



CWIS-FSM Support Cell

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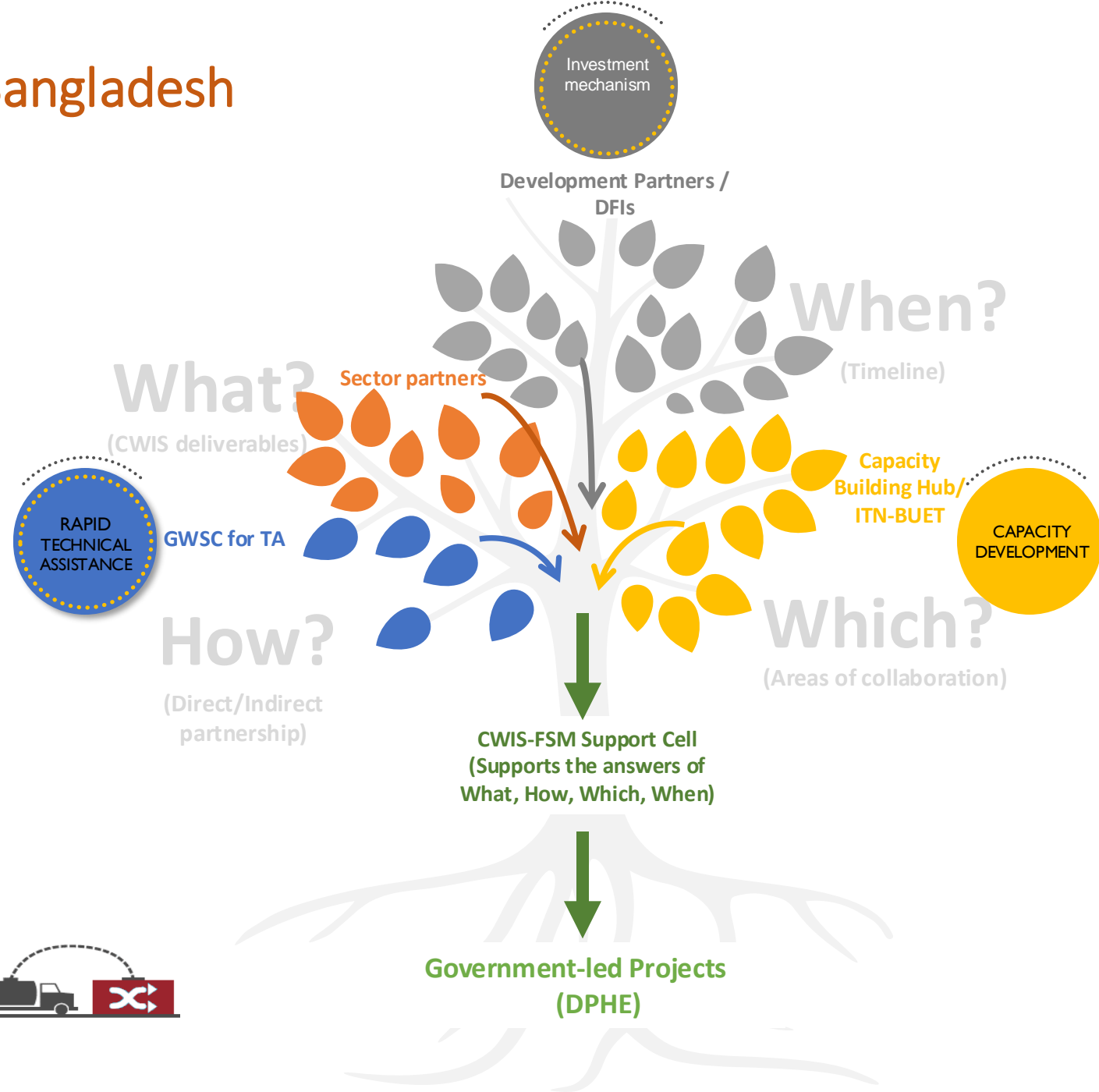
Md Shafiqul Hassan

