

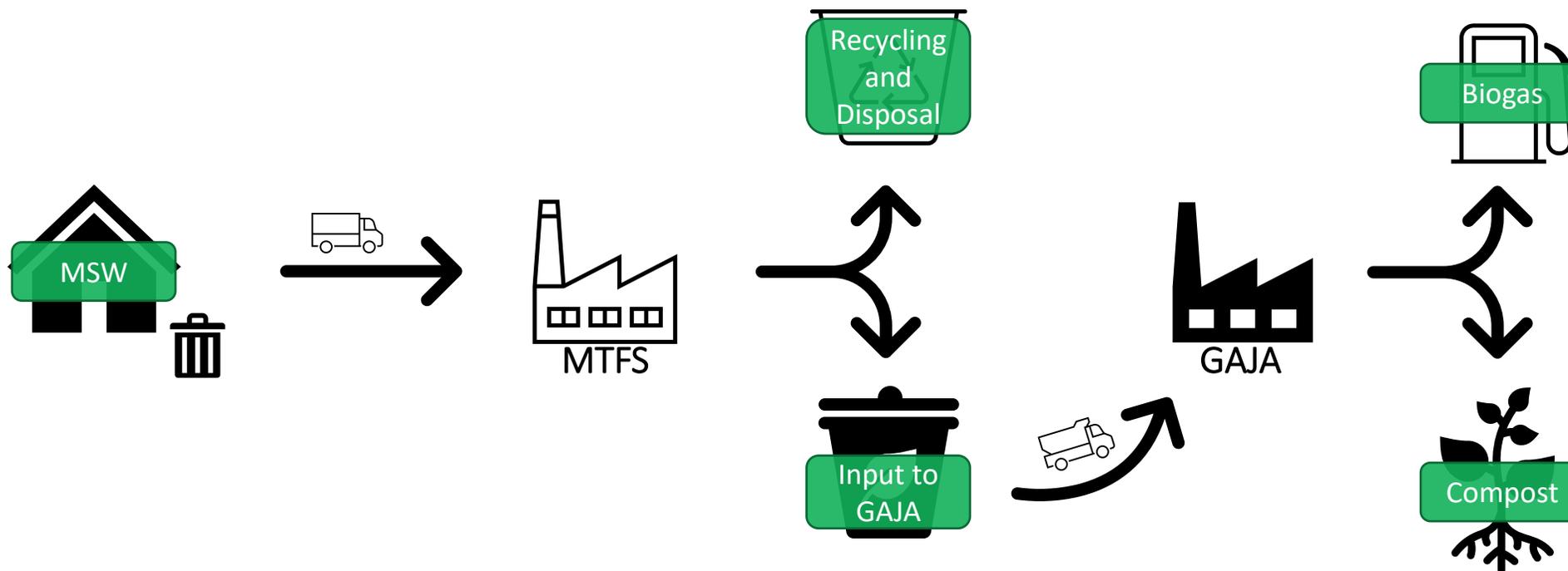


# Material Flow

Waste → Treatment → Compost  
2021

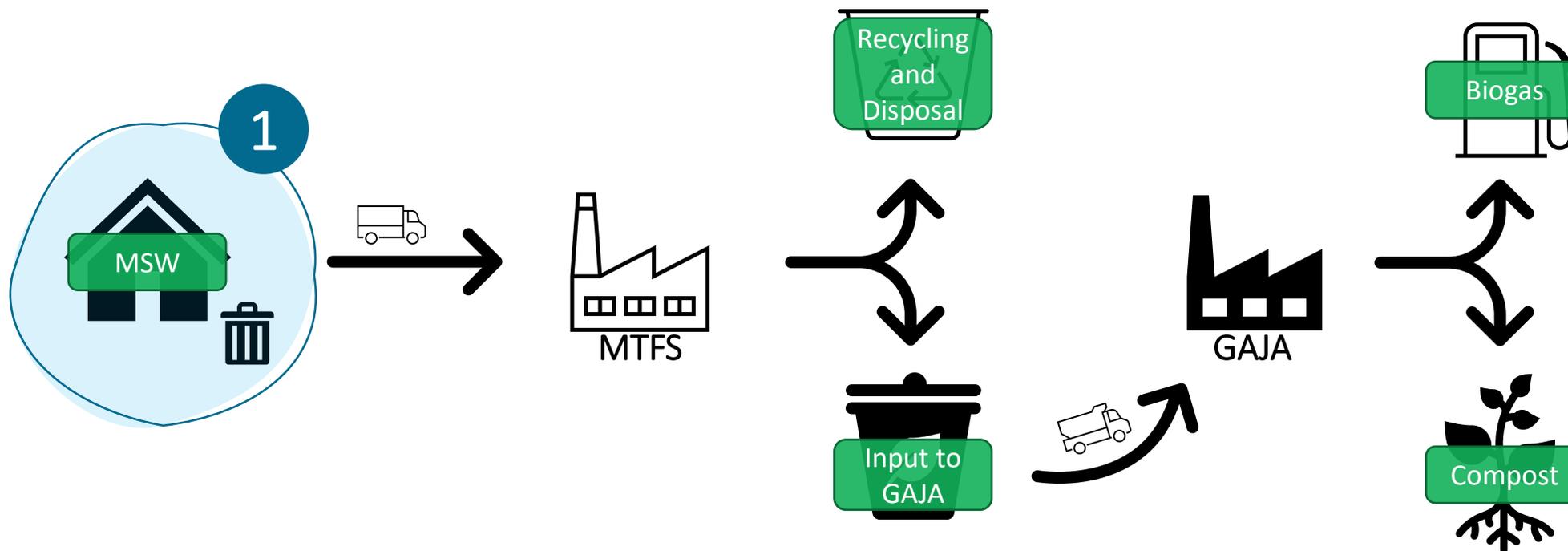
# Material Flow

Simplified



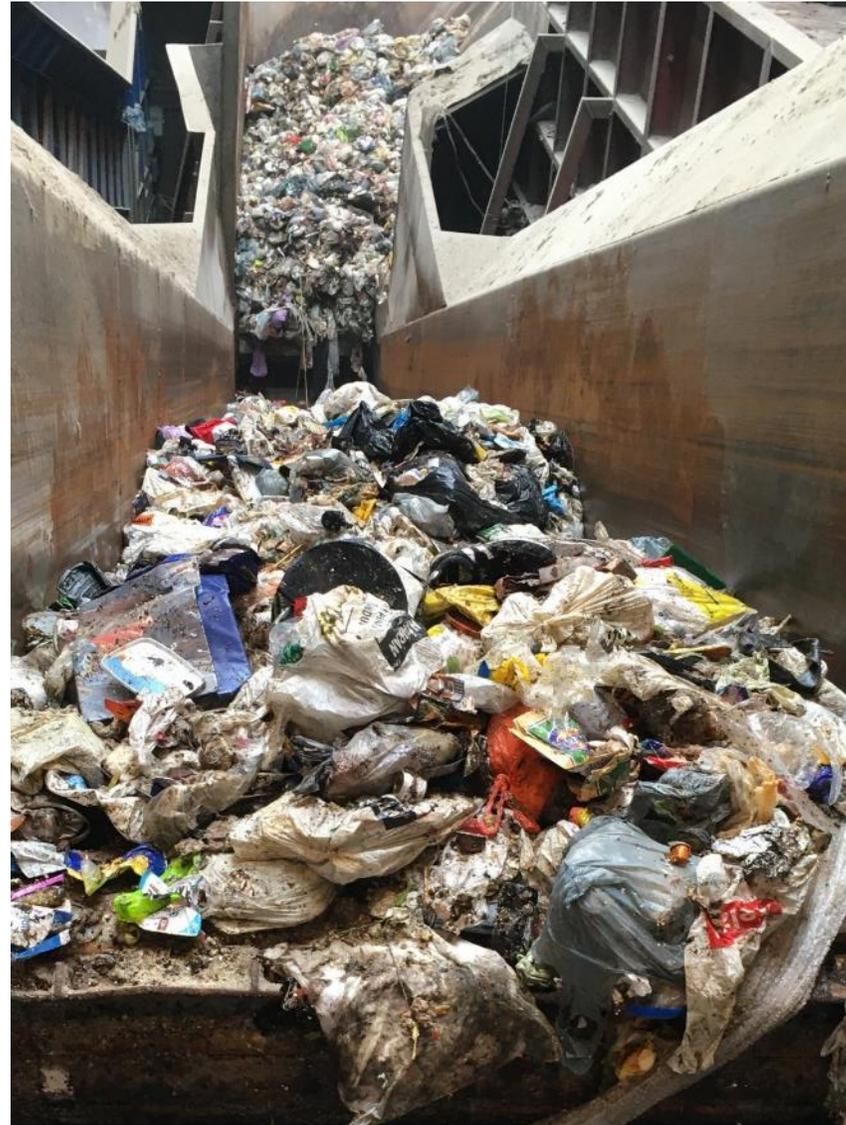
# Municipal Solid Waste

MSW



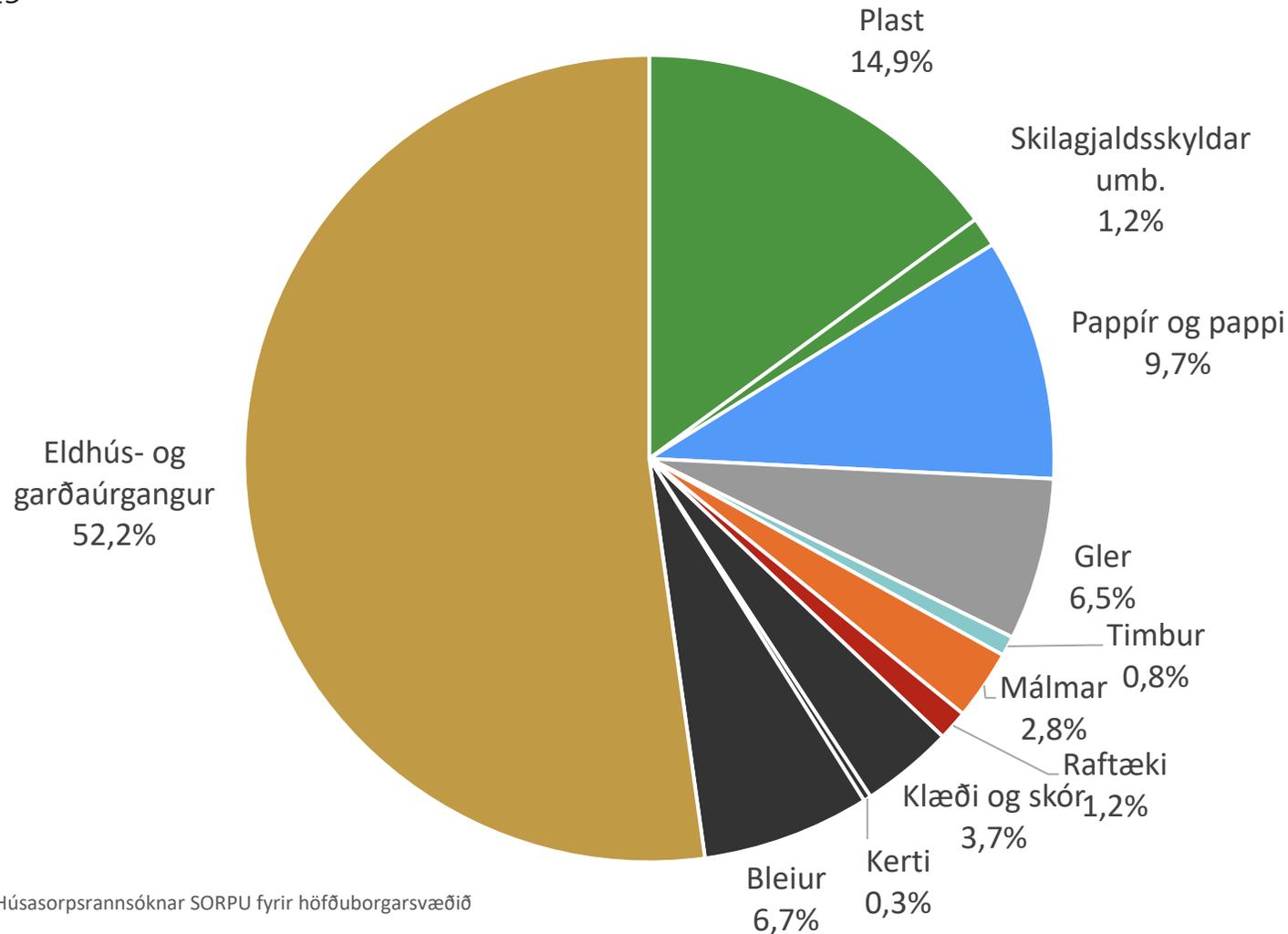
# MSW

Pictures



# MSW composition

2019



Húsaorsprannsóknar SORPU fyrir höfðuborgarsvæðið

## Comment

- MSW is the mixed waste fraction of the household waste
- private households must/can dispose-off other waste materials in specified collection schemes, e.g. plastics, clothes, glass

