Introduction to USF and Evaluation and impact of USF projects

Participants introduction

Workshop on Evaluation of Impact of Universal Access and Service Projects

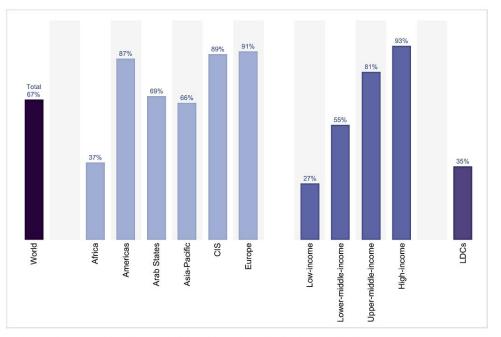
Introduction to USF

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Universal access. Why it matters?

• About one-third of the global population, or 2.6 billion people, remain offline in 2023 (compared to 2.7 billion people in 2022)

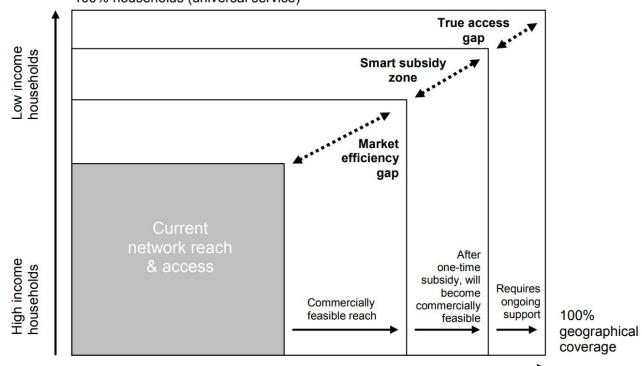
 Current trends are not strong enough to guarantee that the objective of universal and meaningful connectivity will be met by 2030.



Source: ITU, https://www.itu.int/itu-d/reports/statistics/2023/10/10/ff23-internet-use/

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Access Gap Model - 2002

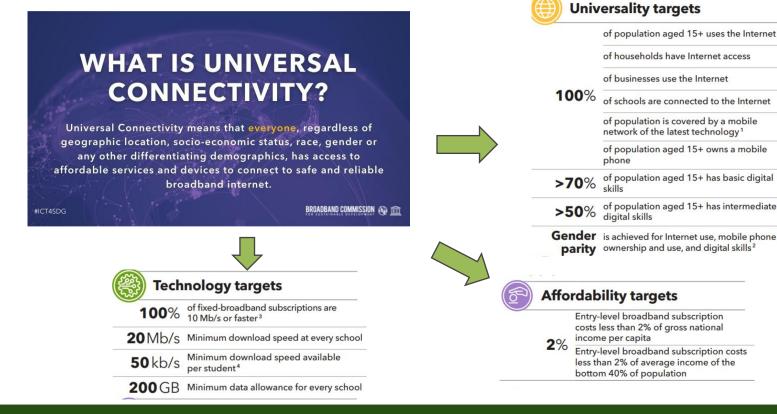


Geographical reach

100% households (universal service)

http://blogs.worldbank.org/ic4d/the-gaps-model-and-universal-access

Workshop on Evaluation of Impact of Universal Access and Service Projects Digital connectivity as the foundational element of the United Nations 2030 Agenda for Sustainable Development.



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Cost of exclusion is higher than the cost of closing the infrastructure, affordability, gender and other gaps that persist as the world becomes increasingly digitalized.

A major barrier to closing the digital divide is funding, or lack thereof. This relates to funding of networks, adoption, inclusion and innovation.

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This section provides information on the toolki how it is organized and how to use it.

Part

Universal access to digital technologies and services financing toolbox

This section unpacks the digital financing toolbox. Learn the rationale for and principles applicable to public investment, the range of finance mechanisms that can be used in concert with public funding, the traditional funding models and innovative financing models.

