

Supplementary Explanation in Relation to Japan 4EEIA Input on PFAS Dossier

Electric and Electronic Equipment (hereinafter, EEE) covers so many various product categories, but the technologies and materials and parts used in EEE are basically common. Furthermore, EEE is covered under WEEE Directive 2012/19/EU at its end of life stage.

Therefore, **we believe that EEE should be treated as one category under REACH Annex XVII in most cases***.

*Some categories under RoHS such as medical or measurement equipment may need additional applications in addition to those for the other EEE.

However, in order to have the dossier submitter and ECHA understand EEE using PFAS more concretely, we would like to use the categories under RoHS Directive 2011/65/EU to show illustrative examples of PFAS use. **Please see this material with our Annex 3 and Annex 4.**

Please note that each category also covers wide variety of products and no one can make an exhaustive list. However, we consider these can help to show the necessary PFAS applications in EEE better.

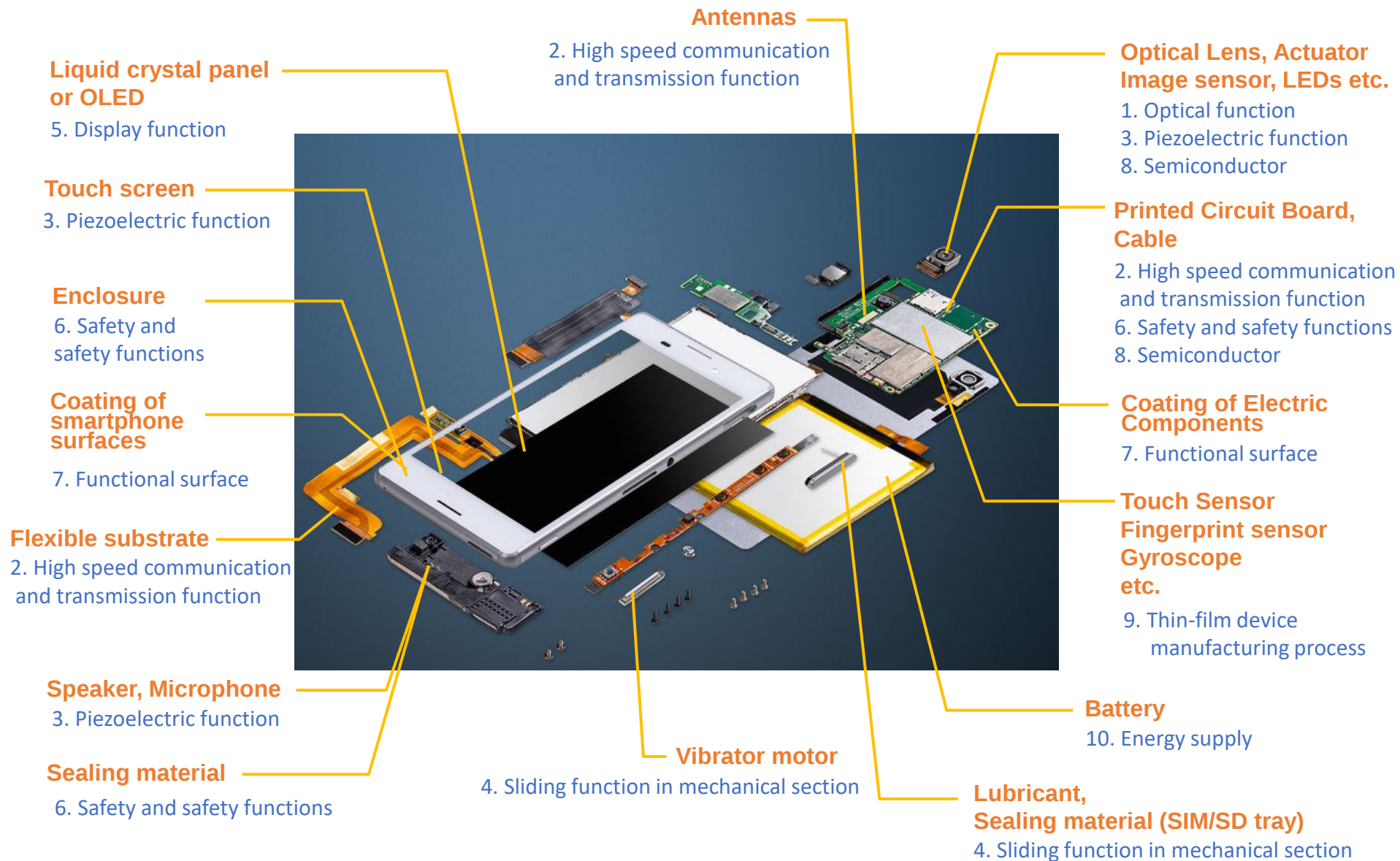
Products under other sectors such as automotive, military, space and aviation also need similar applications as EEE if they use electric parts.

<Slide 1>

The cellular phone contains many electronic parts.

