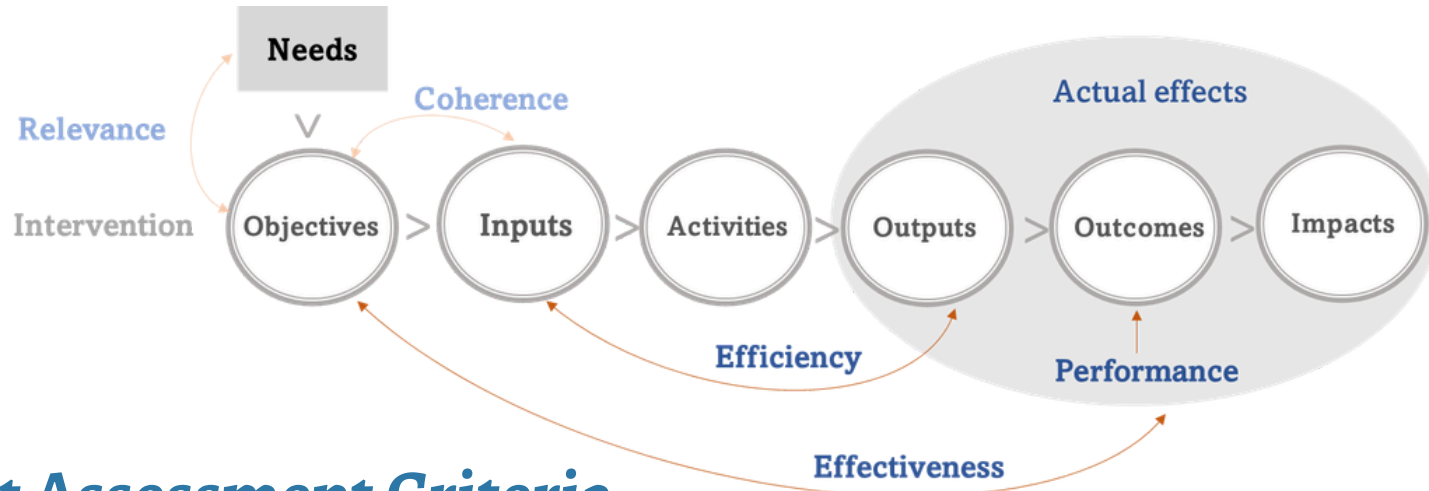


IMPACT ASSESSMENT FRAMEWORK

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Logic Chain



Impact Assessment Criteria



Performance

How much the financial outcomes occur after applying the new technology

Efficiency

How much the resources used by the new technology for the given changes generated

Effectiveness

How successful the new technology has been in achieving its objectives

Evaluation Indicators

Impact Assessment

Performance

Profitability

Return on Assets: how profitable a company is in relation to its total assets

Return on Equity: how profitable a company is in relation to its equity

Return on Sales: how efficiently a company turns sales into profits

Competitiveness

Composite Indicator Score: the aggregation of multiple financial ratios. Financial efficiency level of the target company in comparison with others. Based on Data Envelopment Analysis (DEA) model

Efficiency

Economic Benefits

Net Present Value (NPV): Sum of Discounted Net Benefits

Internal Rate of Return on Investment: The discount rate that makes the NPV of a project zero

Benefit-cost ratio (BCR): PV of all benefits vs. PV of investment costs

Social benefits

Job creation: The degree the project creates employment

Skill enhancement: The degree staff involved in the project learn new skills

Stakeholders' satisfaction: The degree the stakeholders are satisfied with the performance of the company after using the new technology

Environmental Benefits

Energy use: Total value of energy saved per one product unit vs. cost of new technology

Water use: Total value of water saved per one product unit vs. cost of the new technology

Waste: Total value of waste prevented per one product unit/ cost of the new technology

Effectiveness

Achievements vs objectives

How successful has the new technology been in achieving or progressing towards its objectives?

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