Evolving funding instruments: universal service and access funds (USAF 2.0)

This section provides tools to assess UAS policies and strategies, evaluate fund berformance and definitions of the new roles or next-generation funding instruments and models (USAF 2.0) in the context of innovative unding models discussed in Part A.

Funding universal service and access projects: from strategy to impact

Public funding is limited. It must be used strategically in order to achieve broad national objectives, and get the desired return on social, economic and financial investment. This section discusses and provides tools for successful project selection and implementation.

How to finance school connectivity: a practical guide for fund administrators and policy makers

This section presents tools that can be applied to funds under review or new funds being considered, to assist with: assessment, evaluation of fund performance and definitions of new roles for next-generation funding instruments and models.

PartE Resources and training opportunities: O 5 min

https://www.itu.int/itu-d/reports/regulatory-market/usf-financial-efficiency-toolkit/

Intervention and Funding Areas

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Public Funding Deciding if public investment is required



Will the funding make a material difference or impact that would not have been achieved without the funding being made available?



Will public investment stimulate further investment by the private sector? If not, then it risks 'crowding out' investment and should not be introduced.



Have all alternative funding and financing sources and types been considered?



Have costs and benefits of public intervention been assessed?



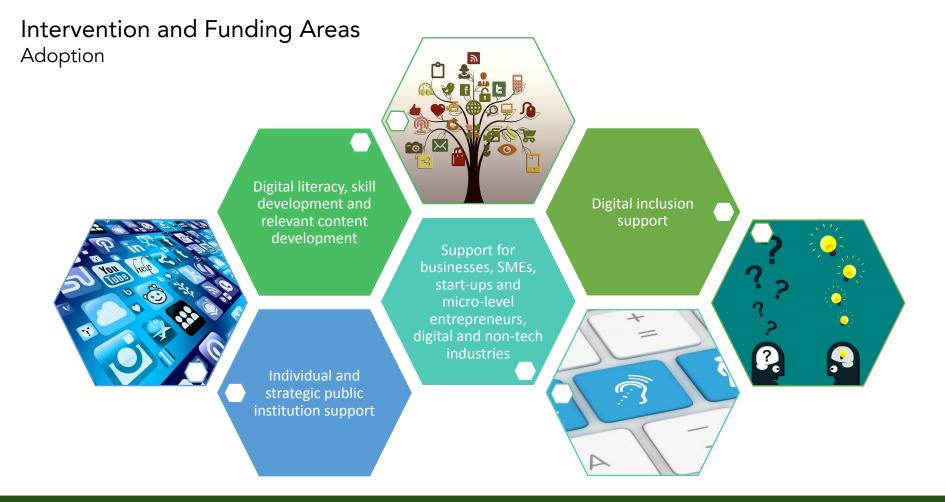
Have transparent and non-market distorting policy and regulatory incentives been put in place to reduce the costs of investment and any perceived investment risks to facilitate private investment?

Intervention and Funding Areas Connectivity

Smart devices – whether shared or individual in more connected areas Enabling environment, which is the control of the regulator and policy makers

Non-ICT infrastructure, which is core to any project – electricity and security being two aspects Connectivity, choosing the right technical solution and can be measured by speed, technology and network element

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Intervention and Funding Areas

Investment in research and development (R&D) and SMEs. Funding for:

- Relatively high-risk, untested innovative business with significant contribution that they make to economies.
- New technologies such as drones, Internet of Things (IoT), machine to machine (M2M) technologies, artificial intelligence (AI) and augmented and virtual reality (AR/VR)
- Start-ups to get them into the mainstream.
- Untested projects and innovations that are likely to be key in fast tracking SDG target attainment in locally relevant ways.

