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Design and Monitoring Framework (DMF): results-focused project design and management

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Session Objectives

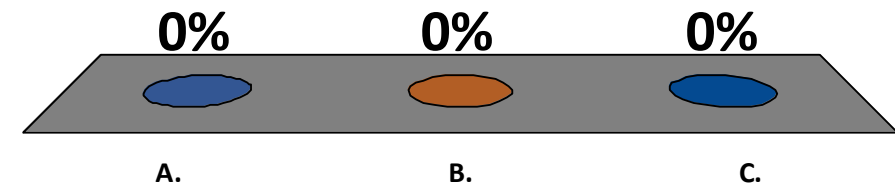
Increased awareness about and knowledge of:

- Design and Monitoring Framework (DMF) as a tool for designing projects
- Preparing a good DMF; and,
- Using DMF for results-focused monitoring and reporting throughout project cycle

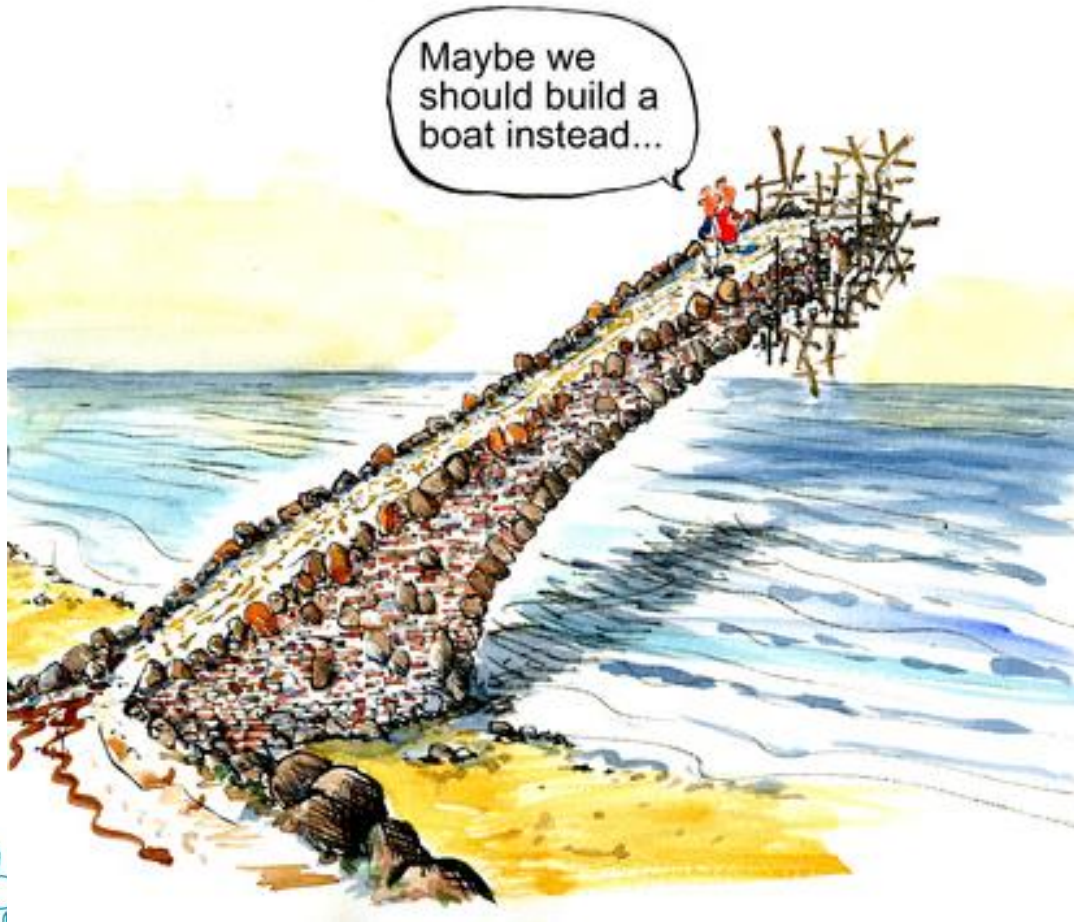


Question: Is this your first visit to Phnom Penh?

- A. Yes
- B. No – I have visited before
- C. I live in Phnom Penh



How do we bring about effective development?



- 1. By doing the right things:** selecting/designing a cohesive set of interventions that are best suited to achieving country development objectives
- 2. By doing things right:** designing and implementing interventions so that they meet their development objectives



Managing for Development Results (MfDR) in simple terms



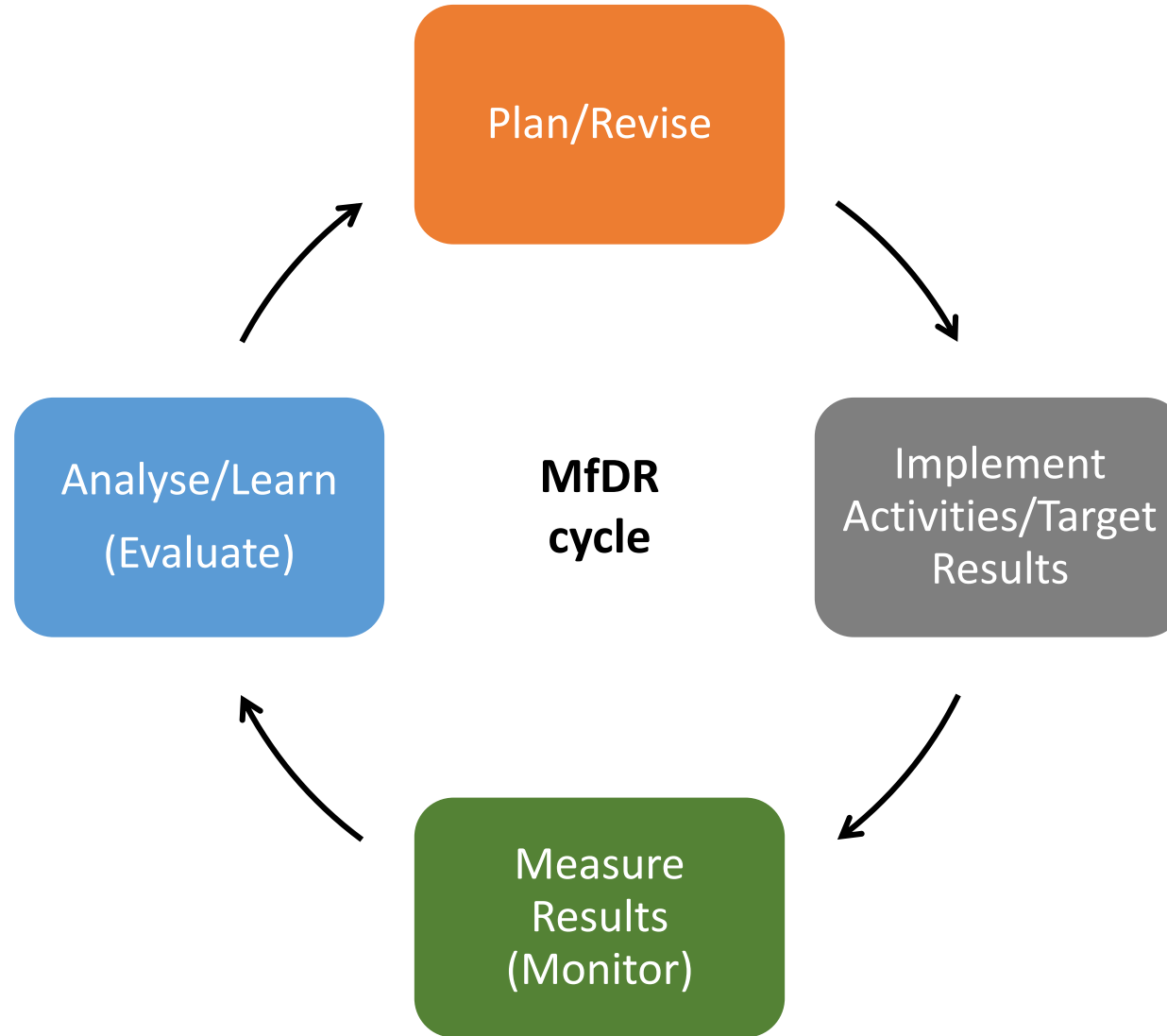
What do you want
to achieve with
your project or
program?



How do you know
when the project
has been
successful?



What is MfDR in practice?



