Optimization

2 case study to give us the flavour of decision in practise.
Elements used to generate alternatives:
1)    Technology —> trains are heavy, slow, big. What if we don't use a train and a trainway (so he can stop at semaphore and they are smaller.  I could use a train but also a trainway. A trainway has a number of disadvantages: block traffic because we have to build the infrastructures ecc. We could also use Tram train. Both the possibilities.
2)    Route —> Interaction between route and technologies. Original route, lake site, internal route and circular route.
3)    Management of Interactions with the state Railways —> separated or Intersecting

We have 5 scenarios possible with a value of 0 and 1. So more scenario at the same time.
we build all of this with interactions.
Impact is very complex! Visual impact or maybe less incidents because we reduce the traffic. We build impact by hierarchy process.
We need a descriptive model.
In these cases, we always have a alternative 0 —> means do nothing.
We generate alternative and then we have scenario. Scenario could be money.
Alternative: enviroment, economy, society.
Another element of alternative: will it be navigable the new canal?