Co-Chair

CWIS-FSM Support Cell, DPHE

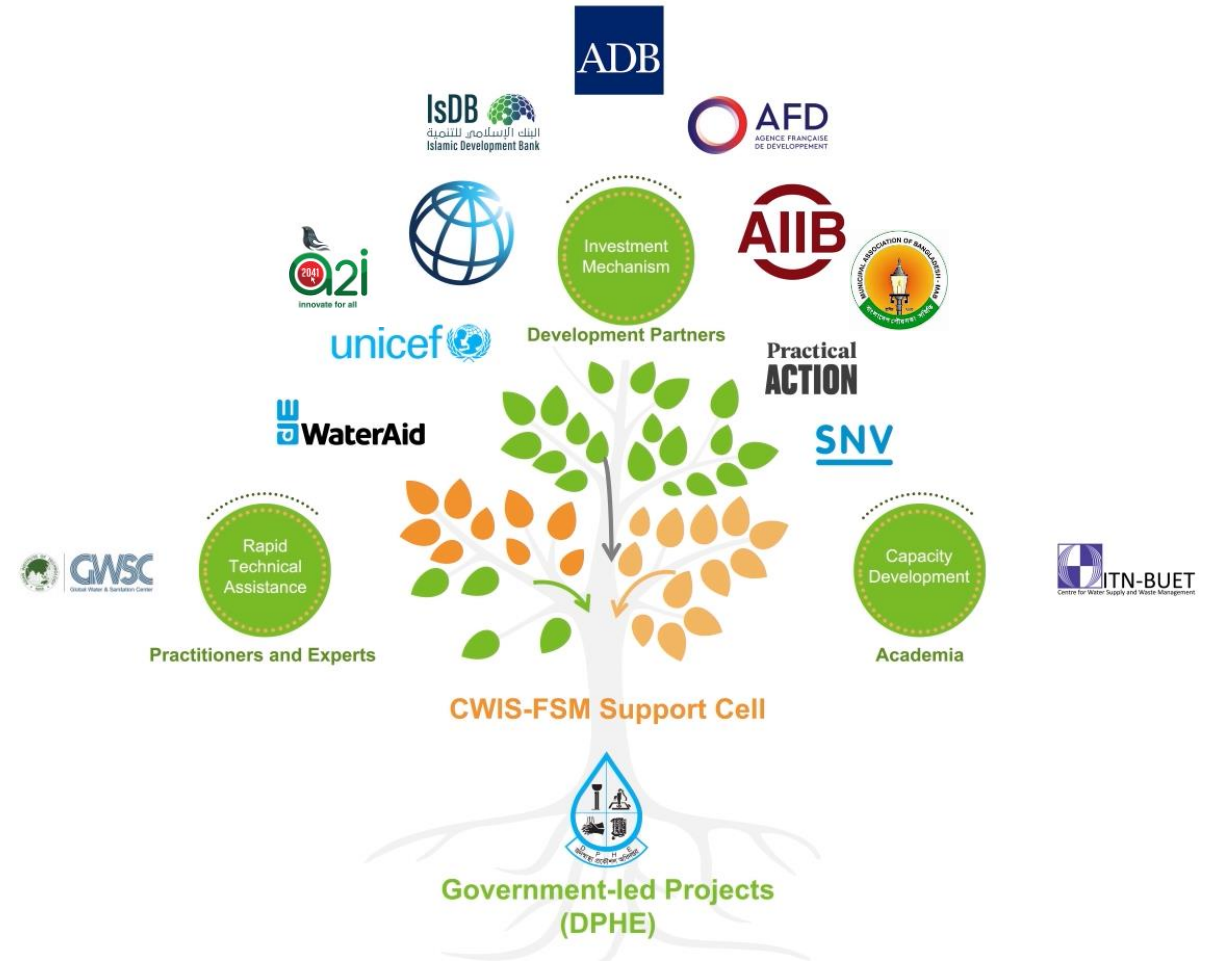
CWIS-FSM Support Cell within DPHE, Bangladesh

CWIS-FSM Support Cell is working to enable systematic change within DPHE to deliver inclusive sanitation in partnership with DFIs, Policy Support Branch of LGD, I/NGOs, FSM Network, MAB, GWSC, and ITN-BUET. The cell is doing strong advocacy within DPHE and Municipalities to answer queries and provide strategic guidance to implement CWIS in Bangladesh. The supports facilitate engaging the governments to build political will on achieving SDG6.2 by CWIS approach, strengthen regulations, and institutions, and increase investments in inclusive sanitation.



CWIS Ecosystem

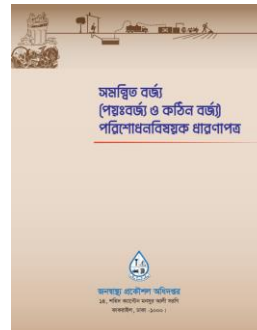
CWIS-FSM Support Cell is working to establish the CWIS ecosystem in Bangladesh through partnership and collaboration. The cell is doing strong advocacy working inside the Government to answer queries and provide strategic guidance to implement CWIS in Bangladesh.



