



Life-Cycle Assessment(LCA) is the methodology to assess the environmental impacts associated with all stages of a product's life-cycle from the cradle to the grave.

Samsung electronics conducts the Life-Cycle Assessment for mobile phones for 12 environmental impact categories(*) from the pre-manufacturing stage to disposal stage.

* Global Warming, Acidification, Eutrophication, Ozone Layer Depletion, Photochemical Oxidation, Primary Energy Demand, Fresh water Aquatic Ecotoxicity, Marine Aquatic Ecotoxicity, Terrestrial Ecotoxicity, Human Toxicity, Water Consumption, Waste Generation

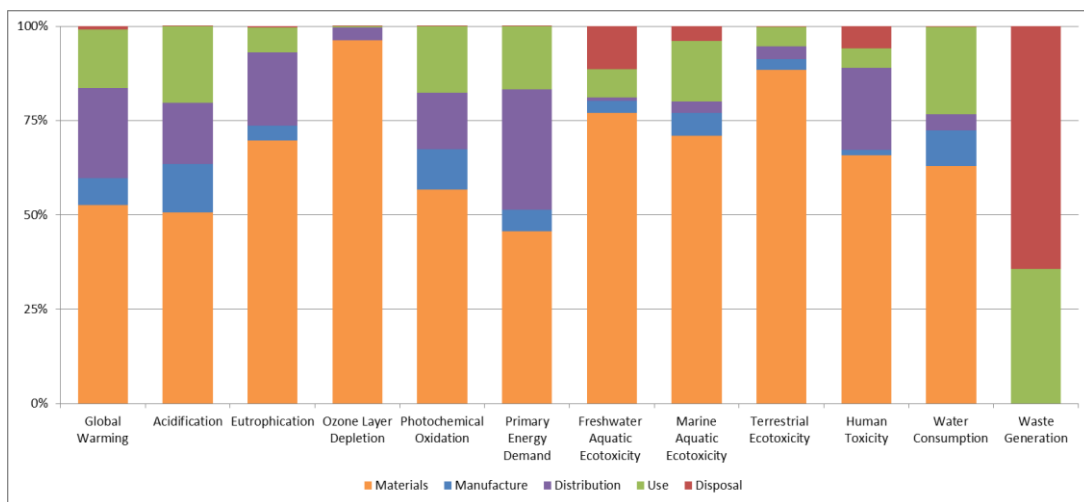
As the result of LCA, the environmental impact of each category is quantified. We have utilized the result to identify the key factors to affect the environment. And to improve the key factors, the eco-design process has been used in the development stage. Through this process, the products have been evaluated by the criteria such as resource efficiency, energy efficiency, and hazardous substances, etc.

- ▶ Resource efficiency : Use of recycled plastic, Recyclability rate, etc.
- ▶ Hazardous substances : PVC Free, BFR Free, Phthalate Free, etc.
- ▶ Energy Efficiency : Energy efficiency level, power consumption, etc.
- ▶ Others: VOC, Noise, Eco-label, etc.

Samsung electronics has an environmental vision of "Providing Green Experience, Creating Future". Thus, we will continuously try to develop eco-friendly products to contribute the sustainable society.

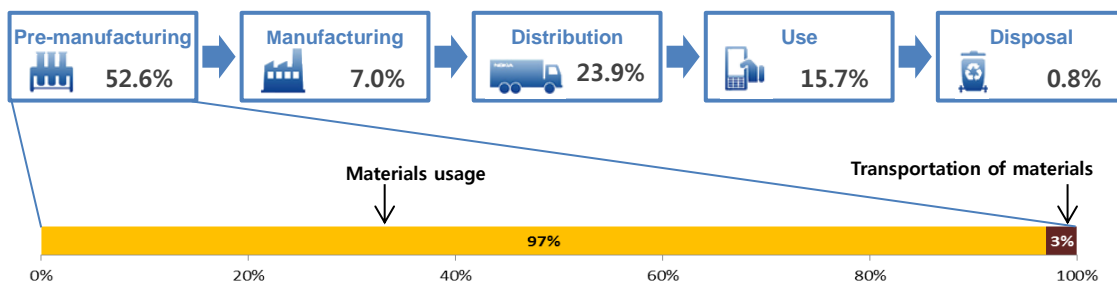
Galaxy S Series

LCA Result



Example < Global Warming >

Environmental Impacts of each stage



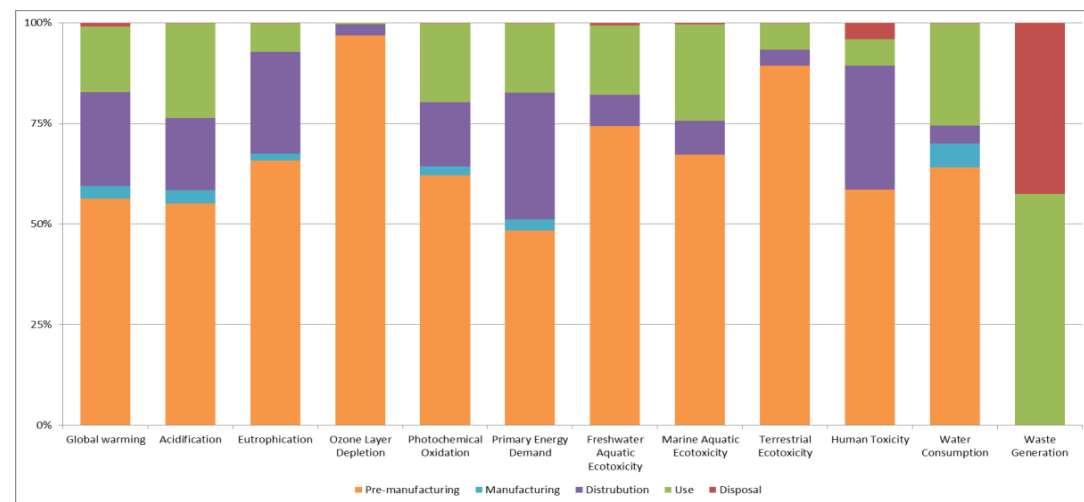
* LCA has been conducted in accordance with ISO 14040, ISO 14044

Reviewed by the expert of KSLCA(The Korean Society for Life Cycle Assessment)

Joong Woo Ahn
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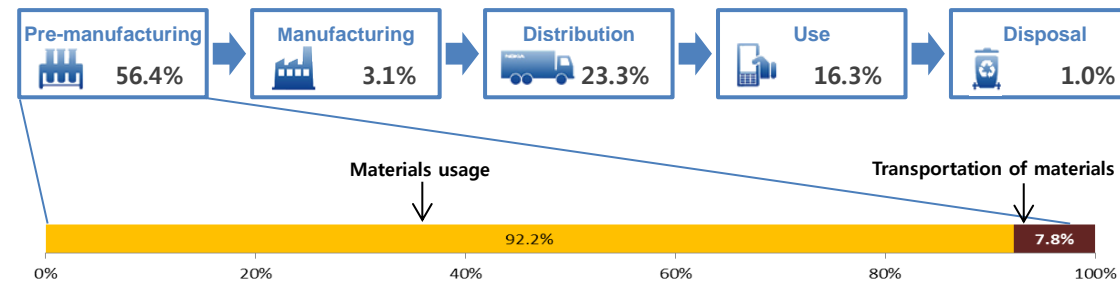
Galaxy Note Series

LCA Result



Example < Global Warming >

Environmental Impacts of each stage



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Reviewed by the advisor(Internal Expert)

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