

DataViz trash recycling

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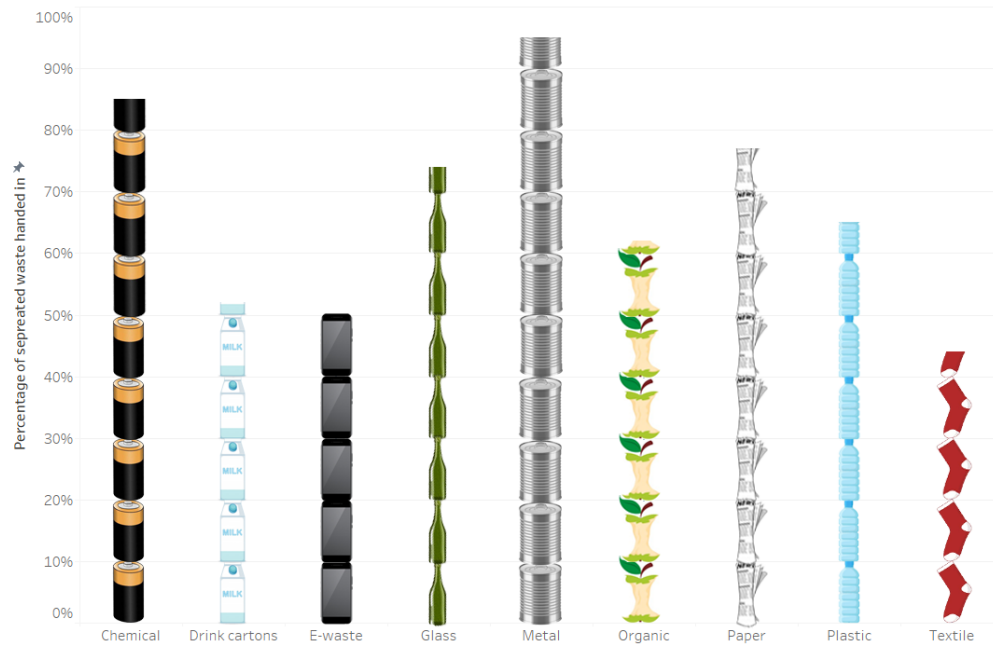
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Gijs Kampshoff s2307200

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Separated waste: per person per year in the Netherlands in 2018



For this visualisation, the bar diagram was made in Tableau. Which was eventually edited in Photoshop.

Data source

<https://www.milieucentraal.nl/minder-afval/afval-scheiden/afval-scheiden-cijfers-en-kilo-s/#Een-paar-cijfers-over-afval>

Image sources

Chemical: <https://pngio.com/PNG/a105430-cartoon-battery-png.html>

Drink carton: <https://www.freepik.com/vectors/drink-carton>

E-waste:

https://www.freepik.com/free-vector/black-white-smartphone-mockup_5001191.htm#page=1&query=smartphone&position=28

Glass: https://www.freepik.com/premium-vector/set-different-trash-bin_3956810.htm

Metal:

https://www.freepik.com/premium-vector/tin-can-food-package-mockup-set_4305015.htm#page=1&query=can&position=28

Organic:

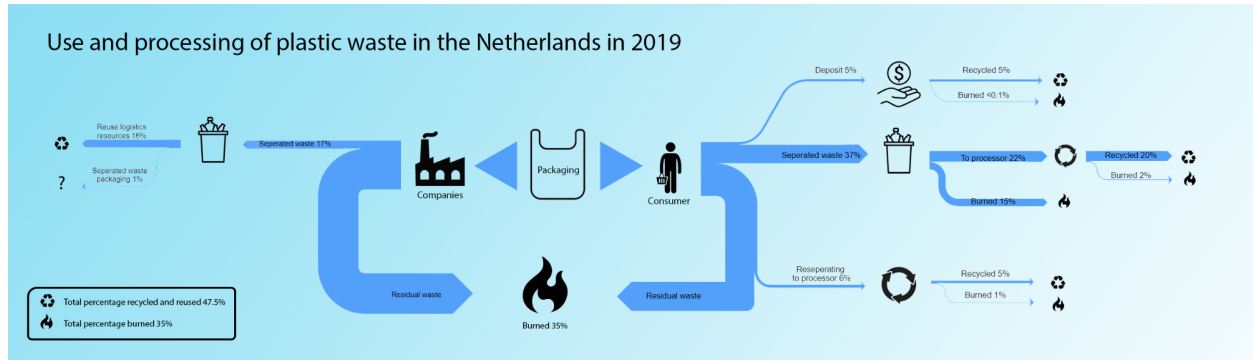
https://www.freepik.com/premium-vector/green-red-apple-core_11415006.htm#page=1&query=cored%20apple&position=25

Paper: <http://clipart-library.com/clipart/1384957.htm>

Plastic bottle:

<https://www.dreamstime.com/empty-plastic-bottle-blue-lid-transparent-container-drinking-water-graphic-element-promo-banner-poster-cartoon-style-image117858730>

Textile: <https://www.shutterstock.com/nl/search/socks+cartoon>



There is a website called Sankey that was used to make the skeleton with the arrows. These arrows were pasted in Photoshop where it became one complete visualisation.