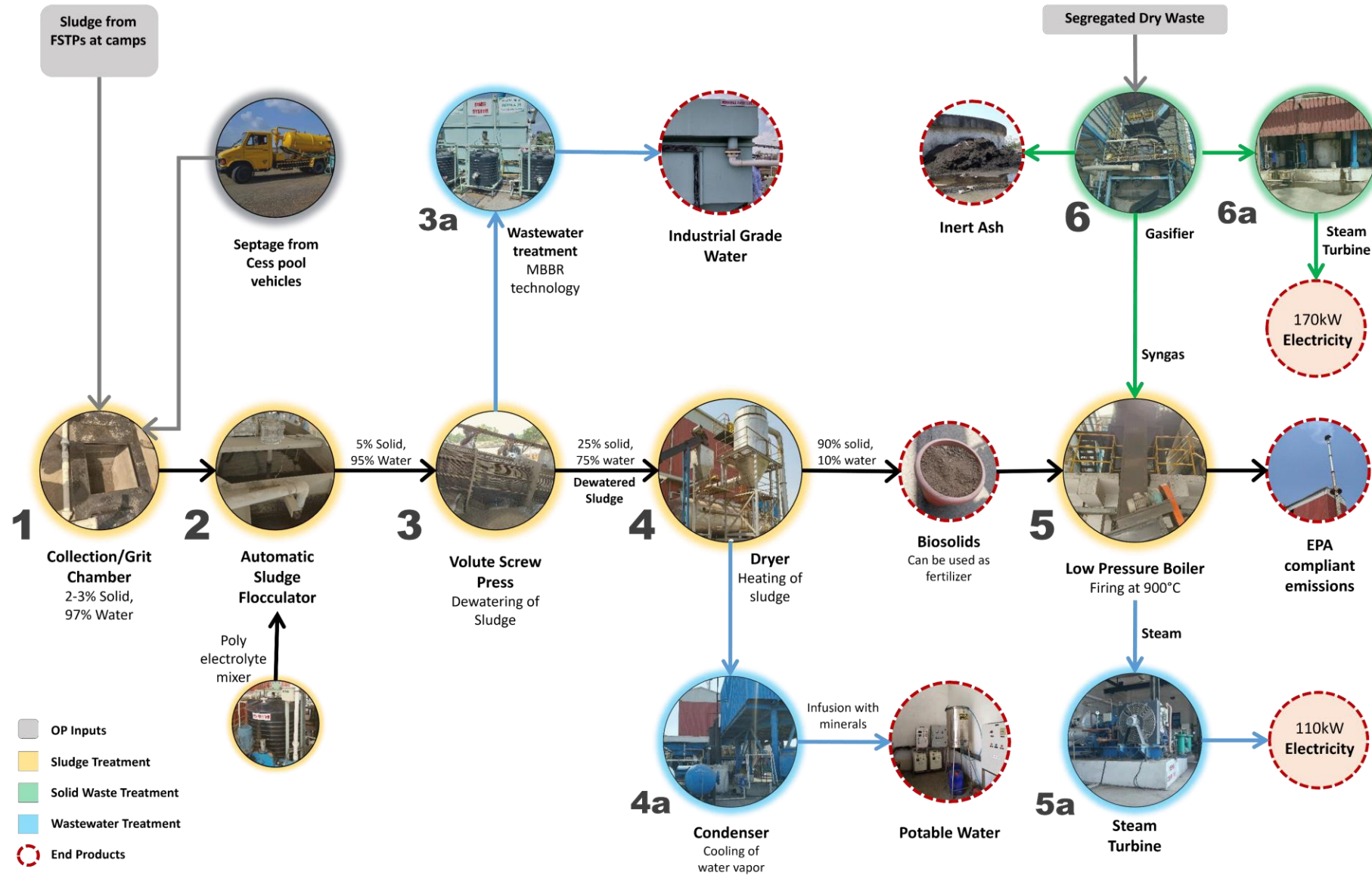
Advocacy for Transformative Technologies

- CWIS-FSM Support Cell advocates for technology that demonstrates a full sanitation value chain and provides citywide sustainable services for both faecal sludge and solid waste. The responsibility of providing sanitation and waste management services lies with the Municipal authority according to the policy of Bangladesh.
- The cell is advocating for innovative technologies like Omniprocessor, Gasifier, and/or pyrolysis unit that can treat not only faecal sludge but also appropriate solid waste. Including such innovative technologies requires an appropriate business model for sustainable O&M by the Municipality.
 - [Market insights for the multi-unit reinvented toilet in Bangladesh](#)
 - [Market opportunity for the portfolio of Omni Processor technologies in Bangladesh](#)
- The cell is also advocating for integrated waste management (both FS and SW together) following CWIS approach.