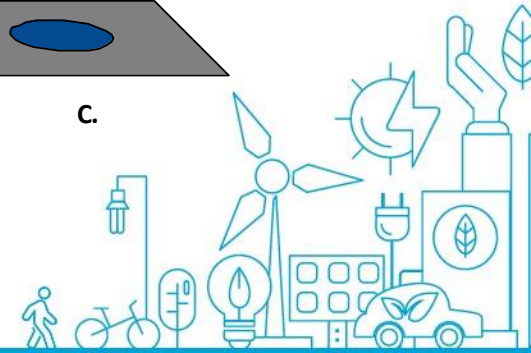
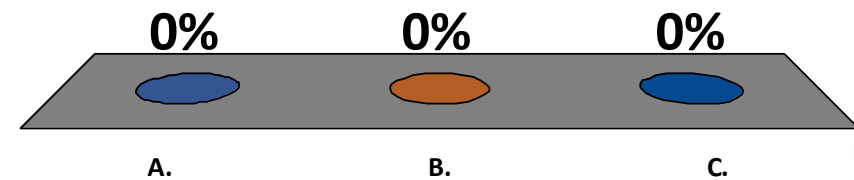
ADB's Project DMF

Impacts the Project is Aligned With			
Results Chain	<i>Performance Indicators with Targets and Baselines</i>	<i>Data and Reporting</i>	<i>Risks</i>
Outcome			
Outputs			
Key Activities with Milestones			
Inputs			
Assumptions for Partner Financing			

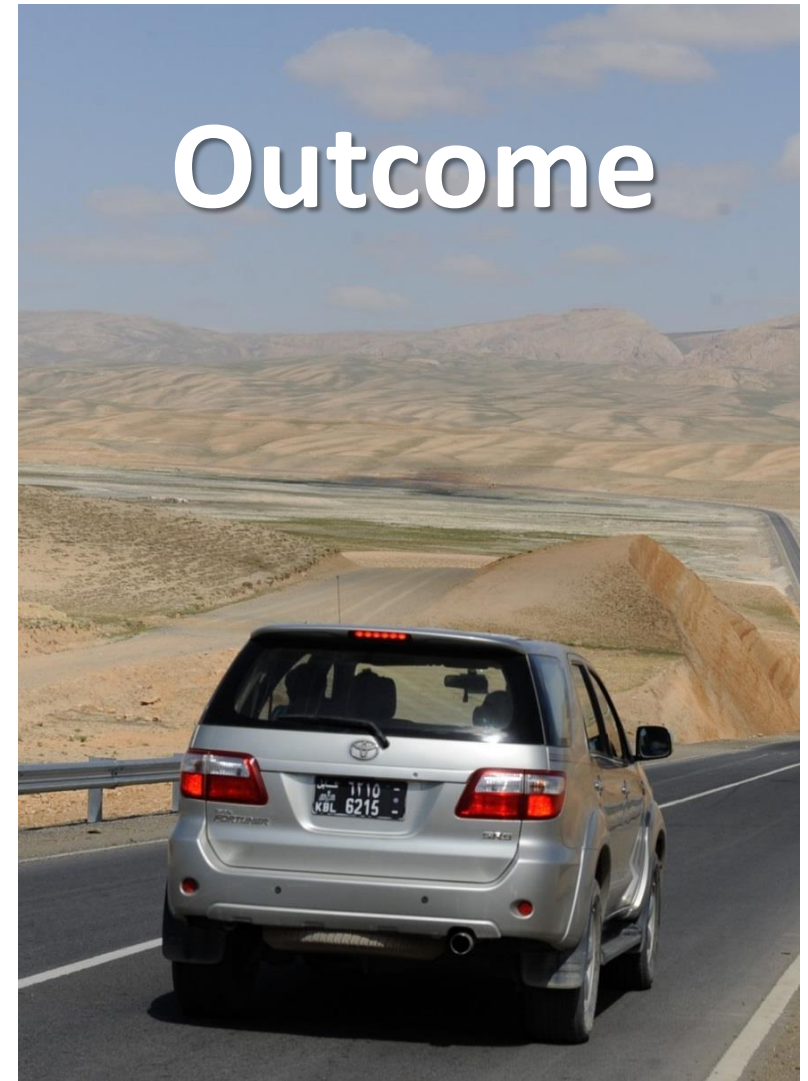
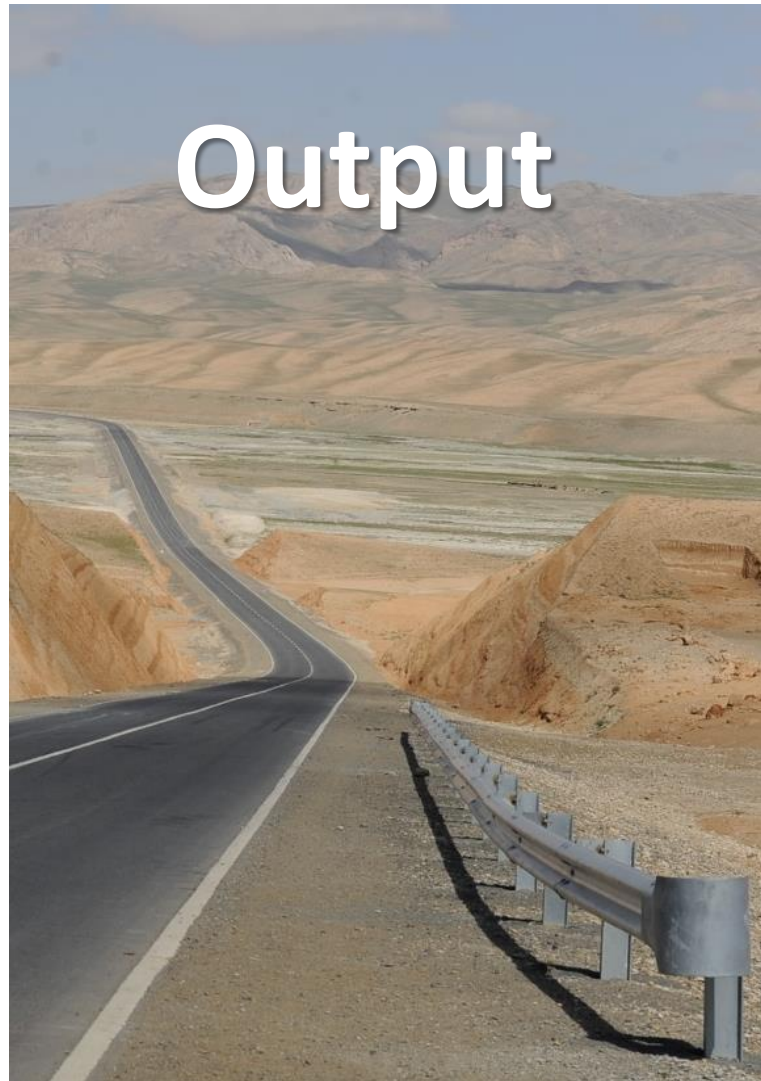


Question: How familiar are you with the ADB DMF?

- A. **Unfamiliar** – I have not yet seen or used a DMF
- B. **Somewhat familiar** – I have seen a DMF, but never used it
- C. **Familiar** – I have used a DMF for project monitoring or reporting



Thinking about results, what is the difference between these two pictures?



Levels of Results

Broader Development Results

- **Impact** – High level development objective that project outcome is aligned to

Project Results Chain

- **Outcome** – Immediate and direct benefit of use or application of outputs
- **Output** – Goods, services, or products delivered by the project to direct beneficiaries



