



# Remediation and recovery of Contaminated Soils

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# Séché Group in numbers

**35 years**  
of experience



**100+** sites  
with operations in  
**15**  
countries



**4600**  
employees

**22%**  
women



**+3M** tons  
of waste processed  
every year



**675 M€**  
Turnover in 2020



**60%**  
Hazardous waste  
**35%**  
Non-hazardous  
waste



**80 %**  
Industrial  
waste



**1000 GWh**  
energy generated

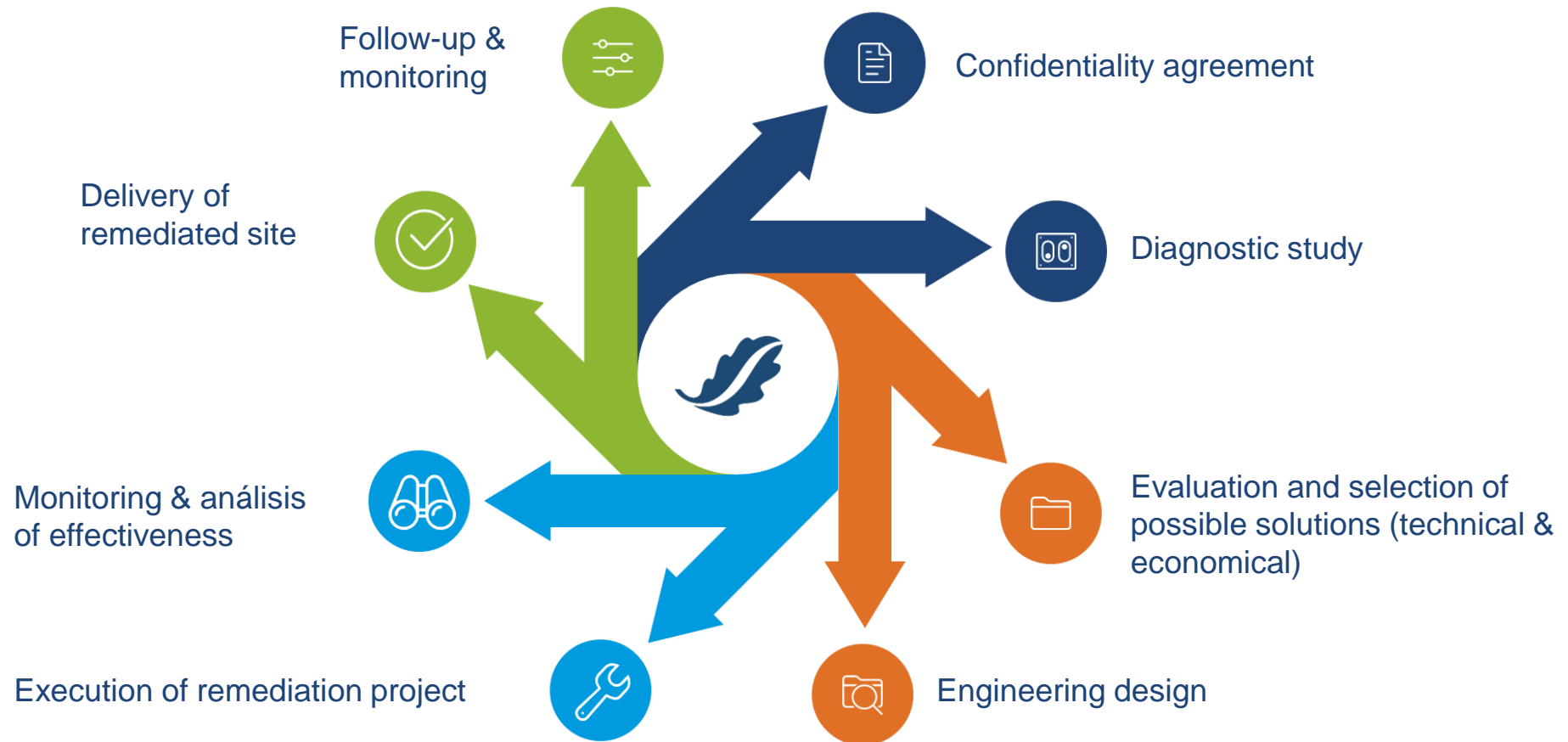


# ¿What is soil remediation?

- The concept of remediation relates to strategies and techniques employed to contain, treat and/or eliminate contaminations in soils, sometimes including operations necessary to reestablish the affected area (e.g. vegetation, fauna etc)