- [Integrated Waste Management Model](#)
- [Standard Public Toilet Model](#)



Omni Processor: process flow



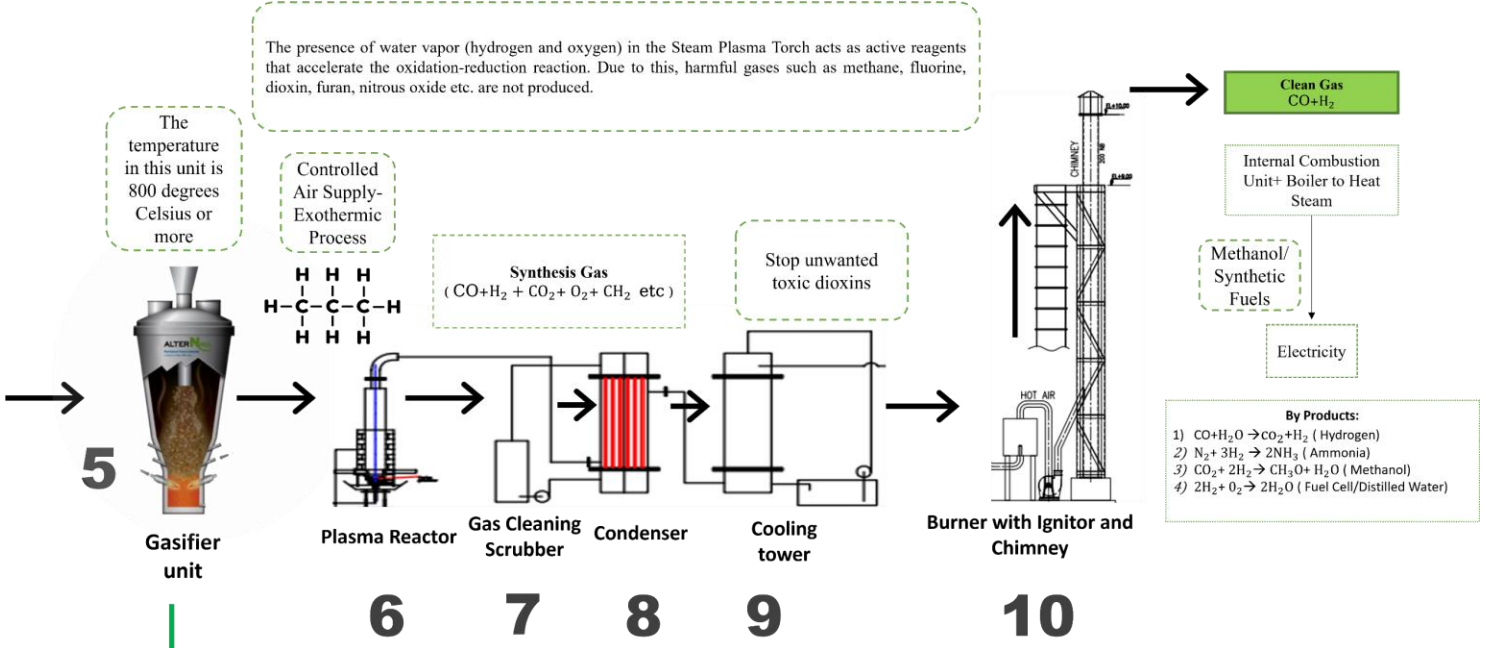
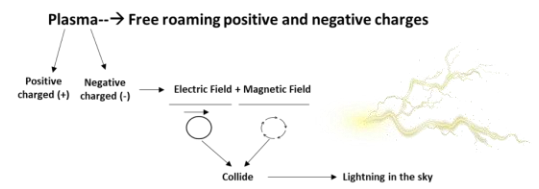
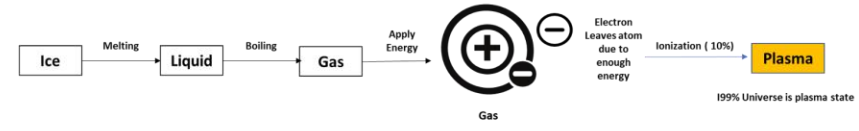
Plasma Gasification


1  **Solid Waste**
 Physical composition of combustible wastes
 Moisture = 15-20%
 Carbon = 25-30 %
 Hydrogen = 3-5 %
 Oxygen = 15-20 %
 Nitrogen <0.1%