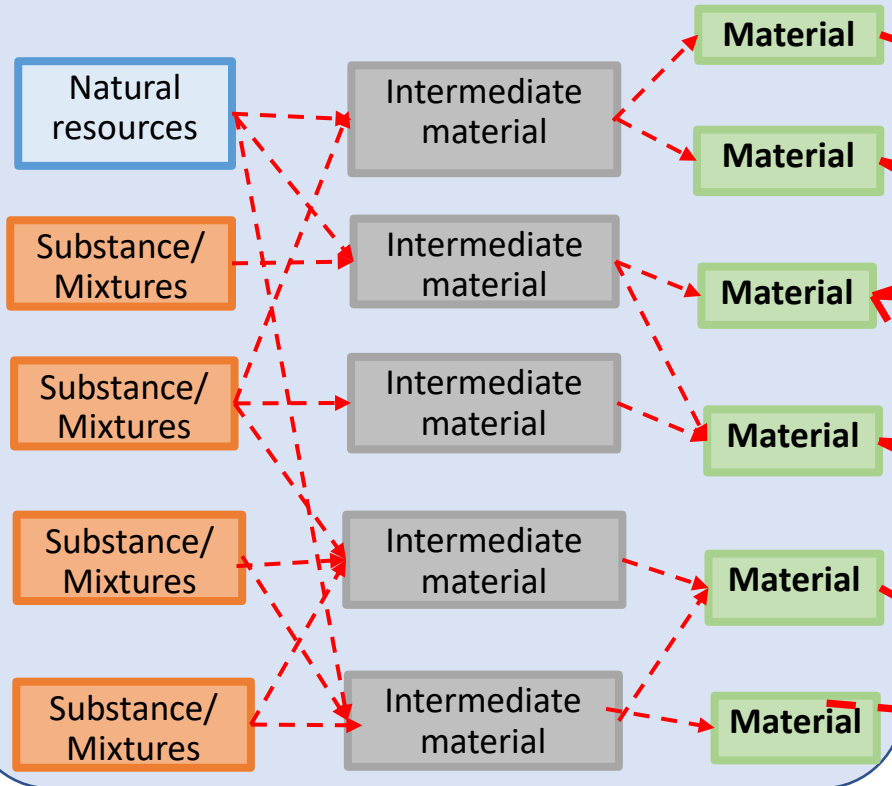
The cellular phone uses various parts using PFAS as listed below.

The numbers are linked to the essential functions of the EEE listed in Annex 4.

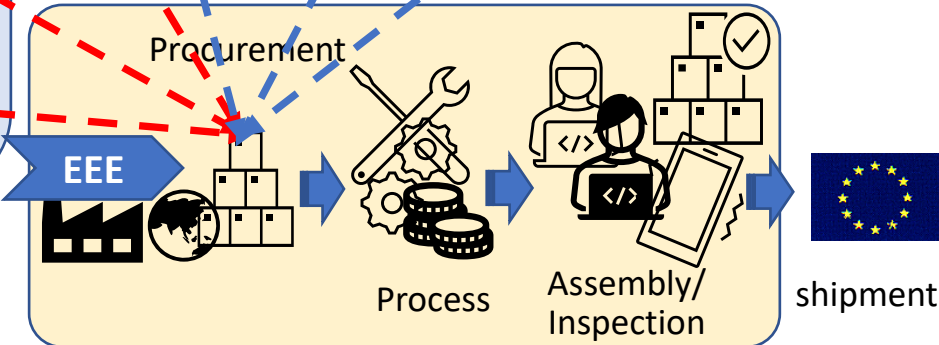
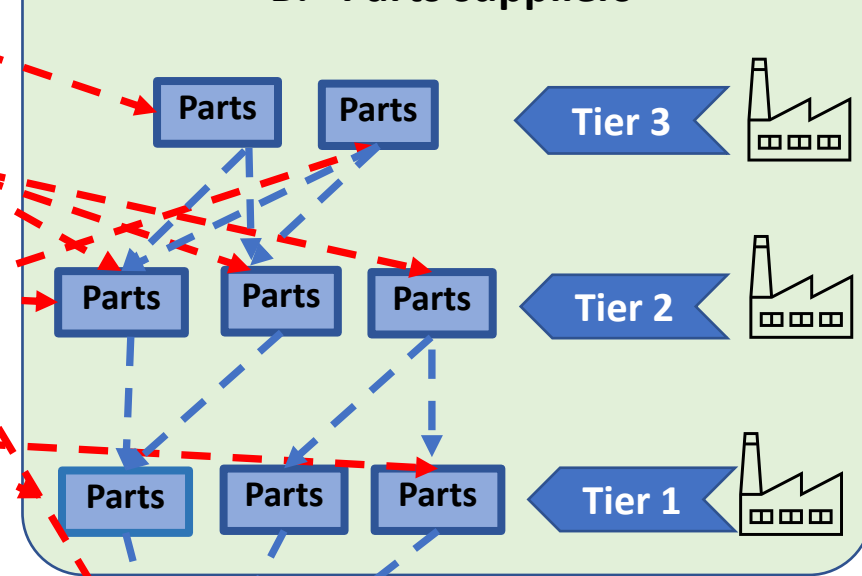


Complexity of supply chain of EEE and related sectors

A. Chemical/Raw material manufacturers



B. Parts suppliers



C. Electric Electronic Equipment Manufacturers

"Material" for EEE Manufacturers are "Product" for Chemical/Raw material Manufacturers, and thus "lubricant" sector are also related to EEE sector. Likewise, "Semi-conductors" or "batteries" are indispensable to EEE as parts for EEE manufacturers, for example.

