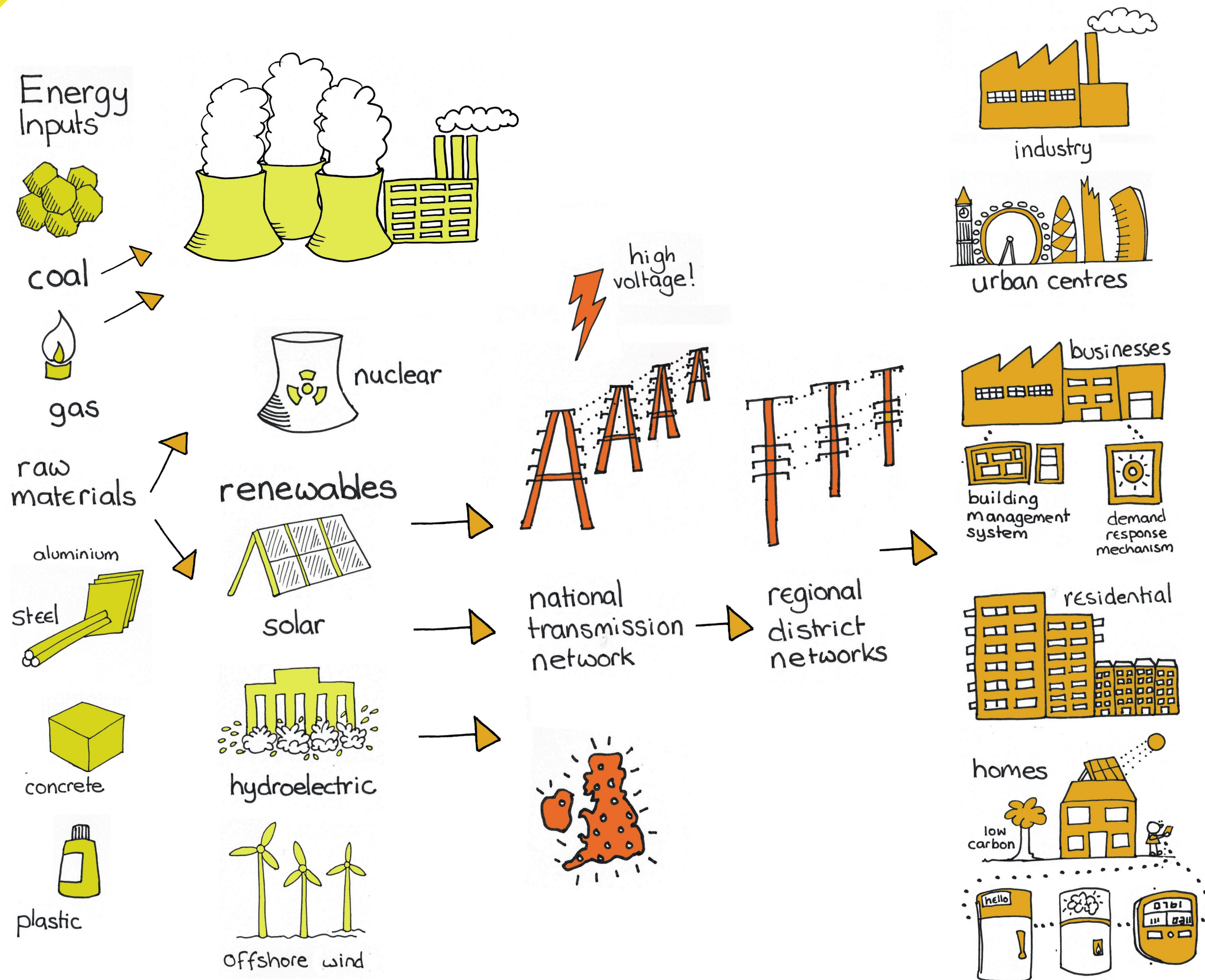




ENERGY SYSTEM TODAY



WHO REGULATES AND INFLUENCES?

