



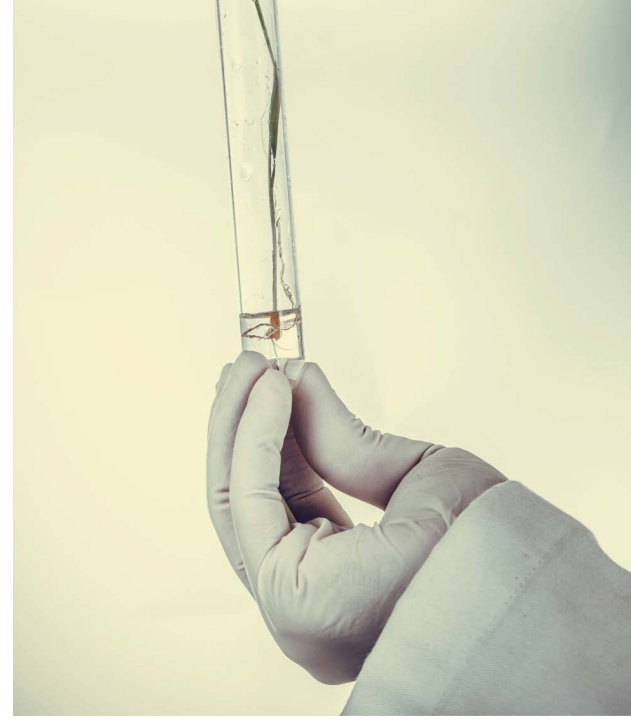
CIRCULAR ECONOMY IN SWEDEN

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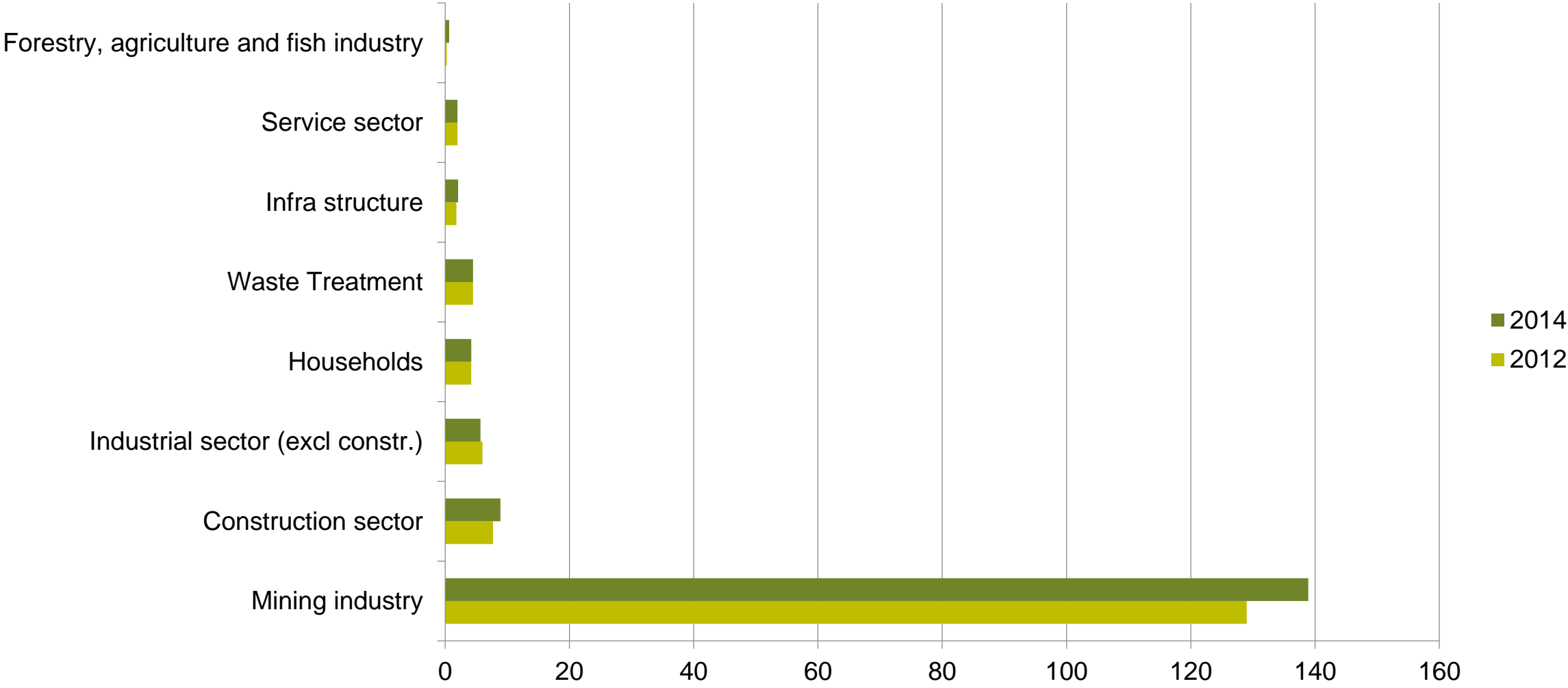
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Research Institutes of Sweden