Importance of results

Impact

Longer term change

Outcome

Immediate benefits of use

Output

Deliverables

Transport



Income increased



Mobility improved



Roads constructed

Water



Health improved



Household use of clean water increased



Water networks built

Energy



Education attainment higher



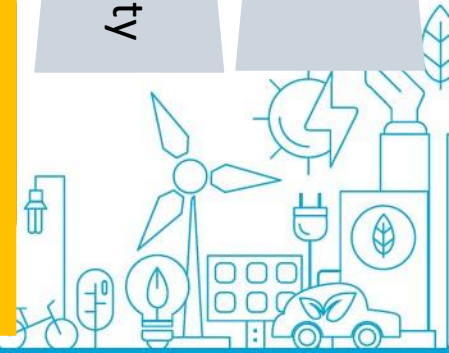
Households using electricity increased



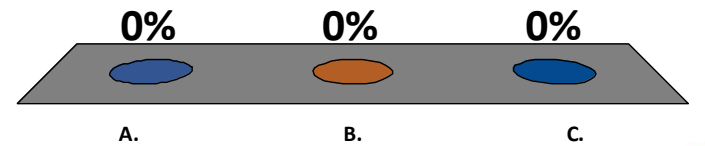
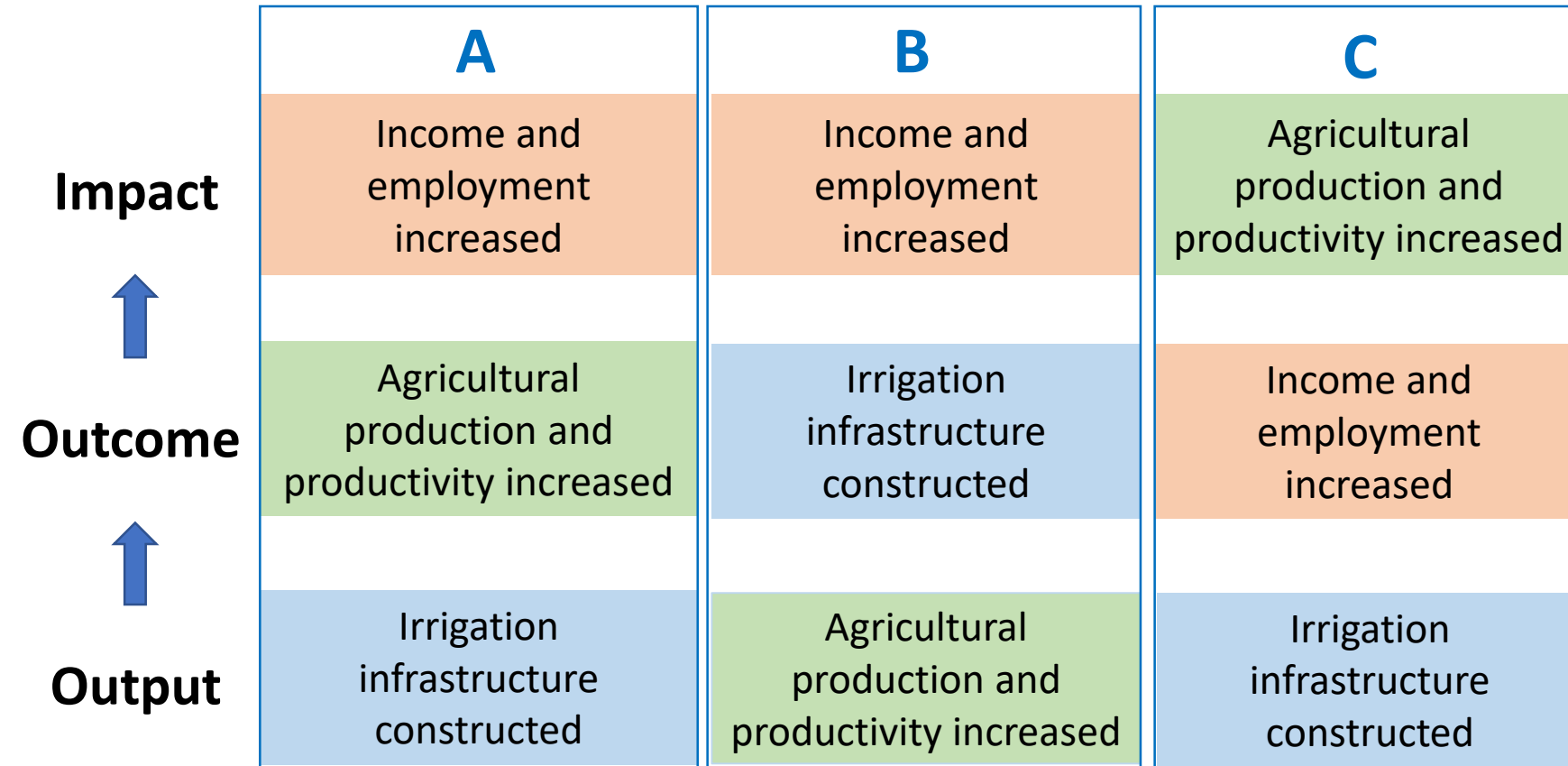
Power distribution capacity expanded

Project control & accountability

Attribution to project



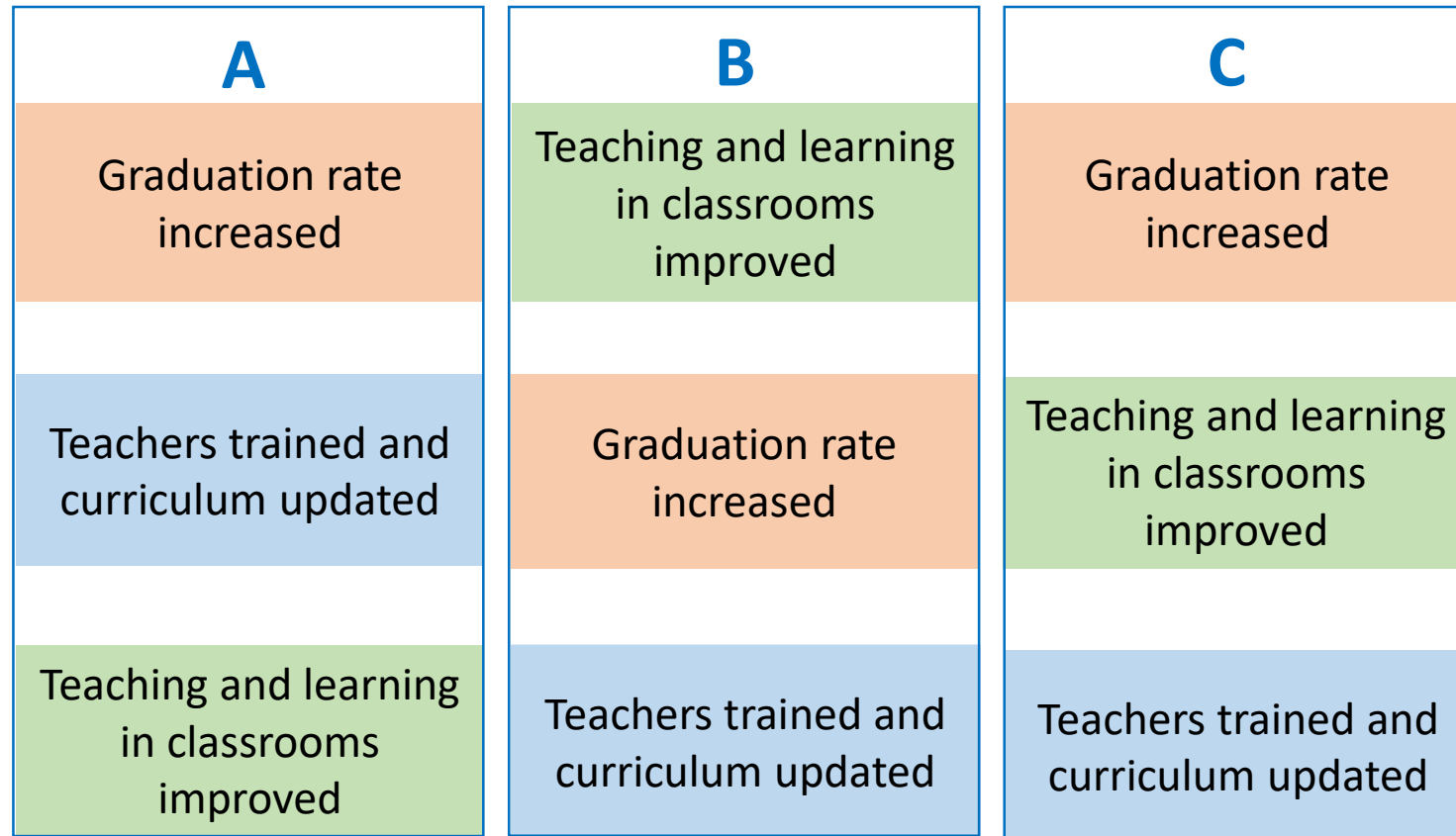
Question: Which is the correct results chain for this project?



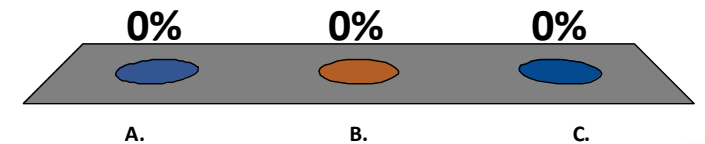
Agriculture and Natural Resources Project



Question: Which is the correct results chain for this project?