- Treasury, DECC, CCC, Ofgem, EU - Over 30 bodies are responsible for energy policy.
- The networks are regulated monopolies
- Big Six Energy Companies, DNOs, planning authorities, investors, and lobby groups are all influential

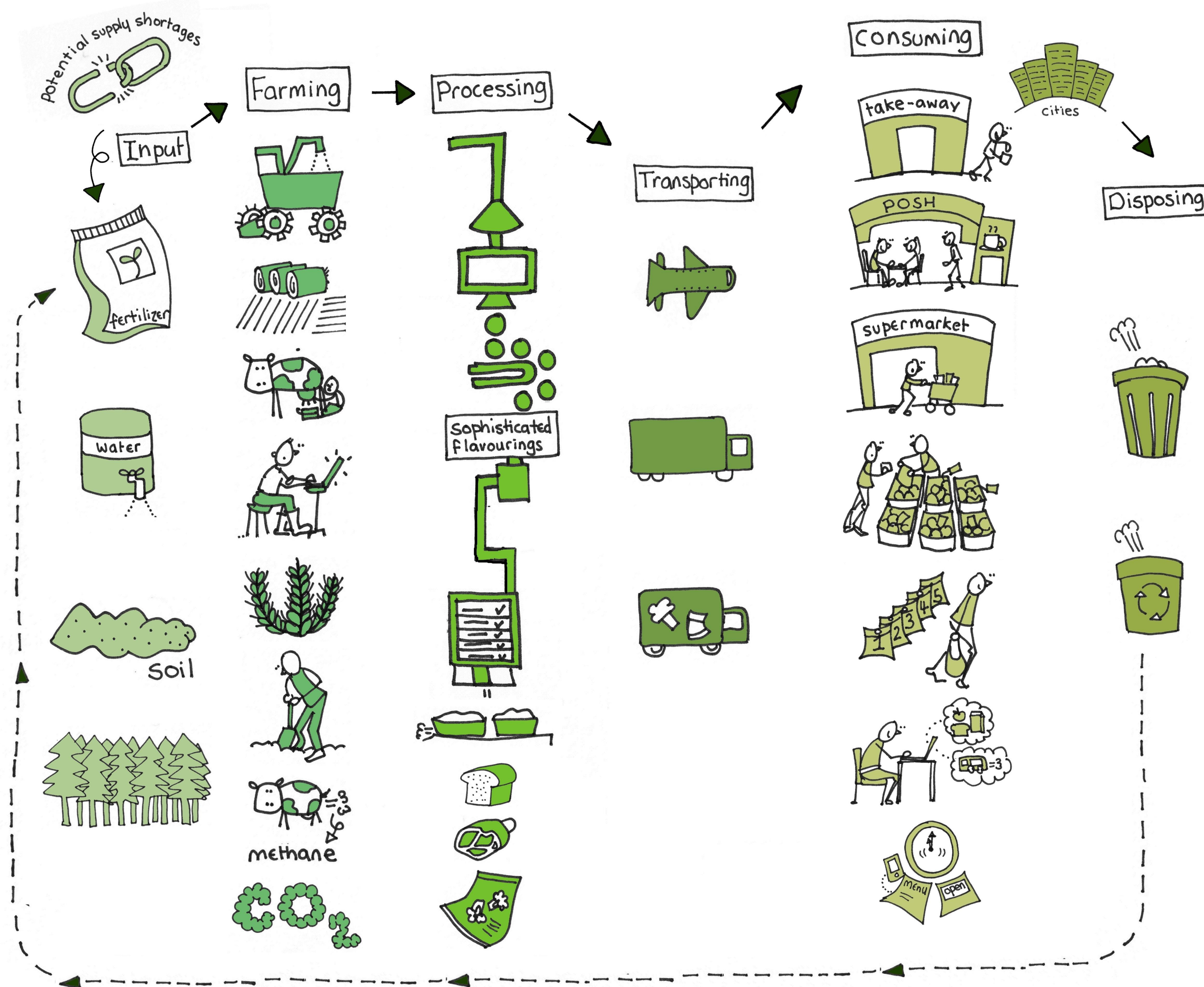
££ WHO IS MAKING MONEY AND HOW?

