

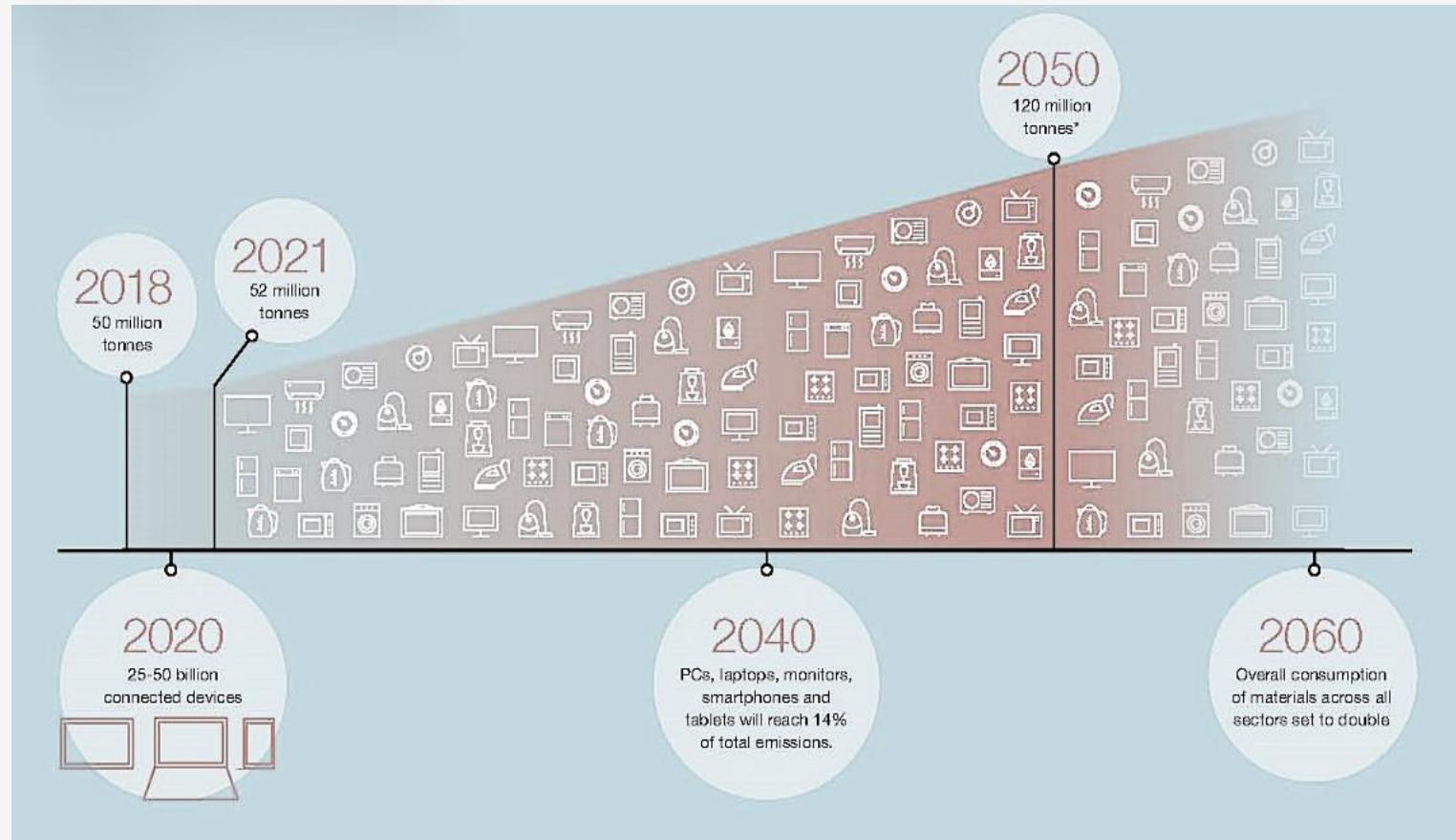


1,200sqm
Solar powered plant





E-Waste Reality: Fastest Growing Waste Stream Worldwide



3%
of total waste
going in
Landfills

70%
of toxic elements in
those landfills



TOXIC MATERIALS FOUND IN E-WASTE

<p>Arsenic 33 As 74.922</p>	<p>Microwaves, Electronic Circuit Boards, Switches, Relays</p>	<p>Disruption of cell growth, cardiovascular diseases, cancer, diabetes</p>
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<p>Nickel 28 Ni 58.693</p>	<p>Rechargeable Batteries</p>	<p>Sinuses, Cancerogenic in large doses</p>
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<p>Cadmium 48 Cd 112.41</p>	<p>Batteries, Cellular Phones</p>	<p>Loss of calcium in bones, lung damage and respiratory problems</p>
