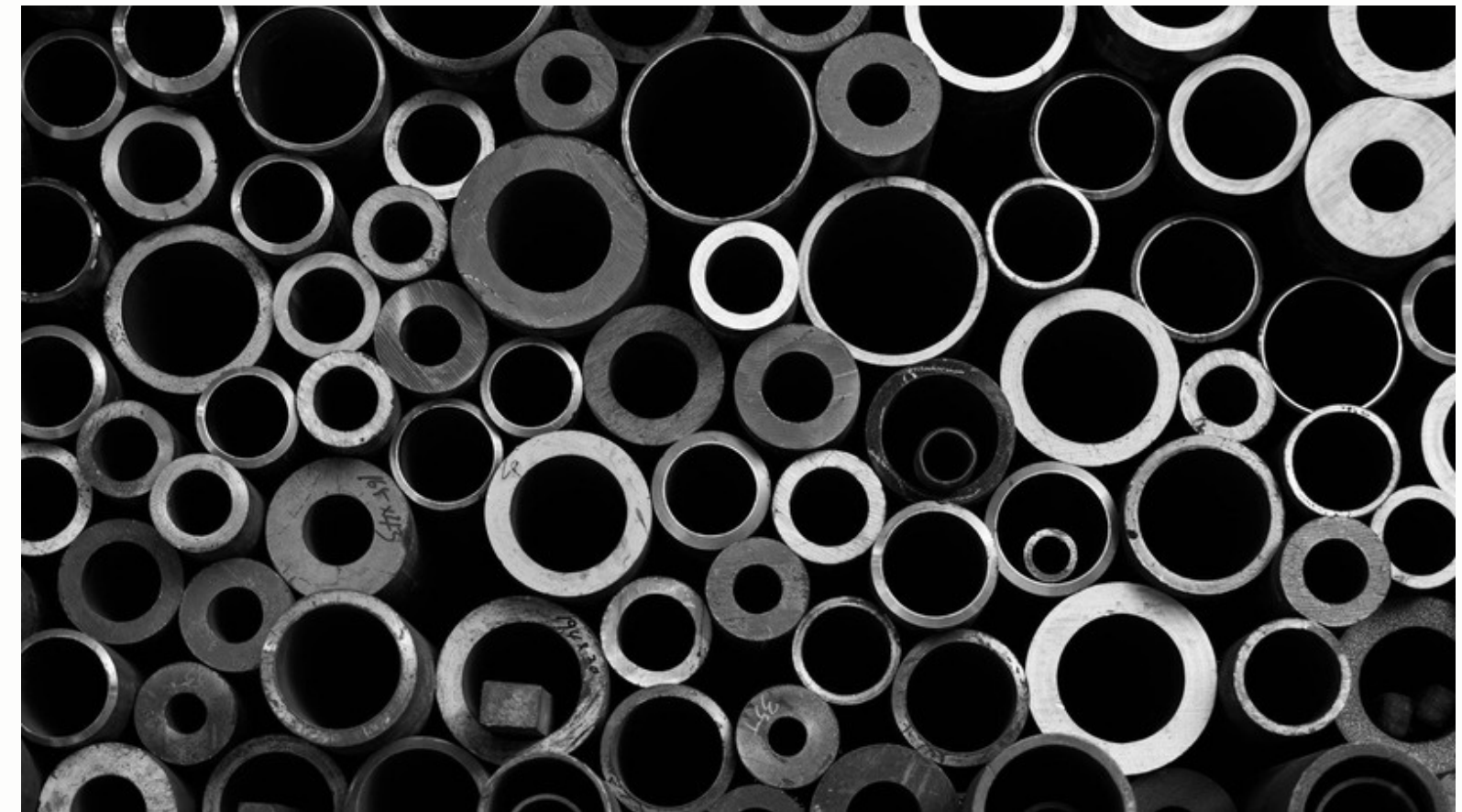
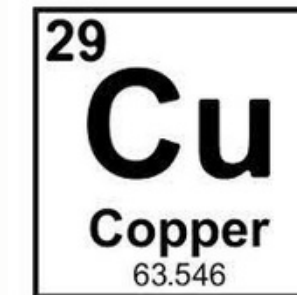
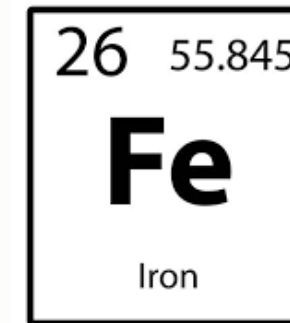
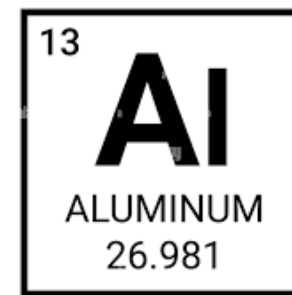