Most of us buy our energy from one of six large suppliers who dominate the market. However there is a growing number of city-specific and community energy projects. Construction and service companies build and manage energy infrastructure like power plants.

Future Challenges: How to keep our supply secure, keep energy prices low, push low carbon; our houses are inefficient ; variable local support for technologies like fracking, nuclear, onshore wind.



FOOD SYSTEM TODAY



WHO REGULATES AND INFLUENCES?

- Regulation pushes industrial agriculture, and growing more food
- Big retailers
- Food standards agency, media, immediate social network
- Brands, Big traders
- 'food celebrities' (e.g. Jamie Oliver)
- EU – Common Agricultural Policy

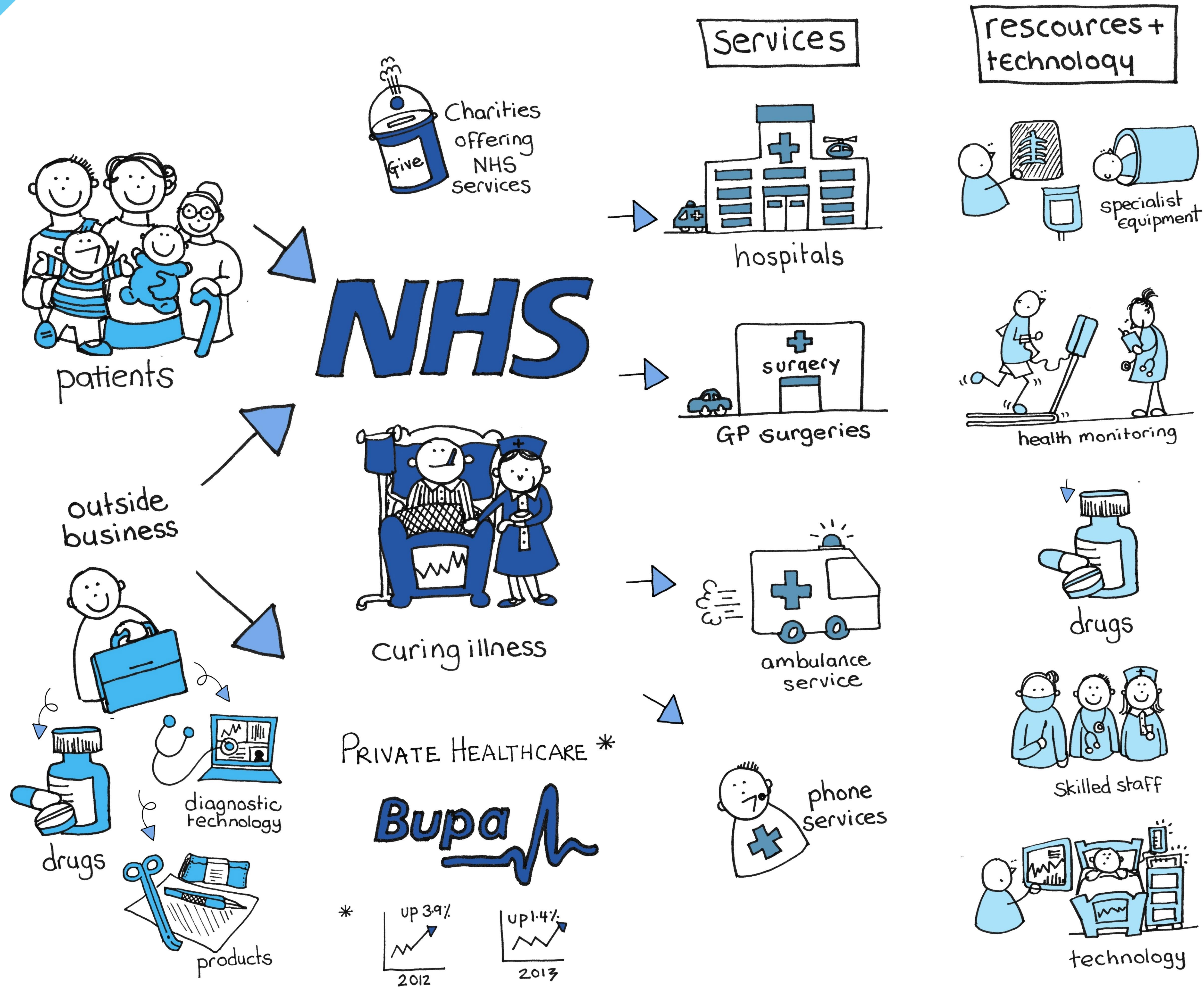
££ WHO IS MAKING MONEY AND HOW?

