



# ITU / BDT- COE workshop

Nairobi, Kenya,

7 – 11 October 2002

## Network Planning

Lecture NP- 3.5

## Business Planning

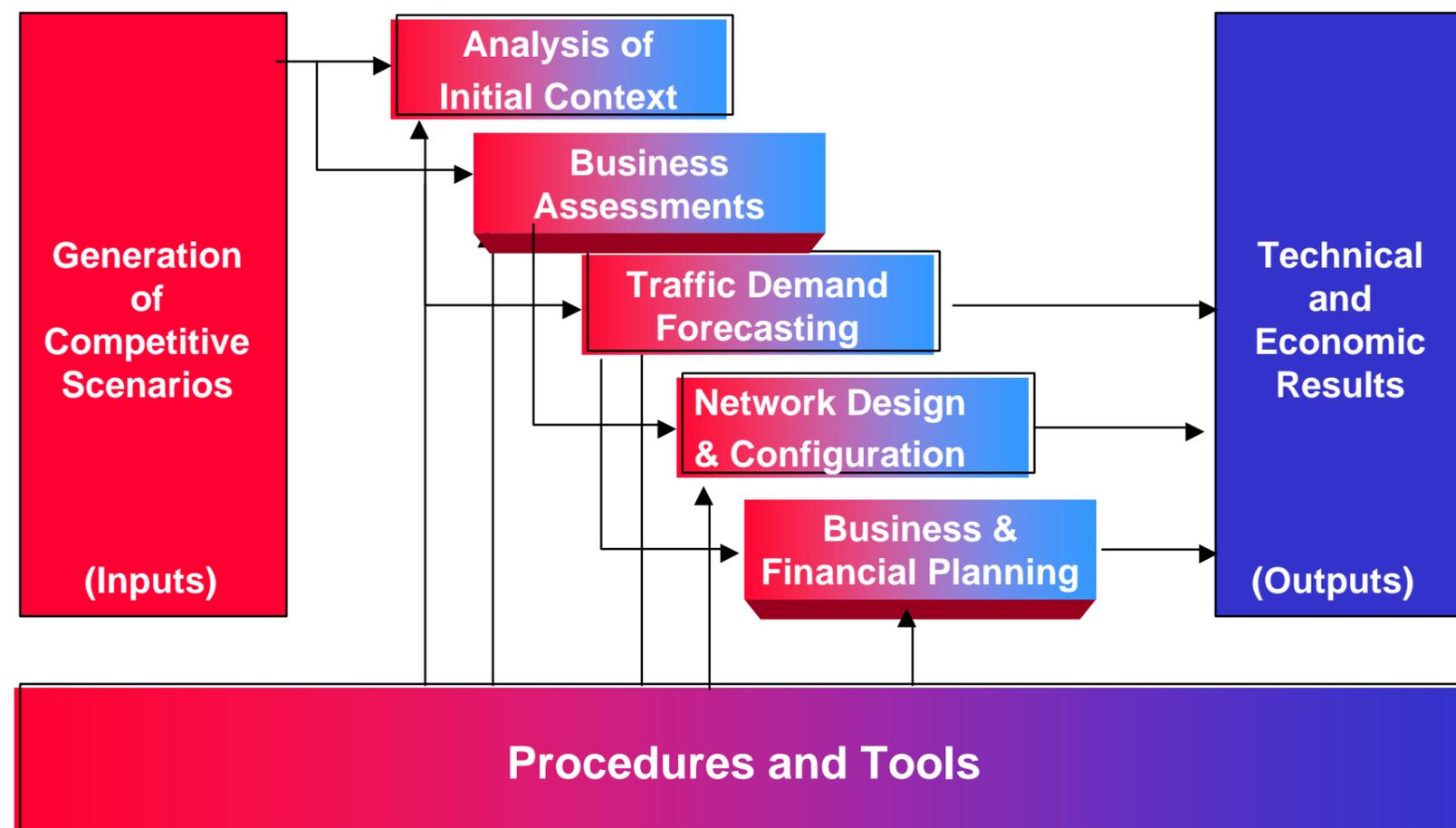


## Content Chapter 3.5

- **Role of business Planning today. Basic concepts**
- **Telecom business modeling**
- **Typical evaluation results**
- **Main actions to increase performance ratios**



# Planning Methodology: Integrated Iterative Planning Process





## Definition of business plan

**A Business Plan presents the calculation of the financial indicators that enable the managers to evaluate the financial performances of an enterprise in order to take decisions.**

A Business Plan summarises the results of the planning process:

- the objectives to reach ( subscribers demand, sales)
- the description of all **activities** requested by the project;
- the future **revenues** expected from the project;
- the planned **expenses** (investment and operations);
- the accounting statements and the **financial indicators** characterising the profitability of the project.



## Types of business plans

### Strategic Business Plan for evaluating a strategy:

- aid for making internal decisions for the whole company  
(strategic guidelines at the national level, all markets)

### Tactical Business Plans for specific projects :

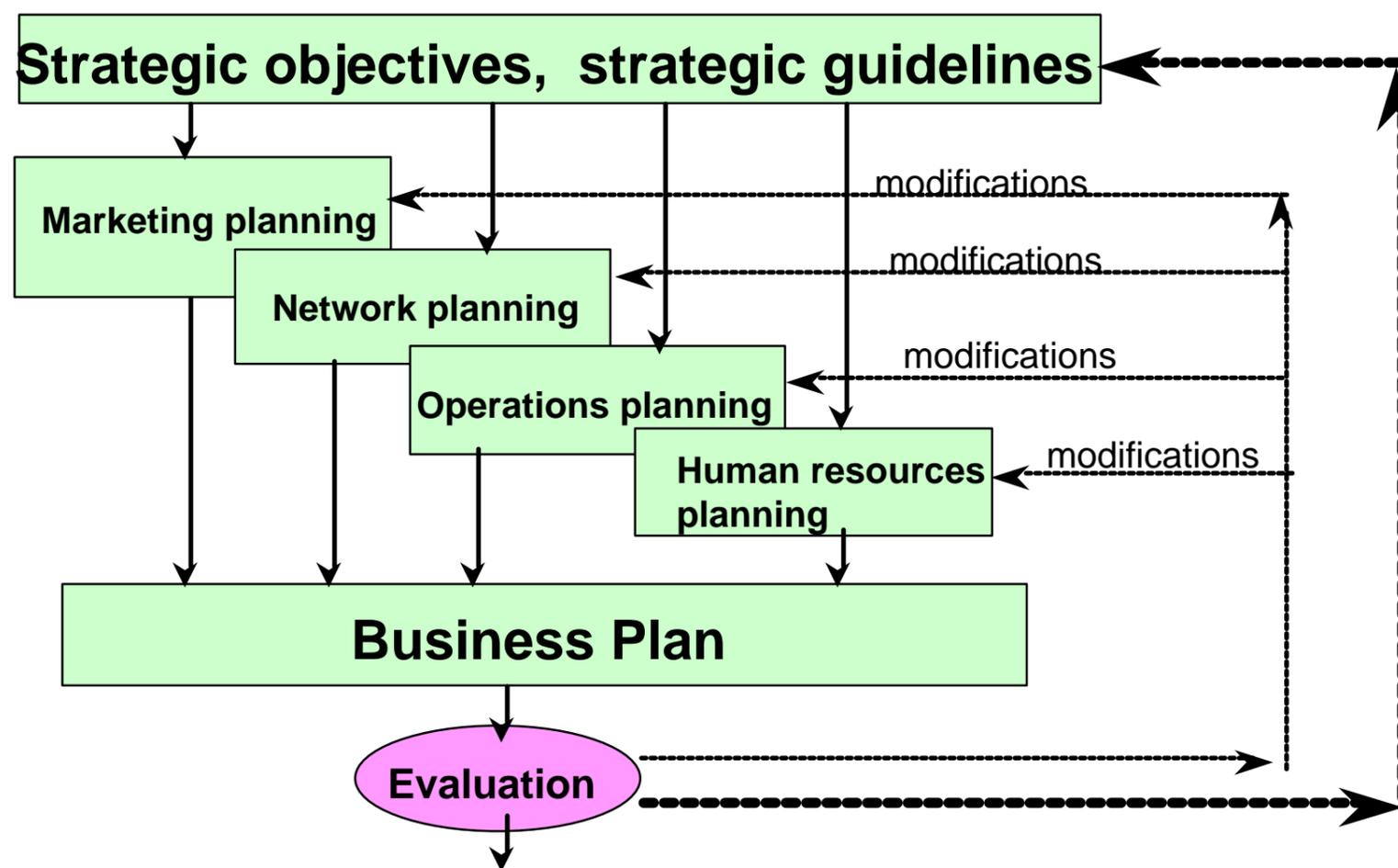
- aid for making internal decisions for a particular area, or a market segment: IN, mobiles, IP

