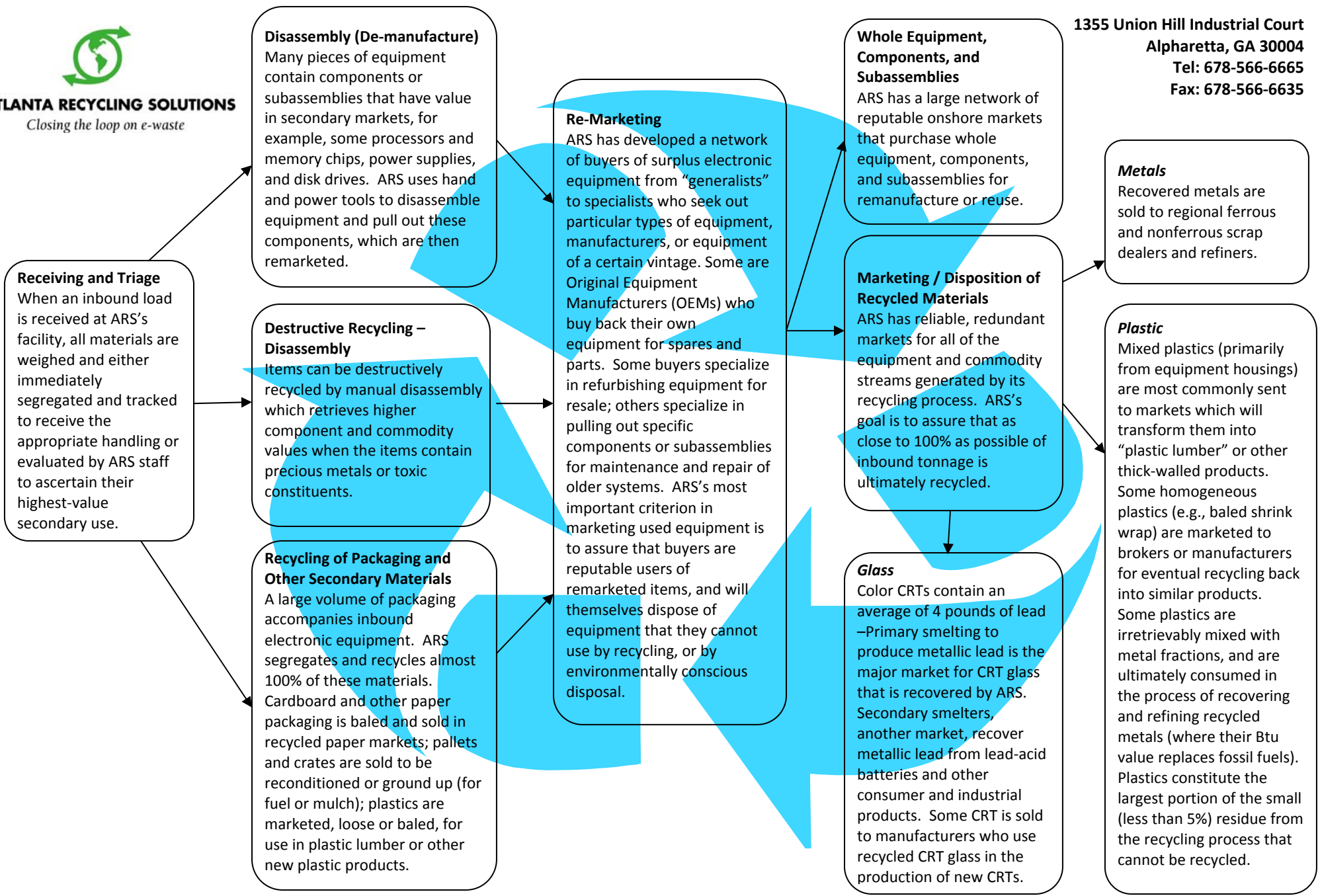


E-Scrap Recycling Process

ARS's primary goal is to assure that all equipment received is handled in full compliance with any generator-specified requirements regarding asset tag removal, data or hardware destruction, limitation on reuse, or other restrictions. Once these requirements have been met, ARS seeks to direct all equipment to its highest value secondary use, in order to minimize net recycling costs and maximize potential revenue returns to the generator **ARS does not utilize any offshore markets for used pieces of equipment, to avoid and ultimately help discourage the uncontrolled and environmentally damaging "recycling" practices that are common in many Second and Third World countries.**



Receiving and Triage
When an inbound load is received at ARS's facility, all materials are weighed and either immediately segregated and tracked to receive the appropriate handling or evaluated by ARS staff to ascertain their highest-value secondary use.

Disassembly (De-manufacture)
Many pieces of equipment contain components or subassemblies that have value in secondary markets, for example, some processors and memory chips, power supplies, and disk drives. ARS uses hand and power tools to disassemble equipment and pull out these components, which are then remarketed.

Destructive Recycling – Disassembly
Items can be destructively recycled by manual disassembly which retrieves higher component and commodity values when the items contain precious metals or toxic constituents.

Recycling of Packaging and Other Secondary Materials
A large volume of packaging accompanies inbound electronic equipment. ARS segregates and recycles almost 100% of these materials. Cardboard and other paper packaging is baled and sold in recycled paper markets; pallets and crates are sold to be reconditioned or ground up (for fuel or mulch); plastics are marketed, loose or baled, for use in plastic lumber or other new plastic products.

Re-Marketing
ARS has developed a network of buyers of surplus electronic equipment from "generalists" to specialists who seek out particular types of equipment, manufacturers, or equipment of a certain vintage. Some are Original Equipment Manufacturers (OEMs) who buy back their own equipment for spares and parts. Some buyers specialize in refurbishing equipment for resale; others specialize in pulling out specific components or subassemblies for maintenance and repair of older systems. ARS's most important criterion in marketing used equipment is to assure that buyers are reputable users of remarketed items, and will themselves dispose of equipment that they cannot use by recycling, or by environmentally conscious disposal.

Whole Equipment, Components, and Subassemblies
ARS has a large network of reputable onshore markets that purchase whole equipment, components, and subassemblies for remanufacture or reuse.

Marketing / Disposition of Recycled Materials
ARS has reliable, redundant markets for all of the equipment and commodity streams generated by its recycling process. ARS's goal is to assure that as close to 100% as possible of inbound tonnage is ultimately recycled.

Glass
Color CRTs contain an average of 4 pounds of lead –Primary smelting to produce metallic lead is the major market for CRT glass that is recovered by ARS. Secondary smelters, another market, recover metallic lead from lead-acid batteries and other consumer and industrial products. Some CRT is sold to manufacturers who use recycled CRT glass in the production of new CRTs.

Metals
Recovered metals are sold to regional ferrous and nonferrous scrap dealers and refiners.

Plastic
Mixed plastics (primarily from equipment housings) are most commonly sent to markets which will transform them into "plastic lumber" or other thick-walled products. Some homogeneous plastics (e.g., baled shrink wrap) are marketed to brokers or manufacturers for eventual recycling back into similar products. Some plastics are irretrievably mixed with metal fractions, and are ultimately consumed in the process of recovering and refining recycled metals (where their Btu value replaces fossil fuels). Plastics constitute the largest portion of the small (less than 5%) residue from the recycling process that cannot be recycled.

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