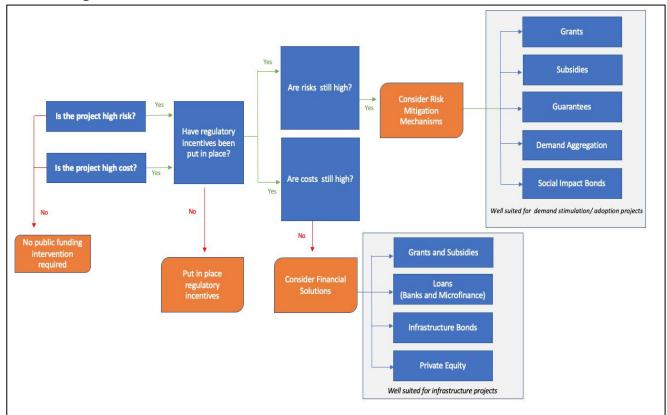


Intervention and Funding Areas Inclusion

All finance provided (through any programmes) must be conditional on **inclusivity** and the **promotion of the participation** of women, persons with disabilities and specific needs, older person and representatives of any other marginalized or vulnerable social groups.

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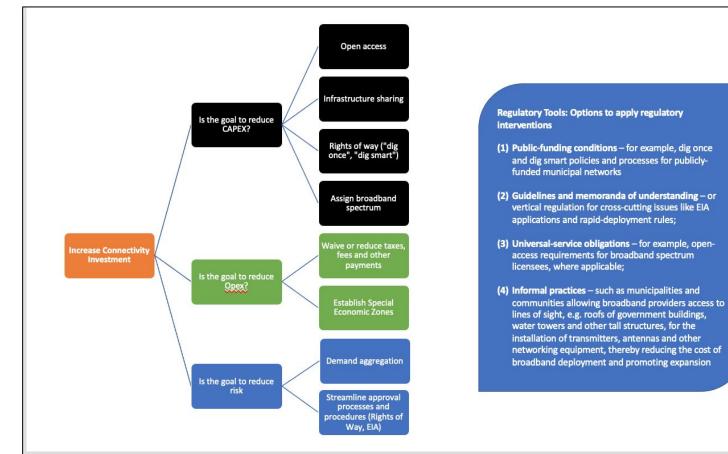
Financing Landscape Funding Decision Tree – Mitigate risk, reduce cost



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Policy and Regulatory Incentives

Connectivity



Financing Landscape Traditional models

Capex, Vendor finance, project finance

- Financed by operators, vendors banks. private equity firms usually through project finance.
- Often for the extension for upgrade of networks in commercially viable areas.

State Ownership and Public utility models

- Publicly funded network deployment and operation.
- This includes open access networks, government built networks, and high cost rural and underserviced area networks.

Public Private partnership models

- Public funding to reduce risk, while the skill and capital of private sector are also deployed.
- PPPs range from full ownership to Build, Own and Transfer-type models.

| Obligations | Demand Subsidisation models |
|--|---|
| Universal service extension is financed through obligations on licensees. These are pay or in cash obligations such as USF contributions, and | Subsidies from to government to specific types of users like low income, SME or strategic institutions like schools. E-rate (South |

rollout or play

is a lot of

thereof.

obligations. There

discussion on their efficacy or lack

nodels dies from the mment to fic types of like low ne, SME or gic utions like

(South Africa) and Lifelines (USA) are classic examples.

Financing Landscape Innovative Models

Demand aggregation/ anchor tenant

- •guarantee in and clustering demand to make investments more attractive
- school connectivity or government rollout where department procure jointly is a classic case

Blended finance

• a mix of sources of funds with funders with complimentary interests focused on sustainability

• the public benefit. of the project must exceed the returns to private investors

Venture capital

- best used for funding higher risk SMEs and innovation using private capital (high risk, high return)
- Venture Capital Fund of Funds allows public exposure to the model (case study to follow)

Municipal and community broadband models

- community takes responsibility for deployment and maintaining the last mile network
- can be done in partnership with local government and private sector
- Municipal models include passive infrastructure models, whole sale access, fully integrated models

Crowdfunding

- technology enabled contributions from social and personal networks, donors and foundations, amongst others
- Four key models -(1) donor based; (2) Lending based (Mekar, Indonesia); and (3) reward based (IdeaMe, Latin America); (4) Equity based