Education Project

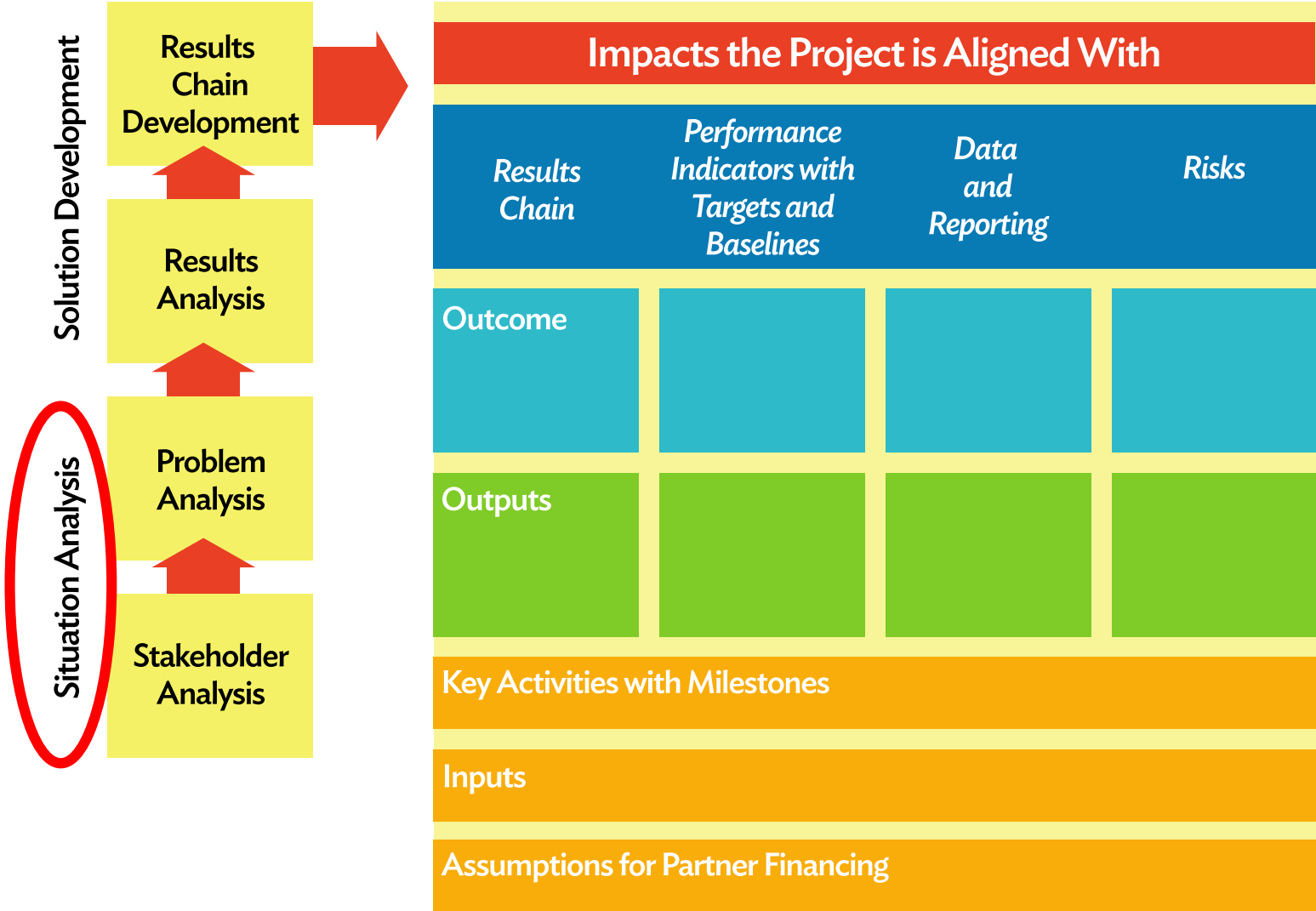


Whose Results?

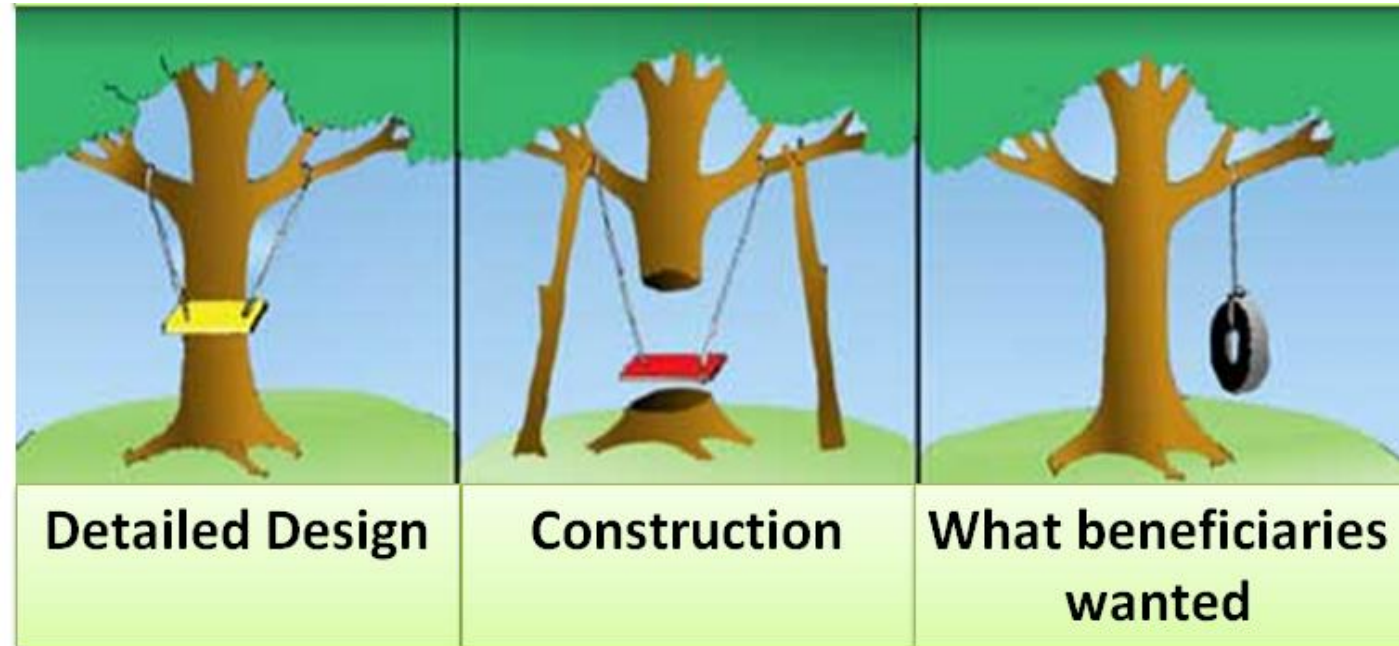
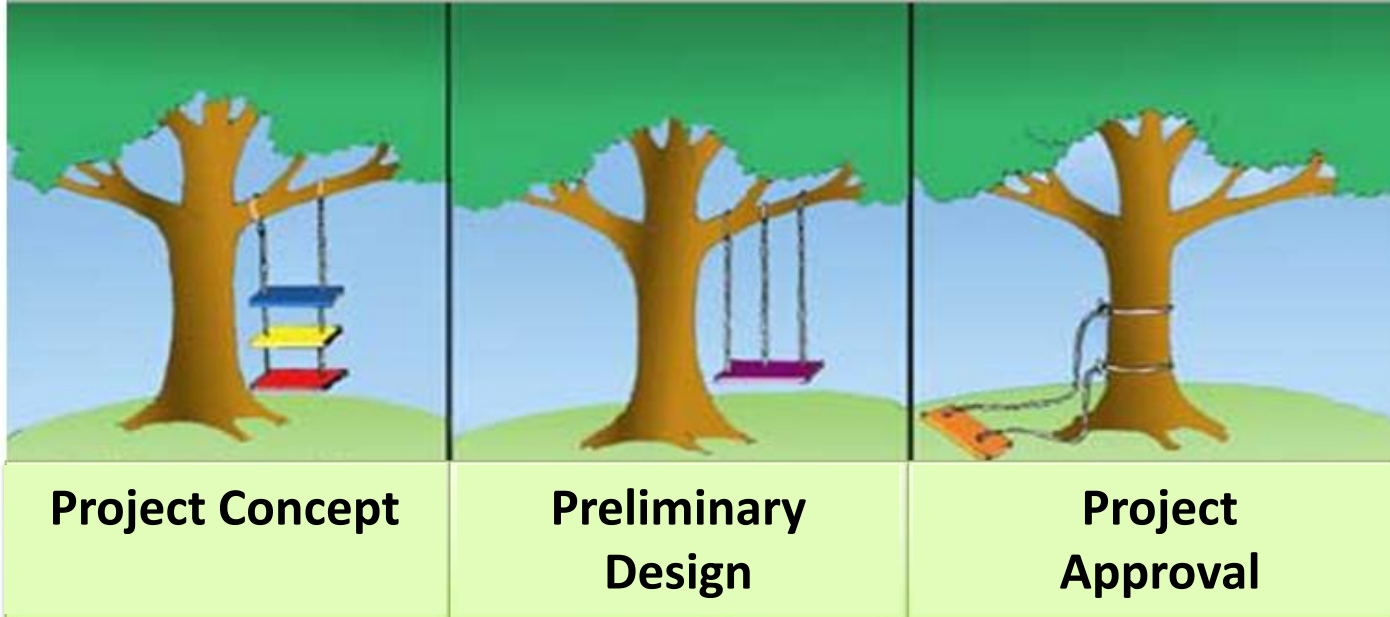
Preparing the DMF



The process produces the DMF



What happens when we don't sufficiently consult stakeholders



What are Stakeholders?



Agencies, organizations, groups or individuals who have a direct or indirect interest in the project

- May affect, be affected by, or perceive to be affected by a project decision, activity, or result



Stakeholder Analysis – When and Why?

