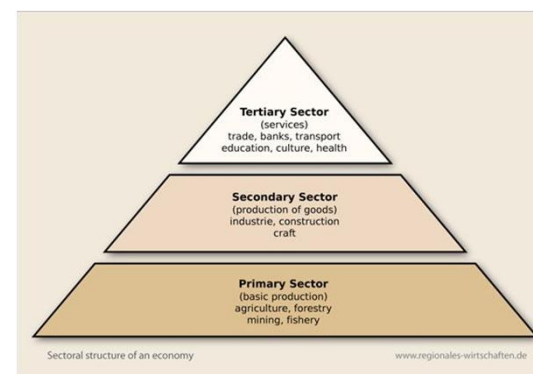


CLASSIFICATION OF WATER RESOURCES AND DETERMINATION OF THE RESOURCE QUALITY OBJECTIVES IN THE LETABA CATCHMENT

STATUS QUO ASSESSMENT, IUA AND
BIOPHYSICAL NODE DELINEATION AND
IDENTIFICATION

Economic Regions

Sectoral structure of the economy



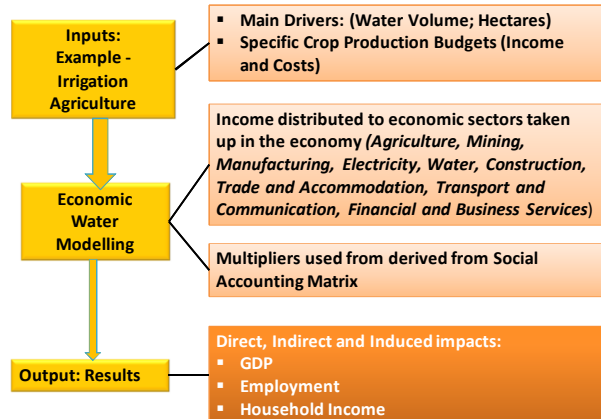
Scope

- “ Eight Economic Regions
- “ Large water volume users
- “ Economic Activities
 - Irrigation Agriculture
 - Commercial Forestry
 - Industries
 - Eco-tourism

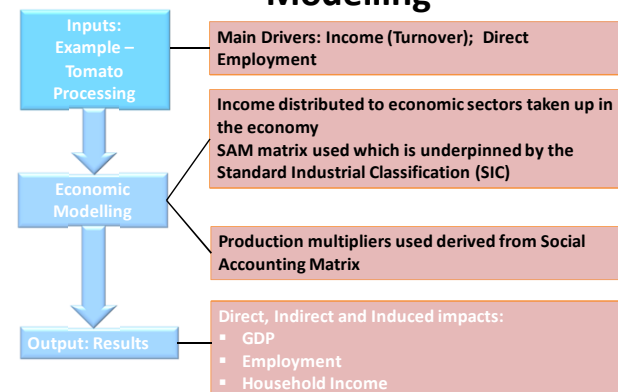
APPROACH

- “ Use of the Water Impact Model (WIM) and Production Impact Model (PIM) applied to the Letaba catchment
- “ Components used were:
 - Limpopo Social Accounting Matrix
 - Computer based crop budgets (Combuds)
 - Turnover of industries (ex. Juice, Tomato)
 - Tourism - Number of bed nights sold

Modeling of Primary Sector in WIM-model



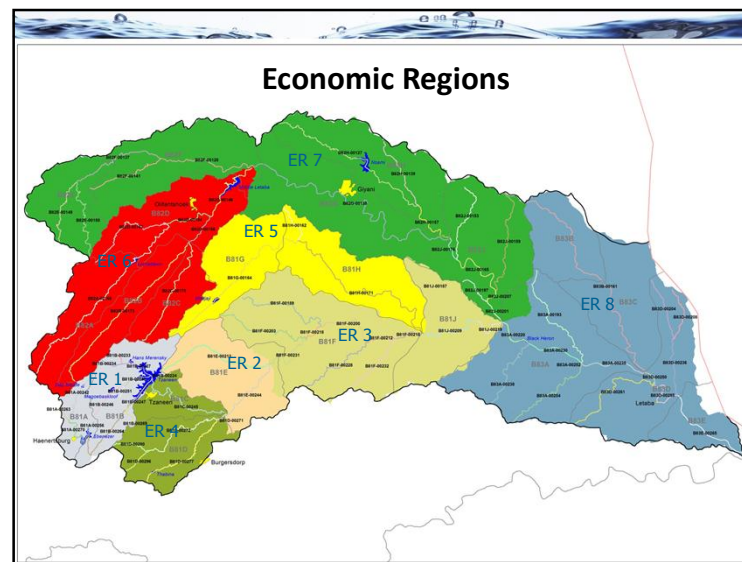
Secondary and Tertiary sector Modelling



Reasons for identification of Economic Regions (ERs)

