

tukes

Market surveillance and circular economy

Turvallisuus- ja kemikaalivirasto (Tukes)





Market surveillance

- Ensures that the devices and equipment on the market are safe for people's health, property and the environment (and otherwise compliant)
- Aims on ensuring a level playing field in the market
- Regulation has focused a lot on safety, but emphasis on environmental issues is growing (RoHS, Ecodesign, Single Use Products, WEEE...)
- Only small part of the products in the market are proactively checked by market surveillance or by third party
- Products are checked by MSAs only after they have entered the market, usually in environmental point-of-view "the damage" has already been done (e.g. includes hazardous substances)
 - From safety perspective the damage is yet to come
- Best way to advance circular economy perspective in products is to have regulations related to it (and enough resources for market surveillance)
 - · Some regulations already exists under the ecodesign directive



What to consider when writing regulation?

- Are the requirements even possible? For example, if the requirement is to use 50% recycled materials, is there enough recycled material available (e.g. batteries)?
- Is the requirement something that is needed/used in practise?
 - E.g. companies dismantling electronics do not have time to search dismantling instructions online for each of the products, but legislation requires the information to be there
- Will there be requirements that are difficult or impossible to measure or monitor?
 - Is the requirement specific or very general?
 - Can they be fulfilled with good paperwork with no actual positive impact?
 - Are there suitable testing standards? How to prove that requirements are fulfilled?
 - How to measure the amount of recycled materials in the product?
 - How to monitor how unsold items have been demolished?
 - Requirements for design and manufacturing process? Products done usually outside Finland -> no jurisdiction



Reuse/repair/recycling from market surveillance perspective

- Selling recycled/fixed/upgraded products is a growing business
 - Electrical appliances, construction products, jewelry etc.
- Products need to comply with the regulation which is in force the day they are placed on the market
- Becoming a totally new product
 - E.g. jewelry is made from old bike tires (requirements for chemicals are totally different)
- Becoming a modified similar product: product which has been subject to important changes or overhauls aiming to modify its original performance, purpose or type may be considered as a new product
 - The person/company who carries out the changes becomes then the manufacturer with the corresponding obligations.
 - Does the new product fulfill the current regulation?
 - Good aims of circular economy vs. reality of regulation requirements
 - Couple examples on the next slides:



The economy | Recycling

Power chain starts buying and selling used home electronics, aiming to get 20,000 tonnes of scrap a year for recycling from Finland, Denmark and Norway

Power will start buying used devices in mid-October. The first second-hand product trading facility will open in November," says Juha-Mikko Saviluoto, CEO.



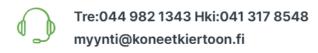
- Old fridge with new motor -> more efficient, and thus new product
 - Technical documentation and Declaration of Conformity
 - Energy label
 - RoHS, LVD, EMC, ecodesign
 - Manufacturers information

Lot of requirements to fulfill for one unit



Service price list:
Phone | Computer | Console

Store: Used computers



Stores / More information >

Search for products

All categories





Front page > Trade

All laptops

Lenovo ThinkPad

Ultrabook

Lenovo

Acer

HP

Asus

Fujitsu Siemens

Warhammer

Used computers from the online store

The second-hand computers and used corporate laptops sold by Machines Kiertoon Oy are, as a rule, highly reliable computers with a clearly sturdier structure than a normal consumer laptop. They are efficient and long-lasting, and our maintenance has checked all laptops to work.

Used computer for student - Abitti compatibility

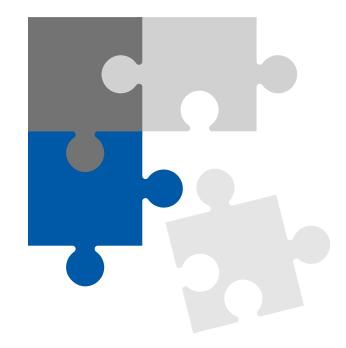
Most of the used computers on sale are Abitti compatible laptops. A used laptop is often a very sensible and ecological option for the student – you will get a powerful, reliable and compatible computer at a much lower cost than the corresponding new machine. For example, different versions of Lenovo Thinkpad computers are very popular laptops for matriculation examinations, as is HP's EliteBook series.

Changes to software and/or hardware -> new product



In conclusion

- How to make sure, that requirements promote the aims of circular economy, but are still reasonable and surveilable?
- How to tackle the problem related to old product becoming a new product? (without creating big loopholes)





Thank you for listening!