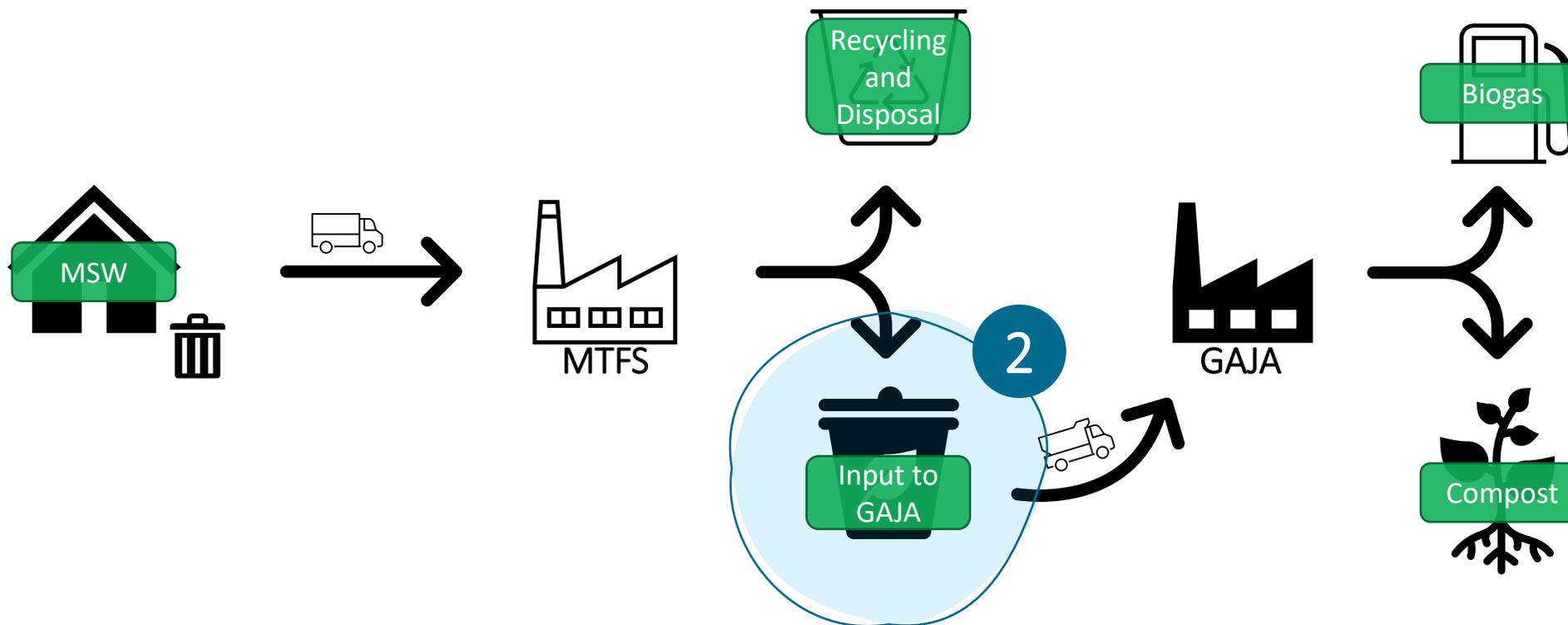
# Móttöku- og flokkunarstöð

MTFS

Receiving and sorting plant

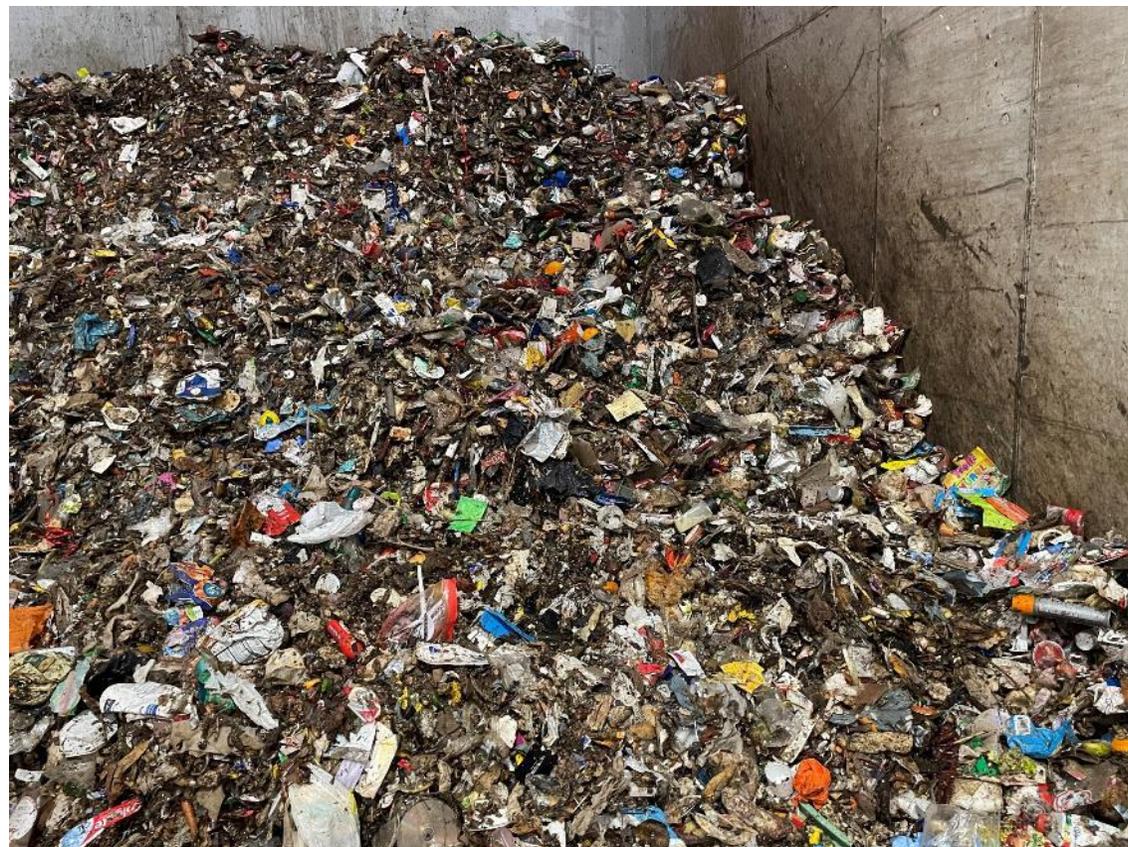


# GAJA-Input

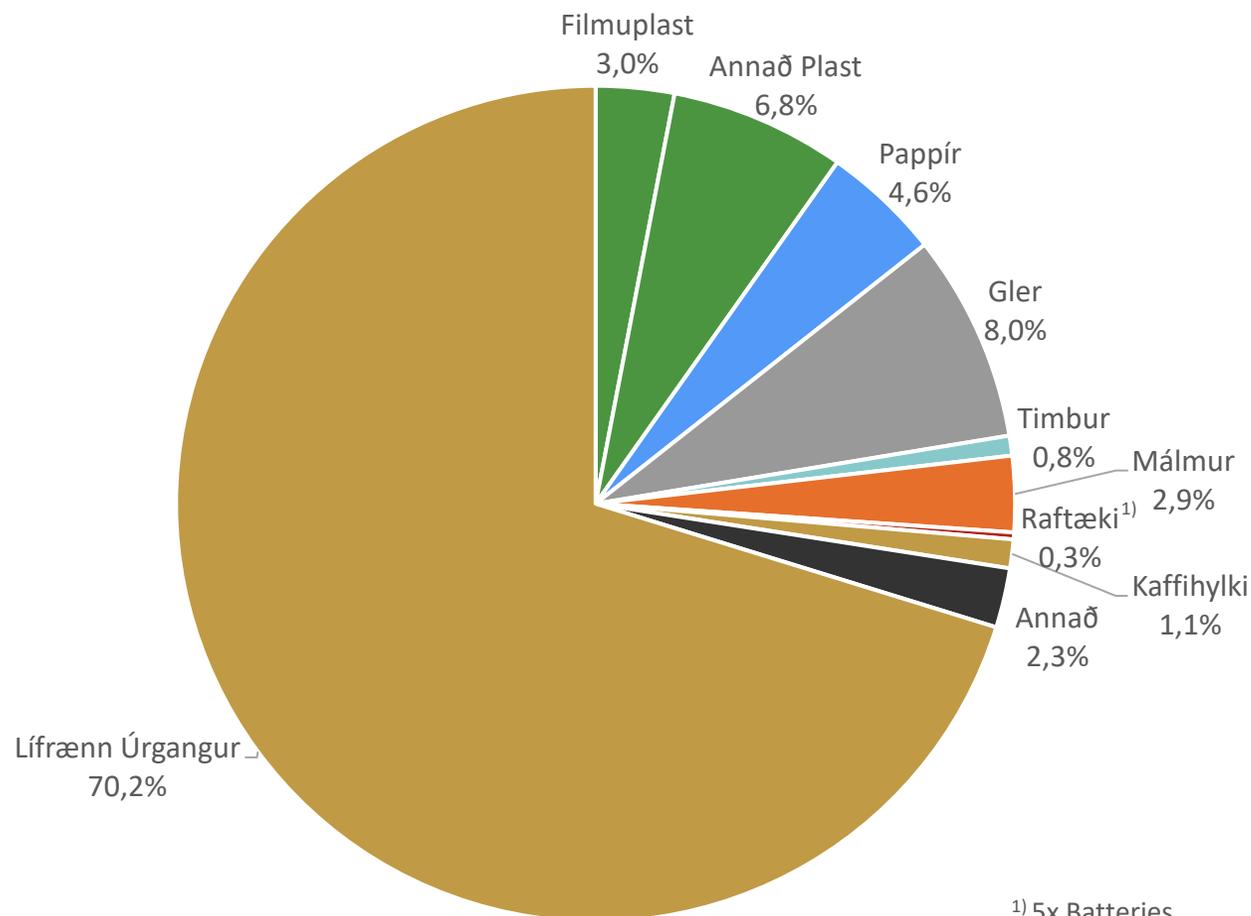


# GAJA-Input

Pictures, June 2021



# GAJA-Input composition I

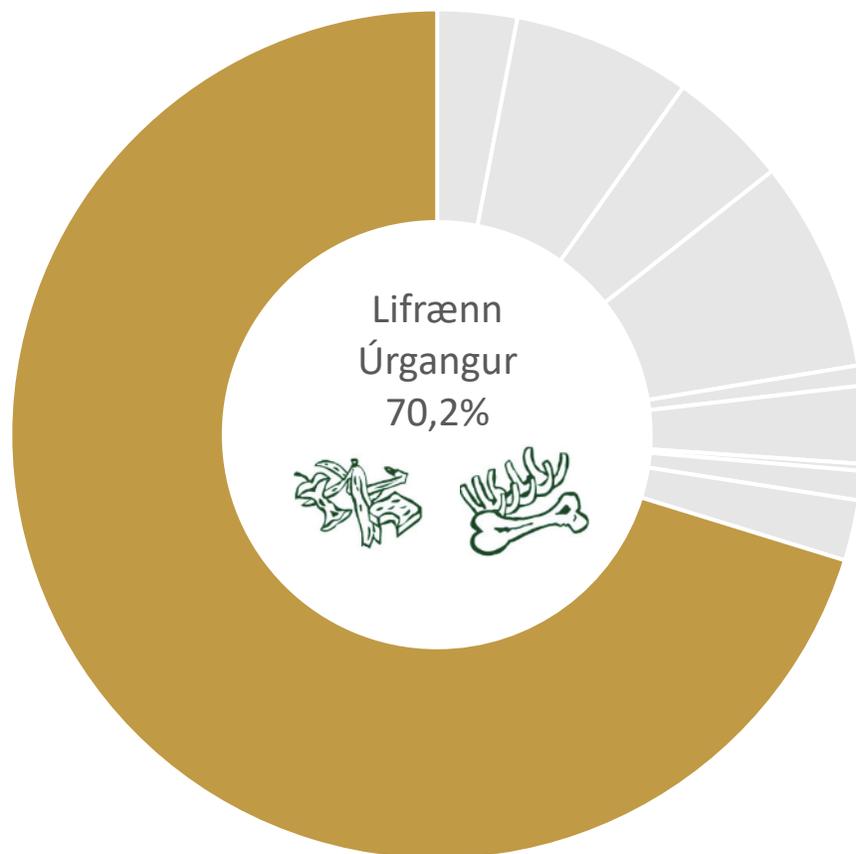


<sup>1)</sup> 5x Batteries  
2x Electronic devices with built-in batteries

## Comments

- Sorting analysis took place on 3rd + 4th of June 2021
- Lína 1
- Guideline: “Chargenanalyse”, BGK e.V., 2018
- All results are presented as fresh matter percentages [% FM]