Collection and recycling of metal "RMWGR"



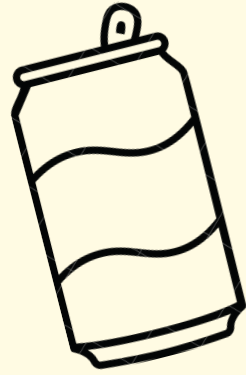
What is the metal and how it works?

• Metals are materials or chemical elements that are characterized by their capacity to conduct or transmit heat and electricity. Most elements on the periodic table are metals. Metal is a widely recyclable material, with many types being repurposed for further use. As global concern for the environment grows, so does the demand for increased recycling, especially of materials that would otherwise end up in landfill..





Where does the metal in the garbage come from?



- The main metal packaging found in the garbage bags of homes and businesses are: cans, alluminum foil,spray bottles,food tins, etc.

WHAT TYPES OF METAL END UP IN THE GARBAGE?

- Almost all metals can be recycled into new high-quality metals, as their properties are not diminished during the recycling process.
- Environmentally, metal recycling has many perks, as fewer raw materials need to be extracted which reduces carbon emissions, and financial reward as many companies will buy and recycle your unwanted metal.
- Metals suitable for recycling are generally sorted into ferrous (contain iron) and non-ferrous metals, and most are readily available in your home or your everyday life.
- The 5 common metals are:
Steel, Aluminum, Copper, Brass and Zinc.



IRON



STEEL



GOLD



BRONZE



SILVER



TITANIUM



PLATINUM



ALUMINIUM



LEAD

Does it matter if it is mixed?

• When waste is separated, cases of contamination of one material with another are less likely to occur, also ensuring that recyclable materials are processed as they should be. This way we maintain the integrity of the materials and reduce downcycling.

Downcycling is the process where recycled materials can not be used for products of the same quality, this reduces the amount of time the materials are able to stay in use. Meaning they meet the landfill sooner.



How is the metal collected?



ROMANIA

Our ideas about recycling helped the administration of the city to take some decisions, and they put in our city some selective bins for the waste recycling. This attitude was taken after we initiated the Erasmus+ project.



GERMANY

Germany has been celebrated as a world leader in recycling, but as far as we know they have the most metal reused. Its waste management system and sorting policies have paved the way for other countries to implement greener practices when it comes to trash disposal and collection.



SPAIN

As any responsible society should, Spain has a well-developed system of recycling. You can find recycle bins, receptacles, and containers all over the country. If you are new to Spain the recycle system may be a bit different for you. There are usually a variety of recycle bins scattered around every city, town and even small village.

How is the metal collected?



