

Data Availability on SWM

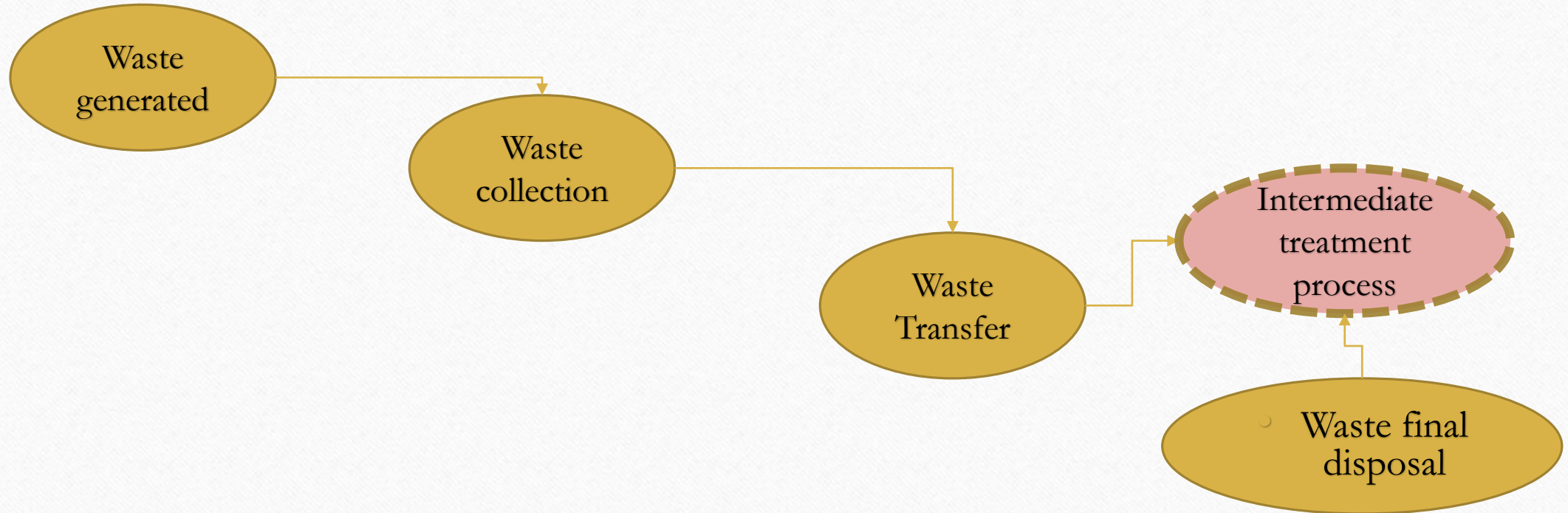
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Back Ground

- This sector is led by Ministry of Local Government (MoLG), through General Department of Joint Service Councils.
- SWM service is delivered to all regions in Palestine by Local Governmental units (LGUs) and JSCs supported by the ministry at all levels (tech, fin and admin).
- Working on SWM data collection and management started since 1995 at MoLG and as we will see later many publications had been prepared and issued by MoLG and Government since that time including (strategies, bylaws , Databook, guidelines)

Solid Waste Management Steps



Waste Generation

- ❑ Available data about waste generation based on categories

Percentage of each category (Municipal, Commercial, Industrial , Others)from the total generated waste in Palestine is available

Others	Commercial	Industrial	Municipal
%4-0	30-25%	25-20%	%50-45

Waste Categories

Municipal Waste (including Industrial, Commercial, agricultural) : all available data will be presented in the coming slides

Special Waste : data is very limited due to limited studies and pilot projects conducted in West Bank

Medical Waste : available data is limited and MoH is our reference

Hazardous Waste : (Quantities, categories, sources and disposal) available through EQA and documented in the National Report issued by them

Waste Composition

- Available data about waste composition :

this data available only from waste
sanity landfill based on some tests and
experiments conducted there, and then
generalized over the entire Westbank
and Gaza ...

