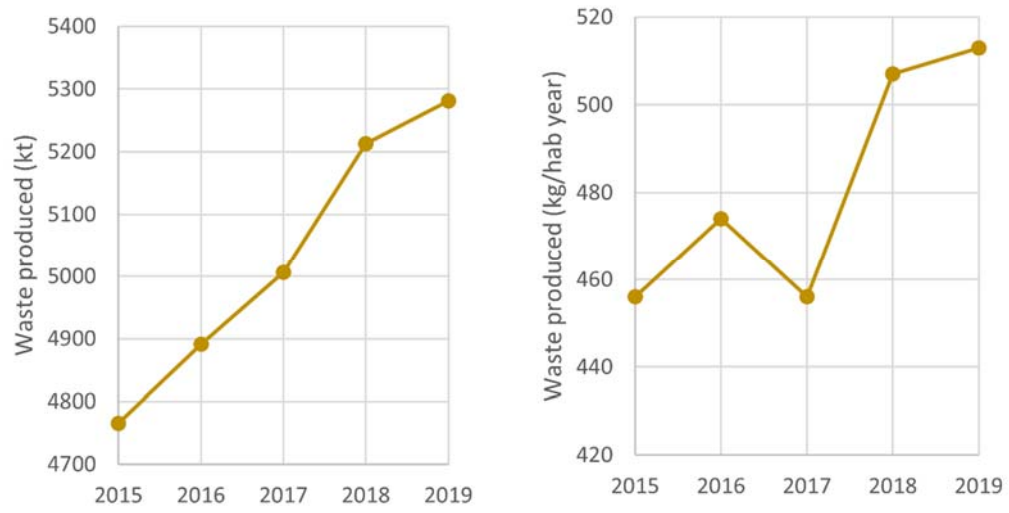
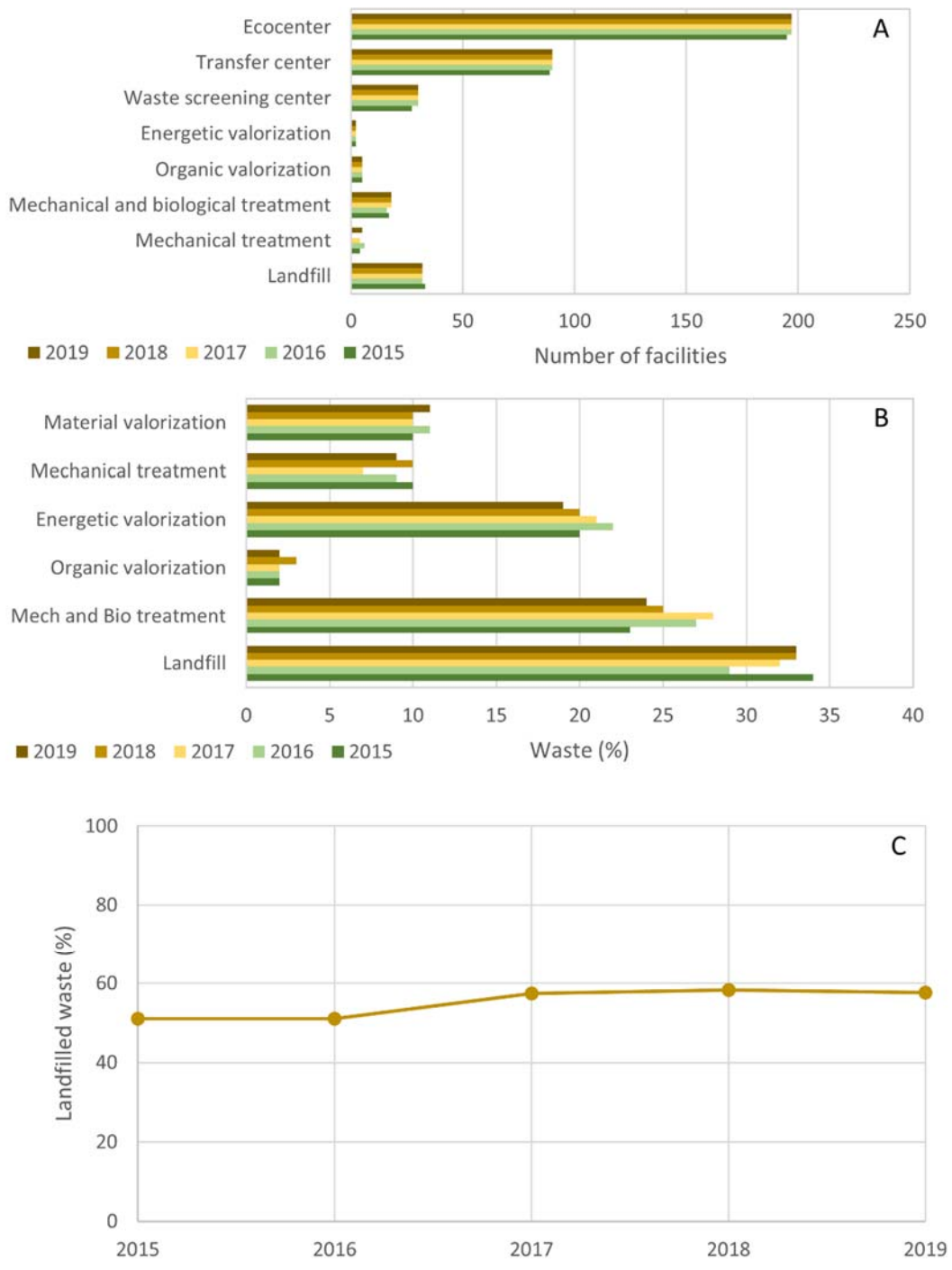