We buy most of our food for the home from the big supermarkets and branded manufacturers like Heinz, and spend additional money on eating out. Food processors make money in processing food, both for shops and restaurants. Additional companies supply food at large scale to businesses.

Future Challenges: Using too much water, polluting soil and water, using fossil fuels, carbon dioxide and methane gas emissions, overuse of antibiotics in animal feed. Our system is vulnerable to supply shortages e.g. in droughts.



HEALTHCARE SYSTEM TODAY



WHO REGULATES AND INFLUENCES?

- Care Quality Commission regulates the NHS
- Each UK country's system is accountable to each country's government

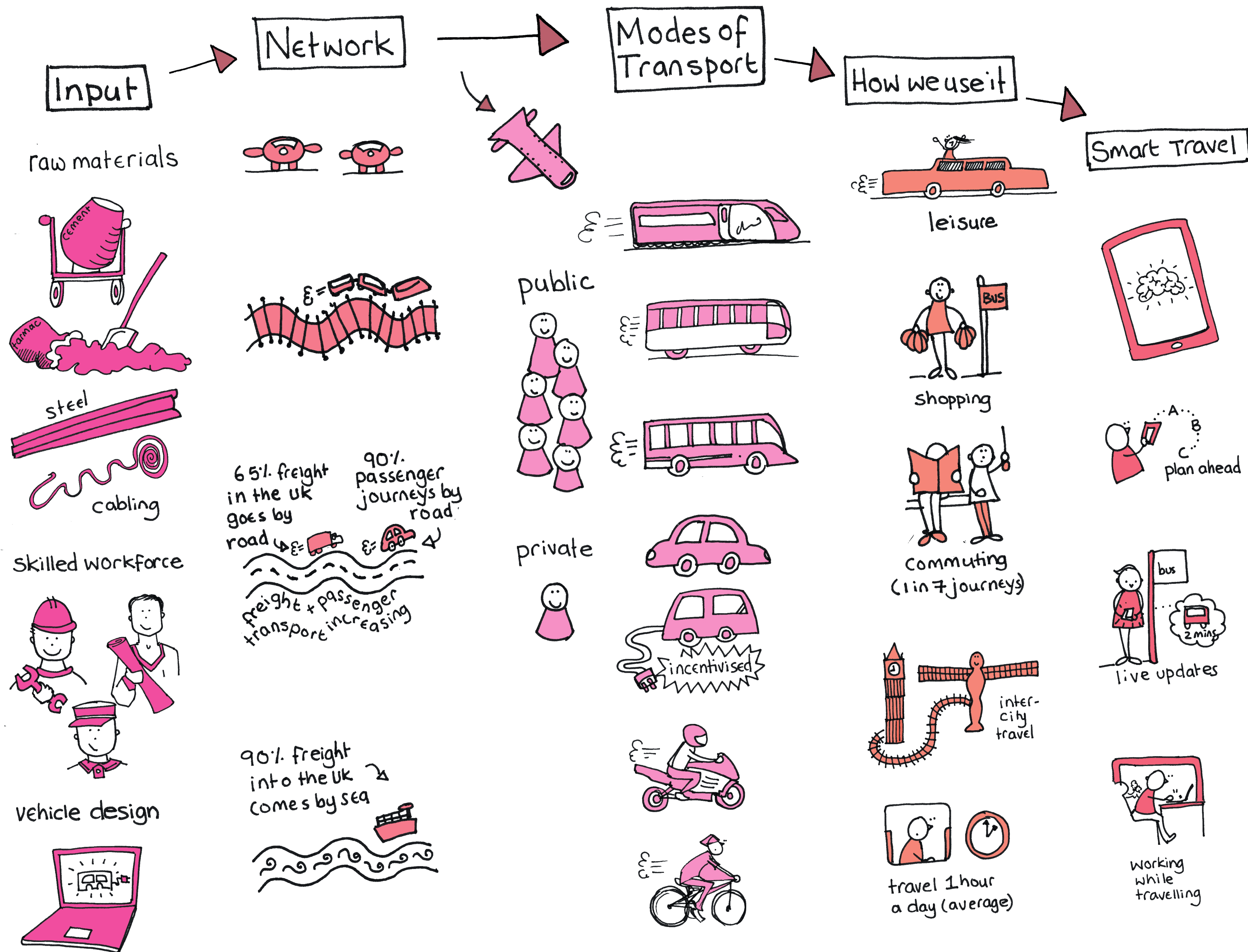
££ WHO IS MAKING MONEY AND HOW?

