



UPM Umwelt-Projekt-Management GmbH

YOUR PARTNER OF CHOICE FOR CLIMATE
ACTION AND SUSTAINABLE DEVELOPMENT



About Us

UPM Group is a corporate network specialized in climate change mitigation, adaptation and sustainable development.

UPM provides services based on a unique combination of expertise, experience and dedication.



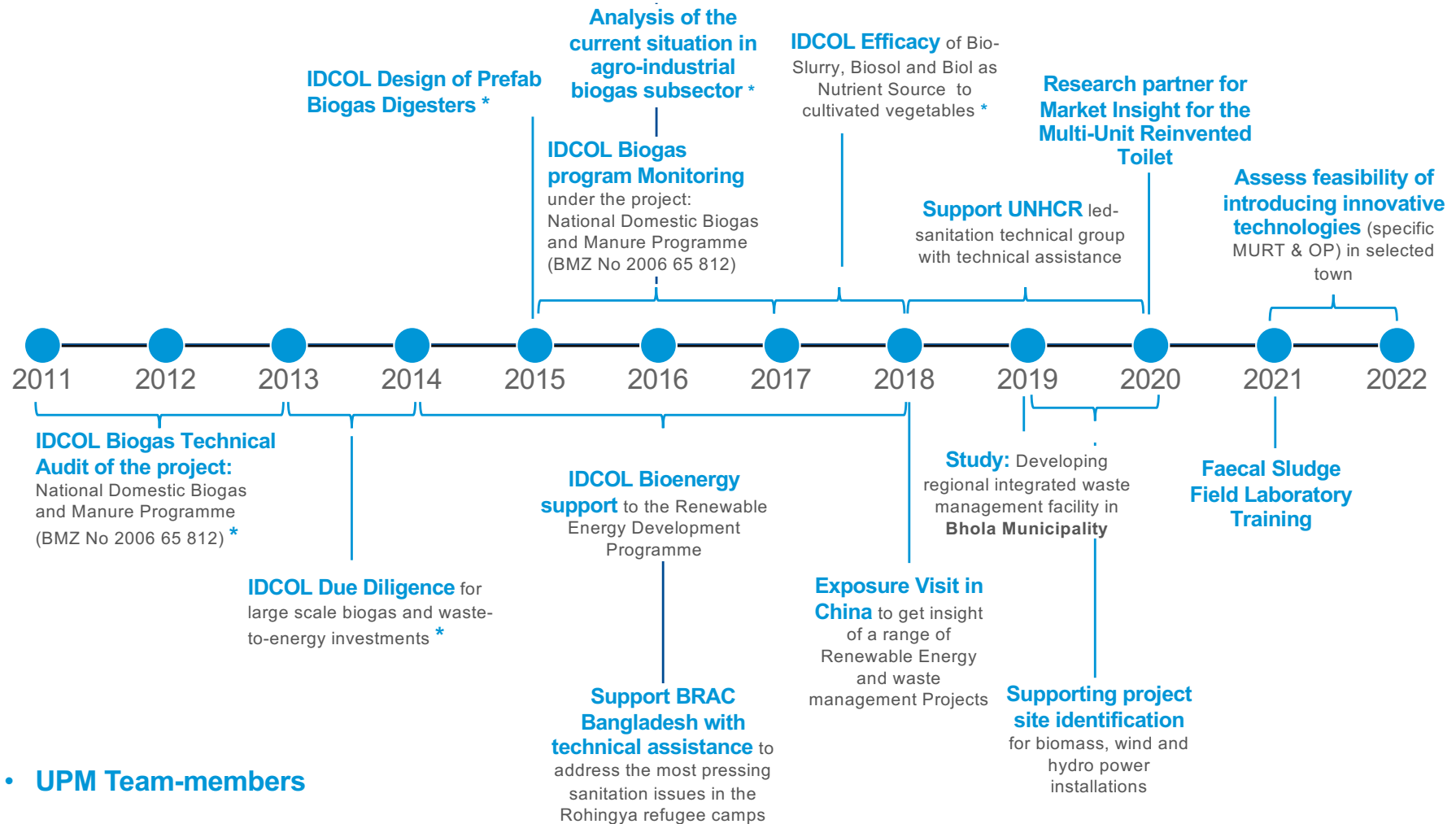
Technical Assistance & Advisory Services

We assist project &
programmes to
maximize their impacts
to their beneficiaries:

Carbon Trading & Climate Strategy Advisory

We support
organizations to achieve
their ambitious climate
neutrality goals:

UPM Activities in Bangladesh



Our Partners & Clients in Bangladesh



Our Partners



We already worked for



2013 – 2020 Several technical assistance & due diligences to agro-industrial biogas - and biomass - based power projects *