Data source

<https://ce.nl/publicaties/plasticgebruik-en-verwerking-van-plastic-afval-in-nederland/>

Image sources

Plastic bag:

https://www.iconfinder.com/icons/4117644/accessories_accessory_bag_bags_plastic_bag_shop_ping_bag_icon

Consumer: <https://thenounproject.com/term/consumer/980181/>

Deposit: <https://www.pinclipart.com/maxpin/iTJwwiJ/>

Recycle:

https://www.pinclipart.com/pindetail/iTooxhJ_sign-silhouette-at-getdrawings-recycle-symbol-clipart/

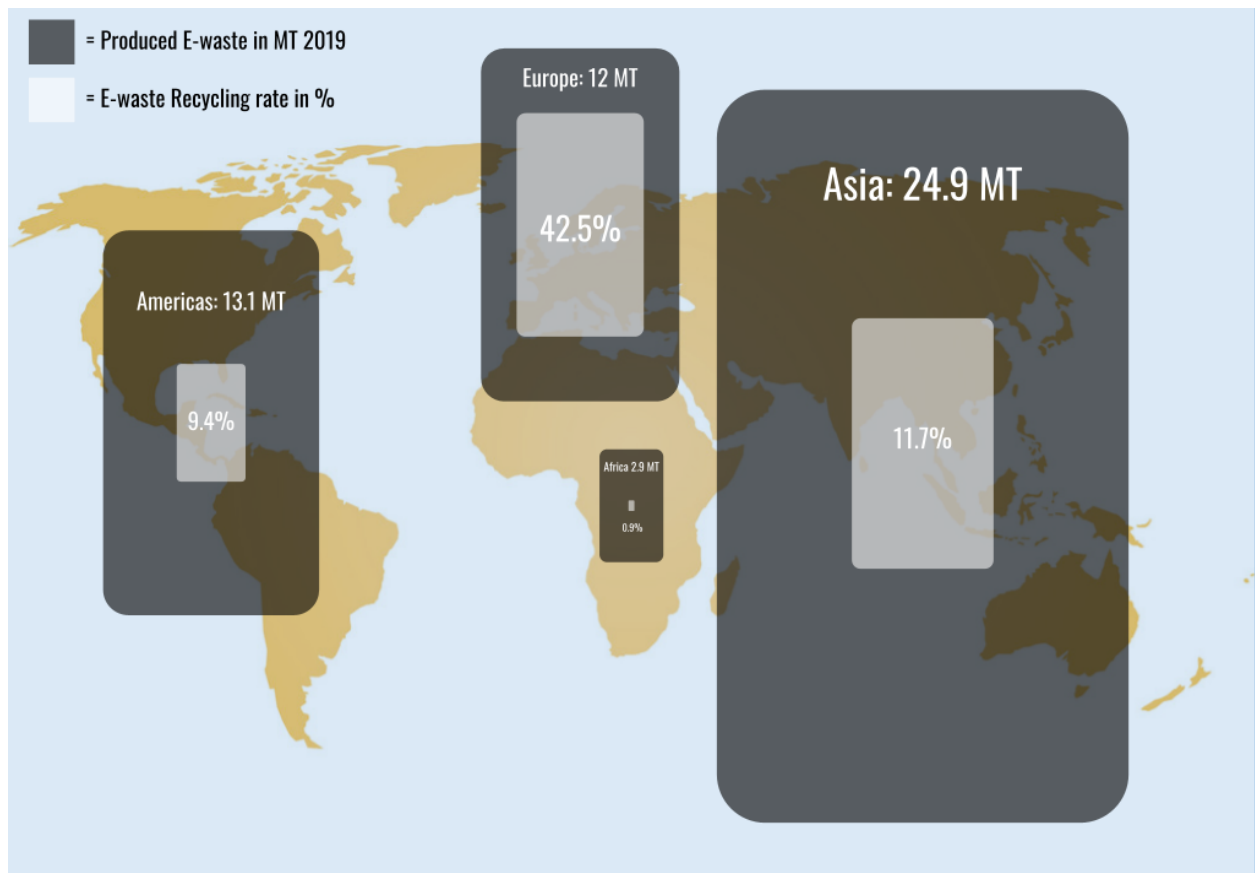
Fire:

https://www.pinclipart.com/pindetail/iTxihio_transparent-fire-clipart-transparent-black-fire-png/