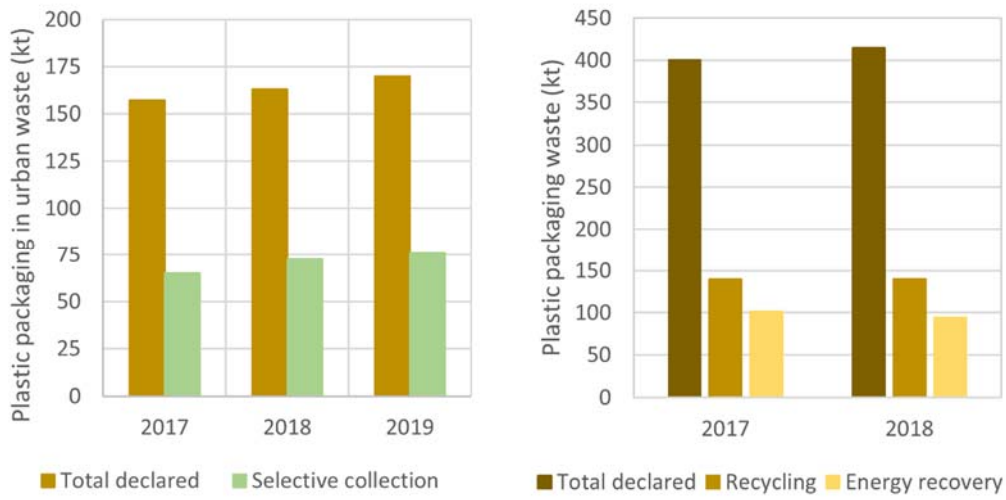
## Supplementary Materials



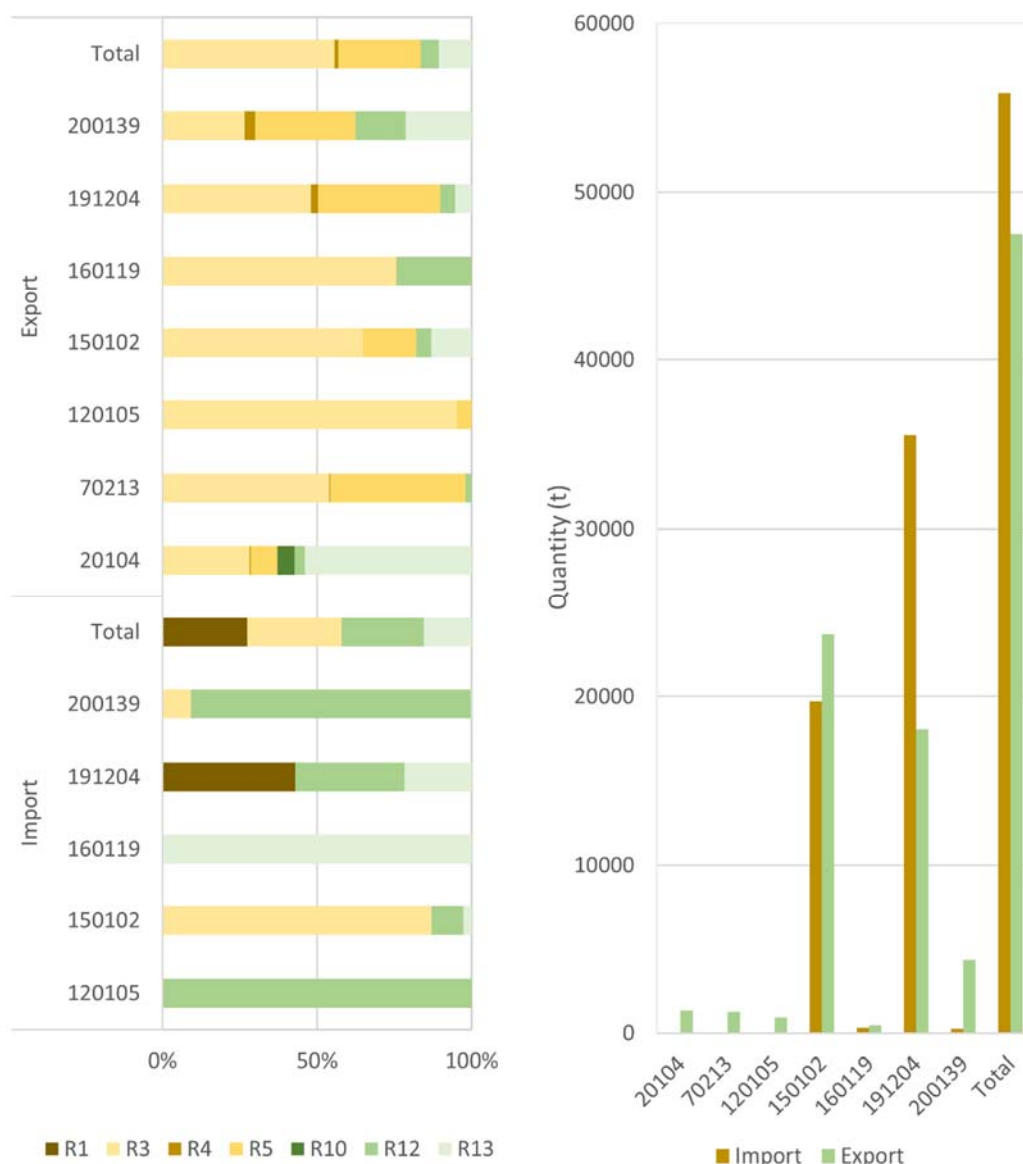
**Fig. S1** Total waste production (left) and waste production per capita (right) per year



