







Tackling organic waste - situation, challenges, solutions



Dr. Florian Kölsch JORDAN'S 2024 RECYCLING CONFERENCE, Amman June 12, 2024



Current situation in Jordan

Population: 11.3 million (2022), growing

Total MSW: 2.7 million t/y

organic: 46 % food, 4 % garden

1.35 million t/y

markets: 10 % - 135.000 t/y

Landfill: 2.1 million t (78 %)

GHG: 2.85 million t CO2eq

- + agricultural waste
- + sludge



Challenges I

Collection



Mixed (purity)



Organization

Segregation (efforts)

Amounts



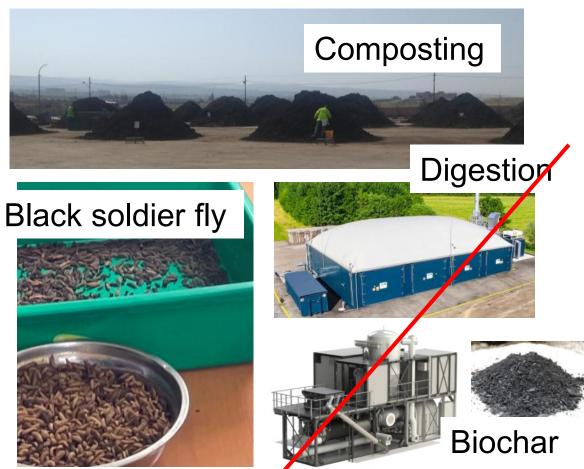


Challenges II

Processes









Challenges III

Product marketing



Larvae protein: not common

Energy (digester): difficult market

MBT products: CER, RDF, CLO not common



Solutions - Collection

Separate source collection - Markets



Market waste

- staffed containers
- w/ sweepers, if suitable







Solutions - Collection

Separate source collection - Residential





• In Post-cleaning

Ambitious

- assisted collection
- post-sorting necessary
- Awareness
- Focus on large generators (restaurants)
- Indoor infrastructure needed



Solutions - Collection

Segregation on site - landfill



Effective

- incentive based (6 €/t)
- informal sector
- per picker 150-200 kg/day







Solutions - Processes

Composting

Experiences available in Jordan

- Various technical solutions (centralized, community based, home)
- Adapted to climate (hot & dry)
- Water management important (grey)
- Train the trainer programs







(No) Solutions - Marketing

Compost

Still a barrier

- Technical regulations needed (currently only manure and fertilizer)
- More marketing activities
- Co financing through waste fees
- Improve links to MoAgri
- Joint actions (urban beautification etc.)