The NHS provides healthcare services for free, funded mostly by central taxes. Charging is sometimes allowed by parliament, such as prescriptions or going to the dentist. Some people choose to use private healthcare providers who charge a fee for a better service (e.g. private hospital rooms, shorter appointment waiting time). Sometimes these providers use NHS staff and expertise.

Future Challenges: Care costs more and more, ageing population – government funding may be cut – there are more chronic diseases – resistance to antibiotics



TRANSPORT SYSTEM TODAY



WHO REGULATES AND INFLUENCES?

- Strategic Road Network: regulated by Office of Rail and Road
- Network: owned and maintained by Network Rail
- Urban roads: maintained by local authorities
- Motorways / trunk roads: maintained by Highways England.
- Environmental emissions: set by EU

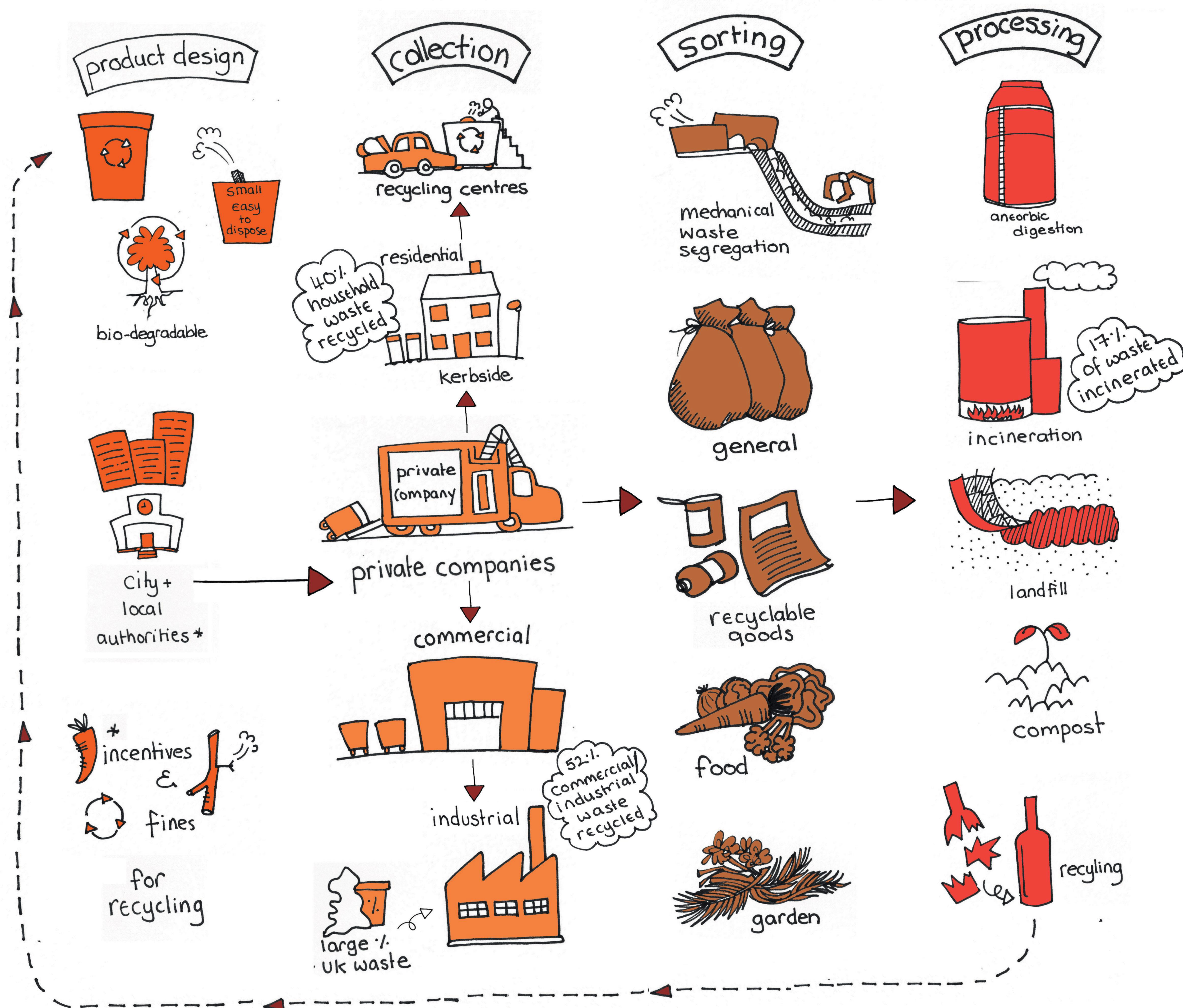
££ WHO IS MAKING MONEY AND HOW?

Private operators run the train and bus services, although these are paid for in part by us as taxpayers. Five operators deliver the majority of our rail and bus routes. Congestion charging raises money for transport infrastructure in London. Car companies. Construction and service providers.

Future Challenges: Rail network struggling to meet expectations. Growing population, road congestion, greenhouse gas emissions and pollution. How to integrate different modes of transport.



WASTE SYSTEM TODAY



WHO REGULATES AND INFLUENCES?

- Waste management laws stop dispersal of waste into environment
- EU directives translated into UK statutory instruments
- Waste policy decided by DEFRA
- Environment Agency, Scottish Environment Protection Agency, NI Environment Protection Agency