Factory: https://www.pinclipart.com/pindetail/ixiRm_factory-industry-production-icon-icon-industry-vector-clipart/

Separated waste icon: <https://iconsout.com/icon/recycle-plastic-waste-2077005>

Sankey: <https://www.sankeyflowshow.com/app/index.html>



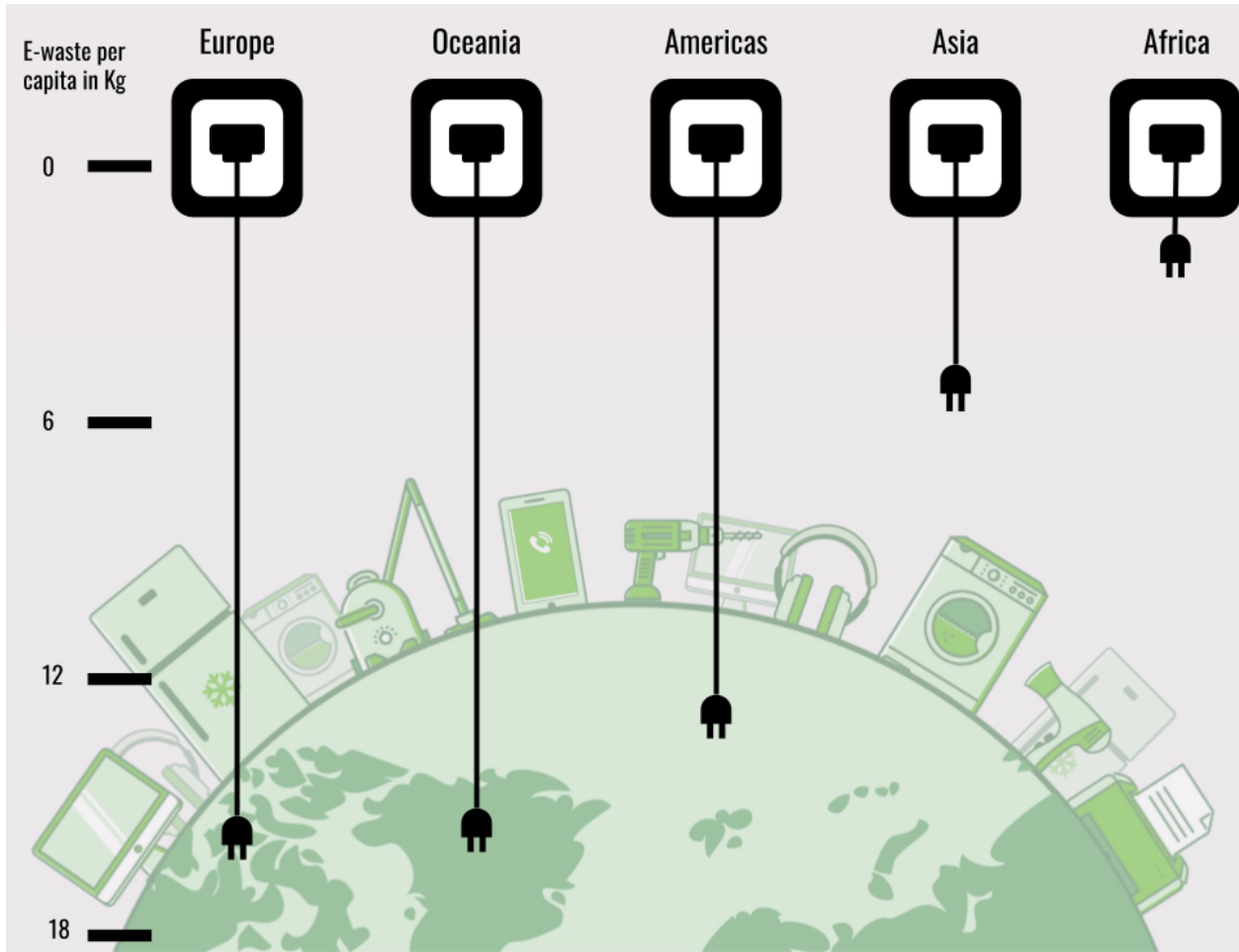
Data source:

http://ewastemonitor.info/wp-content/uploads/2020/12/GEM_2020_def_dec_2020-1.pdf

Background image:

<https://cdn4.vectorstock.com/i/1000x1000/44/33/orange-silhouette-world-map-simple-flat-vector-12094433.jpg>

The visualisation was made entirely in google drawings. One thing to note is that the continent of Oceania was not incorporated into the visualisation since their e-waste production of 0.7 MT and recycling rate of 8.8% in 2019 was too small to create a significantly visible visualisation.