USAF 2.0 and structured funds

- Collective investment vehicles with a defined legal status and pooling of financial resouces
- A new spin on the traditional USF (evolved USF)
- SME Funds, Innovation Funds, Structural Funds

Assessing the UAS policy and Strategy

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UAS Strategy and Fund Assessment: Summary of Assessment Fundamentals

| CRITERIA | DESCRIPTION |
|--------------------------------|---|
| Timing | Strategy assessment should not commence too late, or too long after the implementation has commenced. Outcomes of the assessment need to be integrated into the rest of the strategy implementation. |
| Evidence-based and Data-driven | Evidence gathered through the assessment should inform outcomes. It is key that appropriate and good quality data is gathered. It is furthermore important that the right tools to utilise the data are in place, for example mapping/GIS tools, models, etc. |
| Outcomes-driven | The goals and outcomes that were defined early on need to guide the project. |
| Leadership | Governance arrangements established at the outset should include leadership for the programme. Leadership should be committed to outcomes and thus to the completion of a proper assessment. Lack of leadership is a risk to the project. |
| Ownership | Governance arrangements established at the outset should include ownership for the programme- this can be joint, but if so, roles and responsibilities must be clearly stipulated. Lack of ownership impacts accountability and is a risk to the project. |
| Funding | Adequate funding for all aspects of M&E built into the project financing to enable proper assessment |
| Capacity | Staff resources dedicated to M&E, and specifically to strategy / fund assessment, as applicable. |
| Collaboration | The assessment should be a collaborative process. All partners, beneficiaries and relevant policy makers and regulators must be involved in the process alongside any other relevant stakeholders. |
| Integrity and Transparency | The assessment must be transparent – there must be a desire to identify challenges and risks, and to understand and obtain outcomes that will lead to effective implementation. The integrity of the assessment is key. |



UAS Strategy and Fund Assessment Exercise: Checklist and Discussion



An assessment framework has been published and agreed



The budget has been analysed and the relevant financials have been audited by independent financial advisors;



Each pillar or programme is assessed independently, as well as collectively. The actual outcomes achieved have been measured against desired outcomes;



Agreed upon, credible baseline and evaluation data has been used, including indicators;



A broad range of stakeholders has been consulted (a) on the framework; and (b) on the outcomes of the assessment, including the budget;



The granting process is transparent and bids were advertised publicly

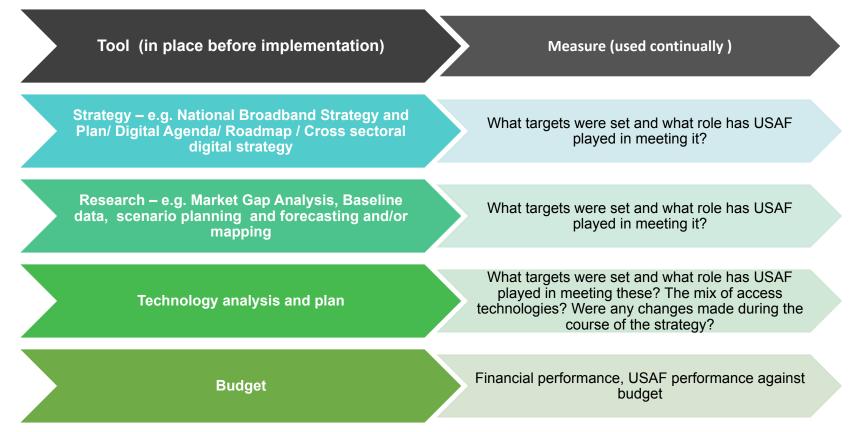


The assessment outcomes have been published;

