

# **Brownfield Opportunity Matrix - BOM**

Guide and Strategies for Land Re-Use



r<sup>3</sup> Environmental Technology Colombia S.A.S.





## Re-uso de Suelos Contaminados



Often Combined



"Hard "e-Use" Residential, industrial parks or infrastructure

Less feasible for land affected by mining

"Soft Re-Use" Green or Renewable areas as production of biomass

Soil functionality is maintained or improved (Cundy A. B., et al., 2013).



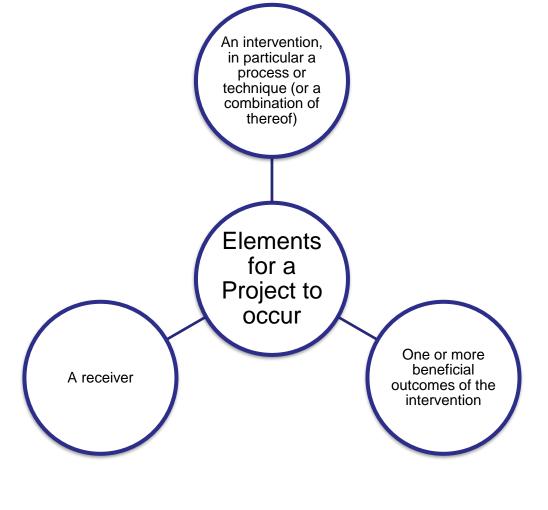
# **Definiciones**

### **Service**

- •Provides benefits for specific users or "receptors" who receive the benefit (*HOMBRE Project*).
- Job creation for the local community
- •Improved biodiversity for nature
- •Renewable energy income for site owners.
- <u>Direct and indirect benefits that humanity receives from biodiversity.</u> Result of interaction components structures functions (PNGIBSE)
- Provisioning Services
- Regulation Services
- Support Services
- Cultural Services

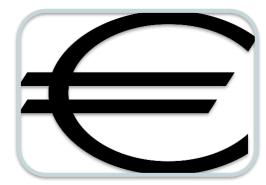
### Intervention

- deliberate action carried out with the intention of modifying / managing a brownfield site
- •Remediate contaminants by adding biochar
- Improve soil quality by adding composts to intervene





# What Value can These Deliver?



Revenue Generation Opportunity

• eg: Renewable Energy Incomes



Natural Capital/ Ecologic

• eg: Cleaner water



**Cultural Capital** 

• eg: Nicer landscapes



**Economic Capital - Tangibles** 

 eg: Health improvement = reduced health services costs



Economic Capital - Intangibles

 eg: Best Reputation = "brand value" of the locality as a good place to live is improved



# ¿What is the BOM?



Simple tool (Excel) that shows services provided by particular interventions.