# Lífrænn úrgangur

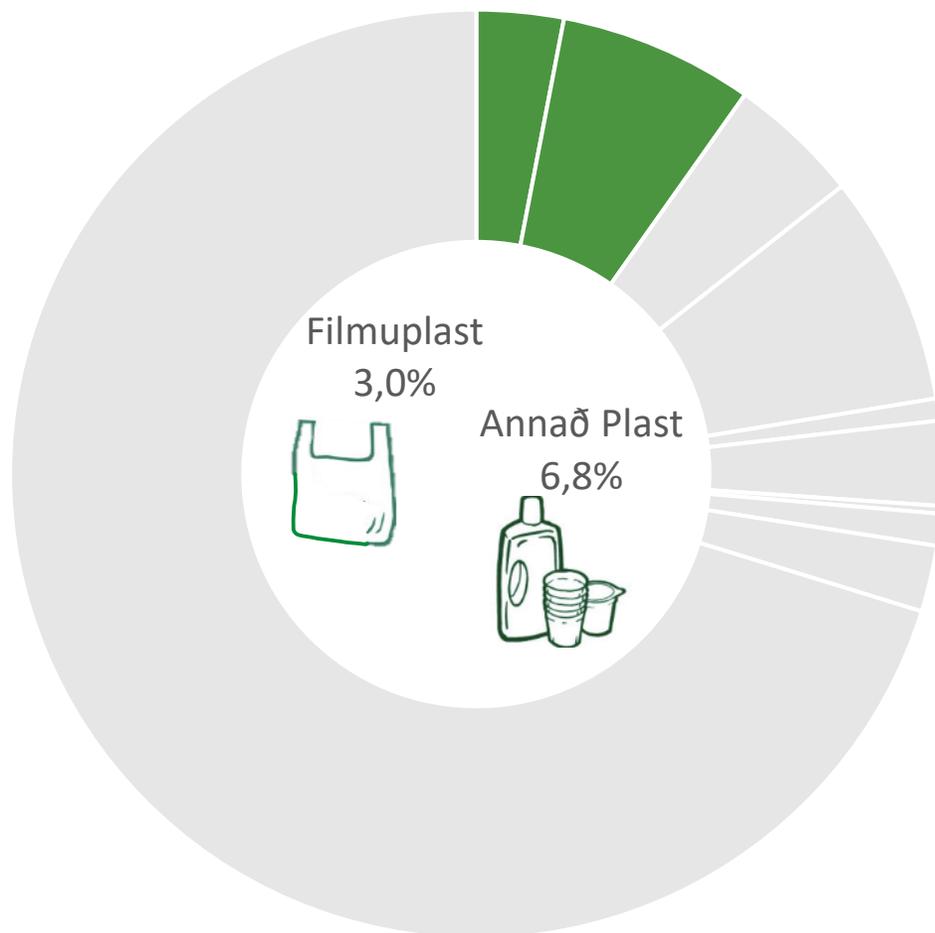


## Comments

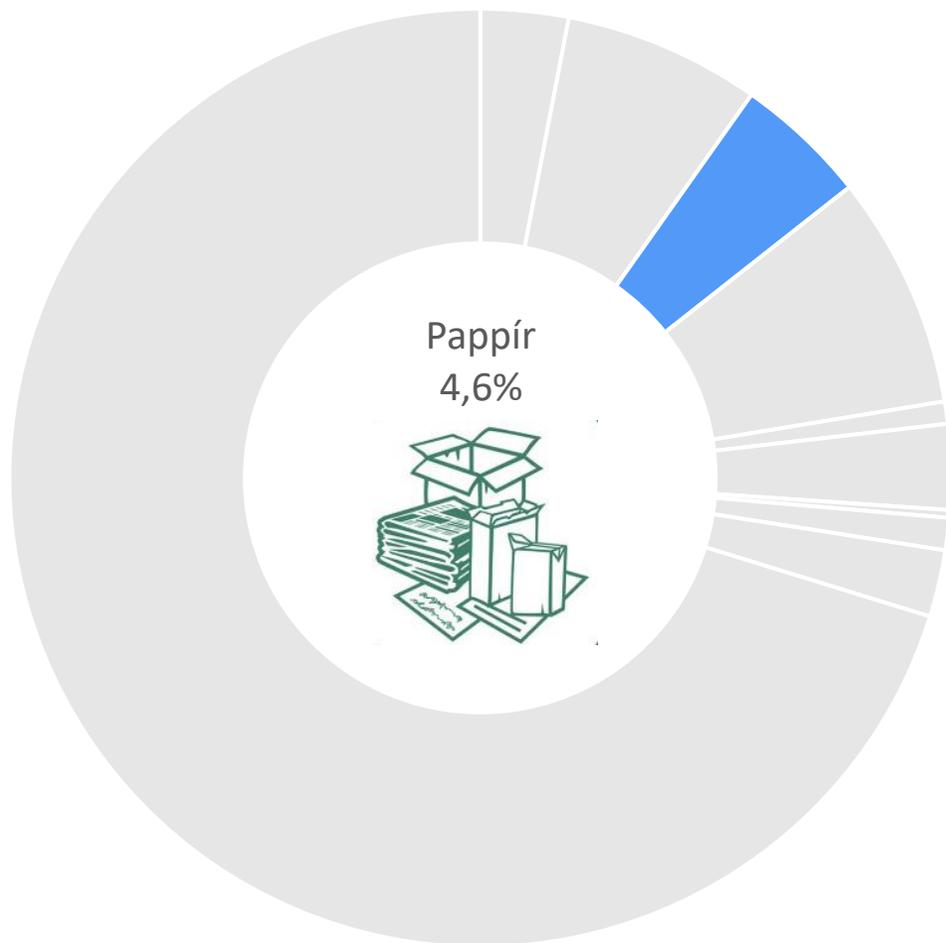
- Mainly organics
- Smaller other items (especially glass) could not be sorted
- Wet paper could not be sorted/differentiated



