

**SUSTAINING DURABLE RURAL DEVELOPMENT THROUGH
GOOD PRACTICE MODELS**

**SUSTINEREA DEZVOLTARII RURALE DURABILE PRIN
INTERMEDIUL MODELELOR DE BUNA PRACTICA**

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Rural Economy and Strategic Management are expected to support durable rural development in reducing the gap between the growth that major urban centres had over the last years and that of small rural communities. In particular, Rural Development and Strategic Consultancy provide access to high quality information and to appropriate protocols. The present paper aims to present the importance of strategic planning in durable rural development and, also, the role of a good practice model in the development of a rural community. The good practice model presented here was created as an experimental model for a middle-sized rural village based on statistical data provided by the National Statistics Institute.

Key words: *good practice model, rural development*

INTRODUCTION

An increasing challenge in today's rural development is to manage risks and to reduce the errors that occur in the ways that present rural planners develop the rural growth strategies. In order to reduce these errors, rural communities tend to adopt in our days development strategies already implemented elsewhere proven to be reliable and cost efficient. But sometimes these strategies can not be utilised somewhere else because of its individualisation for a certain community.

This is why good practice models appeared. A „good practice model” is an experimental model based on a successful project that can be adapted for use in all regions. Good practice models (GPM) provide access to high quality information that has been identified as being essential for

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good local governance. Better information would support the use of the best evidence and provide more accurate assessment of the quality of life in rural communities and the access of people to services. Moreover, GPM should provide ready access to appropriate knowledge and protocols that can be used for the development of rural infrastructure and the increase of services offered. They should also provide a rational aid to diagnosis or probable outcome on the basis of feasibility socio-economic analysis.

DESCRIPTION OF THE EXPERIMENTAL MODEL (GPM)

The “Hops Eco Farm Project for the Romanian beer industry” presents a good practice model that can be applied for further development of local rural communities. It represents the next step in ecological agriculture research and is based on the implementation of a minimal works system with no chemical treatments whatsoever. The economic results obtained by our proposed experimental model show that the project’s feasibility is high with a great investment return rate, particularly worth considering when developing a business.

The size of the Hops Eco – Farm must be of, at least, 250 hectares and of a maximum of 500 hectares per farm (for better material and human resources management).

The breeds of hops that would be cultivated in the Hops Eco – Farm would be Northern Brewer as a semi – early breed, Brewers Gold, as a tardy breed. The time of plantation and the length of the vegetation period for these breeds are different so the production can be rationalized for the duration of the year.

The advantages of the Hops Eco – Farm project consists of that the hops cones don’t contain any chemical substances that usually are absorbed from fertilizers and the costs are down and the benefits are increasing due to the fact that the distances used for the installation schemes are reduced, the hops breeds used have different vegetation periods and soil works are on a minimal works system.

The existent competitors on the Romanian market use the classic hops cultivation scheme with a single breed/ plantation, full soil works system and chemical fertilization scheme. The products offered in Romania by competitors are grown in classical scheme farms using chemical based products. The currently hops cultivated surface in Romania is of

approximately 250 hectares and the production is sold to the major beer manufacturers. With a production of 2 tons per hectare in a year, the total annual production is of approximately 500 tones.

FESABILITY STUDY OF THE PROPOSED EXPERIMENTAL MODEL (GPM)

The economic results obtained by the proposed experimental model show that the projects` feasibility is high with a great investment return rate, particularity worth considering when developing a business.

TABEL 1. THE PROJECTION OF THE INVESTMENT OPERATING COST OVER A 5 YEAR PERIOD

Category	Investment value	Year 1	Year 2	Year 3	Year 4	Year 5
Venituri		540,000	540,000	540,000	540,000	540,000
Cheltuieli	450,000.00	180,895	191,662	205,674	216,890	226,174
Total	-450,000.00	359,105	348,338	334,326	323,110	313,826
Cost benefit ratio	-	33%	35%	38%	40%	42%

SOURCE: CALCULATED ON THE BASIS OF THE METHODOLOGY FROM "GUIDE TO COST-BENEFIT ANALYSIS OF INVESTMENT PROJECTS, euro PEAN COMMISSION - DG REGIONAL POLICY , 2000"

TABLE 2.ECONOMIC PROJECTIONS OF THE GPM

Economic projections estimated over a 20 years	Values	Updated values
Incomes	15,162,523	14,039,372.82
Expenses	5,731,263	5,306,724.54
Cost benefit ratio		0.02646