Assessing the Universal Service Fund

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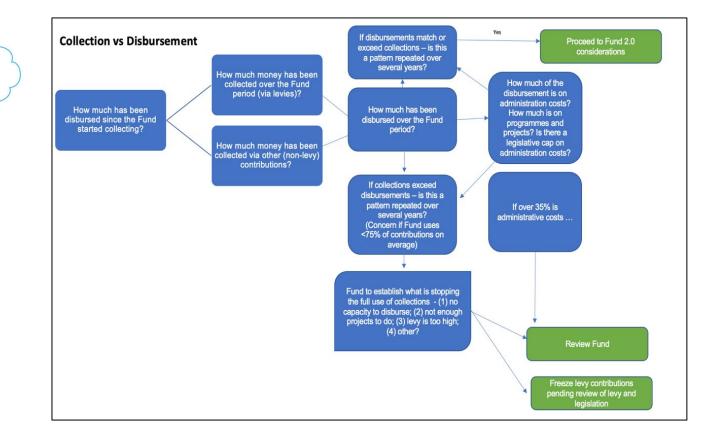
UAS Strategy and Fund Assessment What tools can you use for Fund assessment?



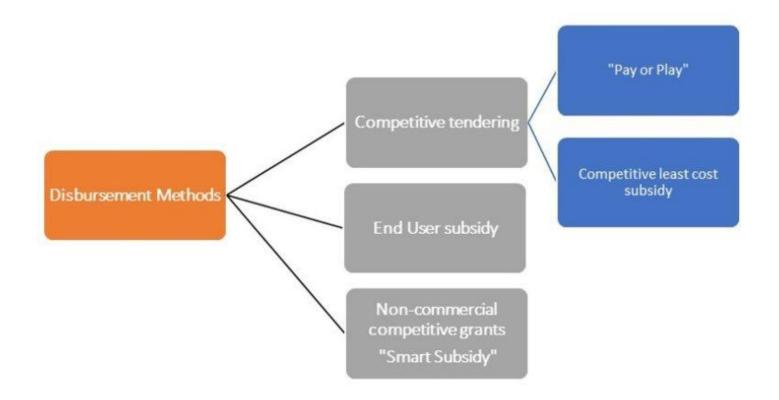
Elements for Performance Assessment

- 1. Sources of Funding
- 2. Disbursement Options
- 3. Beneficiaries
- 4. Fund Administration
- 5. Governance, Transparency and accountability
- 6. Scope and mandate
- 7. Autonomy

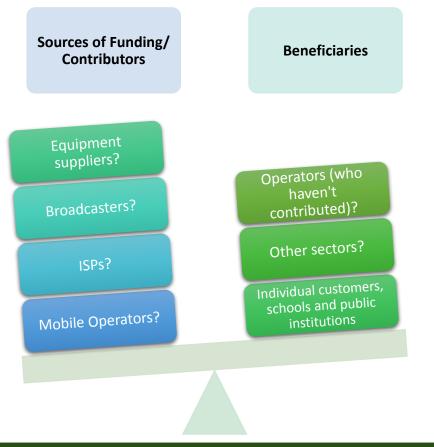
Performance Assessment: Sources of Funding



Performance Assessment: Disbursement Options



Performance Assessment: Beneficiaries



- Who are the contributors to the UAS fund (list)?
- Who are the beneficiaries (list)?
- Is there a problem in principle with parties who did not contribute to the UAS fund, receiving subsidies and grants from the fund (i.e. being beneficiaries)? Is there a legislative limitation in this regard?
- Is there a problem in principle with private parties who are not licensed (whether or not they contributed to the fund) receiving subsidies and grants from the fund (i.e., being beneficiaries)? Is there a legislative limitation in this regard?
- How would the fund treat applications for funding from parties that are not licensed and not contributors, such as platforms, OTT service, applications providers, communities using unlicensed spectrum? Is there a legislative limitation in this regard?
- Who are the public sector beneficiaries from the fund (e.g. schools, hospitals, clinics)? On what basis are they selected? Are there any limitations on public sector beneficiaries from the fund?

Performance Assessment: Fund Administration



A qualified fund manager/CEO and management team that includes technical, project management, legal and financial expertise.