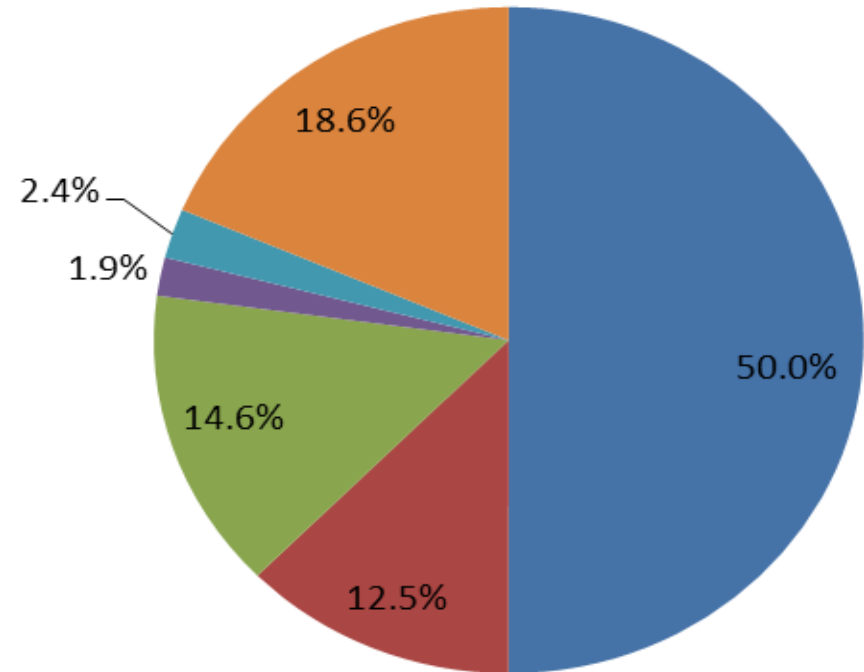


**Data is
very
limited !!!**

Waste Composition

□ Example : Available data about waste composition in West Bank .

Organic : 50%
Paper and cardboard : 12.5 %
Plastic : 14.6%
Metals :2.4%
Glass: 1.9%
Others :18.6%



Waste Generated Quantities

□ Available data about waste Quantities

Quantities of Municipal waste can be obtained by :

- Records from weighing bridge at waste sanitary landfills
- Records at the transfer stations
- sometimes the number of (waste transfer journeys per each vehicle is used to estimate the waste quantities)
- Number of population multiplied by the waste generation rate in Palestine

Waste Generation

the accuracy of such data is moderate, since it is difficult to have a precise number as the information obtained from the previous listed sources are not 100% accurate

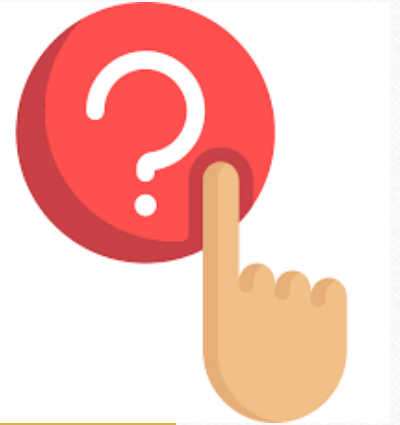


Waste Collection

□ Available data about waste Collection (Primary and secondary)??

- Primary Waste Collection quantities???

It is difficult to know precisely these quantities, as most of the used approach is the secondary (from waste collection containers to the transfer station /landfill).



Waste Collection



☐ Available data about waste Collection (secondary)

- Areas covered by SWM service
- Used waste collection systems
- Secondary Waste Collection quantities
- Waste collection cost
- Number /type / status of waste collection vehicles
- Records of Number of waste containers and waste collection routes

Waste Transfer

☐ Available Data about Waste Transfer

- Number of waste transfer stations in West Bank
 - Quantities of transferred waste
 - Final destination of transferred waste
-
- Quantities of waste (separated, recycled) in these stations is very limited!!!!



Waste Disposal



- Number, Type, capacities and location of all sanitary and controlled landfills in Palestine
- Areas and population served by sanitary landfills
- Number and location of illegal Dump site
- Quantities of disposed waste
- Cost of waste disposal in sanitary landfill
- Quantities of(separated and recycled waste at sanitary landfills where it is applied)
- Information about sanitary landfills which are planed to be constructed

Waste Management Data



- Very limited data is available about :

- ✓ Quantity of recycled waste
- ✓ Quantity of reused waste
- ✓ Quantity of reduced waste

The Available data
is limited to the
implemented small
scale and pilot
projects



Challenges on Data availability

1. Situation of SWM sector is in continues and quick changes
2. Number of served population and LGUs is always changes
3. Not all pilot projects results are documented
4. Data updates is not conducted in regular frequency and is limited to available external funds
5. The LGUs and JSCs who served SWM service has shortage in tools and resources required to collect data about the areas under their supervision

CHALLENGE

Challenges on Data availability

6. Lack of cooperation and data exchange between institutions who are working in the sector, so there is a need to develop a communication channels between them.
7. The SWM sector still need capacity building in data collection, analysis and management as well as Data quality control .
8. Need of introducing GIS in making connection between spatial, technical and financial data.

CHALLENGE



THANK YOU
FOR
YOUR
ATTENTION
ANY QUESTIONS?