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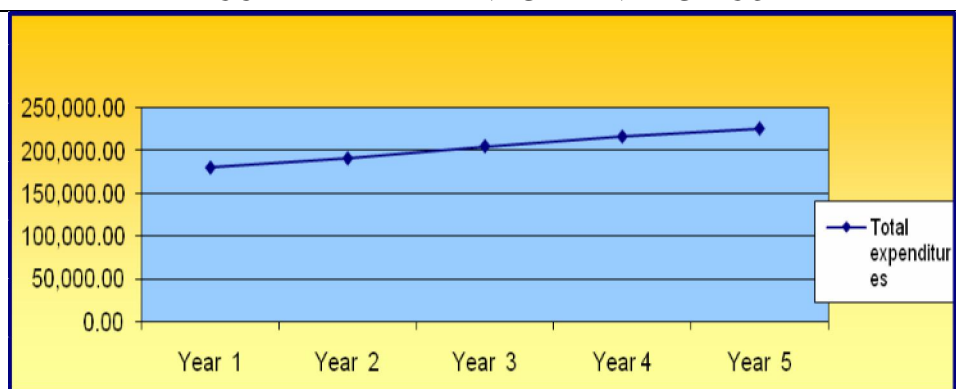


Figure 1.The projection of investment operating costs over a 5 year period

As the projection of the operation costs shows, the internal rate of return for a 450.000 Euro investment is estimated at approximately 79% after a 5 year period and with a cost/benefit ratio of 0.026 for a 20 year period projection.

TABLE 3. THE PROJECTION OF INVESTMENT OPERATING INCOMES OVER A 5 YEAR PERIOD

Incomes category	Year 1	Year 2	Year 3	Year 4	Year 5
Incomes out of hops cones production	512,500.00	512,500.00	512,500.00	512,500.00	512,500.00
Incomes from the state budget	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00
Other incomes	2,500.00	2,500.00	2,500.00	2,500.00	2,500.00
Total	540,000.00	540,000.00	540,000.00	540,000.00	540,000.00

SOURCE: CALCULATED ON THE BASIS OF THE METHODOLOGY FROM "GUIDE TO COST-BENEFIT ANALYSIS OF INVESTMENT PROJECTS, Euro PEAN COMMISSION - DG REGIONAL POLICY, 2000"

The operating incomes registered over a 5 year period by the GPM present a constant level being of 540.000 Euro. Approximately 94,9% of the total incomes of the GPM are registered from the production activity, this being the main workforce consumer in the region, as shown in Table 3.

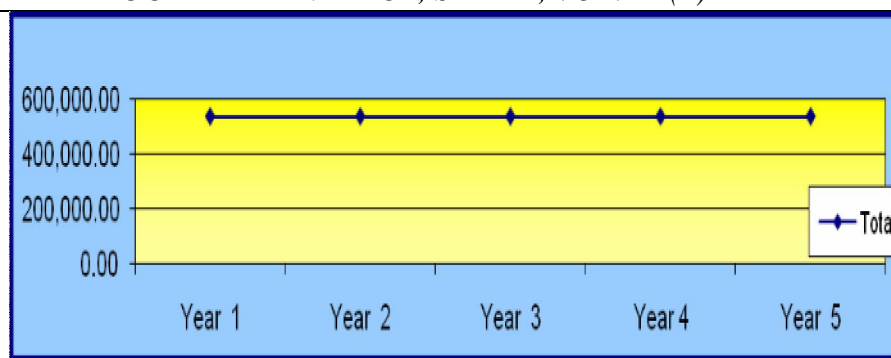


Figure 2. The projection of investment operating incomes over a 5 year period

From the projection of the investment over a 5 year period, it reveals that the total cost/benefit ratio registers an increasing tendency, from 33% in year 1 to 42% in year 5 and with a cumulated value in year 5 of 1,228,705 Euro. The cash flow registers a decreasing tendency over the same 5 year period, as shown in Table 4.

TABLE 4. THE PROJECTION OF THE INVESTMENT OVER A 5 YEAR PERIOD

Category	Investment value	Year 1	Year 2	Year 3	Year 4	Year 5
Incomes	-	540,000.00	540,000.00	540,000.00	540,000.00	540,000.00
Expenses	450,000.00	180,895.00	191,662.00	205,674.00	216,890.00	226,174.00
Cash-flow	450,000.00	359,105.00	348,338.00	334,326.00	323,110.00	313,826.00
Cumulated value	450,000.00	-90,895.00	257,443.00	591,769.00	914,879.00	1,228,705.00
Cost benefit ratio	-	33%	35%	38%	40%	42%

SOURCE: CALCULATED ON THE BASIS OF THE METHODOLOGY FROM "GUIDE TO COST-BENEFIT ANALYSIS OF INVESTMENT PROJECTS, euro PEAN COMMISSION - DG REGIONAL POLICY, 2000"

The economic projections made over a 20 year period for the GPM show a cost/benefit ratio of 0.378% for the NPV in year 20, as a total of the overall production activity.