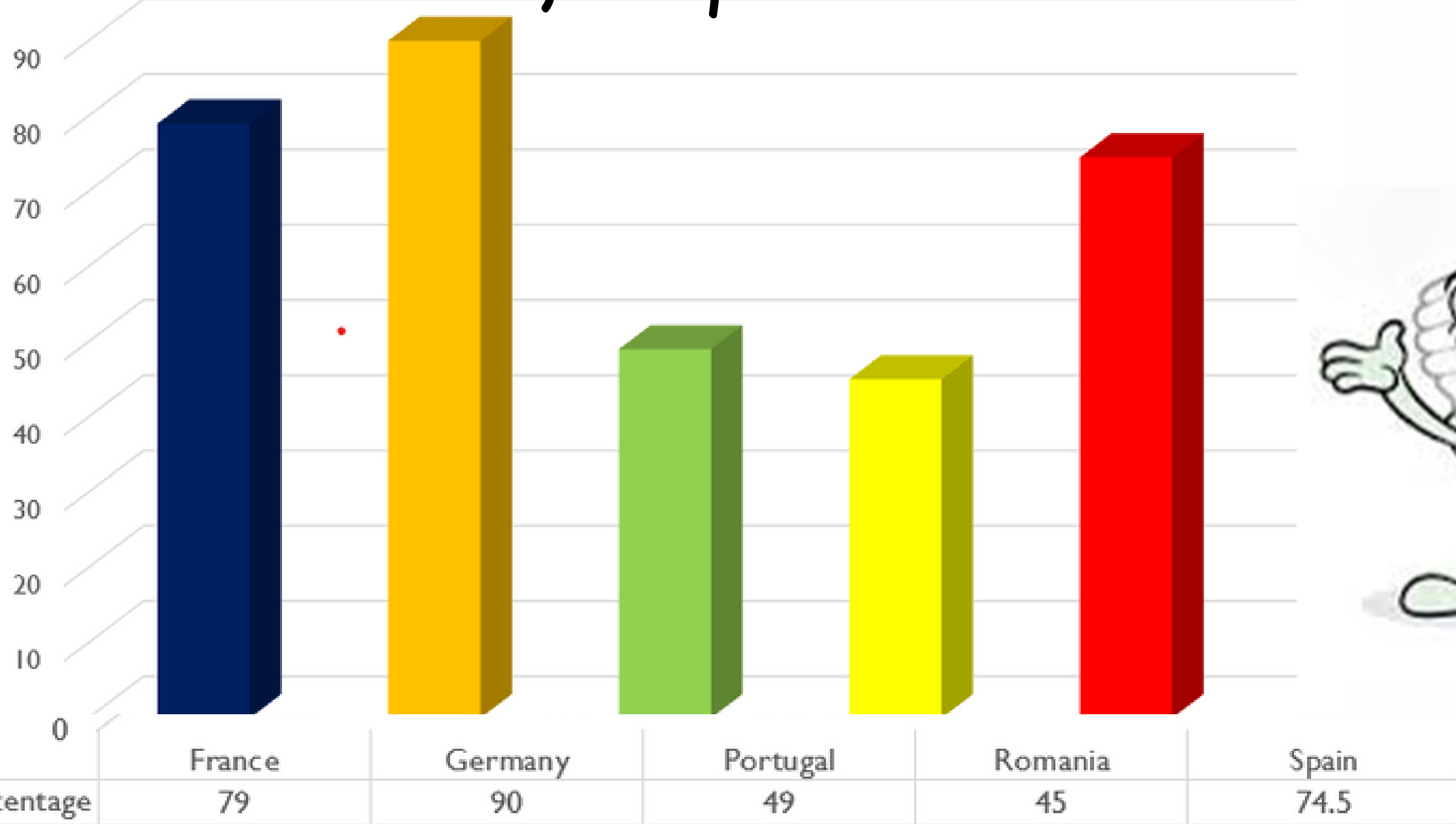
In France, recycling channels are gradually being set up, driven by an ever-increasing world-wide demand. FML offers industrial companies a range of ferrous and non-ferrous metal recycling and reclamation services, as well as services in the field of industrial waste management

WASTE SORTING
METAL



Household waste is recycled in Portugal from color-coded bins in many municipalities. Waste also increases in the tourism season in the summer. Visitors to Portugal have a part to play in keeping the country clean. Ecoporto (the special bins) can also be found on many beaches, for example.

What is the recycling rate of metal in our five partner countries?



What is happening during the recycling process of metal?

Your scrap metals go through the following steps as they are recycled:

- Step 1: Collection. ...
- Step 2: Separation. ...
- Step 3: Shredding. ...
- Step 4: Melting. ...
- Step 5: Purification. ...
- Step 6: Shaping. ...
- Step 7: Delivery.



What percentage of energy is saved by recycling metal compared to new production?

The International Cooper Association estimates that metal recycling conserves 95% more energy than making new metal from ore deposits. And it takes only about 15-20% of the original energy required to recycle steel, aluminum, copper, and other metals!

This is why metal scrap recycling is so important: it makes a difference in how much energy we conserve and contributes to the circular economy.



Problems and opportunities for improvement in the recycling of metal

There are many advantages to recycling metal, including environmental benefits as well as energy savings.

Divert Waste from Landfill: Metal does not biodegrade quickly, if at all, so it is important to ensure metal does not end up in landfill.

Protect Natural Resources: Virgin metal requires natural ore to be mined and processed, using up limited natural resources. However, when using recycled metal, no additional materials need to be mined, helping to preserve natural resources.

Benefit Economy: Money isn't everything, but the recycling industry greatly benefits the economy through job creation and local investment. While benefitting the environment, recycling also benefits the economy.



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Thank You for Listening!

Don't Hesitate To Ask Any Questions

