

**Phase 1**
**Definitions A**
**Dimensions**

The project should be defined in terms of surfaces, number of estimated users/zones, number of zones and estimated total length.  
VAR=DIM

**Types**

Definition of the type of architecture and eventually services that will be integrated: access network types, Technologies ...  
VAR=TYPE

**Standards & Norms**

If exist, norms and standards that should be implemented (cables, equipment, frames...). Codification and labelling (generic or specific).  
VAR=NORM

**Phase 2**
**Definitions B**
**Constraints and Hypothesis**

Method of optimization: Aspects of optimization, methods offered and waited results should be discussed, and validated. Optimization could take into consideration shortest paths, lowest cost paths or lowest budgets paths... Also, a scheme of combination of different methods can be defined. Hypothesis, summarize inputs values necessary for the simulation steps, as an example of start hypotheses, the number of splitters, nature of equipment, municipalities limitations....

**Output Solutions**

The number of output scenarios should be given. This number is important for the project evolution, as it influences directly the simulation time and phases.

**Zones' Densification**

In this step, all zones densification should be clearly identified and affected. The degree of optimization, especially concerning the splitting levels affectations, depends principally on this input.

**Guides Template**

Number, Nature and Types of desired guides to follow the project achievement. Also, format of documents should be clearly defined.

## FTTX Project Process

Phase 3

### Inputs

#### GIS Layers

This step should be clearly defined as part of the project (Parcelling Output), or delivered by the client and/or the supplier (Input).

#### Sites Survey

Necessary for sites features. Collected information are used in the simulation step. Sites include Houses, buildings, Links and existing nodes (If). This step is applicable in the case of New Project Study (NPS) and/or Existing Project Study (EPS).

#### Equipment Survey

This step is applicable only in the case of [EPS]. All equipment should be identified and categorized and inserted as input data in the software.

Phase 4

## Implementation

1. GIS Layers
2. GIS integration
3. Surveys Data Integration
4. Simulations: Zones/Sites/Nodes/Links
5. Application
6. Add equipment features
7. Project statistics

Client Validation



**Activation**

# FTTX Project Process

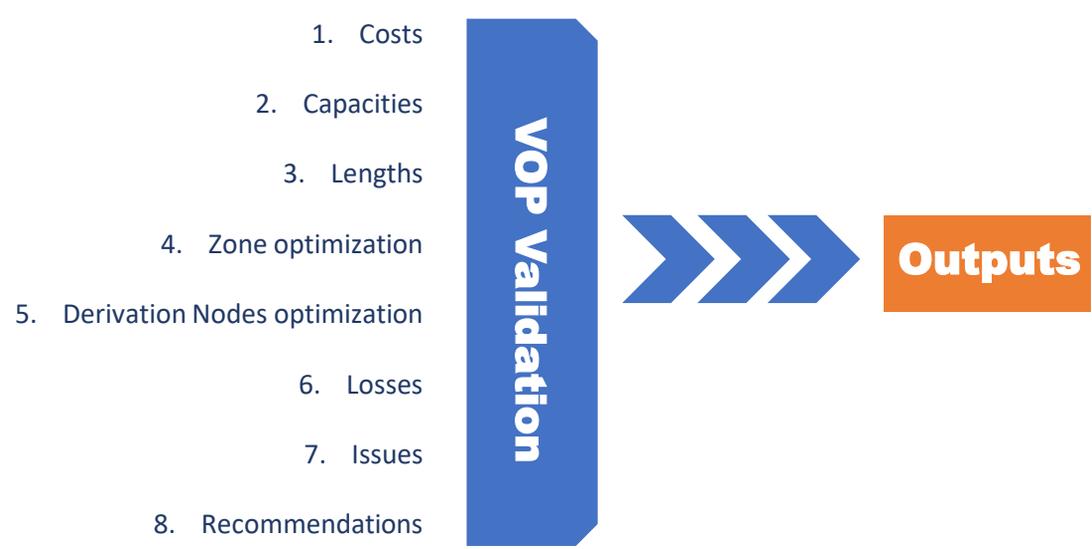
Phase 5



Client can precise desired links to be activated. By activating Links, the application can estimate the exact capacities for all equipment and sites. Also, this activation allows the projection of absolute and relative costs of the project (each component, site, link, equipment, link...). An option of activating all combination of links is possible, but still not recommended as it needs a huge time of execution. It's recommended to define a strategy of activating link in relation with the project evolution.

**Estimation**

All estimations can be filtered by site, link, equipment, zone etc.



Phase 6

**Outputs**