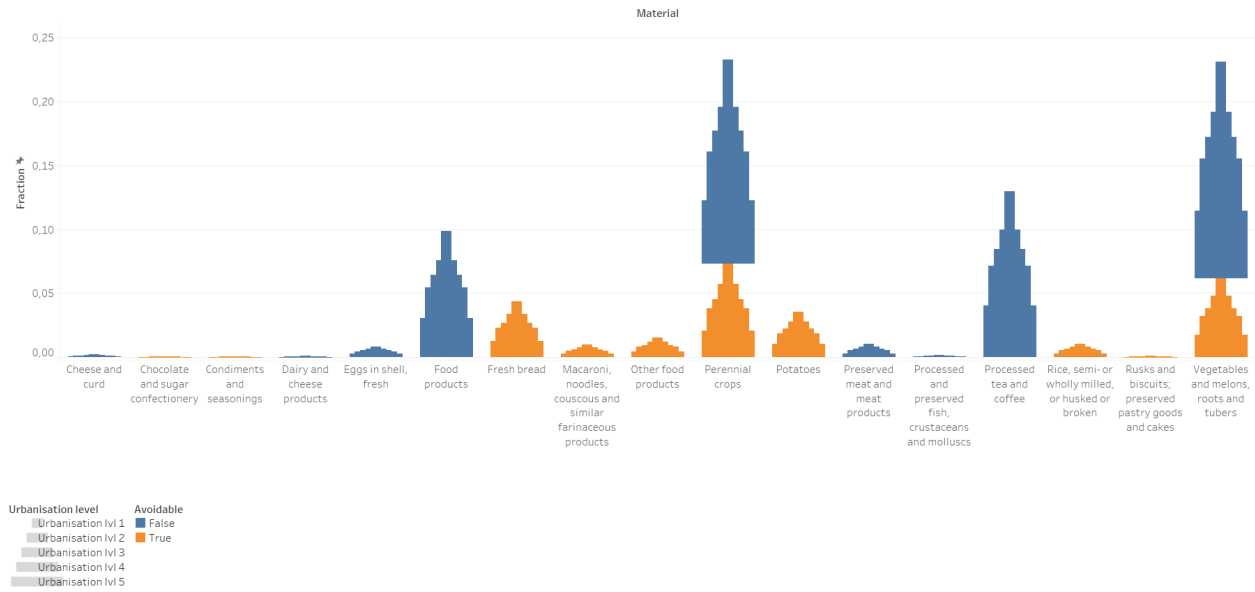
Data source:

http://ewastemonitor.info/wp-content/uploads/2020/12/GEM_2020_def_dec_2020-1.pdf

Background image source: <https://tcocertified.com/files/2019/10/international-e-waste-day.jpg>