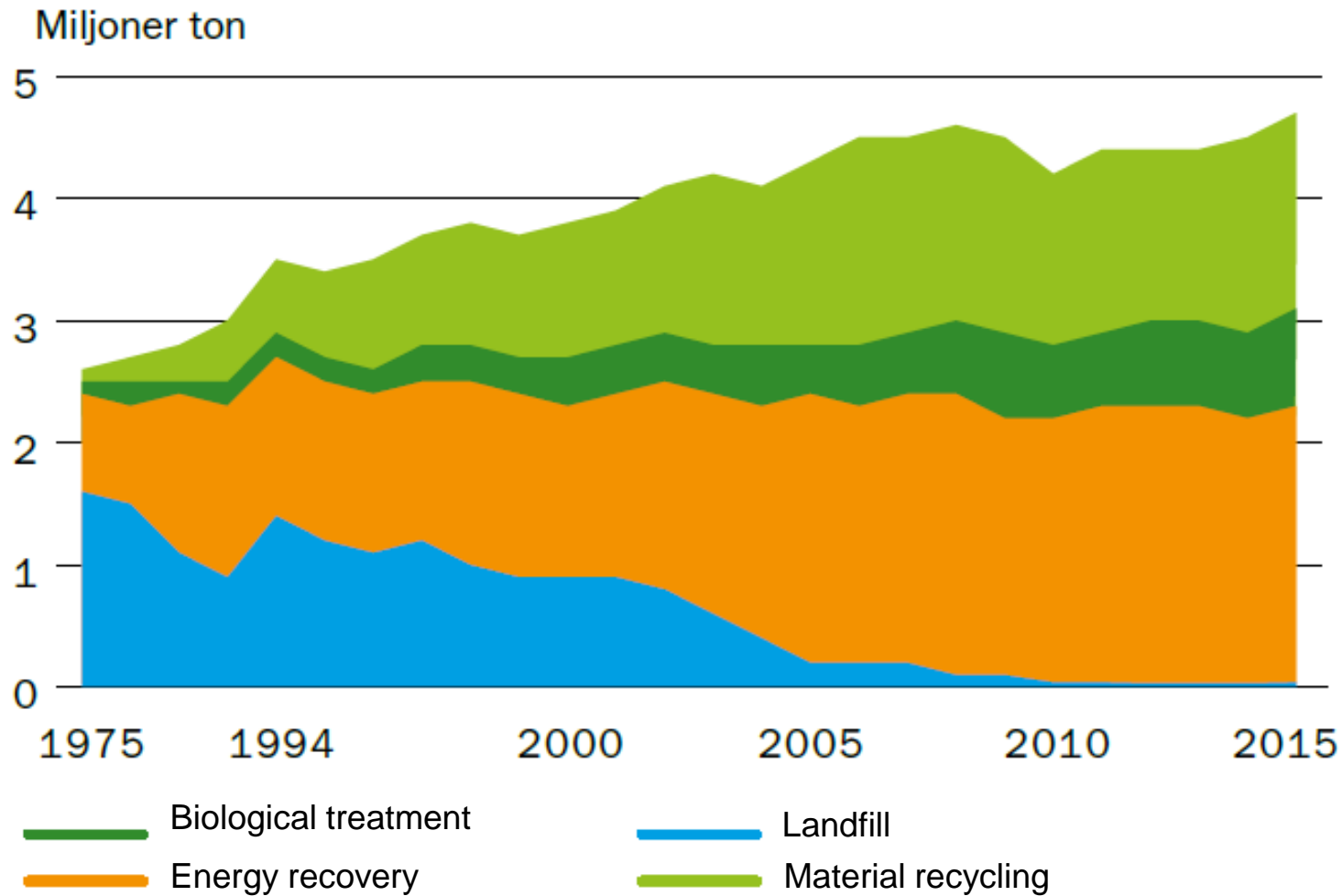
**BUILT ENVIRONMENT
ENERGY AND CIRCULAR ECONOMY**



Waste generation in Sweden

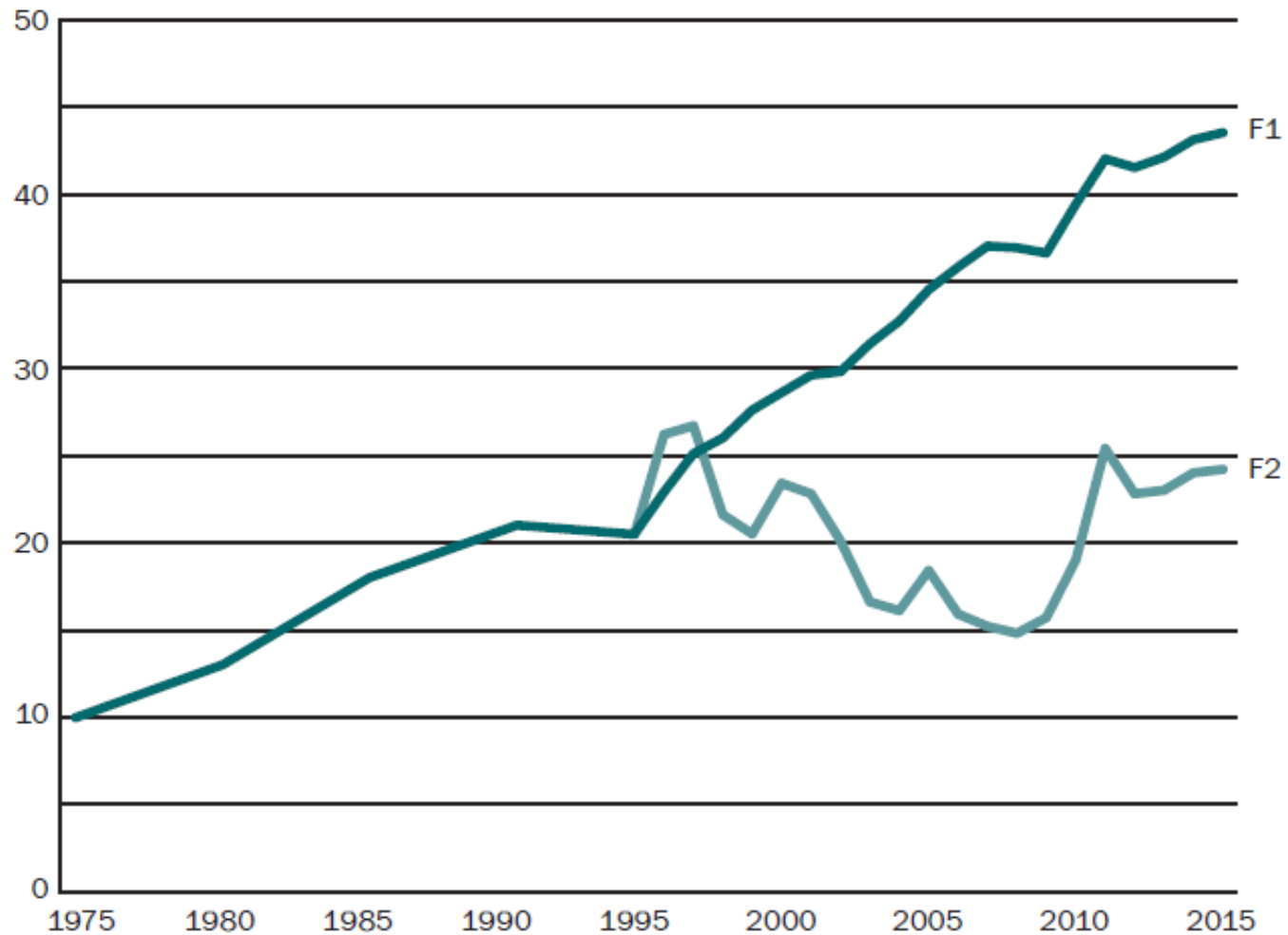


Municipal solid waste generation and treatment



Source: Avfall Sverige – Swedish Waste Management Association

Where are we in the Waste Hierarchy?



F1: Position in the waste hierarchy

F2: Position in the waste hierarchy compensated for increasing amounts of waste

Source: Avfall Sverige

Producers responsibility

- Batteries
- Cars
- Tires
- Electronics (including light sources)
- Packaging material
- Paper
- Pharmaceuticals
- Radioactive products

Recycling targets for packages

	Current target (%)	After 1 Jan 2020 (%)
Glass	70	90
Plastic	30	50
PET-bottles	90	90
Paper	65	85
Metal	70	85
Metal (drink containers)	90	90
Wood	15	15
Other containers	15	15
Total	55	65

Target for plastic bags

- Aim to only consume 90 plastic bags/person and year by 2019
- Introduced a reporting responsibility for those who manufacture or import plastic bags into the Swedish market