Continuous process that happens during:

1. Problem identification

- Identify important stakeholders and involve them in problem analysis

2. Project formulation

- Solicit stakeholder input into design decisions and risk analysis

3. Project implementation

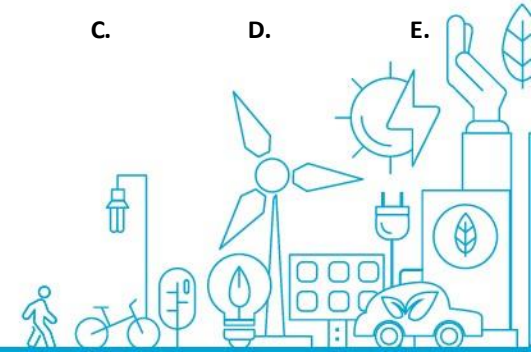
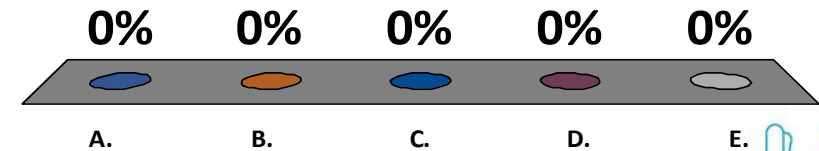
- Confirm stakeholder involvement, keep them informed, track their changing circumstances / interests, and plan their possible involvement in monitoring and evaluation



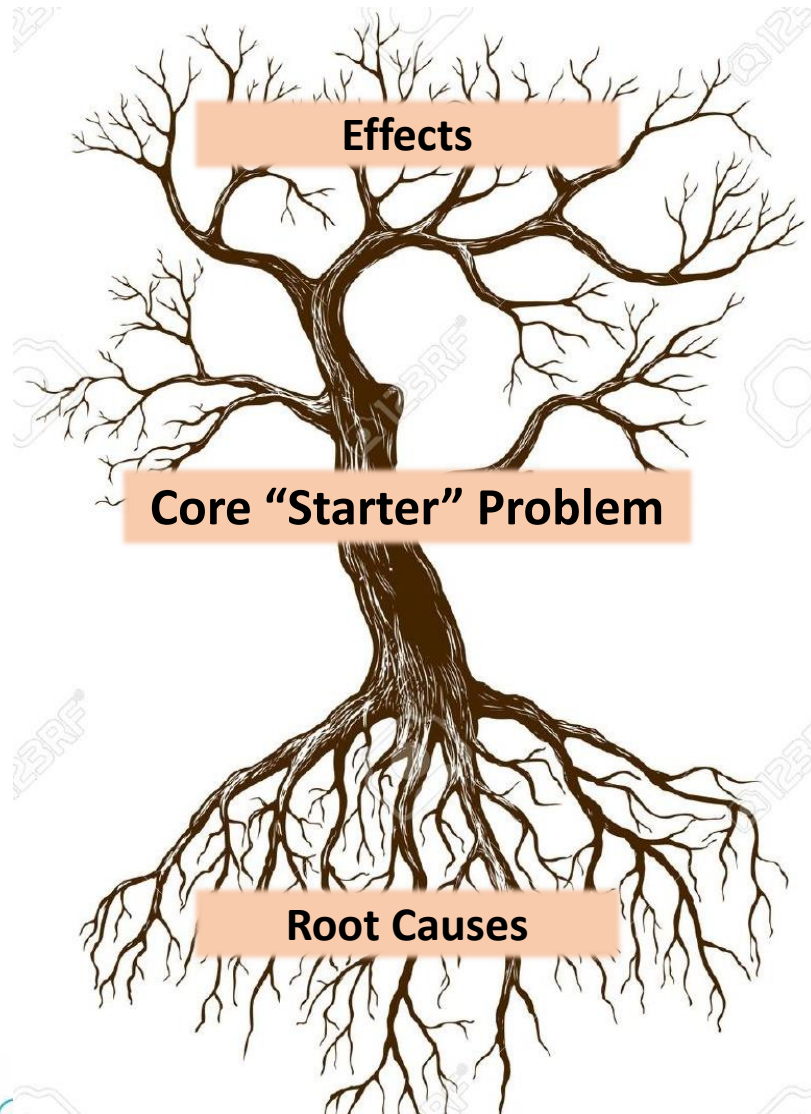
Question: What is the main cause of this problem?



- A. Climate change
- B. Drainage system design inadequate
- C. No traffic control
- D. Garbage blocking drainage system
- E. Other