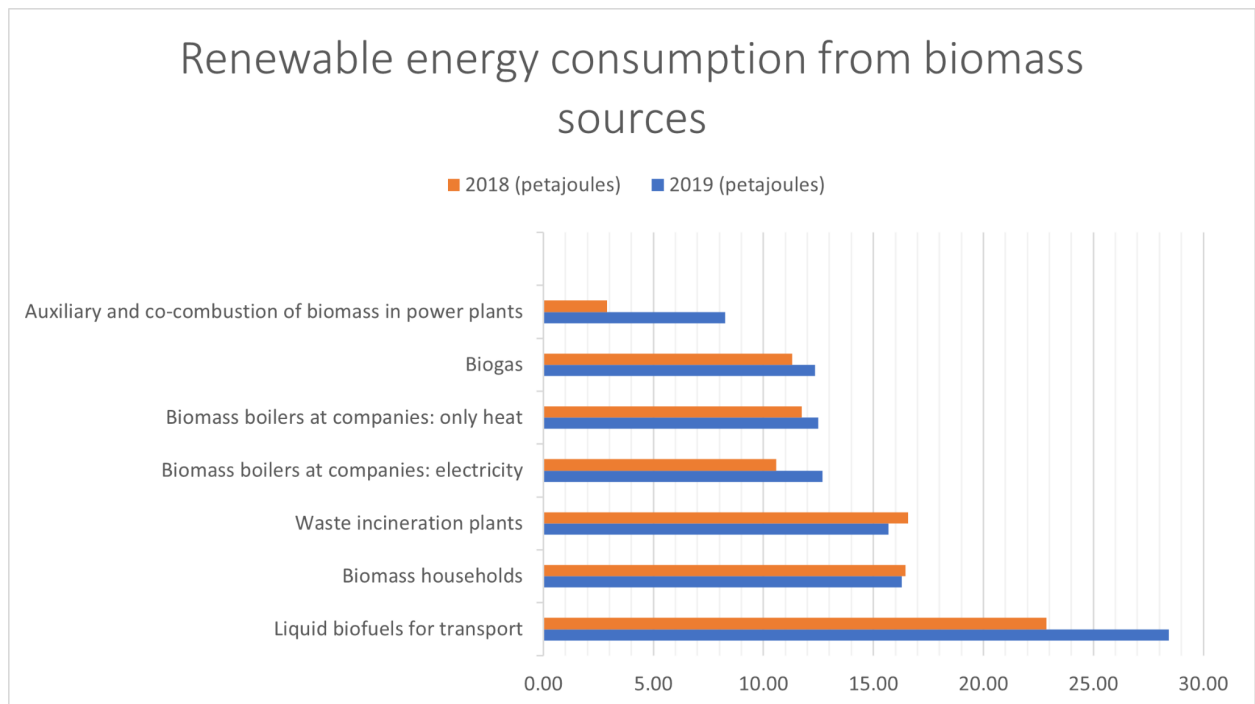
The visualisation was made entirely in google drawings.

Different materials of food waste in GFT, sorted by level of urbanisation



Data source:

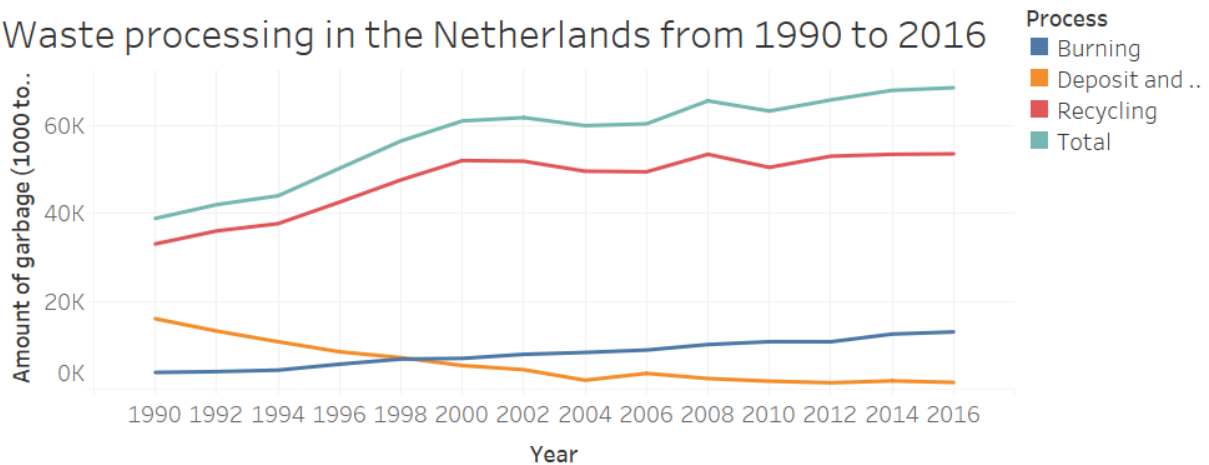
https://data.4tu.nl/articles/dataset/T3_2_Food_waste_flows_and_stocks_from_households_and_SMEs_to_waste_treatment_plants_in_AMA_using_municipal_waste_collection_system/13302470



Data source:

<https://www.cbs.nl/en-gb/news/2021/22/11-percent-of-energy-consumption-from-renewable-sources-in-2020>

