



Training Course Impact Assessment and Livelihood Analysis in Systems Research

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Simple Tool for Technology Evaluation

Boubaker Dhehibi
SIRPSP – ICARDA
b.dhehibi@cgiar.org

Technology Evaluation

- Identify the technology
- Describe the advantages
- Develop explicit and transparent budget to assess its economic feasibility
- Identify constraints to adoption
- Estimate adoption rates

Benefit-cost analysis of technologies using Partial Budget Analysis

Without technology					With technology option				
1	Costs	A	B	C		Costs	D	E	F
2	Inputs	Quantity	Unit price	Total		Inputs	Quantity	Unit price	Total
3	seeds					seeds			
4	fert					fert			
5	pesticides					pesticides			
6	labor					labor			
7	fuel					fuel			
8	machiney					machiney			
9	Total	XX	XX	XX		Total	XX	XX	XX
10									
11	Revenue					Revenue			
12	Main product					Main product			
13	Secondary product					Secondary product			
14	Total revenue	XX	XX	XX		Total revenue	XX	XX	XX
15									
16	Indicators								
17	Net returns			C14-C9					F14-F9
18	% change in NR								(F17-C17)/C17
19	% change in TC								(F9-C9)/C9
20	IRR								Change NT/Change in TC
21	Benefit-cost Ratio			C14/C9					F14/F9

Key Features of the Partial Budget Form

- **Simplicity**
- **Transparency- production, prices, etc**
- **Different professionals (agronomists, economists, farmers can scrutinize)**
- **Provides basic agronomic and economic indicators**
- **Forms the basis for more sophisticated analysis-such as optimal crop allocation and input use (farm models)**

Thank you