



The multi-dimensional intervention of Planning and Development Agency (PDA) on the Assi River

PDA Lebanon

Lebanon, 31 May 2016





Place of intervention

- [position](#)
- Specifications
 - Length : 22 Km
 - Flow: 12-13 m³/ second
 - Elevation: 671 m to 545 m
 - At local level the River passes by 2 municipalities
 - [Multi activities](#)





intervention of PDA on Assi River

PDA intervention/ Assi River





Data collection & analysis

- Water monitoring center
- Lab → pollution map
 - Microbic Infection
 - Organic pollution
 - Pollution sources
 - Risk sources
- Dividing the river to 4 parts





Problems detection

- Sewage of touristic est.
- Outgoing of trout ponds
- Risk of torrents
- Lack of trout markets due to low quality
- Absence of product treatment





Strategic plan

- Farmers Guidance center
- Sewage network for the houses and establishments near the river
- Depuration systems at the outlets of trout ponds
- Natural dam against the torrents
- Trout treatment and packing plant
- Marketing and distribution center





intervention

- First step:
 - Farmers Guidance center
 - 2 km Sewage network
 - 2 pilot fitoDepuration systems
 - Trout treatment and packing plant





intervention

- second step:
 - Part A Eco controlled region
 - 10 km potable water network
 - 15 Depuration systems on the farms of A
 - full treatment and commercial plant with quality production control
 - Natural dam against the torrents





Thank you for your attention!





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fitodepuration