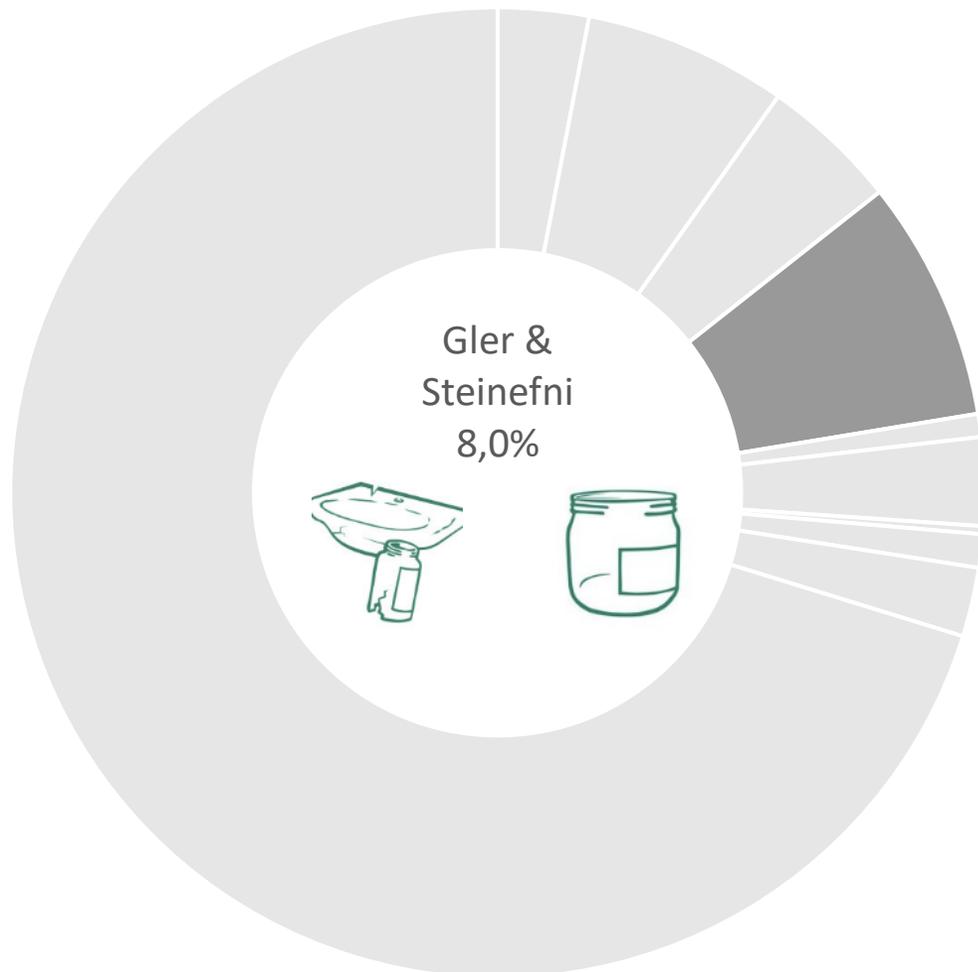
# Filmuplast & Annað Plast



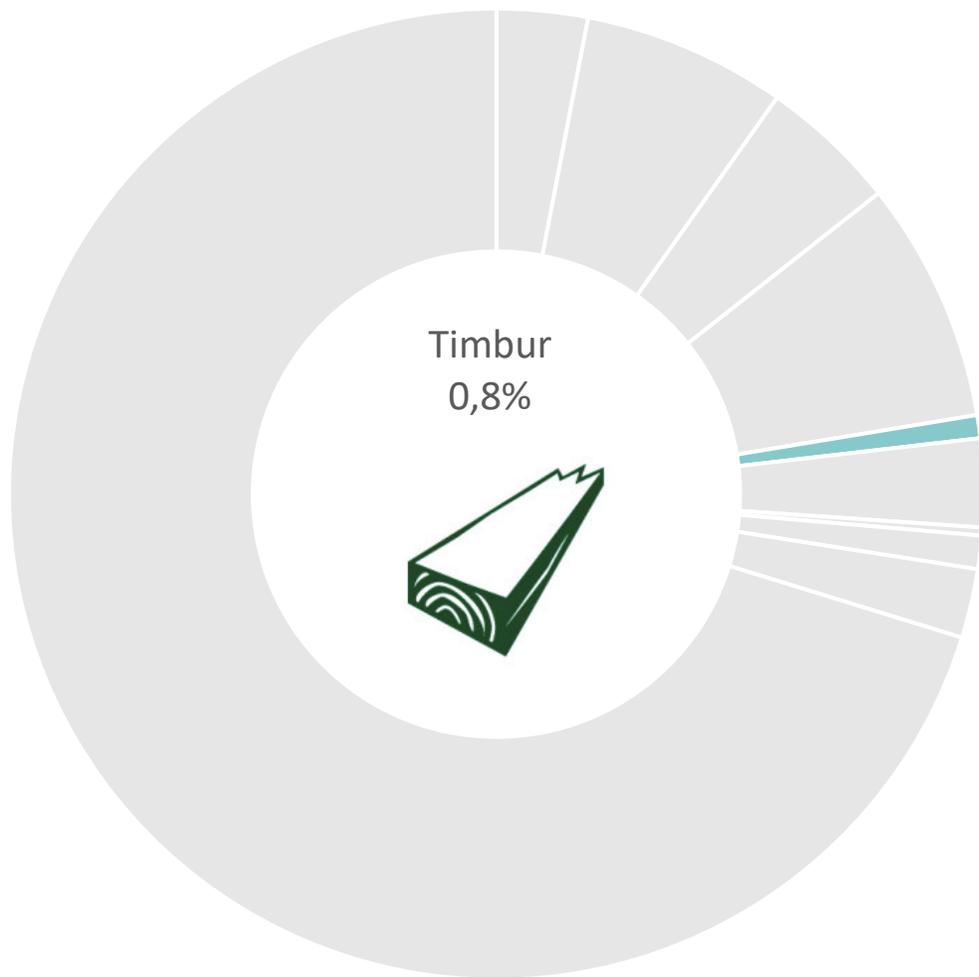
# Pappír



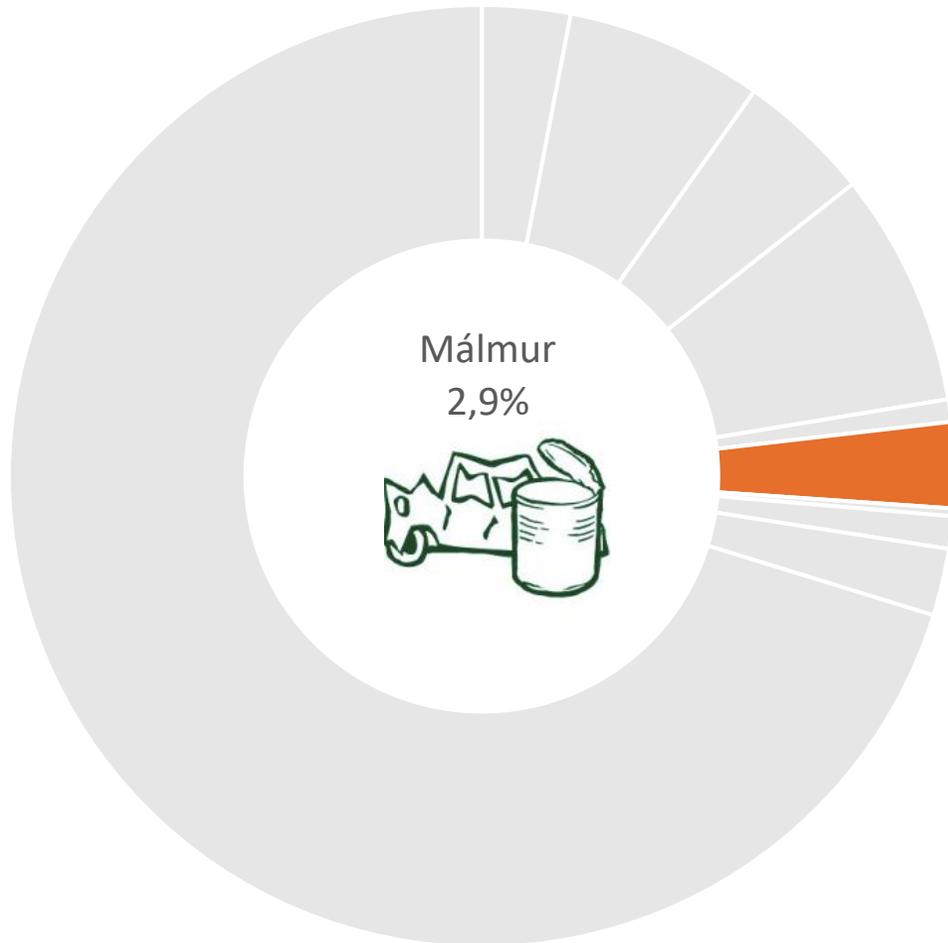
# Gler & Steinefni



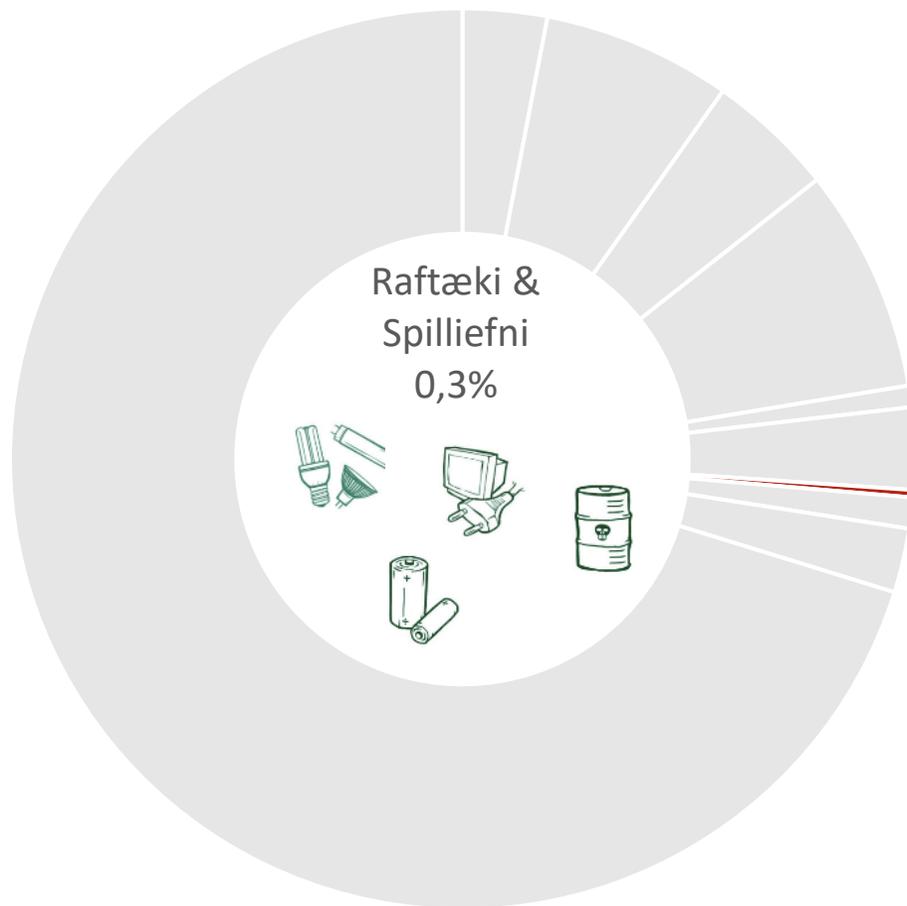
# Timbur



# Málmur



# Raftæki & Spilliefni



## Comments



### Sub-sample 1:

- 3x batteries (2x AAA, AAA)
- 1x electronic device (vapour)