An objective board.



Funds are ringfenced and in a separate bank account managed by the fund.



Audited annual financial statements are required.



Published application procedures, often captured in a fund manual.



Requirements for periodic reporting, and annual audited accounts.



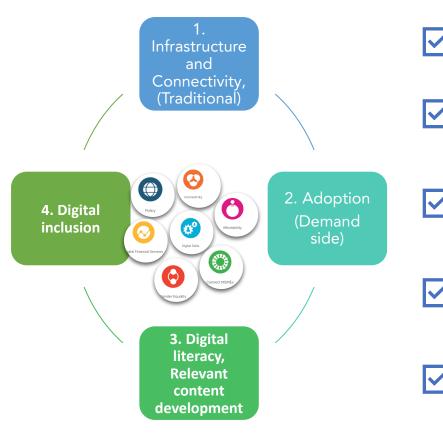
Performance Assessment: Governance, Transparency and accountability

| ASSESSMENT CRITERIA | GOOD PRACTICE | FUND COMPLIANCE LEVEL (High, Medium, Low) |
|---|---|--|
| Roles and function of board | Oversight over budget and expenditure (minimum of quarterly meetings) Environmental, social and governance (ESG) oversight (Quarterly ESG reports) Compliance oversight (Quarterly compliance reports) | |
| Board composition | - Inclusive and representative of national demographics - Broad and relevant skills base | |
| Stakeholder and community management | Quarterly community and stakeholder sessions Information available in an accessible format on an updated website | |
| Integrated reporting and disclosure | - Sustainability reporting and disclosure should be integrated with the project's financial reporting | |
| Risk management framework | Delegation of authority framework Anti-corruption measures Declaration of interest (at each stage of the project/ all meetings) Minimal political exposure (donations, project implementation/ spending based on political imperatives, etc.) Regulatory compliance (ICT, competition, financial services, etc) reported on quarterly | |
| Auditing and accounting | Annual audited financial statement published Financial manager employed at all times External auditors appointed and approved by the Board | |

Performance Assessment: Autonomy

| | QUESTIONNAIRE TO ASSESS AUTONOMY |
|-----------------|---|
| | How is the budget allocated? |
| Governance | Do funds go directly to the Fund budget and is it ringfenced? To the National revenue Fund/ general government budget? If the latter, does the Fund have to motivate for an allocation? Is there any bearing between the levy and the amount the Fund receives? |
| | Who appoints the Board? Who does the Fund Board report to? |
| | Does the line Ministry or any other ministry have a say in disbursement decisions? |
| | Is the Fund a stand-alone entity or housed within the regulator/Ministry? |
| | Does it have a full time Fund Manager? Does it have a full-time senior finance manager? |
| Capacity and | • Does it have access to a full-time legal resource? Technical resource? Project manager? (in house or external? |
| human resources | What other staff does it have in house? What other staff does it have access to on an as needed basis? |
| | What kind of work are consultants hired to do? |
| Project | Are Fund goals and targets clearly stipulated? Are they measured periodically and in regular intervals (i.e. at least annually)? |
| management and | Are project goals and targets clearly stipulated? Are they measured throughout the life of the project? |
| reporting | Are project reports prepared? Are they published (at a minimum annually)? |
| | Are financial statements prepared? Are they published (at a minimum annually)? Is an annual report prepared? Is it published? |

Performance Assessment: Scope and mandate



Legislation or regulation limits the scope of intervention to one or two sectors (e.g., education and health)

Legislation or regulation does not cater for the implementation of adoption, access and usage strategies

End users, both individuals and institutions, are not considered as potential beneficiaries (only those that contribute can benefit)

Digital inclusion and access for marginalized and vulnerable communities is not catered for in legislation or regulation

The fund framework does not recognise the multitude of potential funds, investors and financiers and does not support collaboration

New Roles for USAF 2.0 Recap - when do you need to make amendments?



