## **The PPPCanvas**

## Example PPP: Converting organic waste into electricity and bio-fertilizer

usiness Ecosystem	Feed-in tariff system within new policy of the Renewable Energy Bill is favourable on paper, but is still complicated in practice.	Demand and prices for bio-fertilizer are low; chemical fertilizers more popular.	Waste management contracts/ concessions are not very transparent and although officially delegated to the Municipalities, central government is highly involved.	Tipping fees for dumping of commonly accepted or too cost of processing the was to stop illegal dumping of t
📻 🥻 Key Partners	Key Activities	Value Proposition	Customer Relationships	င္နာ Customers
Waste processing company   Municipality   Engineering Firm   Agric NGO   Occompany is leading the partnership Management team with representatives of all four parties For each activity one partners is assigned final responsibility; risk for non-achievement also lies with that partner.	<text><text><text><text><section-header><text></text></section-header></text></text></text></text>	<section-header><section-header><text><section-header><text><text><text></text></text></text></section-header></text></section-header></section-header>	<text><text><section-header><text><text><text><text></text></text></text></text></section-header></text></text>	Municipality (as mandated to keep the city clean) Electricity Company (who r additional energy preferab renewable sources) Farmers Cooperatives/ Agr Inputs dealers
Cost Structures		Impact	Revenue Streams	
Capital costs: - Construction of plant (civil works) (\$ 3 M; 60% of capex) - Installation of machinery & equipment (\$ 1.5 M; 30% of capex) - Procurement of waste collection trucks (\$ 0.5 M; 10% of capex) Operation & Maintenance costst: - Staff costs (\$/year; 40% of Opex) - Inputs (fertiliser enrichment, fertiliser packaging) (\$/year; 20% of Opex)		<ul> <li>Improved hygiene, health and quality of life for urban slum communities through improved sanitation services and waste management and less flooding</li> <li>Improved environmental sanitation, food security and access to clean energy</li> <li>Less pollution of surface water sources</li> <li>Macro-economic gains due to less</li> </ul>	<ul> <li>For capital costs: <ul> <li>Grants from donors and development bank (\$ 3.5 M; 70% of Capital costs</li> <li>Soft Loan (\$2 M)</li> </ul> </li> <li>From products/ services delivered: <ul> <li>Sales of electricity (\$/ year)</li> <li>Sales of bio-fertilizer (\$/ year)</li> <li>Tipping/ dump fees by waste companies (\$/ year)</li> </ul> </li> </ul>	

- Supplies/ spare parts for maintenance plant (\$ .../ year; 15%)
- Running costs and maintenance of trucks (\$ .../ year; 13%)
- Office & marketing (for fertilizer) costs (\$ .../ year; 10%)

- Financing costs (\$ ....; 2%)

- degrading of environmental resources, a.o. positive impact of cleaner environment on tourism
- Change of mindset and proof of concept facilitates scaling up/replication

for dumping of waste not ccepted or too low for covering essing the waste. Little efforts l dumping of waste.

- Waste collection / toilet emptying fees (\$ .../ year)
- Management fee paid by Municipality (\$ .../ year)

	<b>M</b> Extended Beneficiaries
ed authority	General citizens in the municipality (who get a clean, healthier direct environment)
o needs	
ably from	People/ institutions that are less affected by flooding thanks to cleaner drains
gricultural	
	Farmers of nearby fields whose irrigation water is less polluted
	Farmers and their families that benefit from good quality, affordable fertilizer.