### Short term Business Plans for management control :

- aid for monitoring the implementation of projects
- preparation and follow-up of budgets,

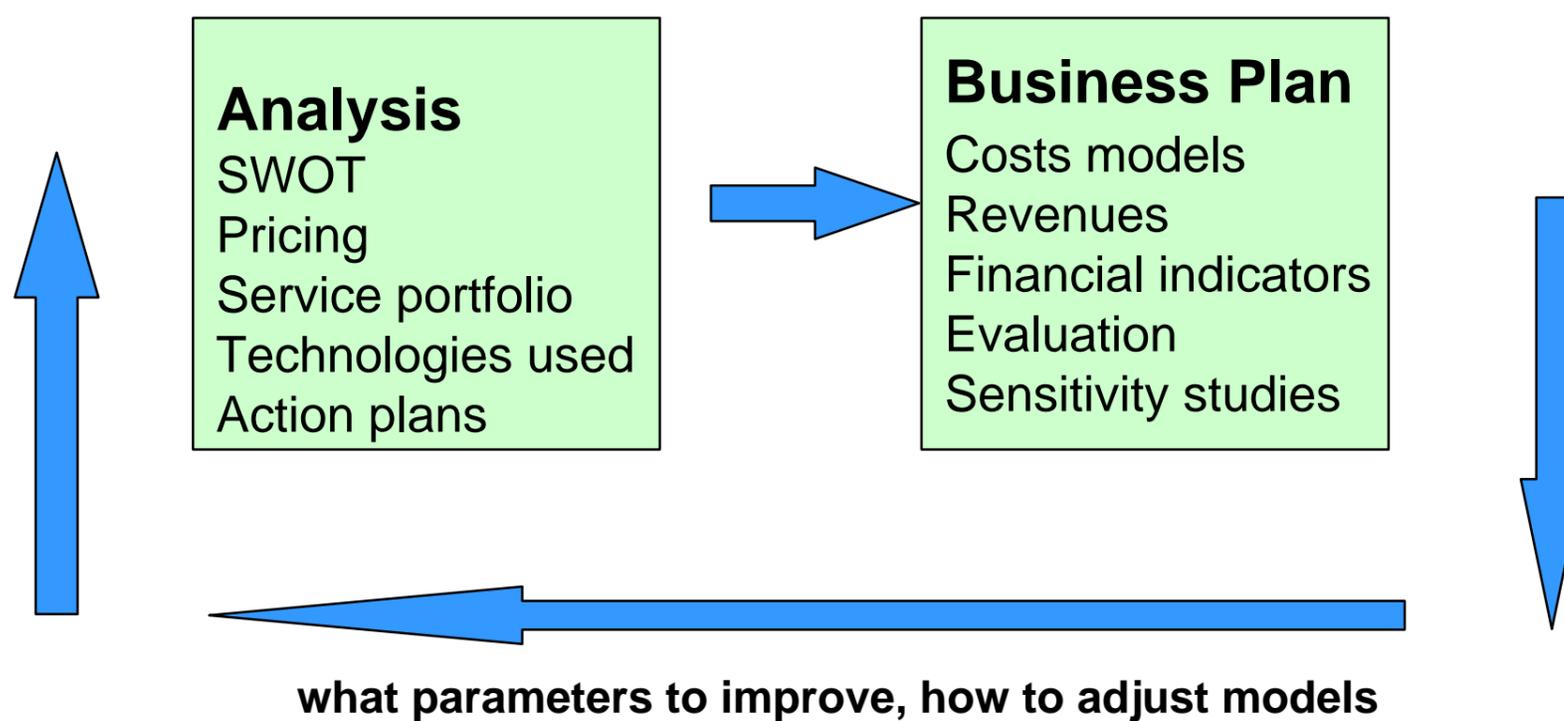


## Iterative process for evaluation



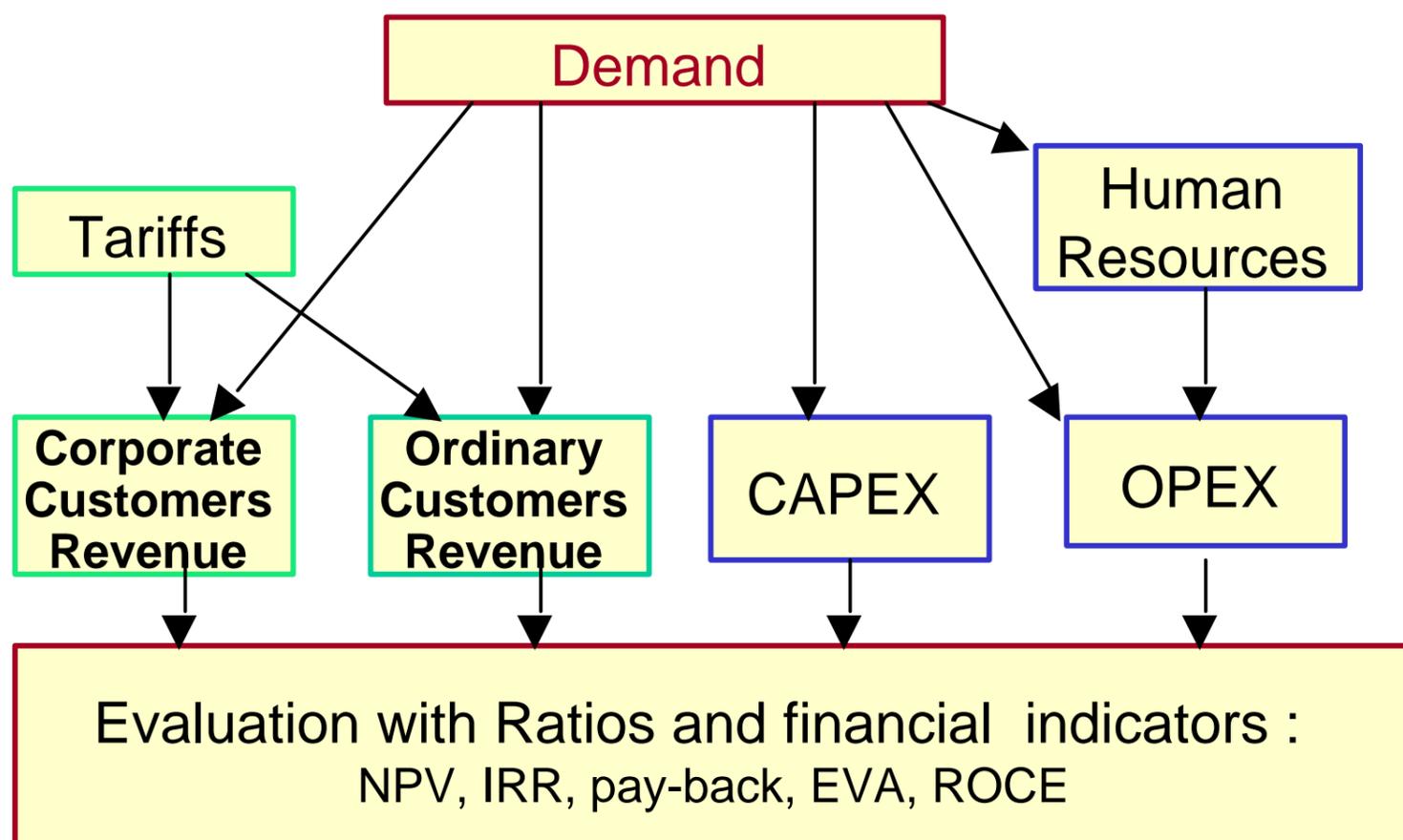


## Interaction between analysis and business plan



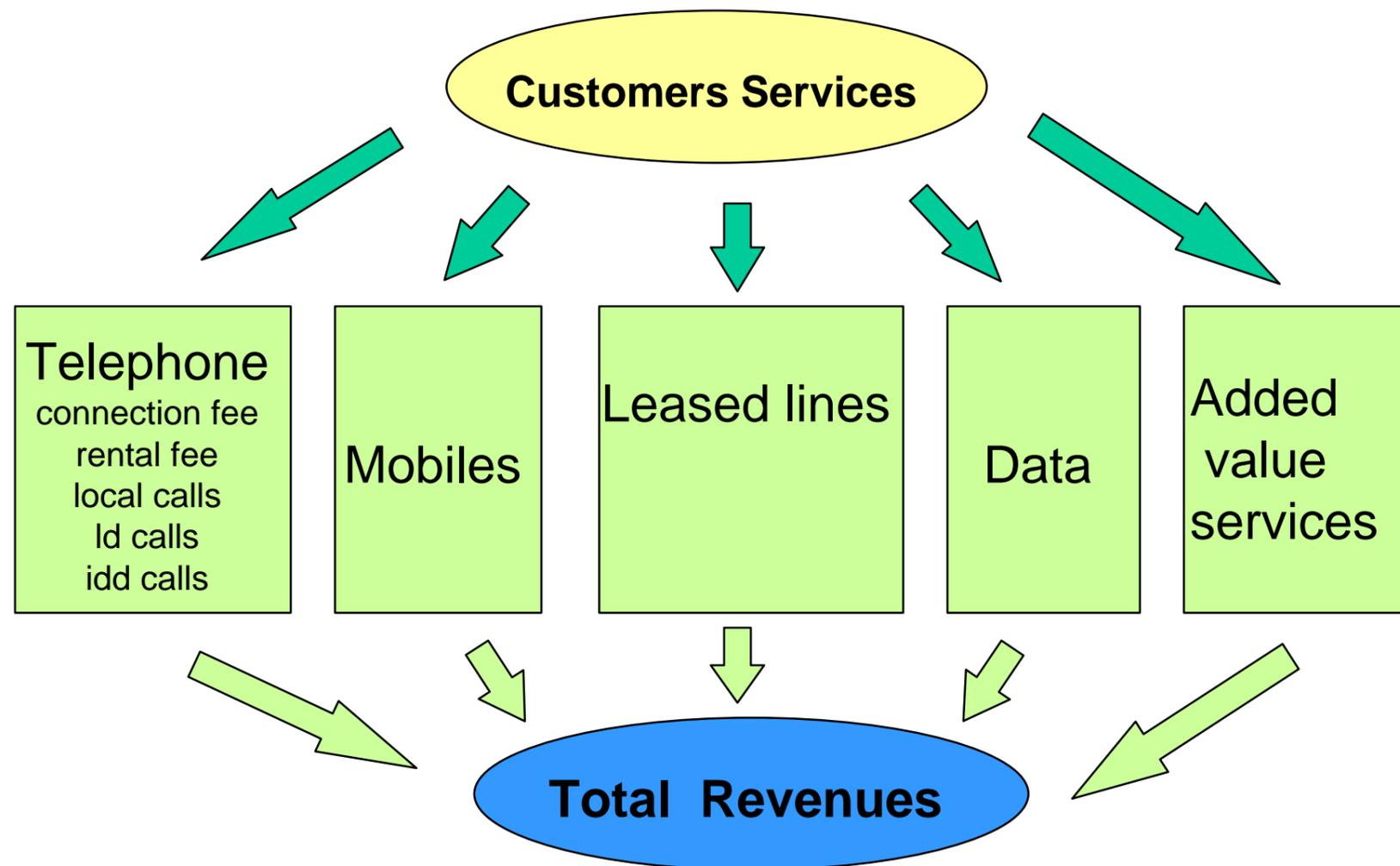


## Business model structure



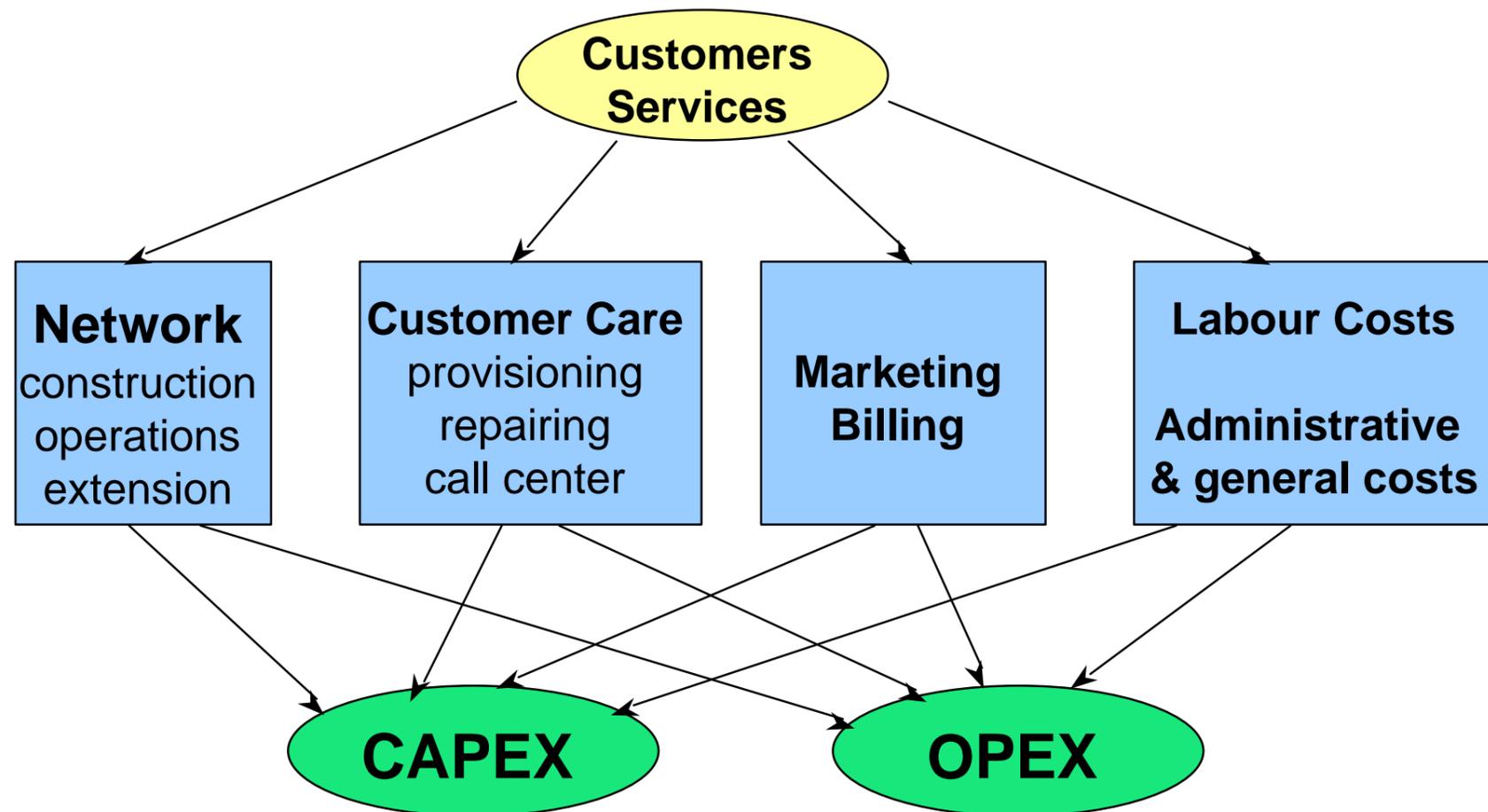