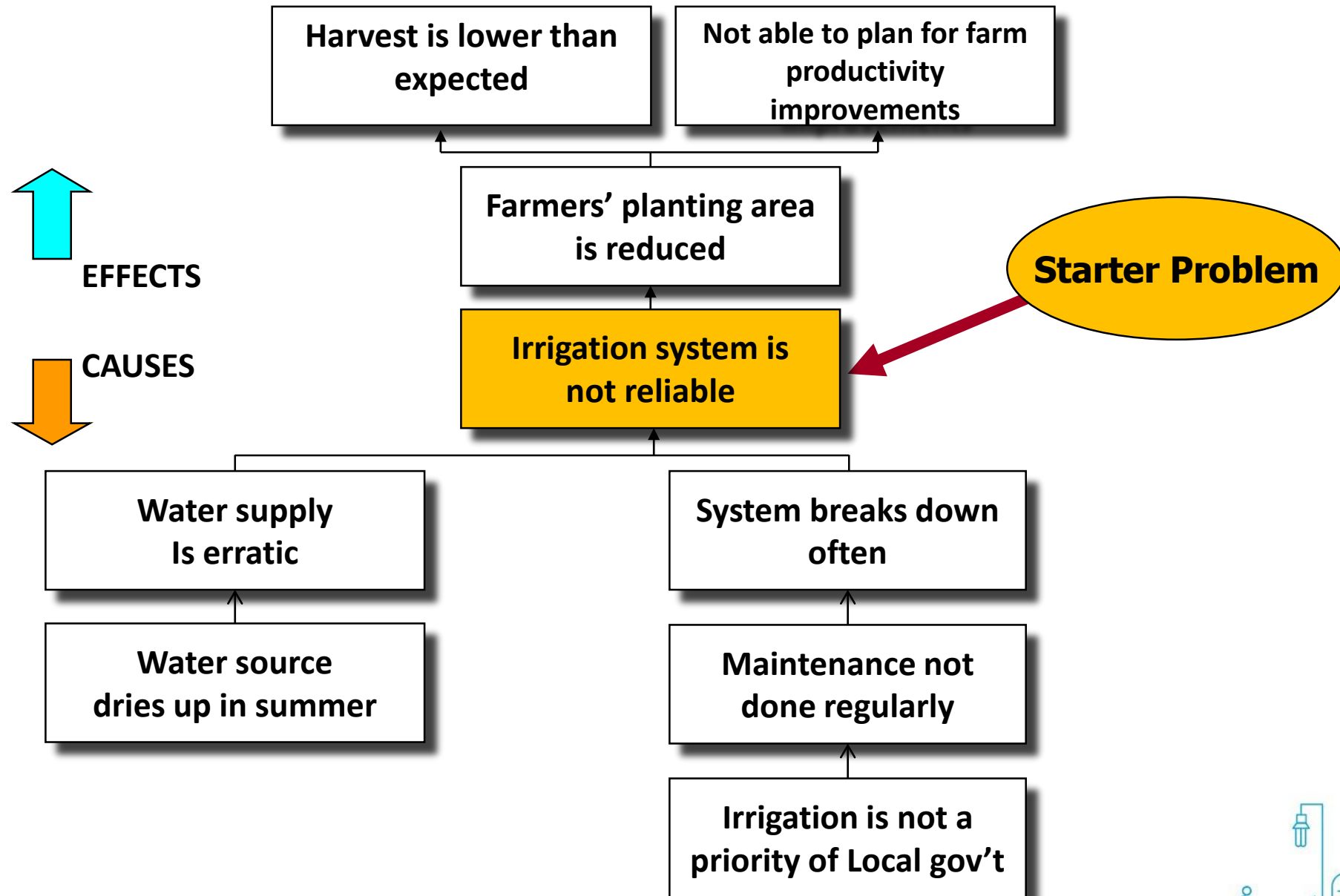
Problem Tree Analysis - steps



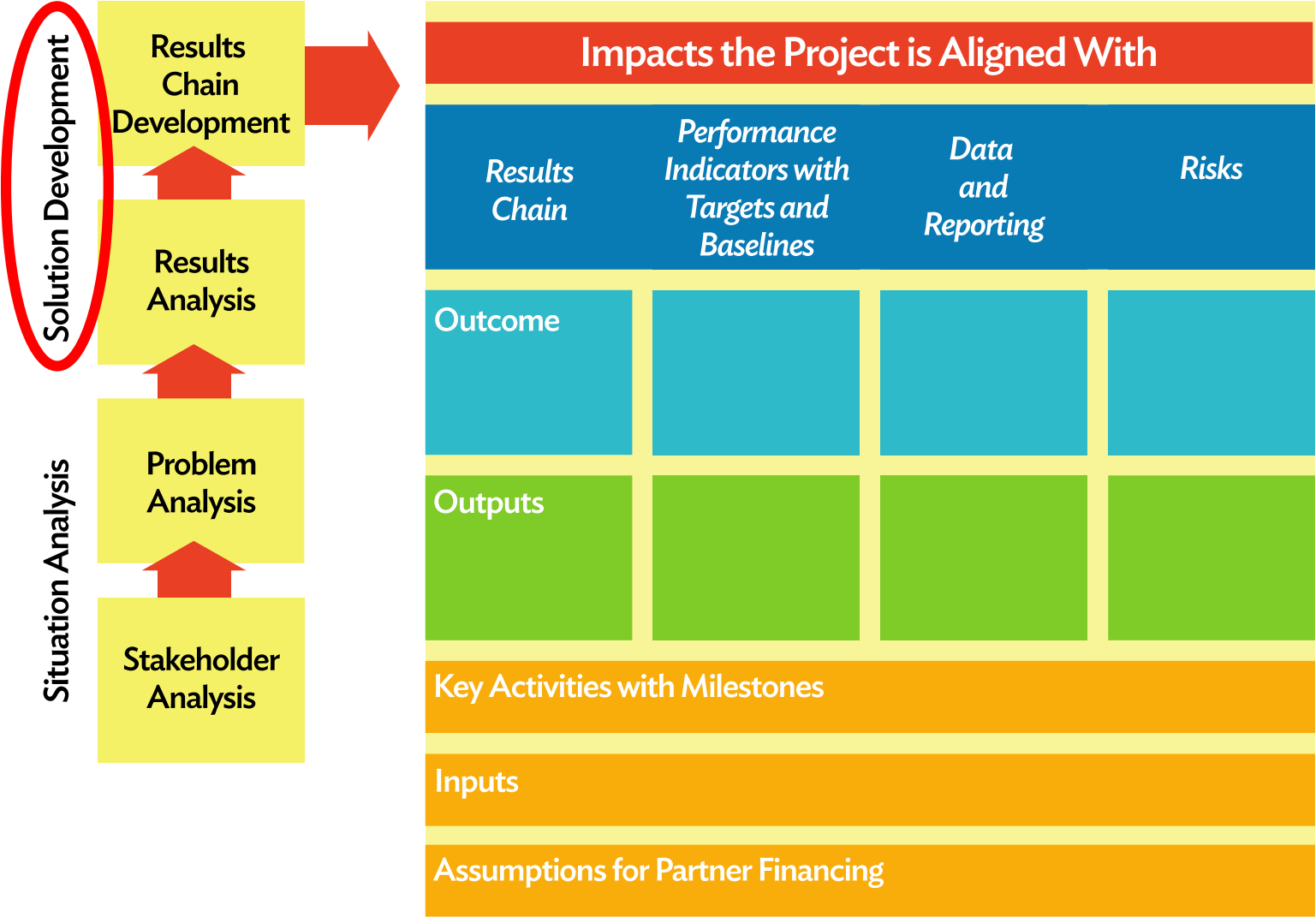
1. Place core “starter” problem in center
2. Identify direct cause of core problem, then secondary cause, creating a hierarchy of problem causes and effects (“roots”)
3. Identify problems which are direct effects/symptoms of core problem. Put them above (“branches”)



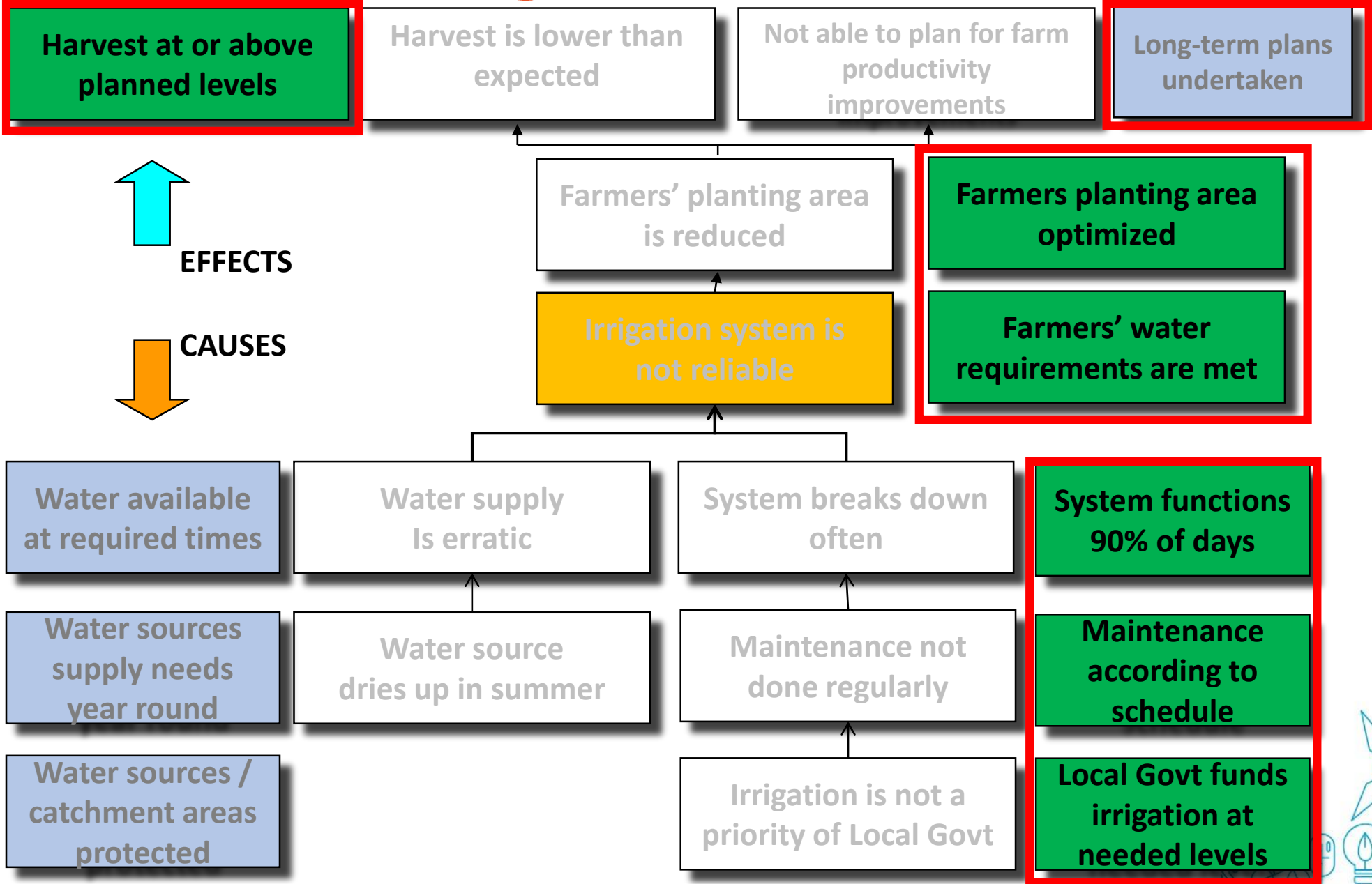
How to Build the Problem Tree



The process produces the DMF



Irrigation Funding and Maintenance Project



How will we know if we have succeeded?

Indicators and Performance Targets



What are you going to measure?

Impacts the Project is Aligned With			
<i>Results Chain</i>	<i>Performance Indicators with Targets and Baselines</i>	<i>Data and Reporting</i>	<i>Risks</i>
Outcome			
Outputs			
Key Activities with Milestones			
Inputs			
Assumptions for Partner Financing			



What is an Indicator?

A measurement device to:

- Tell you whether an expected result has been achieved, recognizes success
- Force us to clarify what we mean by our expected results
- Rate project success



A good indicator is SMART

- **Specific** – details result statement (who, where, when, quality, quantity, cost, etc.)
- **Measurable** – stated in quantifiable terms; feasible to collect data for
- **Achievable** – realistic in what is to be achieved
- **Relevant** – appropriate to the result statement; useful for management information purposes
- **Time-bound** – state with target and baseline, both with dates



Example Performance Indicator

Road Project – Outcome Indicator

Average bus passenger travel time from town A to town B decreased **to 50 minutes by 2021**
(2018 Baseline: 120 minutes)

Legend

Result (Change we want)

Indicator (How we will count it)

Target & Baseline (How much change from where we are now, by when)