Categories of EEE covered by Directive 2011/65/EU (1/5)

Category	Title and examples	
1	Large household appliances. For example: Refrigerators; Freezers; Other large appliances used for refrigeration, conservation and storage of food; Washing machines; Clothes dryers; Electric stoves; Other large appliances used for cooking and other processing of food; Electric heating appliances; Electric radiators; Other large appliances for heating rooms, beds, seating furniture; Electric fans; Air conditioner appliances; Other fanning, exhaust ventilation and conditioning equipment	
2	Small household appliances. For example: Vacuum cleaners; Carpet sweepers; Other appliances for cleaning; Appliances used for sewing, knitting, weaving and other processing for textiles; Irons and other appliances for ironing, mangling and other care of clothing; Toasters; Fryers; Grinders, coffee machines and equipment for opening or sealing containers or packages; Electric knives; Appliances for hair-cutting, hair drying, tooth brushing, shaving, massage and other body care appliances; Clocks, watches and equipment for the purpose of measuring, indicating or registering time; Scales	

Categories of EEE covered by Directive 2011/65/EU (2/5)

Category	Title and examples	
3	IT and telecommunications equipment. For example: Personal computers; Laptop computers; Notebook computers; Notepad computers; Printers; Copying equipment; Pocket and desk calculators; and other products and equipment for the collection, storage, processing, presentation or communication of information by electronic means; User terminals and systems; Facsimile; Telephones; Smartphone; Cellphone; Answering systems; and other products or equipment of transmitting sound, images or other information by telecommunications	 A black multifunction printer (combining a printer, scanner, and copier) is shown on a light-colored wooden surface. A white sheet of paper is being printed and is partially emerging from the top output tray. The background is a vertical-grained wooden wall.
4	Consumer equipment. For example: Radio sets; Television sets; Videocameras; Video recorders; Hi-fi recorders; Audio amplifiers; Musical instruments; And other products or equipment for the purpose of recording or reproducing sound or images, including signals or other technologies for the distribution of sound and image than by telecommunications	 A large, black, slim-profile flat-screen television is shown from a slightly low angle. The screen displays a vibrant image of a blue sky filled with fluffy white clouds. The TV is sitting on a dark, reflective stand.

Categories of EEE covered by Directive 2011/65/EU (3/5)

Category	Title and examples	
5	Lighting equipment. For example: Luminaires for fluorescent lamps with the exception of luminaires in households; All kinds of lamps; Other lighting or equipment for the purpose of spreading or controlling light	
6	Electrical and electronic tools. For example: Drills; Saws; Sewing machines; Equipment for turning, milling, sanding, grinding, sawing, cutting, shearing, drilling, making holes, punching, folding, bending or similar processing of wood, metal and other materials; Tools for riveting, nailing or screwing or removing rivets, nails, screws or similar uses Tools for welding, soldering or similar use; Equipment for spraying, spreading, dispersing or other treatment of liquid or gaseous substances by other means; Tools for mowing or other gardening activities	
7	Toys, leisure and sports equipment. For example: Electric trains or car racing sets; Hand-held video game consoles; Video games; Computers for biking, diving, running, rowing, etc.; Sports equipment with electric or electronic components; Coin slot machines	

Categories of EEE covered by Directive 2011/65/EU (4/5)

Category	Title and examples	
8	Medical devices. For example: Radiotherapy equipment; Cardiology; Dialysis; Pulmonary ventilators; Nuclear medicine; Laboratory equipment for in-vitro diagnosis; Analysers; Freezers; Fertilization tests; Other appliances for detecting, preventing, monitoring, treating, alleviating illness, injury or disability	
9	Monitoring and control instruments including industrial monitoring and control instruments. For example: Smoke detector; Heating regulators; Thermostats; Measuring, weighing or adjusting; appliances for household or as laboratory equipment; Other monitoring and control instruments used in industrial installations (e.g. in control panels)	

Categories of EEE covered by Directive 2011/65/EU (5/5)

Category	Title and examples	
10	Automatic dispensers. For example: Automatic dispensers for hot drinks; Automatic dispensers for hot or cold bottles or cans; Automatic dispensers for solid products; Automatic dispensers for money; All appliances which deliver automatically all kind of products	 
—	Other EEE not covered by any of the categories above.	  