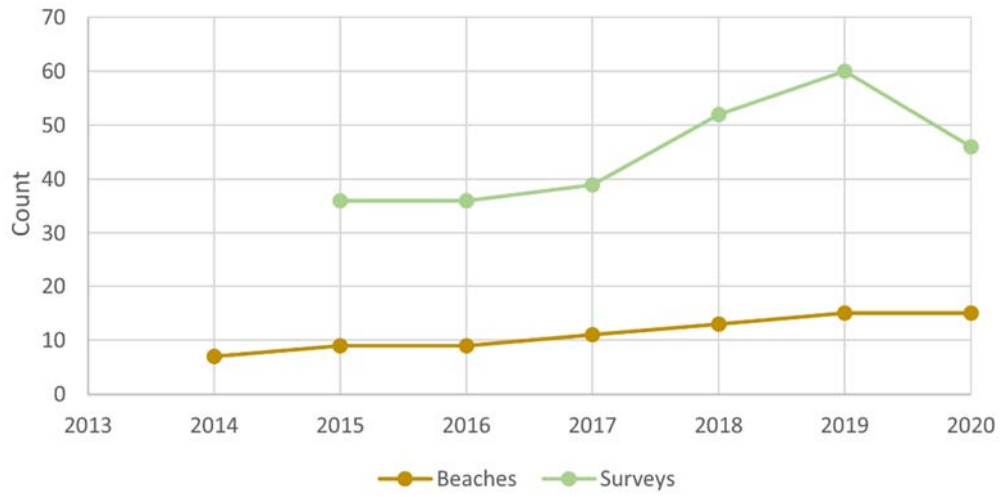
**Fig. S2** Number of waste management facilities (A), waste directly sent to each treatment (B), effective landfilling rate including refuse from other operations (C)



**Fig. S3** Plastic packaging waste production, recycling, and energy recovery for urban waste (left) and total waste (right)



**Fig. S4** Types of plastics imported and exported in amount (right) and by treatment type (left), according to the “Green” list of wastes reported in 2018. Plastic wastes: 20104 – waste plastics (except packaging) from primary production; 70213 – waste plastics from organic chemical processes; 120105 – plastic shavings and turnings; 150102 – plastic packaging (including municipal solid waste); 160119 – plastic from end-of-life vehicles; 191204 – plastic and rubber from mechanical treatment of waste; 200139 – plastics in municipal solid waste including separated. Recovery treatments: R1 – use as fuel in waste-to-energy; R3 – mechanical recycling; R4 – recycling/reclamation of metals (e.g., in end-of-life vehicles, electronic waste); R5 – recycling/reclamation of other inorganic matter (e.g., construction waste, use in cement or asphalt); R10 – land treatment using waste (e.g., in landscape restoration); R12 – exchange of wastes for preparatory activities (e.g., sorting, shredding); R13 – temporary storage of wastes (< 3 years) for R1-R12 operations



**Fig. S5** Number of sampled beaches and surveys on beach marine litter conducted by the Portuguese Environmental Agency from 2013 to 2020