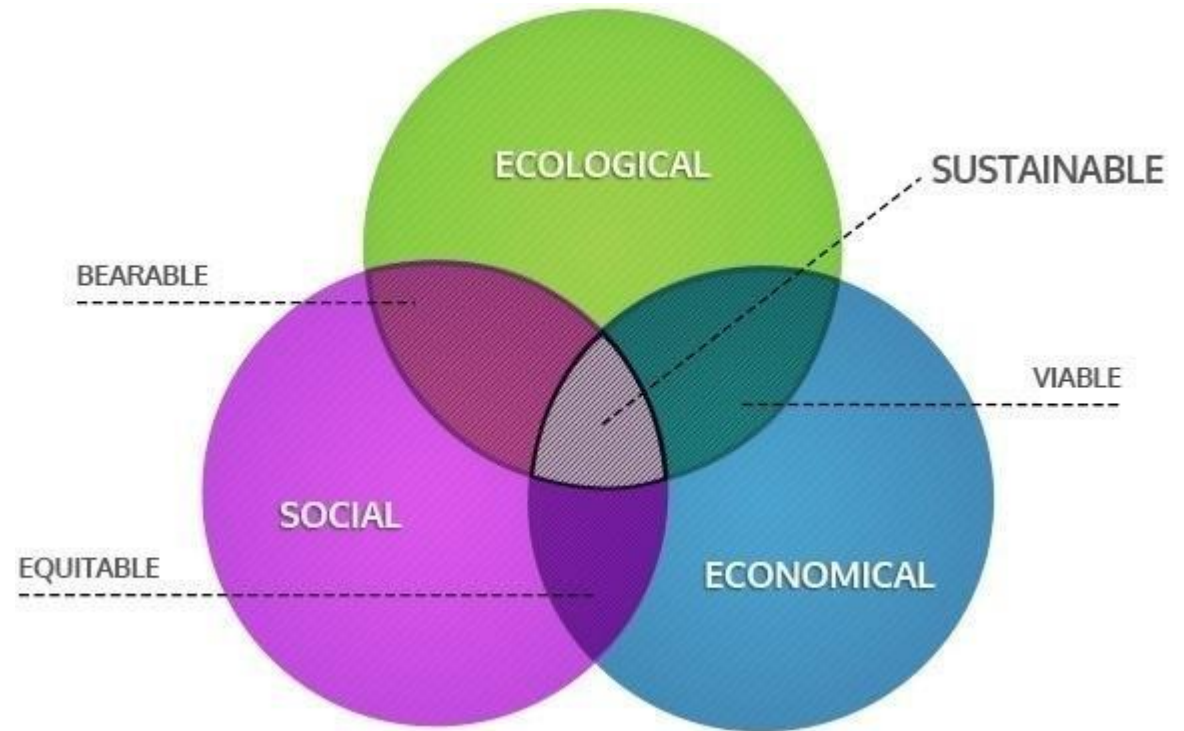
# Key phases in a remediation project





# Selecting a sustainable solution

- It's important to consider the social impact of the possible solutions and ensure community and political buy-in



# Metropole Du Grand Paris Saint Denis

## Context of Intervention

- Old industrial park from end of 19th century, where gas producing companies, left soils with traces of hydrocarbons, solvents and heavy metals – all in varying concentrations and depths
- Geotechnically challenging area
- Complex site location: surrounded by highways, metro line, Stade de France and a river



# Metropole Du Grand Paris Saint Denis

## Challenge and Actions

- Challenge: to decontaminate soils and underground Waters to rehabilitate the site (ZAC Plaine Saulnier).
- Actions:
  - 165.000 m3 of soil removed (equivalent to 50 olympic swimming pools)
  - 30.000 m3 of contaminated soils sent by river and road to off-site treatment and decontamination
  - The contaminated soil is replaced by recycled debris from the demolition part of the project, as well as with soils from the project that are tested to be clean.
- Execution period: October 2020 to November 2021.
- Cost: approx. 17 M€





# Decontamination of Pharmaceutical company in France

## Context of intervention

- This remediation project, located in the Center North of France, is part of a project to reconvert the activities of a pharmaceutical company
- The site had been used for industrial chemical activities, incl. barium and strontium, corticosteroides and pharmaceuticals for cancer treatments



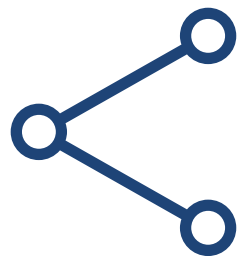


# Decontamination of Pharmaceutical company in France

## Challenge and Actions

- Challenge: Rehabilitate and remediate the site
- Actions:
  - On-site stabilization of approx. 5.000 tons of soils with mercury
  - Removal of underground infrastructure
  - Crushing and classification of concrete from pavement and foundations
  - Excavation of impacted soils and treatment
  - Build platform for temporal storage of material to be evacuated
  - Managment of underground and rain waters on the site
  - Refilling of excavations and rehabilitation of area
- Execution: Ongoing
- Cost: Approx. 8 M€





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