Data Sources and Reporting: What to include in the DMF

Ministry of Agriculture Annual **Production Report**

**Survey of training participants, Final Report of
Training Consultant**

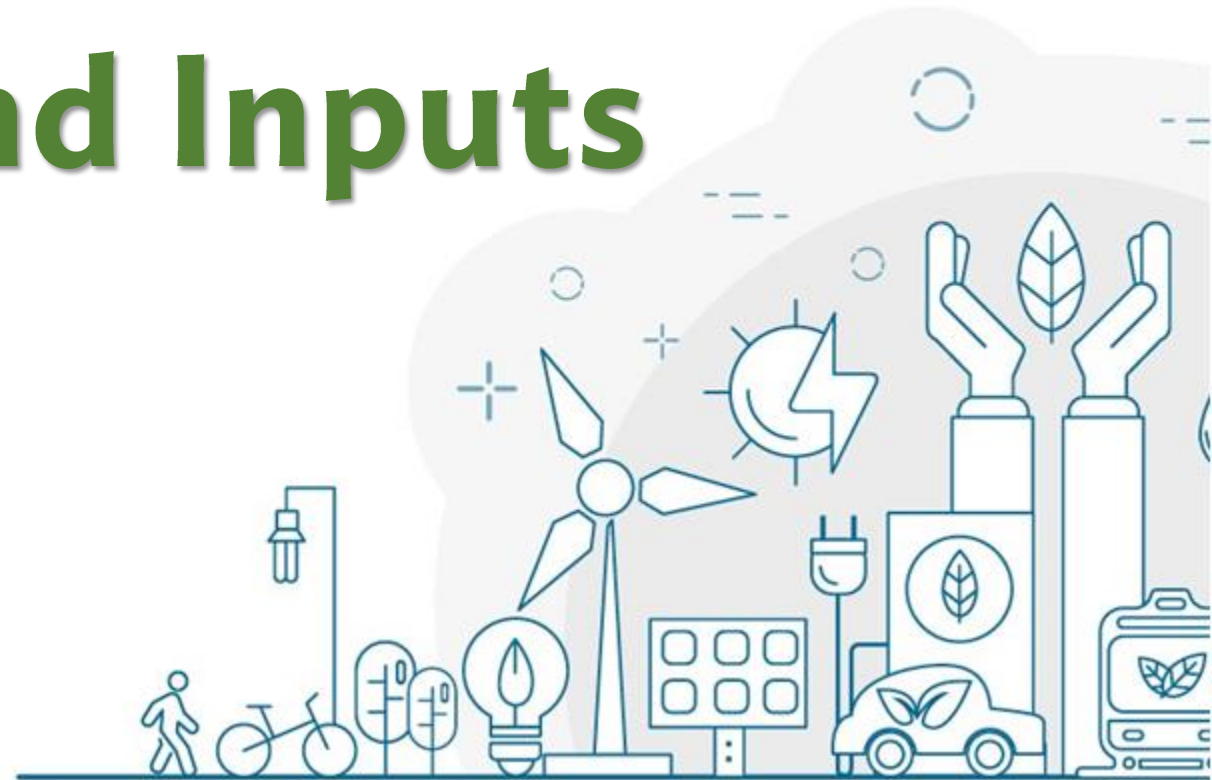
Legend:

1. **Document Name**
2. **Document Author**
3. Frequency of the document
4. **Root source/data collection tool**



How will we deliver results?

Activities and Inputs



Activities and Inputs

Impacts the Project is Aligned With			
<i>Results Chain</i>	<i>Performance Indicators with Targets and Baselines</i>	<i>Data and Reporting</i>	<i>Risks</i>
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Key Activities with Milestones

Example in DMF

Key Activities with Milestones

Output 1: 550 km north–south road corridor improved

- 1.1 Recruit project management, supervision, and design consultant (Jan 2011)
- 1.2 Procure civil works (Jan 2011–May 2019)
- 1.3 Mobilize project management and supervision consultant (Jun 2011)
- 1.4 Implement and complete civil works (September 2013–Jun 2019)

Output 2: Border and customs facilities modernized

- 2.1 Procure equipment (Jan 2015)
- 2.2 Install equipment (June 2015)
- 2.3 Rehabilitate and improve facilities (Jan 2015–Jun 2019)

Project Management Activities

- Conduct needs assessment for specific skills and knowledge areas (Q1–Q2 2015) [G/CD]
- Customize learning modules as needed to fit participant needs (Q3 2015) [G/CD]
- Deliver and evaluate training courses for 170 staff (50% female) in procurement, project management, safeguards, and financial management. (Q4 2015–Q4 2016) [G/CD] [GE]



Inputs

- A summary of main resources
- Group inputs by financier

Example:

Inputs

Government:	\$160,000,000
ADB:	\$160,000,000
World Bank Group:	\$100,000,000 (loan)
Australia:	\$60,000,000 (grant)



What could prevent success?

Risks



What could go wrong?

Impacts the Project is Aligned With			
<i>Results Chain</i>	<i>Performance Indicators with Targets and Baselines</i>	<i>Data and Reporting</i>	<i>Risks</i>
Outcome			
Outputs			
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Risks are:

- External factors outside project control that could prevent achievement of targeted results
- Uncertainties

CHECKLIST



What could shift in the external environment?



What external forces may act against project success?



Transport – Identifying Risks

Outcome



Output



Activity



Mobility from
A to B
increased

Sudden surge in crime
limits travel



Roads built

Bilateral issues lead to
border closure delaying
equipment imports



Designing and
constructing
roads



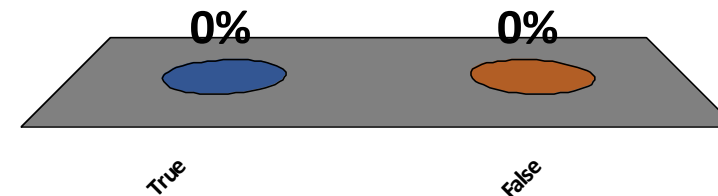
How do we manage for success?

Results-focused Project Monitoring and Reporting



Question: True or False? If the project has delivered its outputs, measuring outcomes is no longer important:

- A. True**
- B. False**



Why is monitoring outcomes so important?

Output



Outcome



Design stage considerations for ensuring quality results-based monitoring

- Required monitoring and evaluation (M&E) activities budgeted for
- Responsibilities, data collection methodologies, and reporting requirements adequately reflected in Project Administration Manual (PAM) and consultant Terms of Reference (TOR)
 - Independent M&E consultant