IDCOL - Infrastructure Development Company Limited
* UPM's partners assignment

Sources:
[1] Heinz Peter Mang [2] Roman Ryndin

BMGF & Technical Assistance to WASH Sector Cox's Bazar



2018 – 2019 Liquid Waste Characterization Study



Sources:

[1] UPM

BMGF - Bill and Melinda Gates Foundation

BMGF & Technical Assistance to WASH Sector Cox's Bazar



2018 – 2019 Evaluation of Faecal Sludge Treatment Plants



Sources:

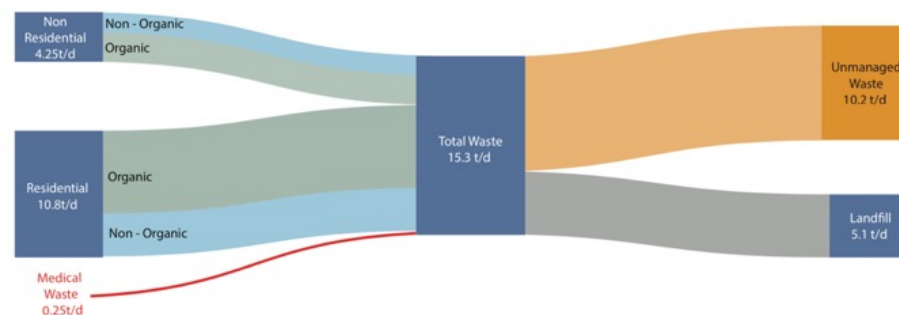
[1] UPM

BMGF - Bill and Melinda Gates Foundation

ADB– Technical Assistance to the Developing of a regional integrated waste management facility in Bhola Municipality



2018 – 2019 Phase 1: Solid & Liquid Waste Characterisation Study



[1]

Sources:

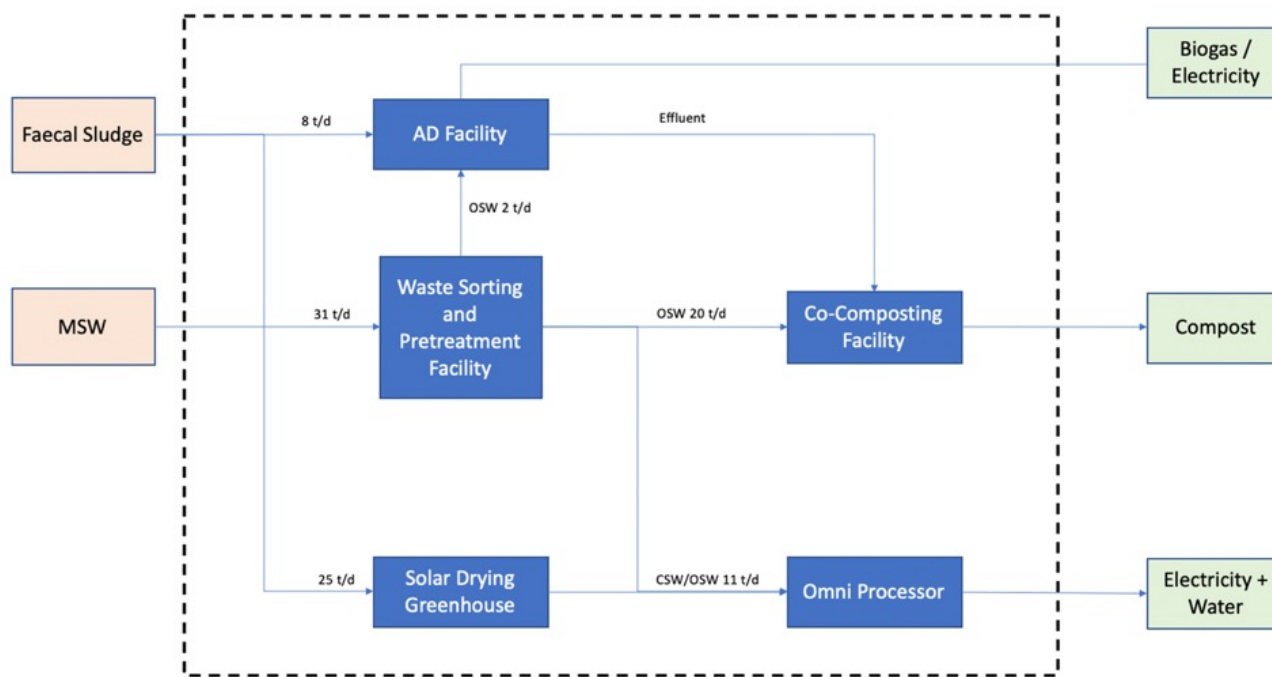
[1] UPM

ADB - Asian Development Bank

ADB - Developing regional integrated waste management facility in Bhola Municipality



