evaluations to be conducted (process/performance, impact).

3. Dedicate resources to evaluation.

- **2.** Develop appropriate instruments and systems for data collection (surveys, web-based dashboards).
- **4.** If impact evaluation is envisaged, plan processes to collect data on non-beneficiaries.

DEFINE EVALUATION PLAN

STEP 6 — Implement M&E system

Program design Develop the M&E strategy (Steps 1-5).

Application stage

Communicate the Theory of Change, Results Framework, and Evaluation Plan to applicants so they can understand the intervention logic and reporting requirements. **Program implementation** Applicants should report on indicators, and program managers should analyze the data within and across projects and programs.



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