## Business model: Services Revenues calculation





## Business model : Expenses calculation





## **Business model: Financial Statement**

- **Income Statement:**  
*Net income = revenues - expenses*
- **Balance Sheet:**  
*Company capital = Assets - liabilities*
- **Cash flow statement :**  
*Cash balance = Inflows - outflows*

**All fundamental financial indicators are carried out  
with the elements of these 3 statements**



## **Business model Financial indicators calculation**

The most useful economical indicators are :

- Internal rate of return (IRR)
- Net present value (NPV)
- Discounted Payback period (DPP)
- Net cash flow (NCF)
- Discounted cash flow (DCF)
- Operating income
- Revenue per service/service class



# The purposes of the accounting statements

## Income statement

➡ *to analyse potential profit*  
*is the profit enough ?*

## Balance statement

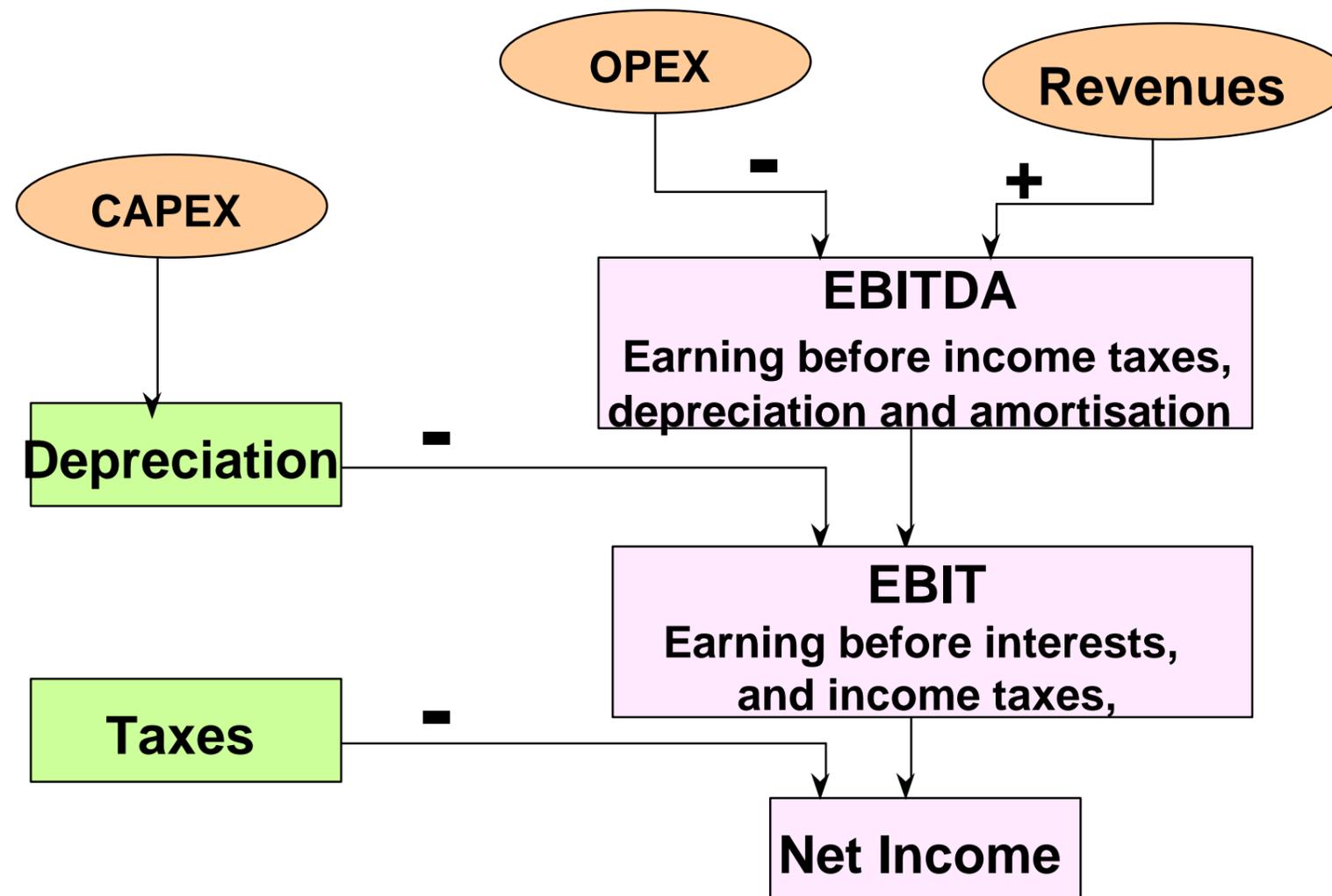
➡ *to analyse the financial structure*  
*how to finance the development*  
*enough / too much equity ? Enough/ too much debt*