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<p>Silver 47 Ag 107.87</p>	<p>Cellular Phones</p>	<p>Risk of Argylia</p>
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<p>Chromium 24 Cr 51.996</p>	<p>Plastic Hardeners, Pigment Dye, Metal Coating</p>	<p>Skin Irritation and rashes, potentially cancerogenic</p>
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<p>Beryllium 4 Be 9.0122</p>	<p>Motherboards, Connectors</p>	<p>Cancerogenic, permanent lung scarring</p>
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<p>Copper 29 Cu 63.546</p>	<p>Copper Wires, Printed Circuit Board Tracks</p>	<p>Throat and lung irritation, liver and kidney damage</p>
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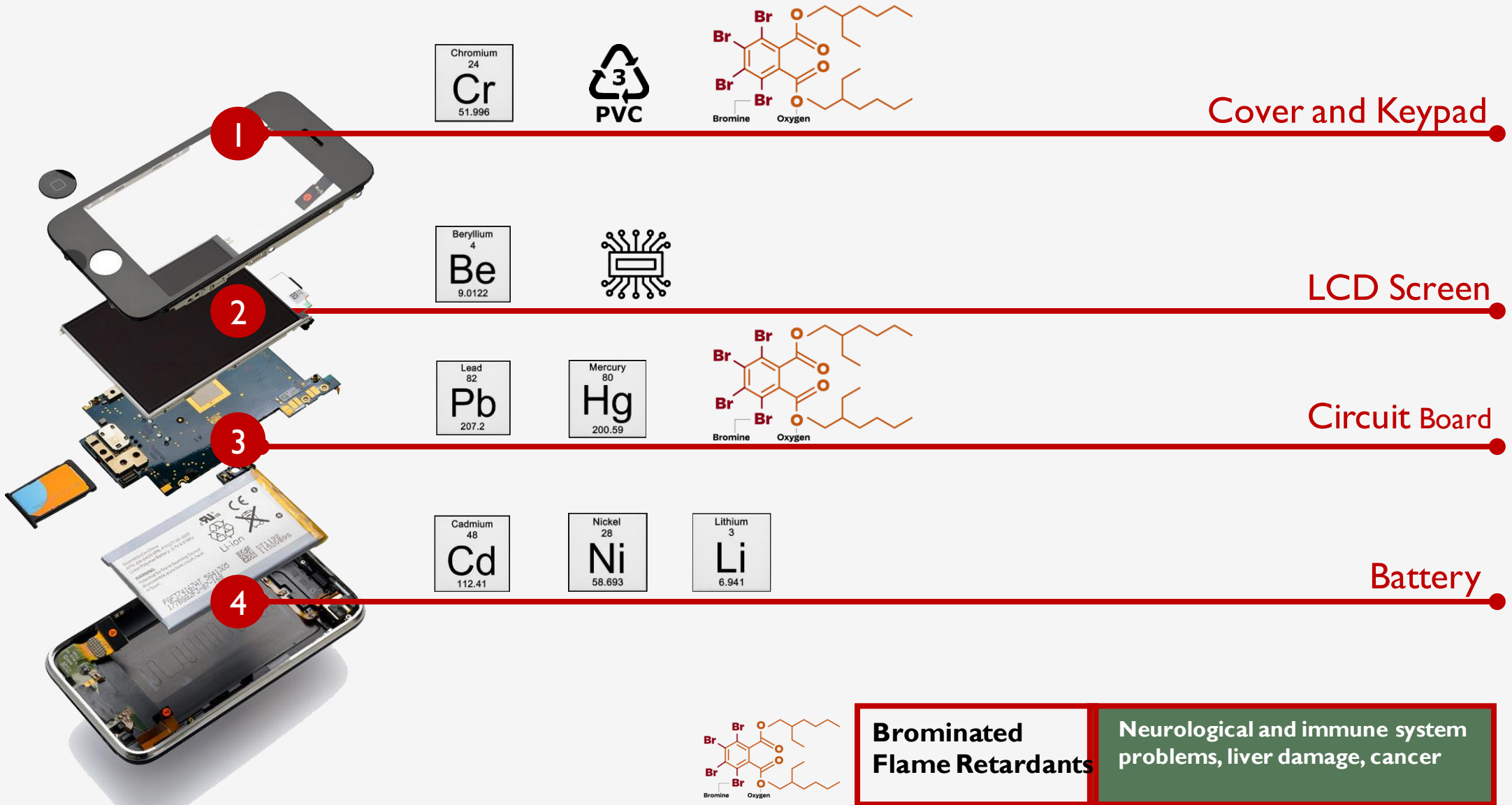
<p>Mercury 80 Hg 200.59</p>	<p>Batteries, Flat Screens, Switches</p>	<p>Short Term: Lung damage, diarrhea, vomiting. Long Term: brain and kidney damage, skin discoloration</p>
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<p>Lead 82 Pb 207.2</p>	<p>Computer and TV Monitors, Batteries</p>	<p>Impairment of cognitive and verbal activity, paralysis, immune and vascular system, coma and death</p>
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	<p>Screens, Keyboards, Mouse, Laptops, Flash Memories...</p>	<p>Harms immune system and causes cancer</p>
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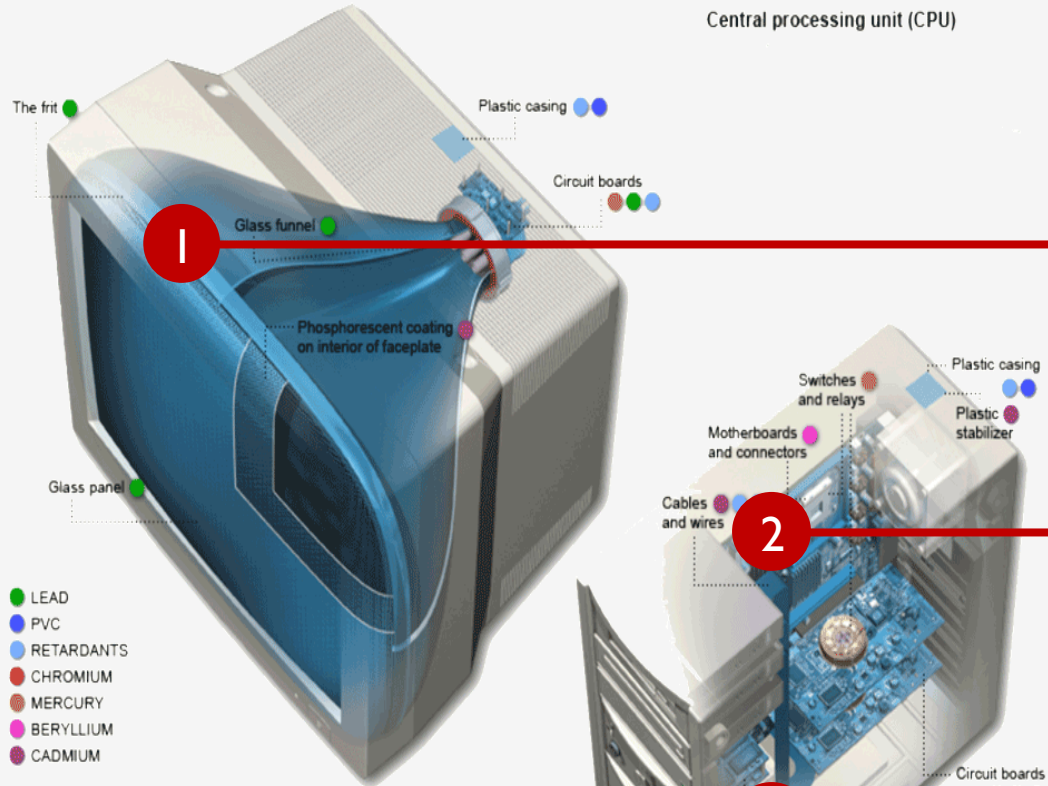