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TABLE 5. INVESTMENT ECONOMIC PROJECTIONS OF THE GPM

Economic projections estimated over 20 years	Values	Updated values
Incomes	15,162,522.65	14,039,372.82
Expenses	5,731,262.51	5,306,724.54
Cost benefit ratio		0.37799%

The socio-economic analysis of the investment proposed by this GPM presents the way the „good practice model” will affect the socio-economic environment through the proposed investments and, also, by the indirect investments that will be made in the local rural community after the implementation of the GPM. A short analysis of the GPM from a socio-economic point of view reveals that the investment costs will decrease yearly and cost/benefit ratio after adopting this experimental model will present a sequential growth.

The socio-economic analysis present a internal rate of return on the investment of approximately 73% that includes the benefits from incomes, workplaces created, new investments for the local community (and, indirectly, other benefits for the principal investment: better infrastructure, qualification of workforce, access to services).

TABLE 6. THE SOCIO-ECONOMIC ANALYSIS OF THE INVESTMENT

Category	Investment value	Year 1	Year 2	Year 3	Year 4	Year 5
Incomes	706.56	540,059.50	540,059.50	540,059.50	540,059.50	540,059.50
Subtotal incomes	706.56	540,059.50	540,059.50	540,059.50	540,059.50	540,059.50
Investment	450,000.00					
Expenses	36,978.75	180,895.00	191,662.00	205,674.00	216,890.00	226,174.00
Subtotal expenses	486,978.75	180,895.00	191,662.00	205,674.00	216,890.00	226,174.00
Total	486,272.19	359,164.50	348,397.50	334,385.50	323,169.50	313,885.50
Cost benefit ratio	-	33%	35%	38%	40%	42%

SOURCE: CALCULATED ON THE BASIS OF THE METHODOLOGY FROM "GUIDE TO COST-BENEFIT ANALYSIS OF INVESTMENT PROJECTS, euro PEAN COMSSION - DG REGIONAL POLICY , 2000"

A Good Practice Model for Rural Development has the role to evaluate the needs of local communities and to find the appropriate ways through which a rural village can grow. The proposed experimental model to be used as a GPM: "The Hops Eco Farm Project" has revealed a IRR of 78.73% from the financial-economic analysis and 73.01% from the socio-economic analysis. The benefit cost/ratio presented by the socio-economic analysis indicators of 2.646% presented an increased level of social attractiveness for the model, fact that gives the GPM an assertive role in durable development.

TABLE 7. FESABILITY ANALYSIS CONCLUSIONS

<i>Indicator</i>	Financial-economic analysis indicators	Socio-economic analysis indicators
<i>Internal financial rentability rate IRR</i>	78.73%	73.01%
<i>Updated net value NPV</i>	3,520,796.68 euro	3,311,920.12 euro
<i>Cost benefit ratio Rc/b</i>	0.37799%	
<i>Benefit cost ratio Rb/c</i>		2.64585%

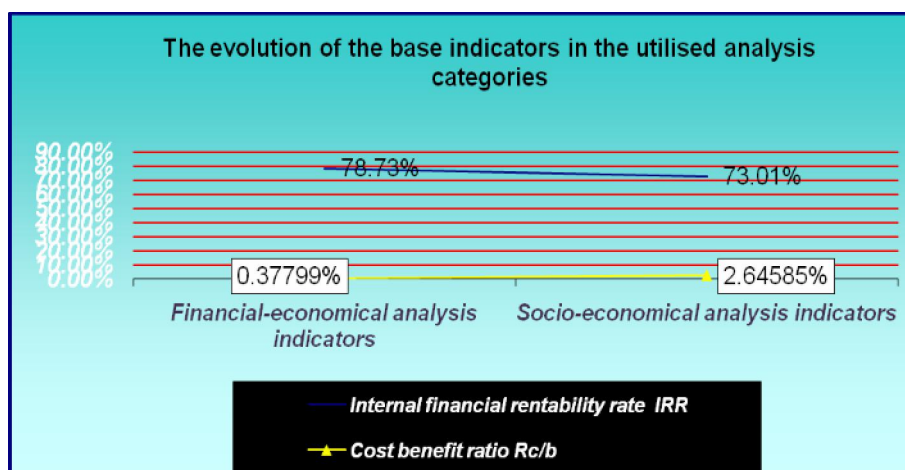


Figure 3. The evolution of the base indicators

CONCLUSIONS

A GPM has the role of sustaining the rural communities in their efforts of durable development by creating the protocols and introducing a reduced risk environment that can help rural villages and their governance.

The „Hops Eco Farm Project” has been proposed as a „good practice model” because of its high return on investment rate (ROI) and due to the high internal rate of rentability(IRR) shown by the socio-economic analysis that reaches 73.01%.

Good Practice Model (GPM) have the role of reducing the gap in development present between urban and rural centers using high quality information with the purpose of decreasing the risks that are usually met by local governance in the implementation of rural development strategies.

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