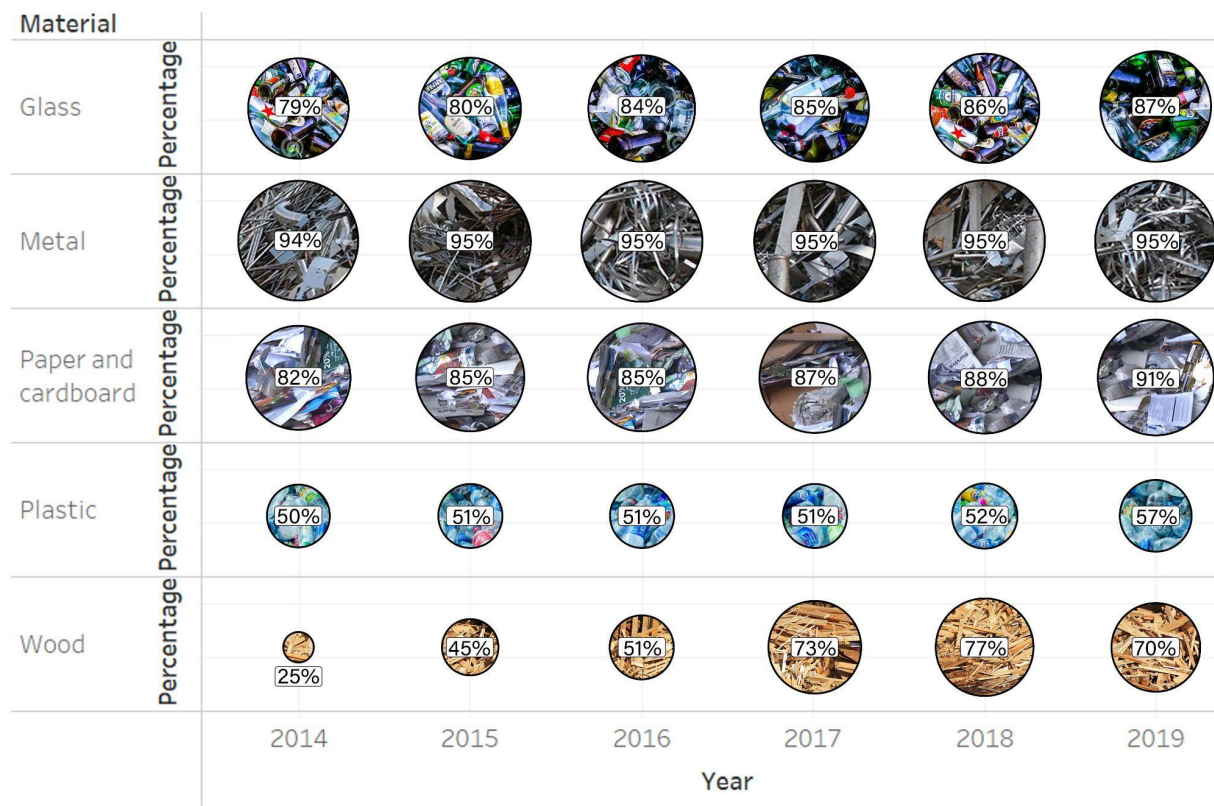
Waste processing in the Netherlands from 1990 to 2016



This visualisation is made in Tableau. It is interactive in a way that you can click on a year in the top visualization and the bottom visualization changes to only show the relative sizes of the processes in that year. Here no year is selected so it shows the average over the years.

Used sources: <https://longreads.cbs.nl/nederland-in-cijfers-2020/hoeveel-recyclen-we/>
<https://opendata.cbs.nl/statline/#/CBS/nl/dataset/83128NED/table?ts=1622744922213>

Percentage of Dutch waste recycled in 2014-2019 by waste type



This visualization is made with the use of Tableau and Photoshop.

Used sources:

https://afvalfondsverpakkingen.nl/a/i/Afvalfonds-Publieksrapport_2014_definitief.PDF

https://afvalfondsverpakkingen.nl/a/i/AFV_publicrapport_2015_web_definitief.pdf

<https://afvalfondsverpakkingen.nl/a/i/Verpakkingen-in-de-circulaire-economie.pdf>

<https://afvalfondsverpakkingen.nl/a/i/Recycling-verpakkingen-Nederland-2017.pdf>

<https://afvalfondsverpakkingen.nl/a/i/Verpakkingen-in-de-circulaire-economie-recycling-verpakkingen-Nederland-2018.pdf>

<https://afvalfondsverpakkingen.nl/a/i/Verpakkingen-in-de-circulaire-economie-recycling-verpakkingen-Nederland-2019-web.pdf>

Image sources:

Glass:

<https://www.dreamstime.com/imperia-im-liguria-italy-august-glass-waste-piled-up-junkyard-dedicated-to-recycling-glass-bottles-ready-to-be-recycled-image111732300>

Metal:

<https://www.recyclingtoday.com/article/scrap-metal-services-contracts-with-aperam-belgium/>

Paper:

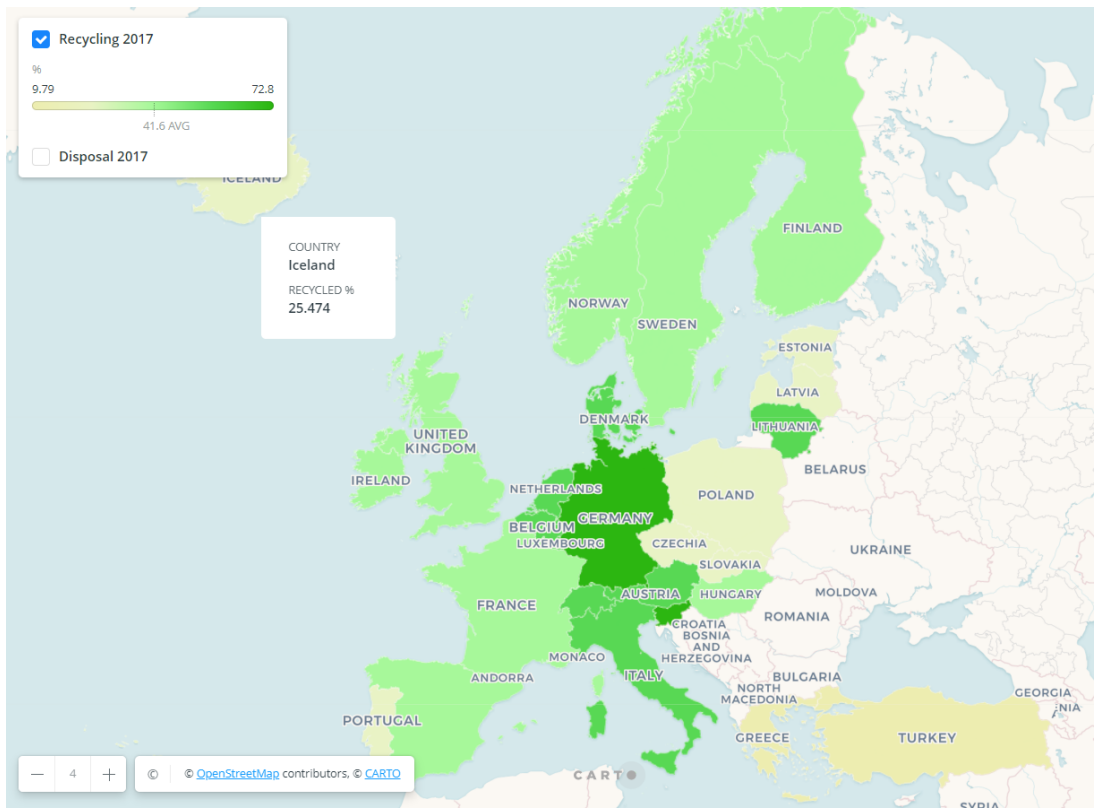
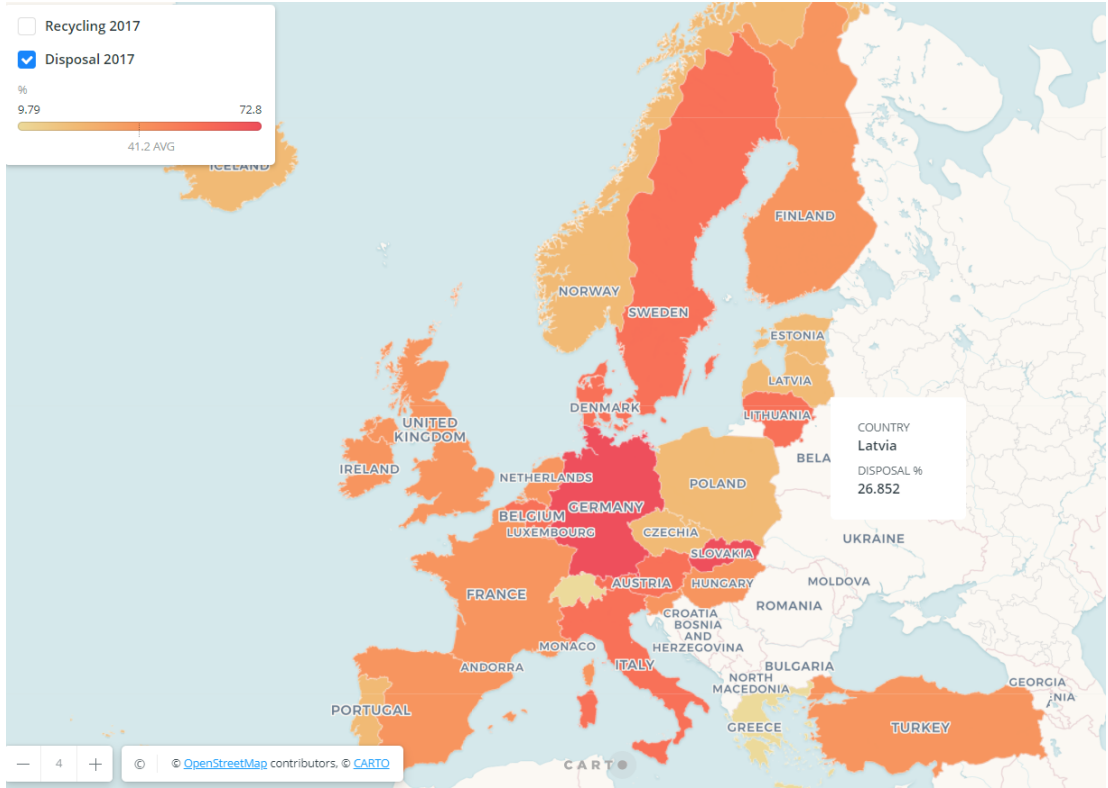
<https://abc7news.com/chinese-recycling-ban-china-recology-berkeley-ecology-center/4832542/>