2  **Shredder**
 Shredded waste size= < 30 mm (Increase Surface area so that heat transfer can more efficient)


3  **Screw Conveyor with inclined screw feeder**


4  **Dryer**
 For drying wet shredded waste



5a  **Slag/Ash**

5b  **Co-composting**

 **Combustible Solid Waste Treatment**

 **End Products**

Opportunities for Transformative Technologies

- DPHE has implemented 01 Omniprocessor (C-OP)
- In ongoing different projects, 28 more Gasifiers based on combustion system will be in place by 2024-2025

Procurement status: Ongoing

Financial confirmation: confirmed

- 30 more Gasifiers based on combustion system will be implemented by 2025-2026

Procurement status: Prospective

Financial confirmation: pipeline

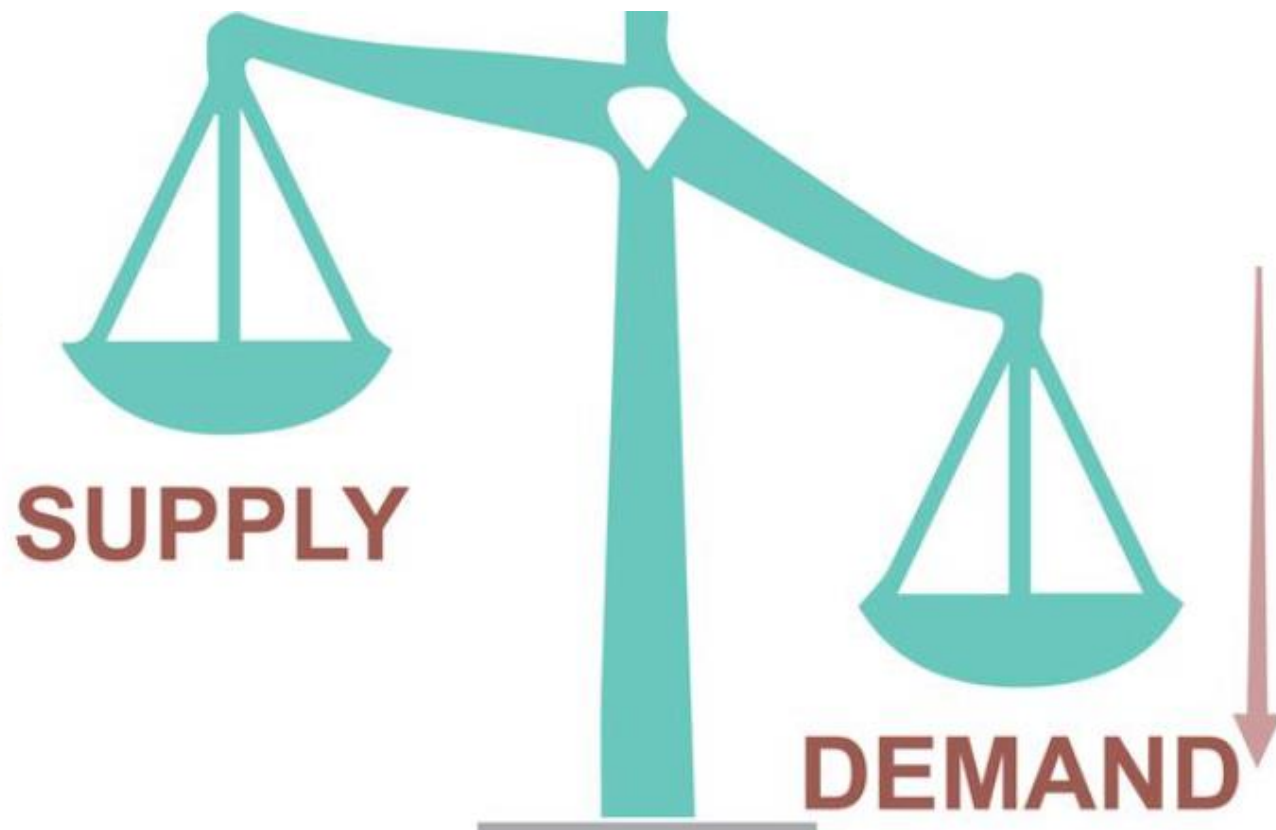


It's video time!



The last but not the least...

- CWIS-FSM Support Cell did the advocacy for such transformative technologies in Bangladesh and created the pathway towards implementing transformative technologies
- There is a market of transformative technologies like OP/Gasifier/Plasma Gasifier in Bangladesh



Are we ready enough to meet the demand of transformative technologies?

Thank you!



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Source of Illustration of character: Internet