2019 Phase 2: Preparing Waste Management Concept Options



[1]

Sources:

[1] UPM

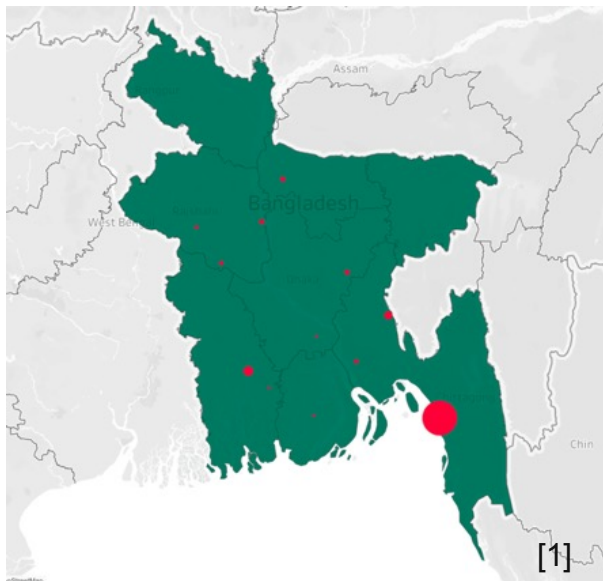
ADB - Asian Development Bank

IsDB & TA-HUB

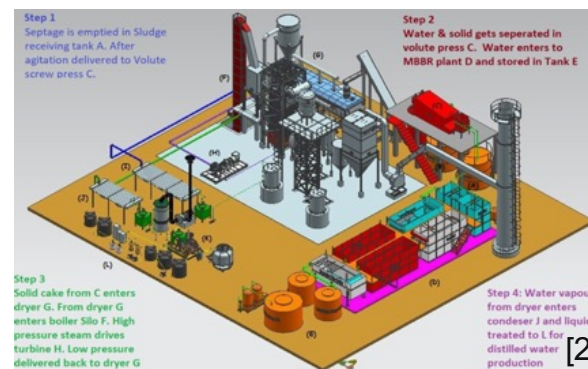


2021 - 2022 Market study and Feasibility assessment of introducing innovative technologies (MURTs and OP) for FSM and MSWM in selected Lives and Livelihoods funded towns

Municipalities



Omni-processor - OP



Multi-Unit Reinvented Toilet - MURT



Sources:

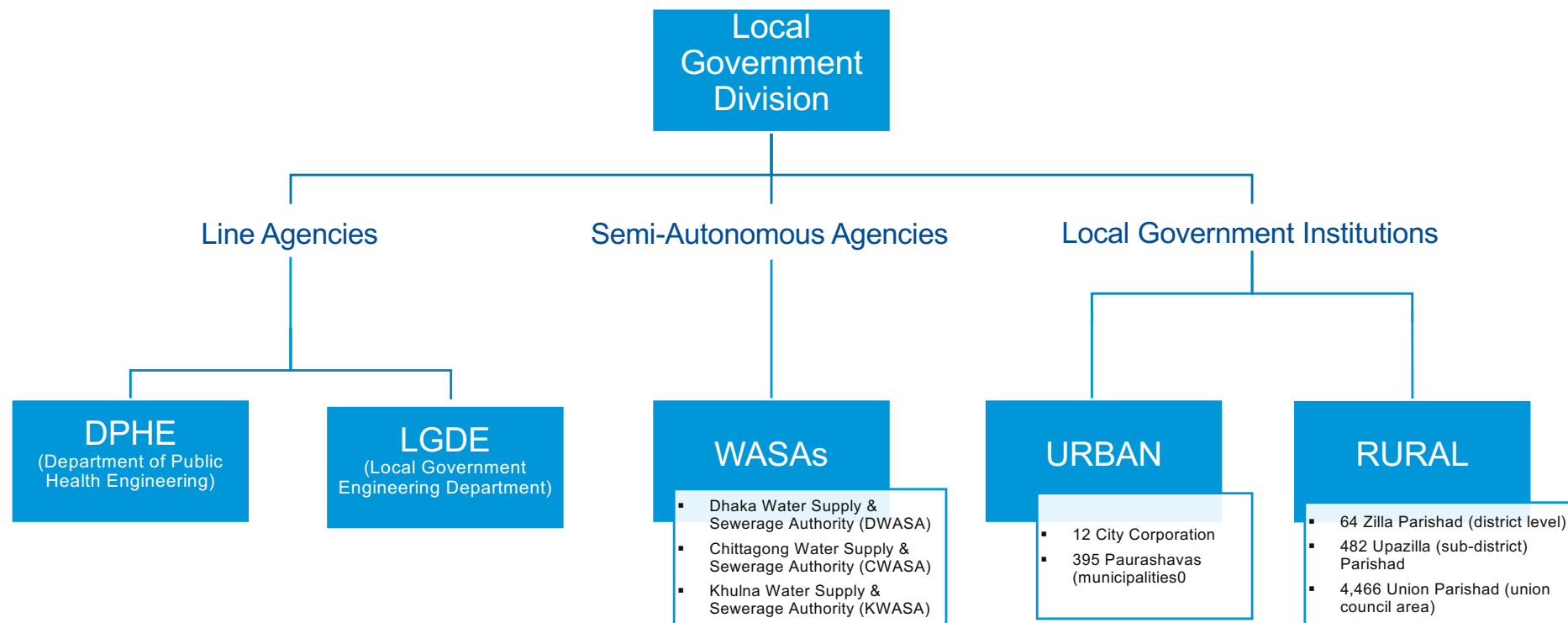
[1] UPM [2] Ankur [3] Clear

IsDB - Islamic Development Bank **TA-HUB** - Technical Hub

SWM & Recycling in Bangladesh

Paurashavas

Institutional Framework

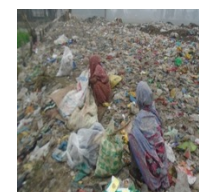


- The City Corporations and **Paurashavas** (municipalities) are **responsible** for **establishing, operating, and maintaining** the **Sanitation, Wastewater, Faecal Sludge Management, and Solid Waste Management** services.
- **Department of Public Health Engineering (DPHE)** and **Local Government Engineering Department (LGED)** provide **technical and financial assistance** to these sectors through various development projects.

Municipal Solid Waste Management Service Chain



Informal Recycling Rates
10 – 15 % [3]



Food Waste: 70 – 85 % [1]
Paper: 3 – 7 % [2]
Textile: 2 – 3 %
Plastic: 3 – 8 %
Other: 6 – 10 %

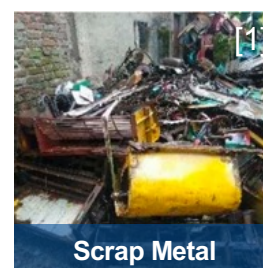
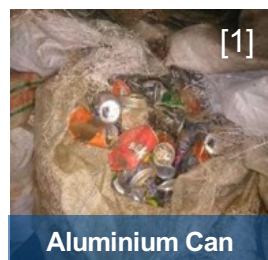
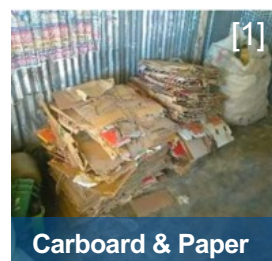
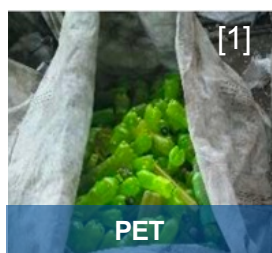
Dug-hole: 2 – 45 %
Drain-water : 5 - 36 % [1]
Road ground: 12 - 62%

**Out 54 Paurashavas, only
4 with treatment facilities [1]**

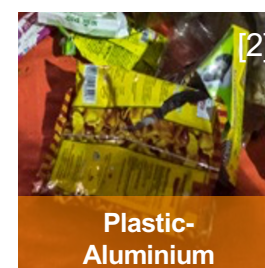
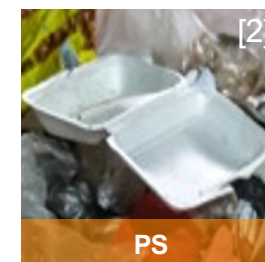
Sources:

- [1] <http://sanboard.gov.bd/> (own analysis, Accessed: 21.03.2022)
- [2] UPM Bhola Report
- [3] DevCon Reports

Main Recyclables already handled in Bangladesh



Not Recycled



Sources:

[1] [UNDP Recycling Value Chain Analysis in Ukhia & Teknaf \(2019\)](#)

[2] UPM

Recycled medical waste components



It is common to recycle syringes (plastic and metal)

Sources:
[1] UPM

Established Recycling Value Chain



Typical earning of waste picker: 80 – 300 BDT /day [2]

Sources:

[1] UPM. [2] UNDP [3] DevCon [4] [OEC](#)



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