## Cash-Flow statement

➡ *to make payments at every due date*  
*to have the righth cash at the righth time*



# Business model Income statement





## CAPEX: Capital Expenditures

CAPEX contribute to extend the fixed assets, and they are depreciated over an economic life time

**CAPEX are necessary for extending the business or for improving the range of services provided by the operator.**

**Examples :**

- **Purchase of land & buildings,**
- **Network construction**
- **Purchase of information systems (hardware & software )**



## **OPEX= Operations Expenditures**

OPEX are expenses which don't contribute to extend the fixed assets, and consequently are not subject to depreciation

**OPEX are necessary for running the company,**

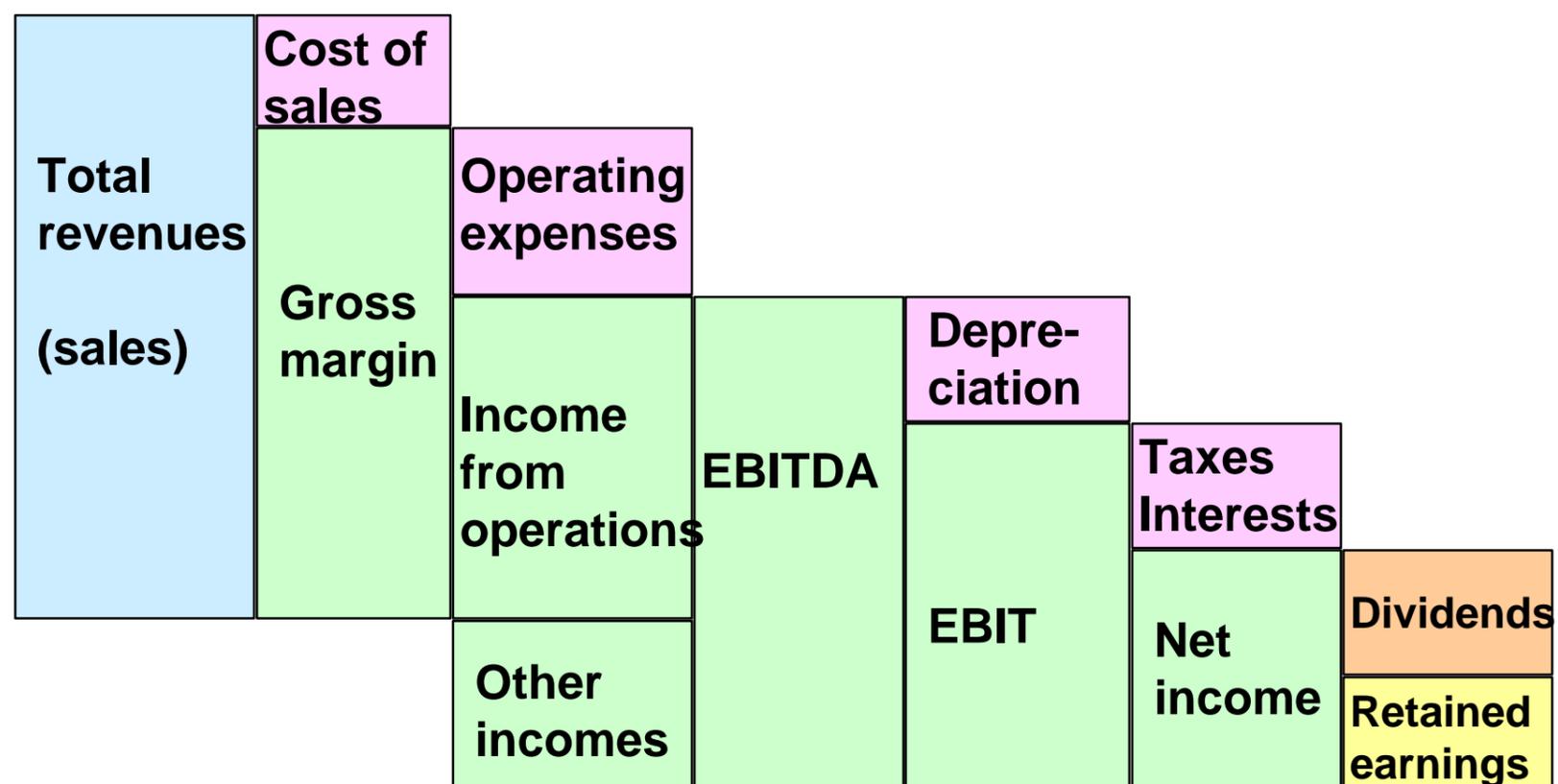
- **Technical operations (switching, transmission, local loop,..)**
- **Commercial operations (marketing and sales)**
- **Administrative operations (support,..)**

Examples :

- Labor costs for operations,
- Travelling expenses, periodic administrative costs,
- Rental of equipment, rental of cars, rental of buildings
- Interconnection fees