- EPA Have also suggested (but not decided) of a minimum price on plastic bags)



Target food waste

- By 2018 at least 50 percent of the food waste should be source separated and treated biologically so that the nutrients are recovered, and at least 40% of the food waste are treated in a way that also the energy is recovered.
- Suggested goal to decrease the amount of food waste by 20% (2020 compared to 2010)

Textile waste

- EPA have suggested that source separation of textiles are introduced either by the municipalities or by introducing a producers responsibility.
- Suggested goals concerning textile waste
 - A decrease in amount of textile waste by 60 % (2025 compared to 2015)
 - By 2025 90% of the collected textiles should be prepared for reuse or material recycled

Landfill ban and a tax

- Sweden introduced a landfill tax 200 and landfill bans on combustible and organic waste 2002 and 2005.
- The position in Sweden has been that the suggestion from EC on 10% to landfill is too weak.

Waste incineration tax?

- There is an ongoing investigation to evaluate the basis of the Waste-to-Energy sector in Sweden and what effect current economic instruments have on the sector and the import of waste.
- In the national waste management plan the Swedish EPA has also emphasized that there is a need to move upwards in the hierarchy.



Re-Use

- An investigation is ongoing on how to increase the re-use of things. He will look at what economic instruments that would be needed to increase the re-use of products as well as look at what legislative barriers there are present today.
- There has also been introduced a VAT-reduction on smaller repair activities (like bicycles, shoes etc)

Collaborative economy

- There is an ongoing investigation on what effects there are from a collaborative economy like Uber, AirBnB and other examples.

Research

- During 2016 a new Innovation programme was started on Waste. The vision is to make Sweden world leading in minimizing and utilising/recover waste.
- The programme has a budget of around €10 million/year where 50% comes from governmental agencies and 50% from the industry

RE:

SOURCE