- “ Topographic differences
- “ Climatic differences
- “ Economic activity differences

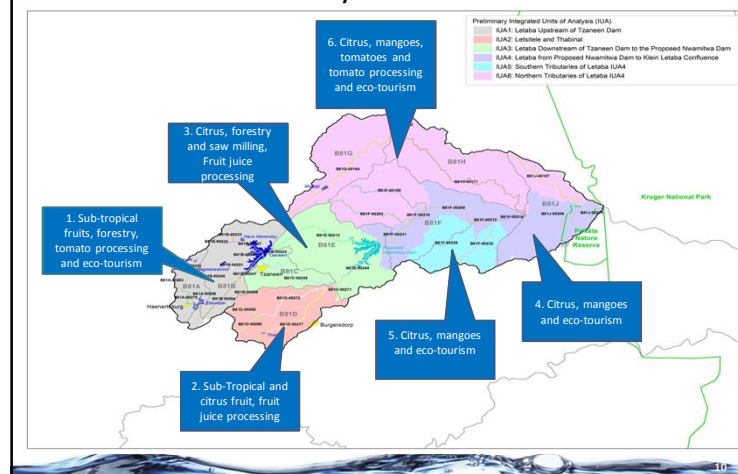
Economic Regions



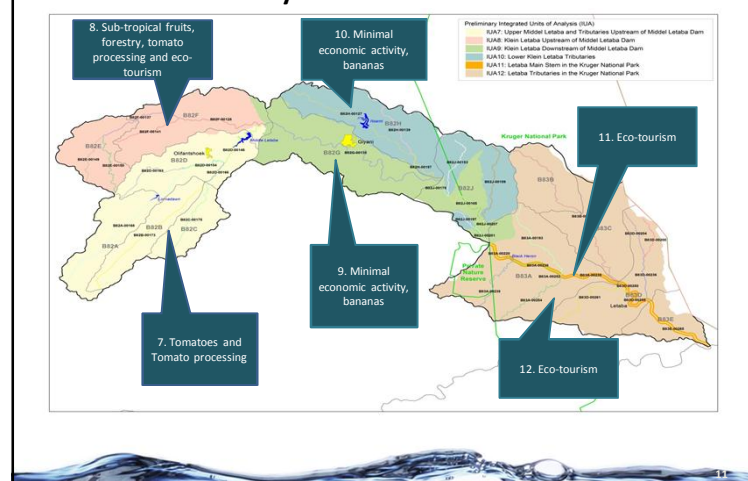
MACRO-ECONOMIC PARAMETERS

- “ GDP (direct, indirect and induced)
- “ Number of labour opportunities (direct, indirect and induced)
- “ Distribution of income to households (High and medium, and low)
- “ Note: *Direct labour and payments to low-income households an indication of impact on the alleviation of poverty in the region.*

Economic activity in IUAs: Groot Letaba



Economic activity in IUAs: Middel and Klein Letaba



ECONOMIC REGIONS RESULTS

- “ ER1 - Irrigation agriculture, commercial forestry, sawmills and eco-tourism
- “ ER 2 - ER 7: Dominant sector - Irrigation Agriculture
- “ ER 8 - Eco-tourism
- “ Criteria for selection: Labour opportunities and Income distribution to low income households

STATUS QUO ECONOMIC RATING

The ranking was expressed in the following order: 0 – no importance, 1 – Very low, 2 – Low, 3 – Moderate, 4 – High and 5 – Very high.

Sector	ER1	ER2	ER3	ER4	ER5	ER6	ER7	ER8	Average
Irrigation agriculture	4	4	5	5	5	5	5	0	4.71
Commercial forestry	3	4	0	3	3	3	3	0	2.71
Industry	3	5	0	4	4	4	4	0	3.43
Eco-tourism	2	2	4	2	0	2	2	5	2.71
Average	3.00	3.75	4.50	3.50	4.00	3.50	3.50	5.00	