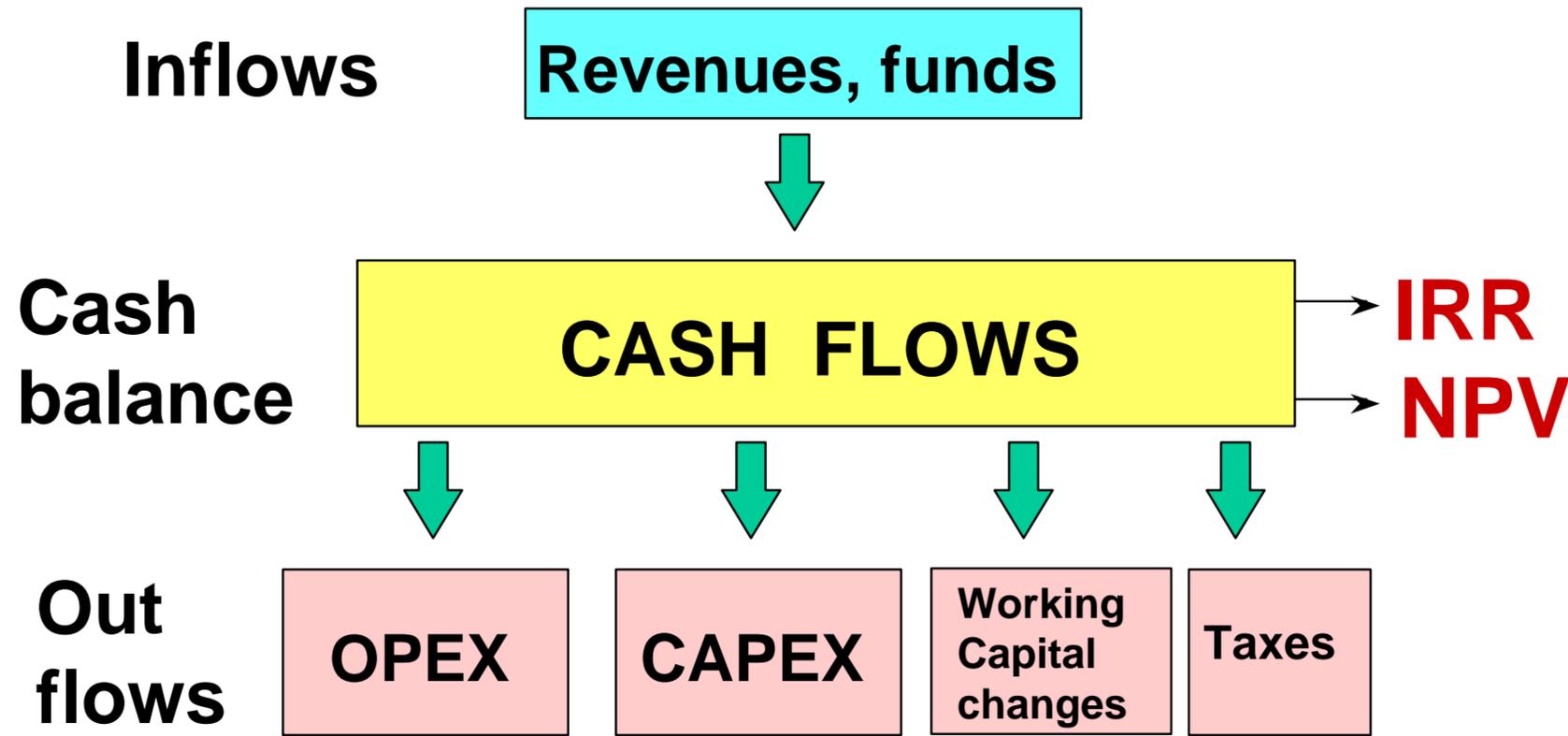


## Business model Income statement



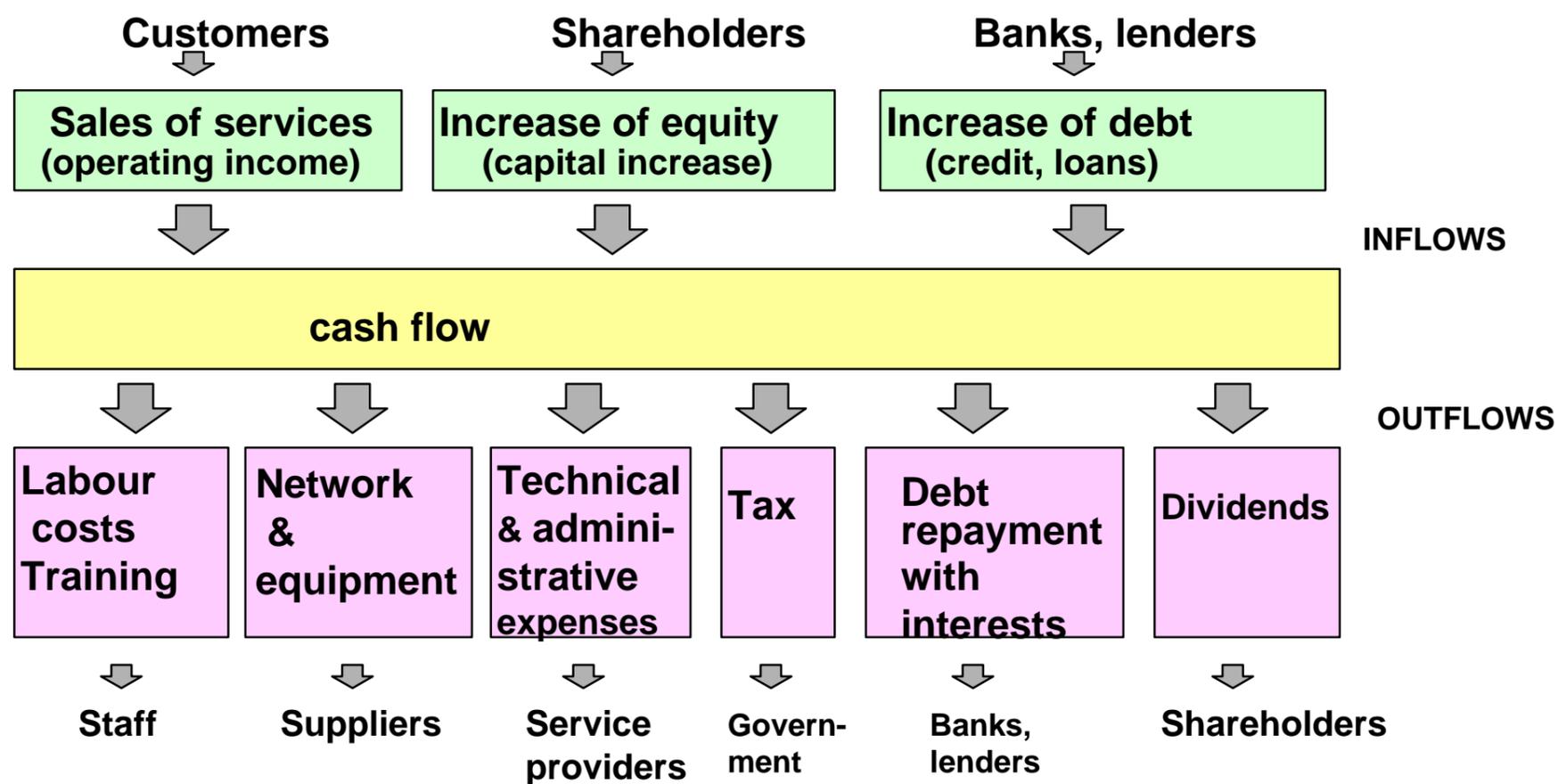


# Business model Cash Flow



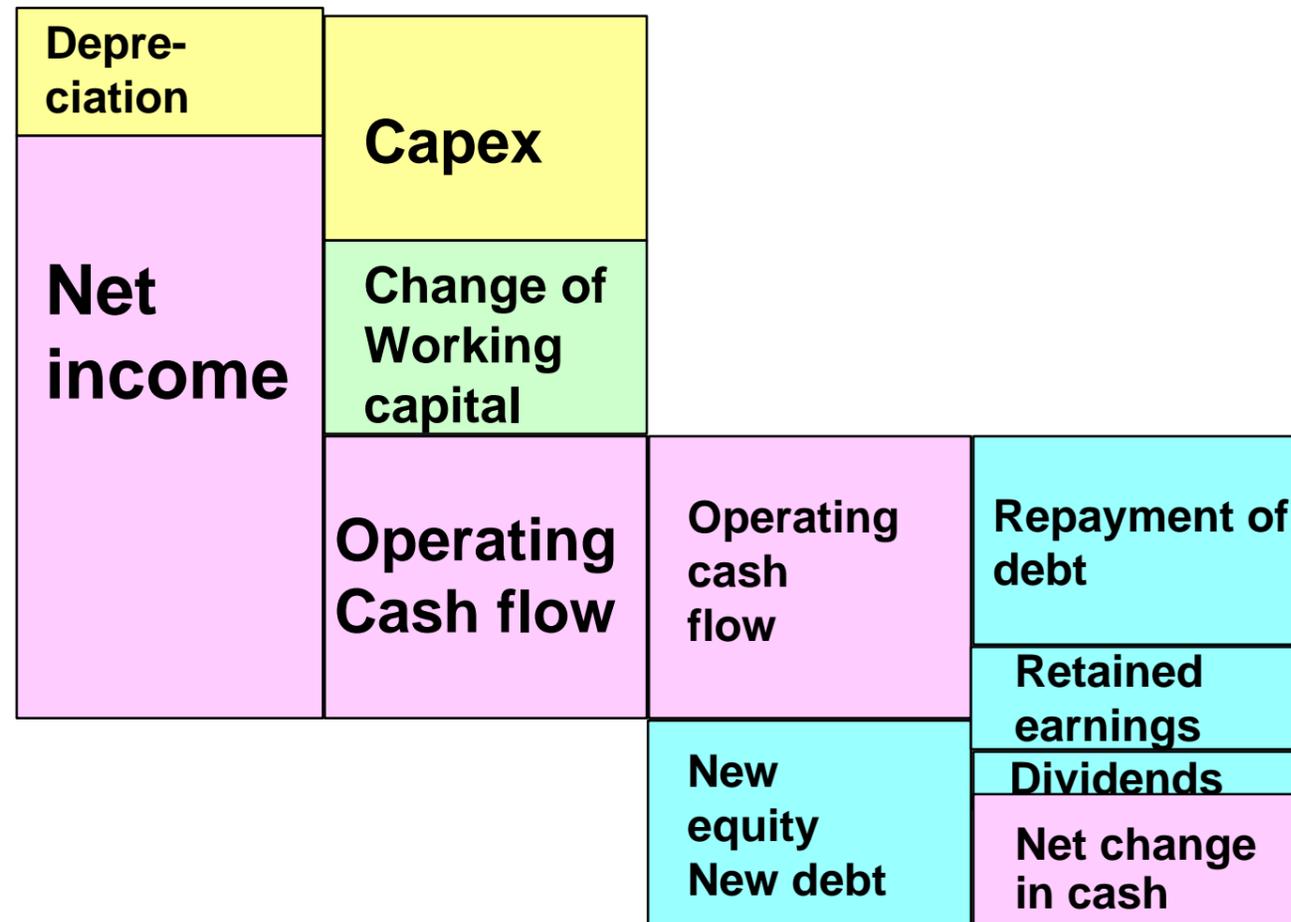


# Business model INFLOWS and OUTFLOWS





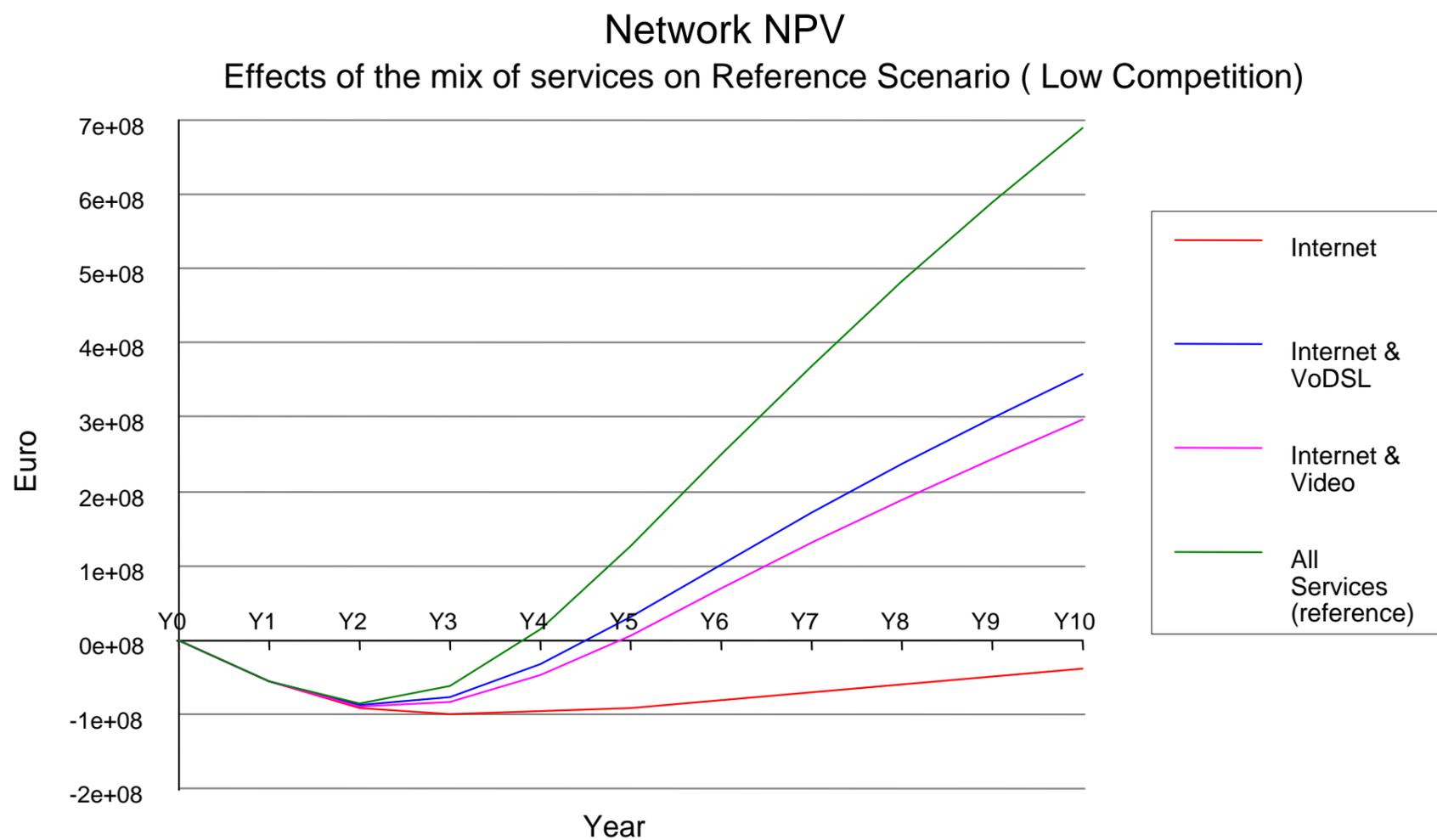
# Cash flow calculation





# Network Solutions Optimization

## Example for what-if economical analysis



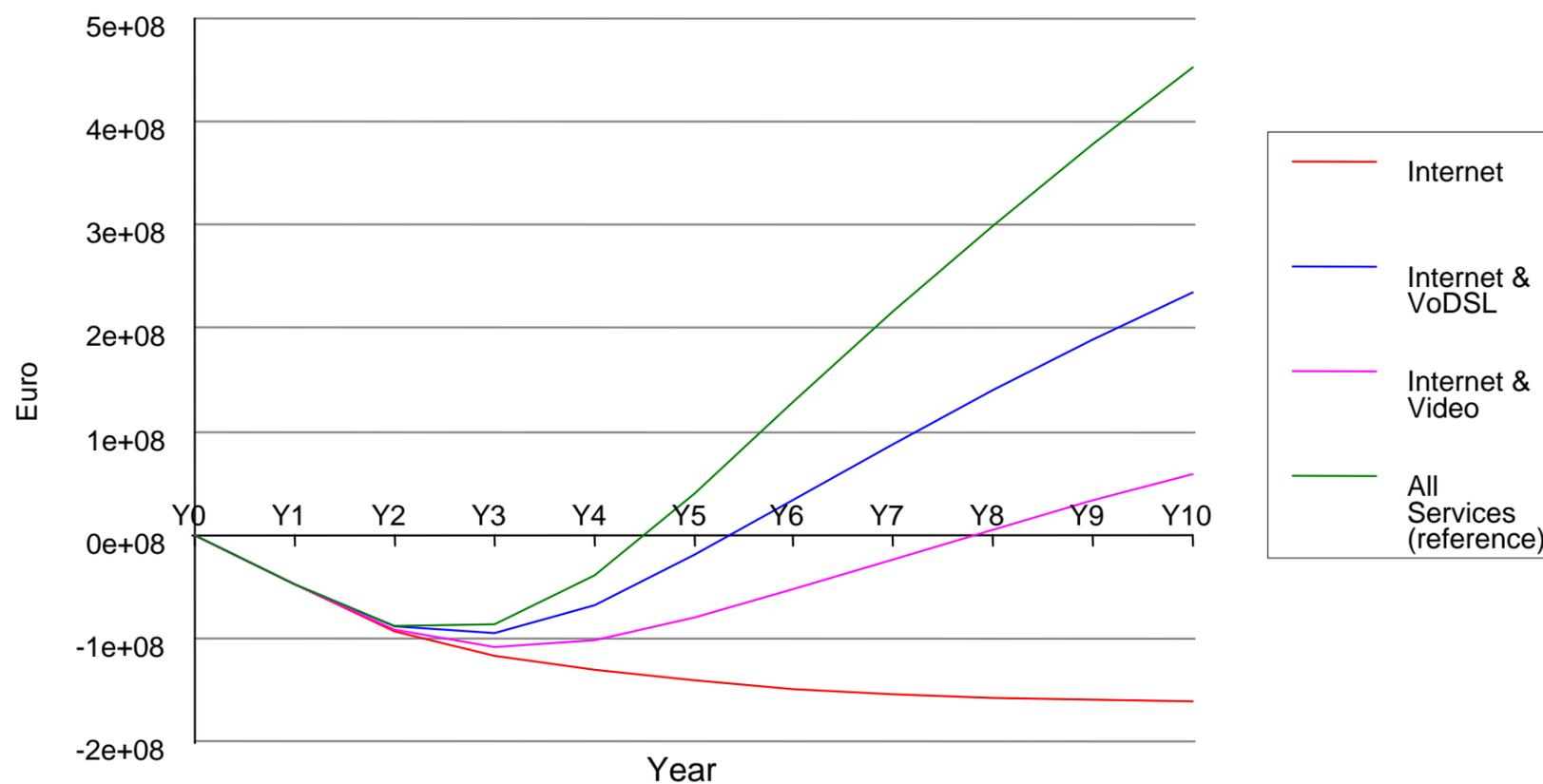


# Network Solutions Optimization

## Example for what-if economical analysis

### Network NPV

Effects of the mix of services with **decreased revenues in High Competition**





## **Typical guidelines for Cashflow improvements**

- **To increase the number of new customers**
- **To keep the loyalty of present customers**
- **To increase the sales of new lines**
- **To introduce new services/service bundle in the portfolio**
- **To increase the paid revenue per customer**
- **To minimise expenses by improving management**



## Typical Action plans for Cashflow improvements

**To improve the customer segmentation,**  
better identification of major accounts  