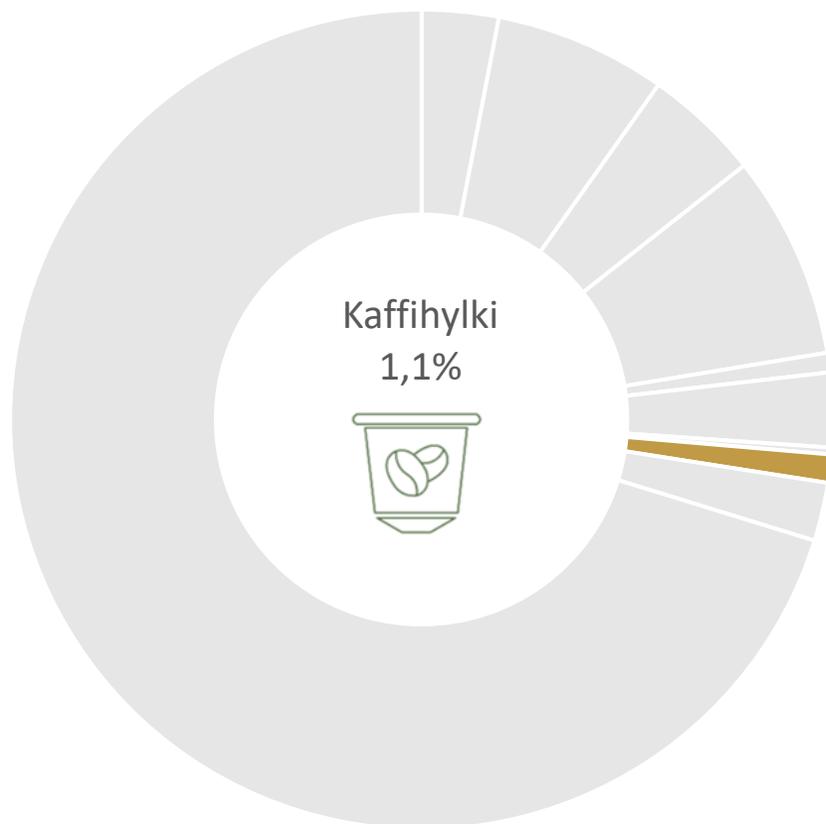


### Sub-sample 2:

- 2x batteries (AAA, D)
- 1x electronic device (blood sugar?)
- Nail polish

# Kaffihylki I

## Comments



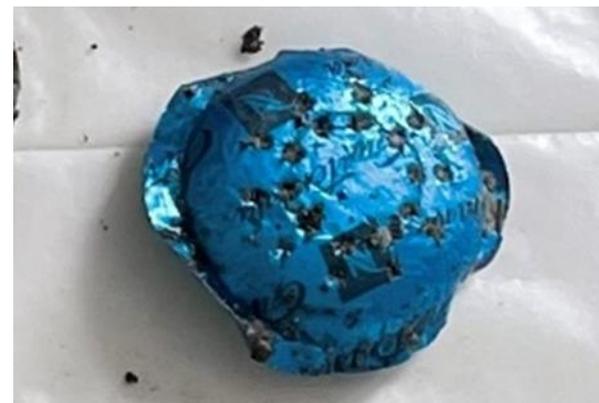
### Parts

- capsule
- lid
- filling/coffee

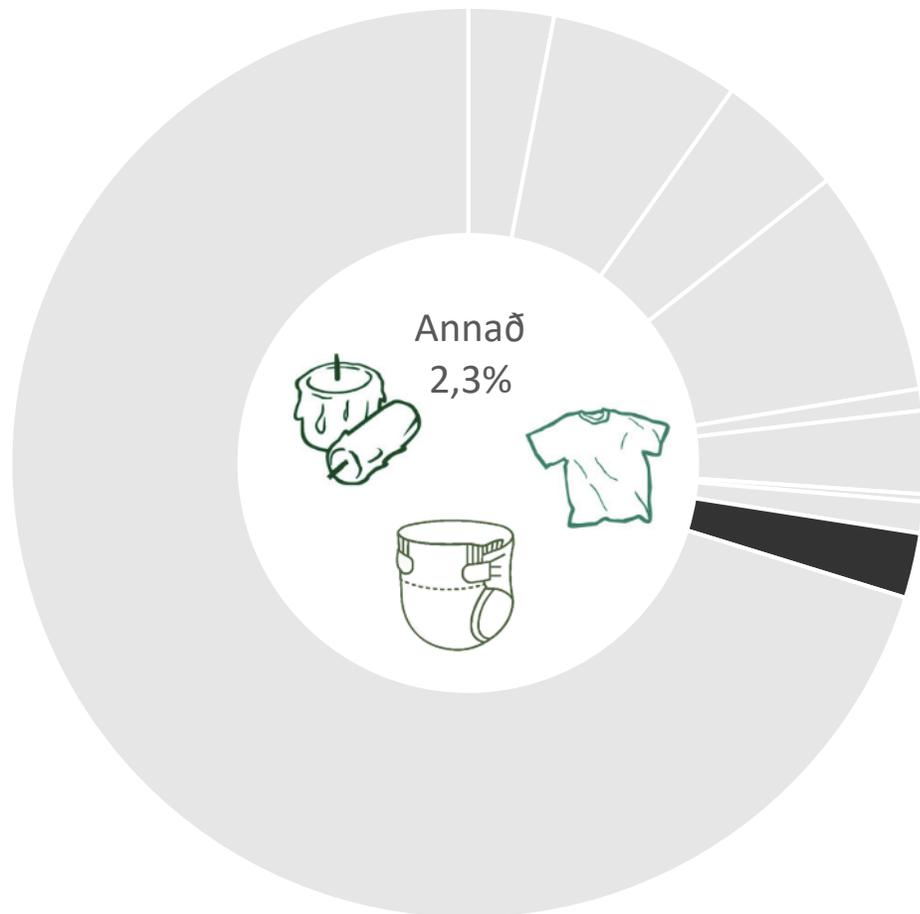
### Material mix

- metals
- conventional plastics
- bioplastics
- spent coffee grounds

# Different types of coffee capsules

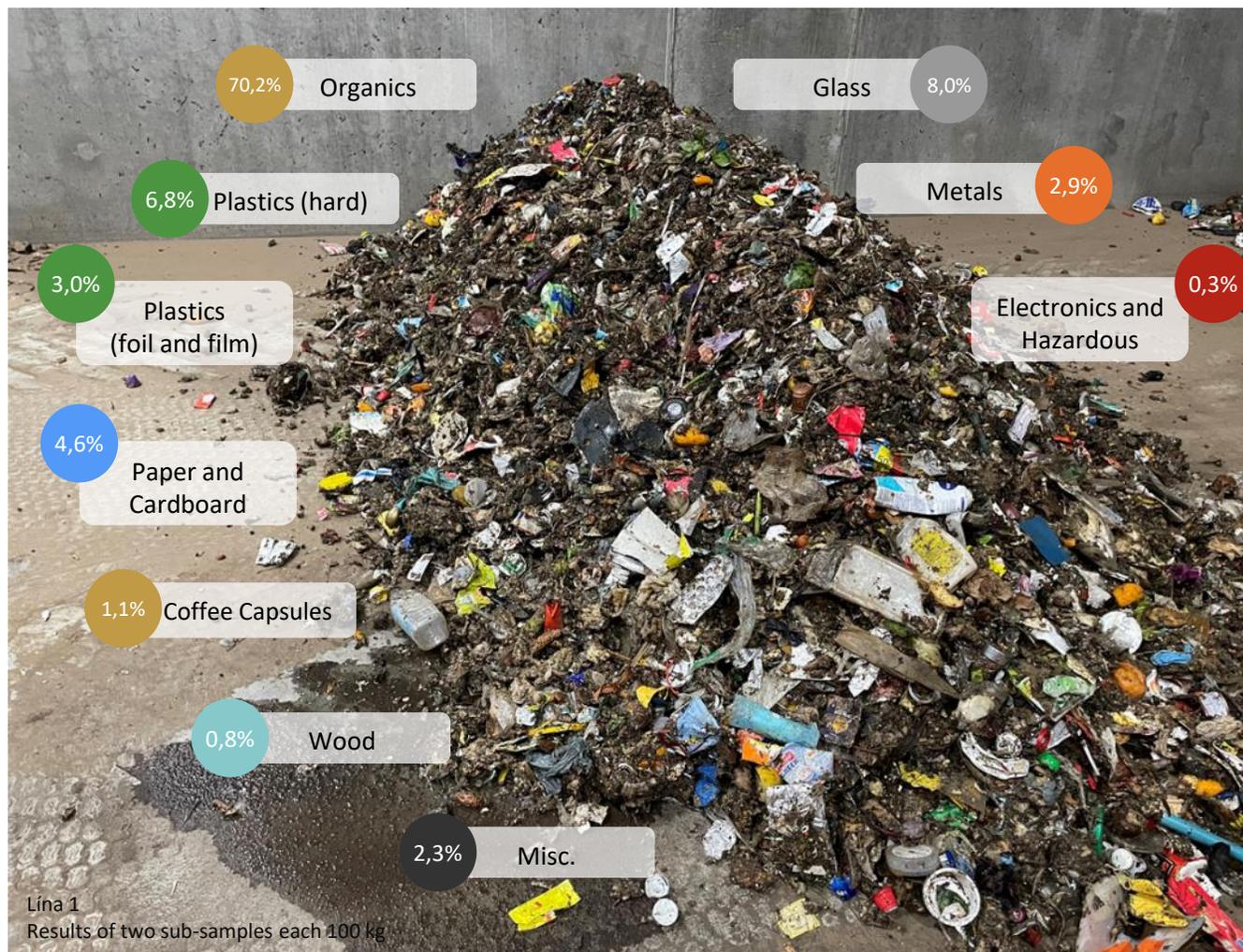


# Annað



# GAJA-Input composition II

2021



All results are presented as fresh/wet matter percentages [% FM]

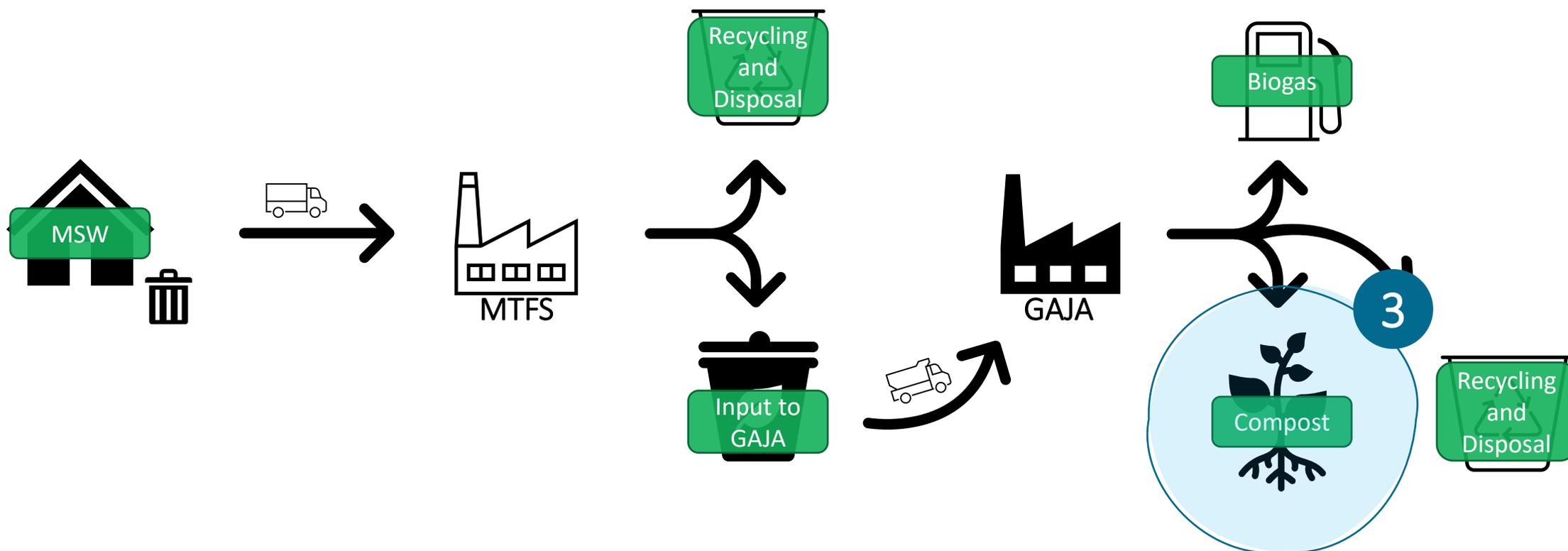
# Gas- og jarðgerðarstöð

GAJA

Biogas and composting plant



# Compost



# Compost

Pictures of first trial batches



Testing the screening process with a drum screen (12 mm).



# Screen Overflow

of the first trial batches



Testing the screening process with a drum screen (12 mm).



# Impurities

of the first trial compost batches (example shows 1L of batch 2)



## Comments

- start-up phase
- staff training
- input variation
- process adaption
- compost refinement:  
*here: test with 12 mm drum-screen*
- physical, chemical and biological properties
- international (limit) values for impurities:
 

• Great Britain	PAS 100	0,25 %
• European Union	ECN- QAS	0,5 %