A Closer Look: Mobile Phone Hazardous Components

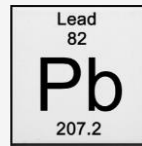




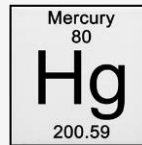
A Closer Look: Computer Hazardous Components



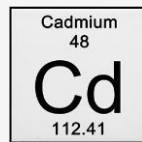
Cathode-ray tube (CRT) monitor



Cathode Ray Tube, Glass of Monitor, Circuit Board of CPU



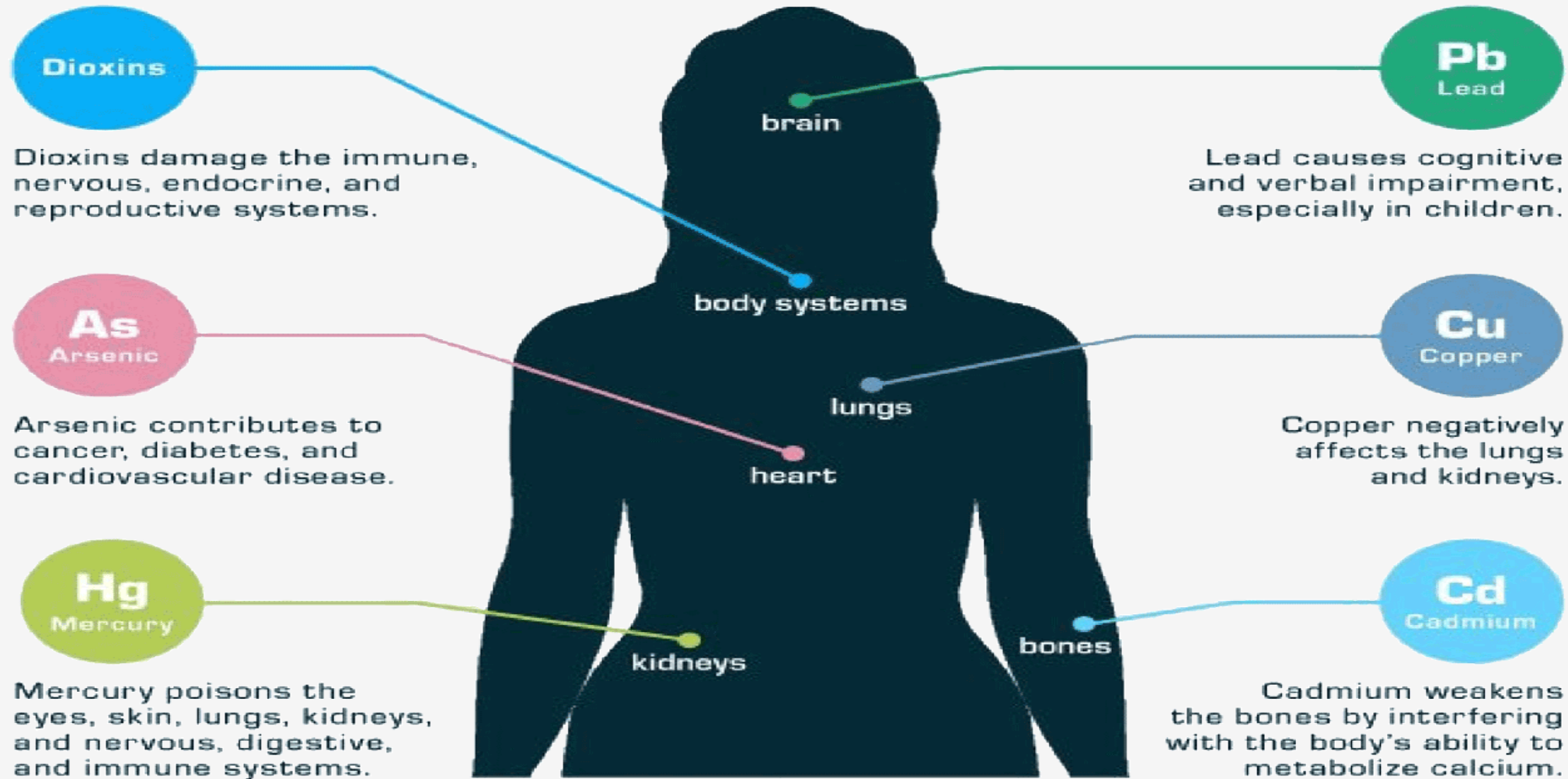
Circuit Boards and Internal Switches