Legislation/ regulation limits the scope of intervention to one or two sectors (e.g., education and health)



Legislation /regulation does not cater for the implementation of adoption, access and usage strategies



End users, both individuals and institutions, are not considered as potential USAF beneficiaries (e.g. only those that contribute can benefit);



Digital inclusion and access for marginalized and vulnerable communities is not catered for in legislation /regulation



the USAF framework does not recognise the multitude of potential funders, investors and financiers and does not support collaboration



The institutional and governance framework is not clearly stipulated or does not facilitated the autonomous management of the Fund by a skilled board and management team

IF ANY OF THE ABOVE APPLY DO NOT PROCEED TO FUND 2.0 UNTIL AMENDMENTS ARE NEEDED!

Funding UAS Projects: From Strategy to Impact

Project Types Characteristics of a good project





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Project Design Overview



Project Design Step 1 - Readiness Assessment

Checklist: Readiness

- Overarching policy, strategy, agenda in place (e.g. National Development Plan, Digital Agenda, UAS strategy, donor/partner policy, or others)?
 - Have the champions for the UAS strategy implementation and therefore for building and using an M&E system been identified? They may be from government, parliament, civil society, donors, others.
 - What is motivating those who champion building an M&E system—a political reform agenda, pressures from donors, a personal political agenda, or political directive?
 - Have M & E managers within the institution been identified and trained?
 - Have M & E tools been agreed, and has training been provided on them?
 - Are there any evident links between budget/resource allocation procedures and M&E information?
 - Does the Monitoring system have clear ownership, management, maintenance and credibility?
 - Data collection standards and evaluation methodologies have been agreed and include assurance that data collection will be reliable, valid, credible, and timely.

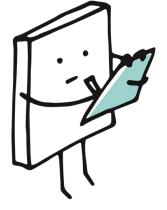
Project Design Step 2: Evidence, Baseline Research

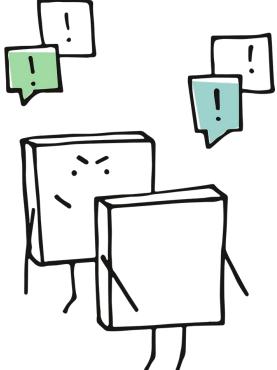
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The **common market research approaches and tools** that are used to inform the baseline study are similar to those that will be used later on for monitoring and evaluation.

They include:

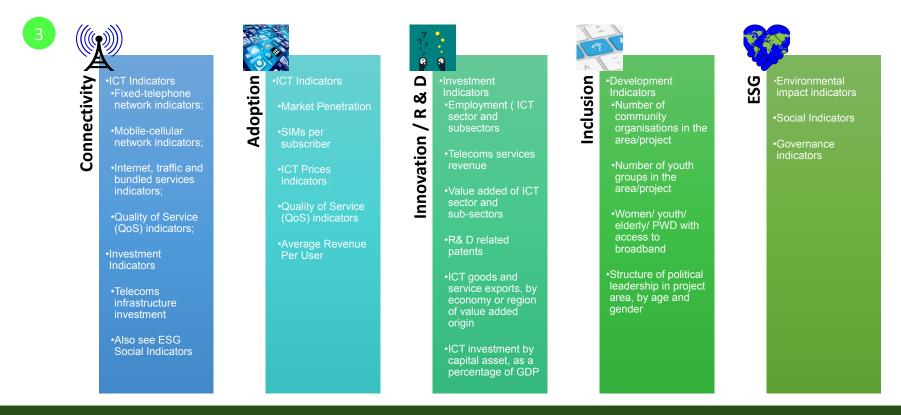
- Desktop research and a systematic review of relevant official statistics
- Case studies
- Structured questionnaires
- Focus groups
- Surveys
- One-on-one interviews