better statistics for each market segment

**To carry out market research studies**  
Impact of potential competitors on the market shares

**To carry out customer satisfaction surveys**

**To improve the Portfolio of products and services,**  
Impact of new technologies (internet, mobiles, satellites)



## **Increasing the sales of new lines**

### **Waiting list management**

**where are people waiting for new lines**

### **Field survey**

**where are people who will demand a line later**

### **Construction of complete lines ready to sale**

**how matching capacity and demand**

### **Sales promotion**

**how to speed up the sales of available lines**

### **Service provisioning**

**how to speed up service delivery**



## Waiting list

- **Objective : to know the number of waiting people at the right level for optimising construction (faster and cheaper)**

- Values of waiting list must be collected at the level of distribution point (DP), because the local loop is often the most difficult part, and values at cross connection point and switching level are carried out from them by aggregation.

- When the waiting list is high and extensions are possible,
- Weekly review is compulsory by computer tools.
- Residential and business customers must be distinguished.



## Field survey

- **Objective : to anticipate the future demand and to design the infrastructure according to long term forecasts.**

- A field survey determines the possible number of lines to be installed in the future, based on the penetration of telephone lines in the houses and the business buildings that are surveyed.

- Surveyors scan local service areas, street by street, and count the number of houses and business buildings by category.

- A penetration rate is assigned at each category.



## Service provisioning

- **Objective : to speed up service delivery**

Many types of units are involved in the process and must be coordinated :

- administrative tasks for the commercial file
- billing file to be activate
- charging system in the switching unit
- customer care
- open-wire to be installed and connected
- MDF (main distribution frame) to be updated
- CPE to be installed and connected