Monitor Glass Coating, Batteries, Chip Resistors and Cables



A Closer Look: Examples of impact on human health



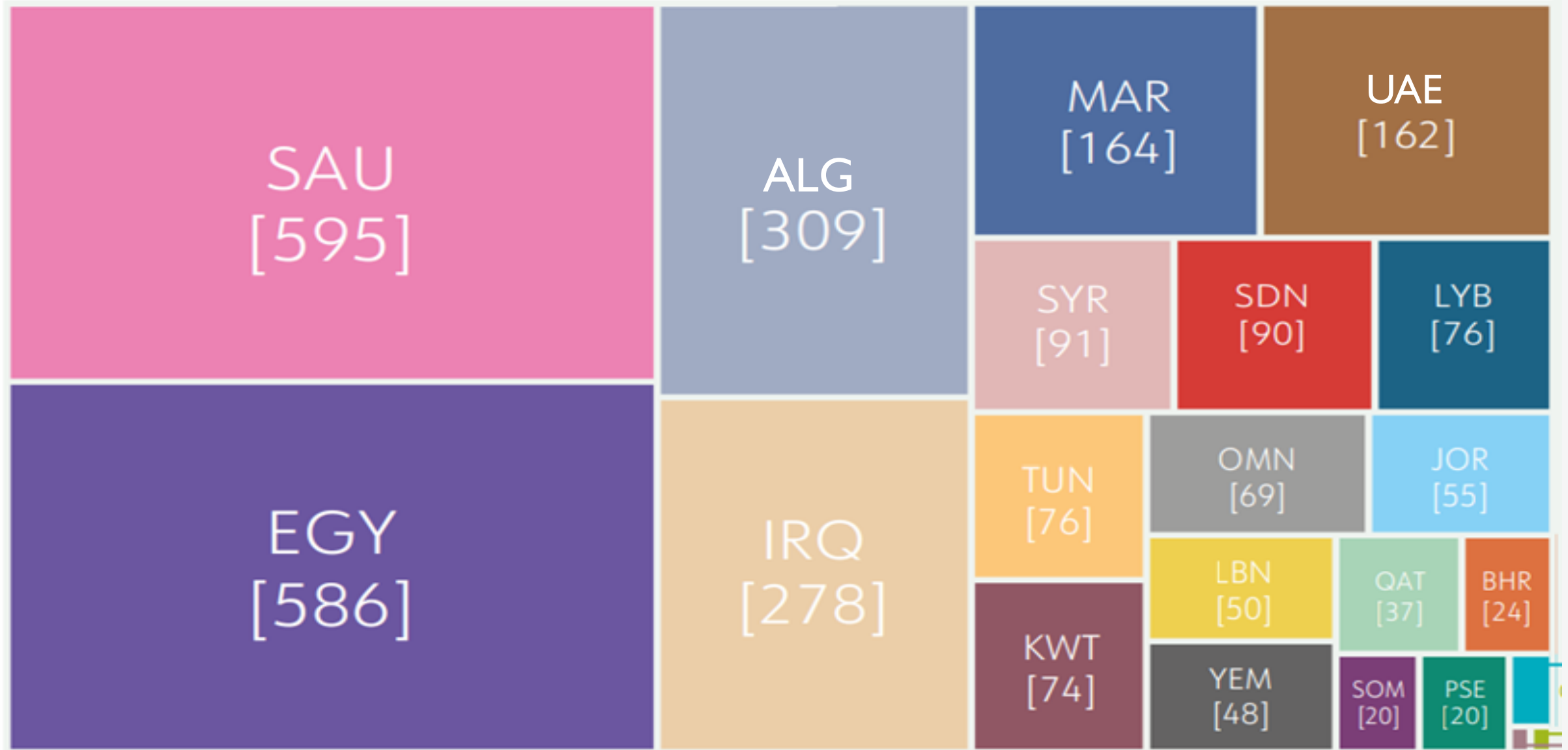


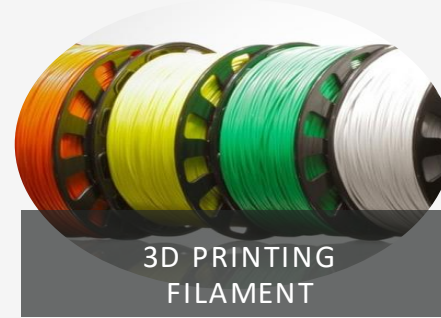
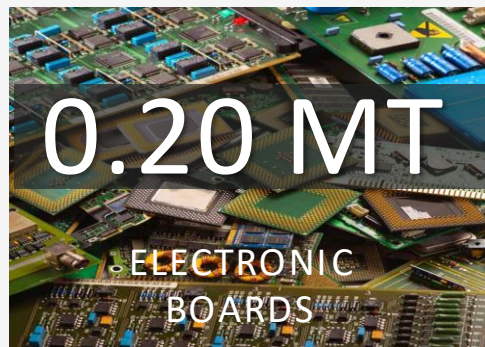
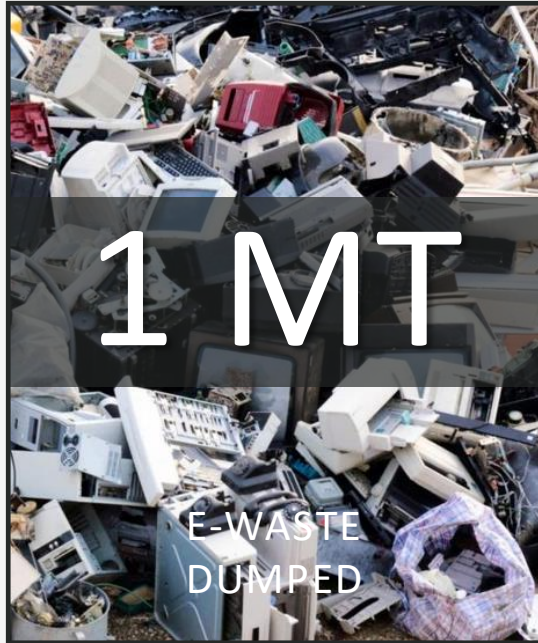
E-Waste Reality

Major volume goes to Landfills, open dumpsites and haphazard handling by scrappers

2021	Worldwide	MENA	Lebanon
E-waste generated	55M MT	3.72M MT	46K MT
Estimated at	\$ 70 B	\$ 4.7 B	\$ 59 M
Proper disposal/recycling	20%	5%	1.5%
Growth per annum	4 to 5%	6%	1.8%

E-Waste generated in the region in 2019





3D PRINTING FILAMENT

1.69 Bn\$
in MENA

16.7%
ANNUAL
GROWTH



COPPER



SILVER



GOLD



PALLADIUM

Cables, Power supplies, Batteries..

Join us in Creating a Green Sustainable Future!



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