Project Design

Step 3: Indicators for Baseline and Measurement of Impact



Project Design Step 4: Selection of Targets



BOTTOM UP

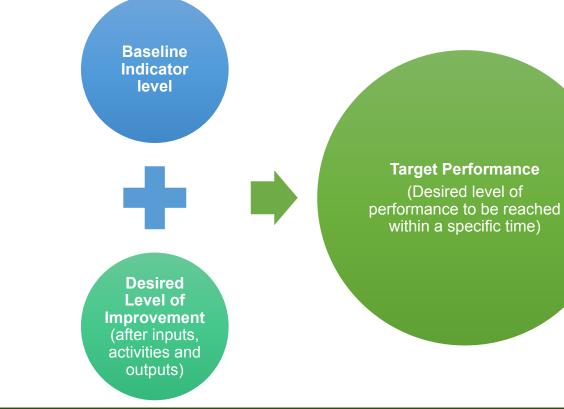
Outcome Mapping focuses on the desired change that a project wishes to bring about with the stakeholders, rather than assessing the product. OM is based on the belief that the power for change comes from the stakeholders and that embedding the power and responsibility for change in the people or institutions directly working with a development project will yield in a higher likelihood of success.

The Logical Framework Analysis method develops a logframe matrix. The matrix distinguishes between THE GOAL or broader development impact to which the project contributes -at a national or local level; THE PURPOSE or the development outcome expected at the end of the project; THE OBJECTIVES or the expected outcomes of each output, THE OUTPUTS or the direct measurable results; and THE ACTIVITIES or the tasks carried out to implement the project.

TOP DOWN

Project Design Step 4: Selection of Targets

4



Project Design Step 4: Example of project design

4

| | Projects | Outcomes | Indicators | Baseline | Target (can be broken down into annual targets) |
|------------------------|--|---|--|----------|---|
| Basic infrastructure | Basic mobile infrastructure gaps projects. | Increase rural coverage and penetration. Targets for the number of sub-locations to be connected to the national backbone. | % of population covered. | | 99% coverage at end of 5 years |
| | Rural fibre-optic backbone projects to sub-county and key sub-locations. | Increase rural coverage and penetration. Targets for the number of sub-locations to be connected to the national backbone. | % of sub-locations connected to fibre backbone. | | All feasible identified sub- locations connected |
| Broadband connectivity | Education connectivity project. | Increase the availability of digital learning in secondary schools. Acceleration of computer studies curriculum participation. | Number of secondary schools connected. Number of tertiary institutions connected. | | 50% of schools connected |
| | Broadband connectivity to public institutions. | Growth in ICT usage in sector. | Achievement of project targets. | | ТВА |

Project Design:

Step 5: Monitoring for Results - from Continuous Assessment to Final Evaluation

| | Criteria | Description |
|------------------------|--------------------------------|--|
| 5 | Timing | Assessment should not commence too late, or too long after the implementation has commenced. It will be difficult to make changes in response to challenges identified, and will increase costs. Assessment outcomes need to be integrated into the rest of the implementation. |
| NONITORING FOR RESULTS | Leadership | Governance arrangements should include leadership for the programme. Lack of leadership is a risk to the project. |
| | Ownership | Governance arrangements should include ownership for the programme- this can be joint, but if so, roles and responsibilities must be clearly stipulated. Lack of ownership impacts accountability and is a risk to the project. |
| REPORTS | Collaboration | Assessment should be collaborative . All partners, beneficiaries, policy makers and regulators must be involved alongside any other relevant stakeholders. |
| EVALUATION 3 | Integrity and Transparency | Assessment must be transparent– a desire to identify challenges and risks, and to obtain outcomes that will lead to effective implementation. Integrity is key. |
| PALUANO | Outcomes-driven | The goals and outcomes that were defined early on need to guide the project. |
| | Evidence-based and Data-driven | Evidence gathered should inform outcomes. Appropriate and good quality data should be gathered using the right tools, e.g. GIS tools, models, etc. |
| | Funding | Funding for all aspects, including M&E, should be built into the project financing, |
| | Capacity | Dedicated staff resources for M&E and assessment, as applicable. |