Identify options for development and better value of "soft" reuse

Local

decision

makers

**National** 

Policy Advisers

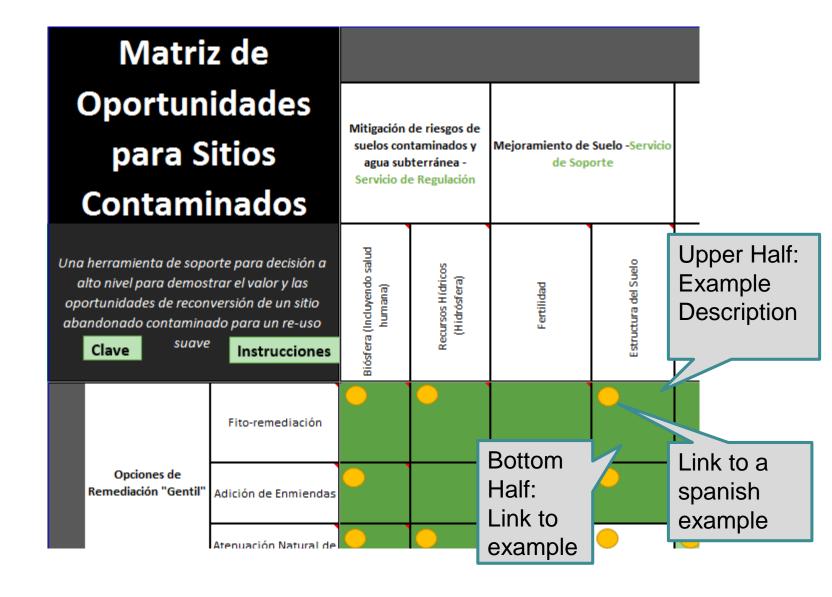
> Local project designers



# **BOM Description**

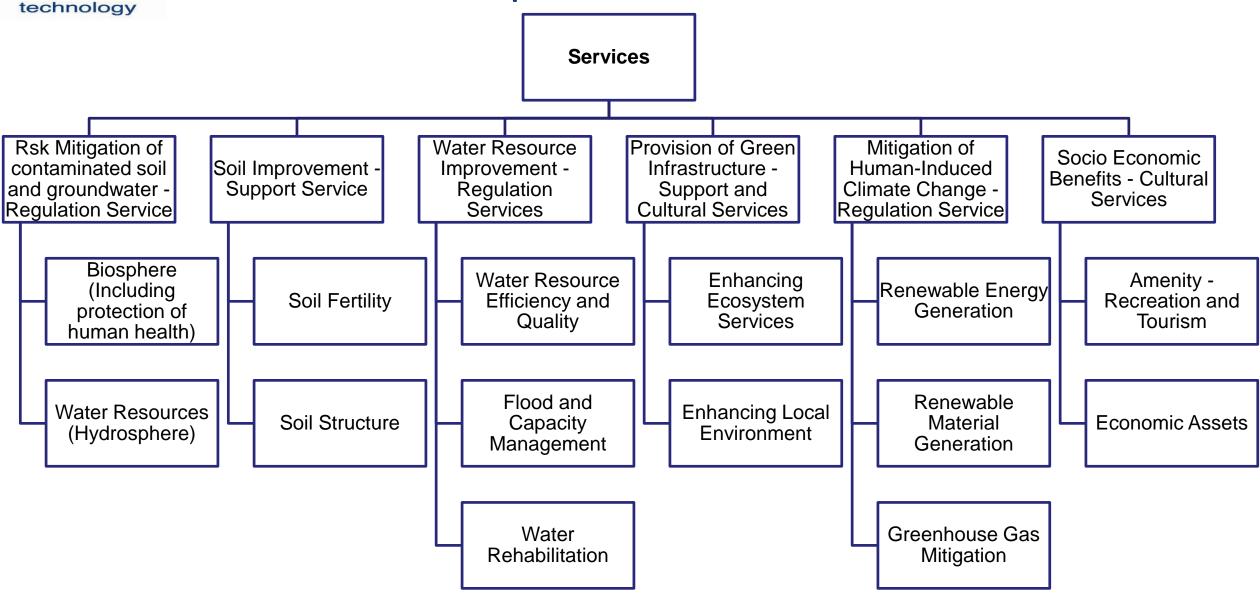
	Services
Interventions	Value (color code)

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Contributes strongly and directly
It provides some benefits directly and / or indirectly
Can contribute or be detrimental (site-specific circumstances, management / design)
Without influence (complementary intervention)
May be harmful (proper management / design and mitigation)



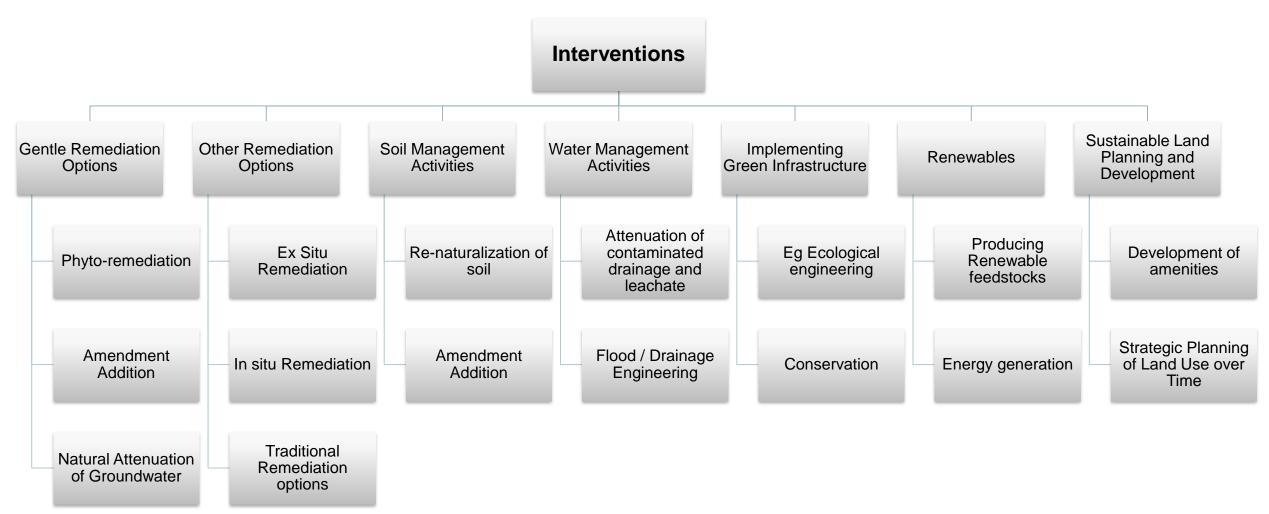


## **Six Groups of Soft Reuse Services**





# **Seven Groups of Interventions for soft reuse**





# When to use the BOM?

