

*The real world is far more hellish for all us than any fictional representation of it.*

*(Mandy Patinkin)*

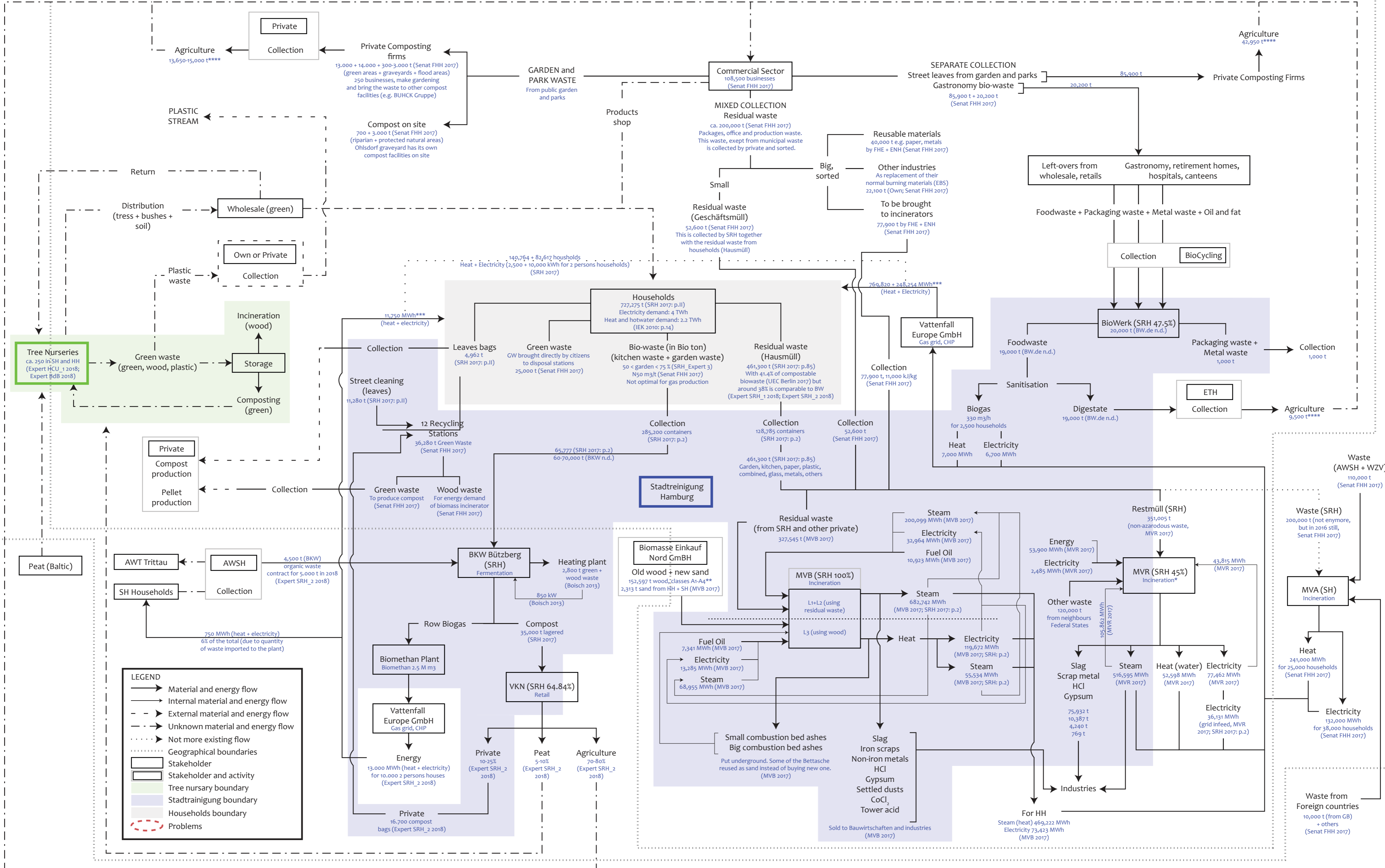
# ANNEX A

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## Schematic representation of Stakeholders Material Flow Analysis (S-MFA) – Chapter 2, Part V

Schematic representation of the Stakeholders Material Flow Analysis (S-MFA) with regard to the organic material stream in Hamburg. The scheme illustrates both flows with related numbers and stakeholders which are involved in management activities for this material. A detailed description is outlined in Chapter 2, Part V.



\* "The only way to improve the efficiency of the heat supplies is to reduce the input of primary energy (using less gas and more waste) and to level out demand by acquiring additional customers" (MVR 2017: p.6). \*\* A1: wood from trees; A2: painted wood; A3: processed wood; A4: wood from railway tracks (Expert MVB 2018). \*\*\* Transport and transformation losses, i.e. secondary to end energy and end to net (see Körner 2015: pp.320-321). \*\*\*\* For sake of simplicity, the production rate of compost from organic waste (kitchen+green waste) has been calculated for these parts by applying the same ratio derived from the BKWB plant. This rate represents, indeed, a heavy approximation: in reality, a different compost generation rate corresponds to the type of waste that is delivered, divided between agricultural, municipal solid waste, and kitchen waste (see Kadir et al. 2016).