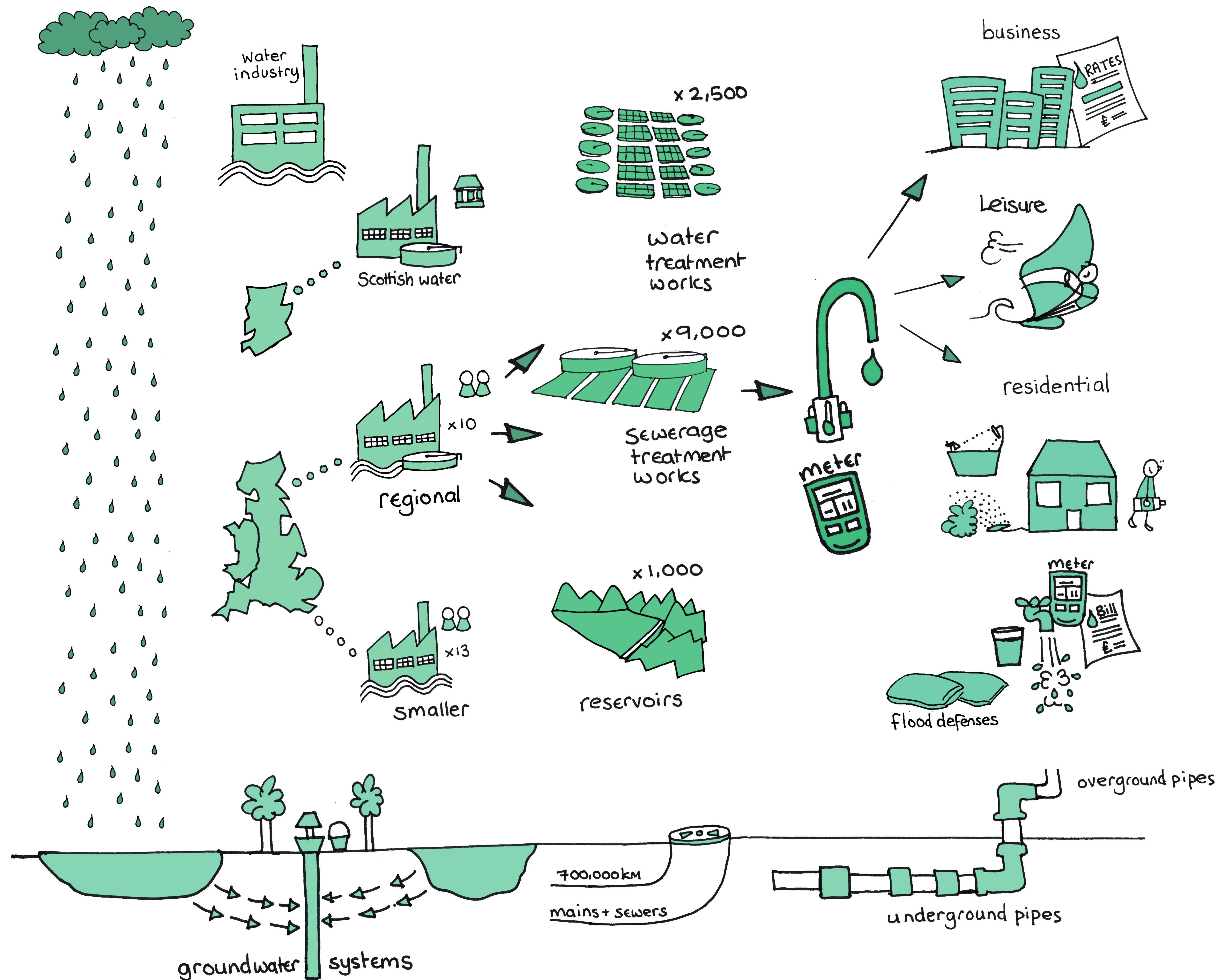
££ WHO IS MAKING MONEY AND HOW?

We pay tax to local councils who contract companies, recycling plants, etc. Businesses pay private companies who specialise in specific waste collection and reprocessing e.g food waste and costs are eventually paid by consumers

Future Challenges: More consumption means more waste; carbon emissions; need to improve 'closed loop' products and services



WATER SYSTEM TODAY



WHO REGULATES AND INFLUENCES?

- Environment Agency implements EU framework directive
- Defra policy for regulation
- Ofwat implements regulation and monitors quality
- Drinking Water Inspectorate
- Consumer councils play a role

££ WHO IS MAKING MONEY AND HOW?

We pay yearly water rate to the private water and wastewater companies who cover the domestic supply and costs. Businesses pay rates according to usage levels. Investors in water companies can make money

Future Challenges: Global water scarcity, which also affects food imports, food uses a lot of water and UK imports 40% of its food; Flooding; pollution from agriculture and industry; people using too much water; the pipes and sewers needing upgrades; price rises