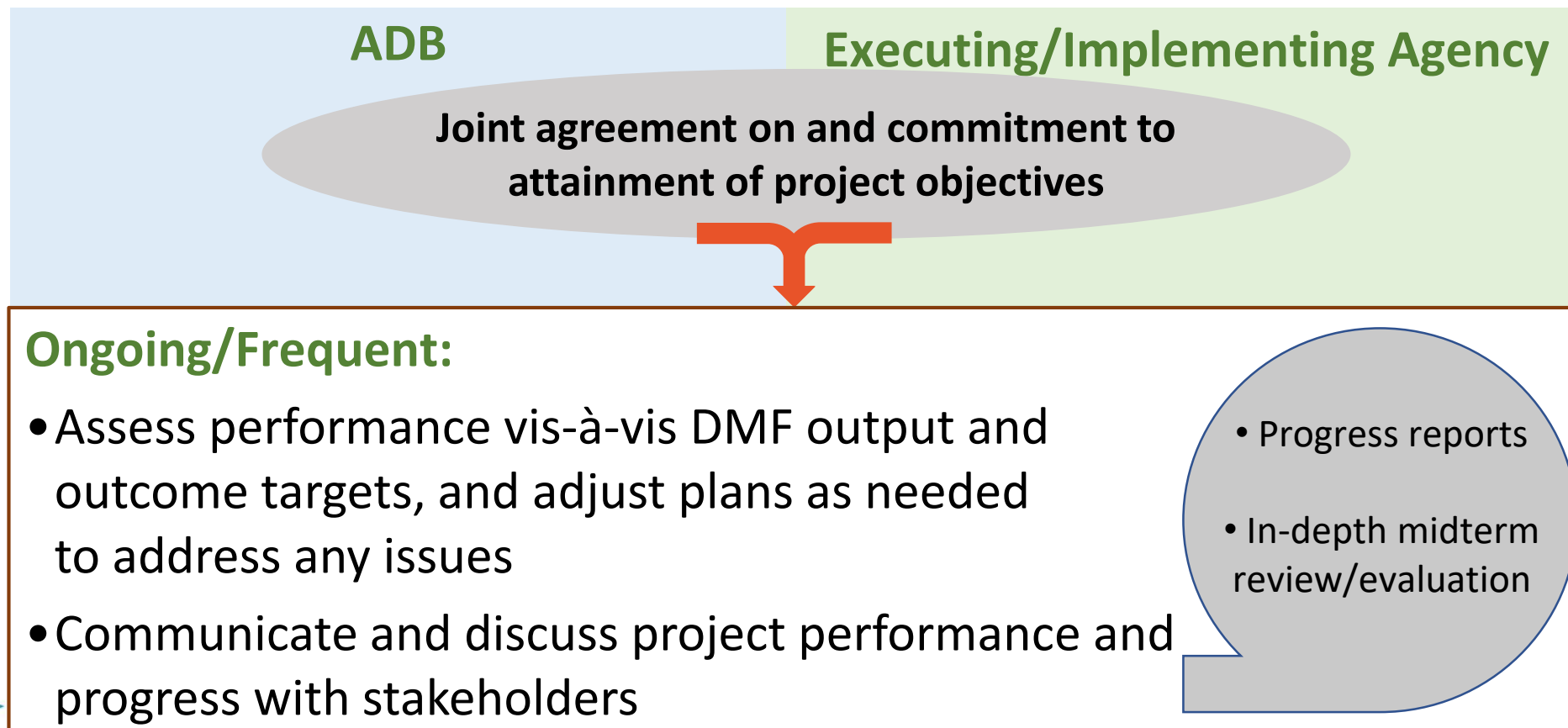
Project Administration Manual

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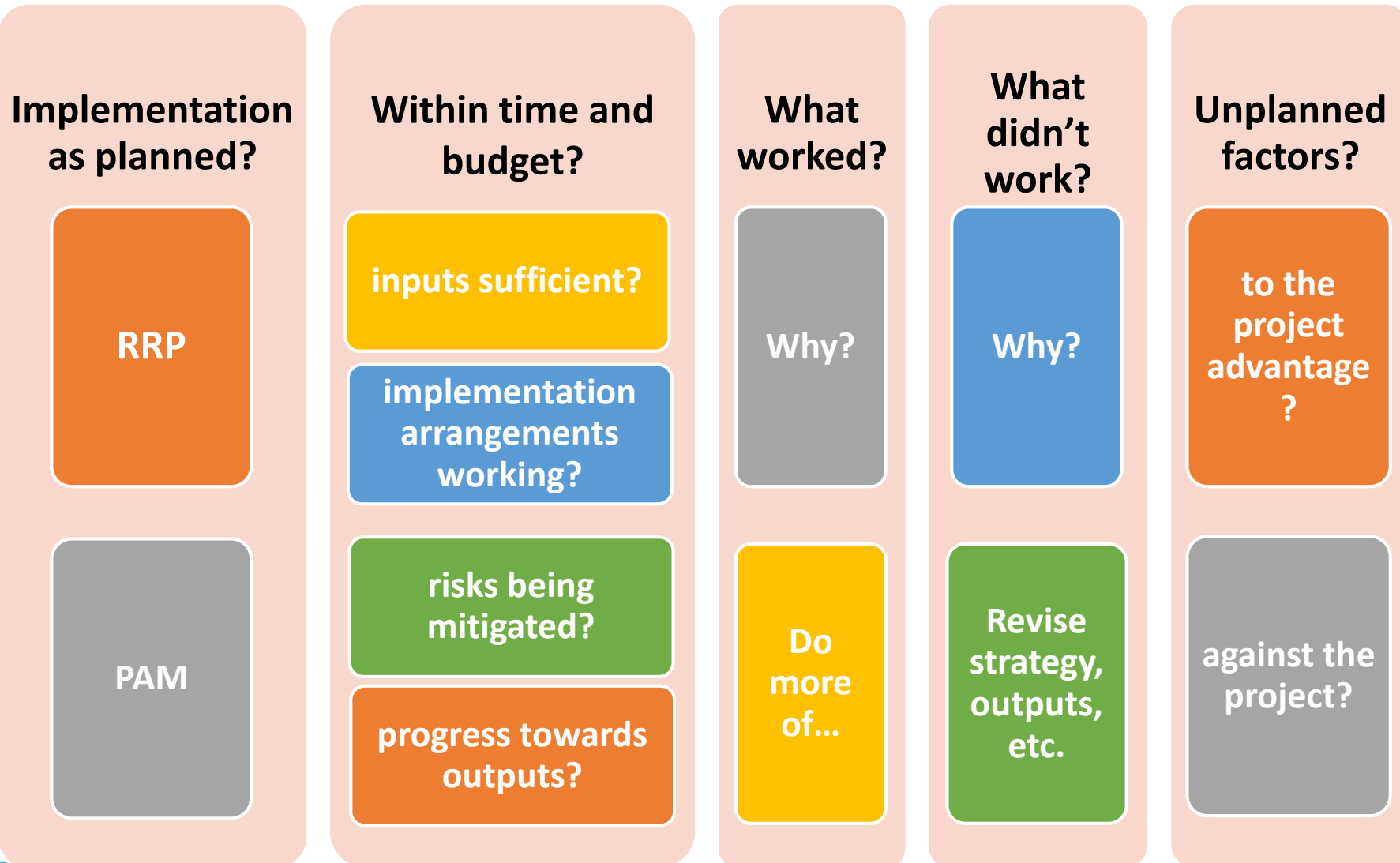
1. Project Description
2. Implementation Plans
3. Project Management Arrangements
4. Costs and Financing
5. Financial Management
6. Procurement and Consulting Services
7. Safeguards
8. Gender And Social Dimensions
9. Performance Monitoring, Evaluation, Reporting And Communication
 - A. Project DMF
 - B. Monitoring
 - C. Evaluation
 - D. Reporting
 - E. Stakeholder Communication Strategy
10. Anticorruption Policy
11. Accountability Mechanism
12. Record of PAM Changes



Roles and Responsibilities for ADB financed projects



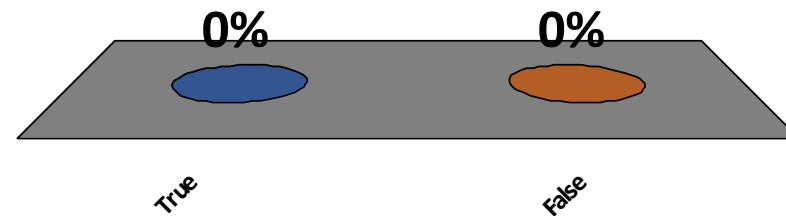
Results-focused Project Management



Question: True or False? A good progress monitoring report provides as many details as possible about activities:

A. True

B. False

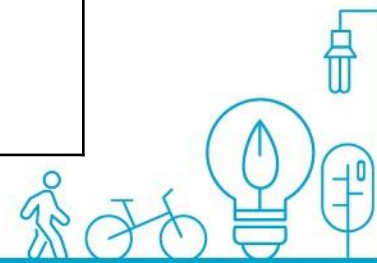


Role of DMF during implementation



Project Administration Manual: DMF reporting template

Results Chain	Performance Indicators with Targets and Baselines	Achievements
<p>Outcome</p> <p>Productive and resource efficient agribusiness value chains developed in project areas</p>	<p>By 2026</p> <ul style="list-style-type: none"> a. At least 15% increase in yields (2017 baseline: rice 2.7 tons, maize 4 tons, cassava 20 tons and mango 15 tons/ha). b. GHG emissions reduced by 240,000 tons of CO2 (2017 baseline: 0 tons reduced due to the project). c. At least 50 agribusinesses become more resource efficient in terms of water savings (5-10% efficiencies); energy savings (20%); and reduction in post-harvest losses (10%) (2017 baseline: 0). 	
<p>Outputs</p> <p>1. Critical agribusiness value chain infrastructure improved and made climate resilient</p>	<p>By 2024</p> <ul style="list-style-type: none"> 1a. 27 irrigation and water management systems rehabilitated (2017 baseline: 0). 1b. 800 on-farm rainwater harvesting ponds installed and commissioned (2017 baseline: 0). <p>...Etc.</p>	



Example project progress report excerpt at year 2 of project implementation:

OUTPUTS

Output: Road users' capacity for safe road use increased.

Indicator	Unit of measure	Baseline	Baseline date		Year 1	Year 2	Year 3	Year 4	End of Project
At least 6,400 road users in project communities with increased awareness of safe road use practices. (M/F)	#	0	09/2011	T			3,000		6,400
				A	20 M: 10; F: 10	2,000 M: 1,250 F: 850			

Status Update: Following the pilot of the training program in year 1, the training was rolled out in year 2, putting the project on track to meeting the Year 3 milestone target. Via the post-training survey 2,020 participants (98% of respondents) have indicated that the training improved their awareness of safe habits for road use. The remaining 2% indicated that they were already aware of the habits taught prior to their participation.

Output: State highways upgraded.

Indicator	Unit of measure	Baseline	Baseline date		Year 1	Year 2	Year 3	Year 4	End of Project
At least 419 km of state highways upgraded to 2 lanes with paved shoulders.	Km	0	09/2011	T	0	100	280	370	419
				A	0	20			

Status Update: Material procurement delays put the building works being planned schedule. Requisite materials have now been acquired, and construction has begun. Project management has agreed to seek to speed-up work; however, given the extensive delay, the project timeline will need to be extended by 1 year.

Legend: T = target; A = actual

Example detailed DMF reporting template



Revising or Updating the DMF

- DMF should be adjusted as needed to reflect changing circumstances and project environments
- To make a change it must be:
 - (a) agreed between ADB and executing/implementing agency; and,
 - (b) recorded, justified and approved
 - **Major change in scope** – substantive changes to project outcome statement or outcome indicators
 - Requires Board approval on no-objection basis
 - **Minor change in scope** – substantive changes to project outputs or output indicators



Role of DMF at Project Completion

Evaluate performance

Document learning and lessons for future programming

How ADB projects are rated

- **Relevance** – was outcome consistent with country and sector priorities and ADB's strategic objectives? Was project design suitable for addressing identified development constraints?
- **Effectiveness** – were outcome and output targets achieved?
- **Efficiency** – how efficiently were outputs delivered? (time, cost, expected rate of return)
- **Sustainability** – is outcome likely to be sustained overtime in an environmentally and socially sustainable way?



In Summary....

A Good Quality DMF:

1. Is informed by stakeholder consultations
2. Has a proper results chain – outputs and outcome
3. Has SMART indicators
4. Is actively used as a project management tool



Thank You!

Questions?

For enquiries:
Irenaud@adb.org

Resources:
ADB DMF Guidelines (2019)
Workshops on request