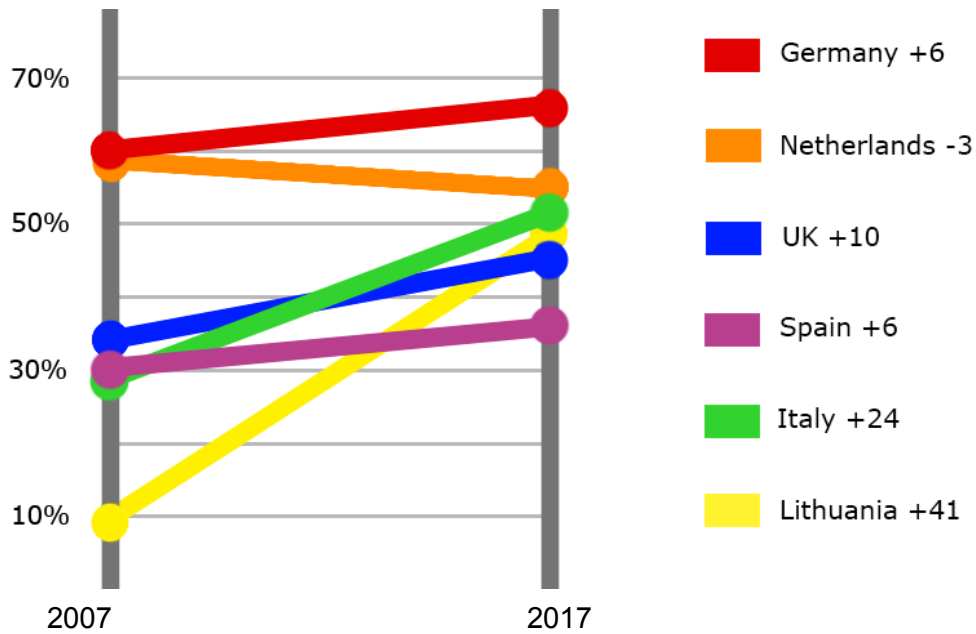
Plastic:

<https://www.afrik21.africa/en/mali-invitation-for-projects-on-plastic-bottle-recycling-launched/>

Wood:

https://www.google.com/url?sa=i&url=https%3A%2F%2Fcatonrecycling.co.uk%2Fthe-benefits-of-recycling-wood-waste%2F&psig=AOvVaw0CgQTHQXyjbWSVNKE-8ach&ust=1623137345243000&source=images&cd=vfe&ved=0CAIQjRxqFwoTClw8fv_hPECFQAAAAAdAAAAABAD





Description:

First two maps of Europe are made in Carto and are interactive. You can toggle between the maps and hover over the countries to check the percentages. The percentages are calculated by disposal or recycling divided by the total amount of waste. Disposal includes landfill and incineration. Recycling includes recycling of materials and composting. The slope chart shows the rate of change of recycling over 10 years of the biggest countries and Lithuania, since this country had the biggest increment.

Program: Carto, Adobe Illustrate

Sources:

<https://stats.oecd.org/Index.aspx?DataSetCode=MUNW>

<https://www.oecd.org/environment/environment-at-a-glance/Circular-Economy-Waste-Materials-Archive-March-2020.pdf>

