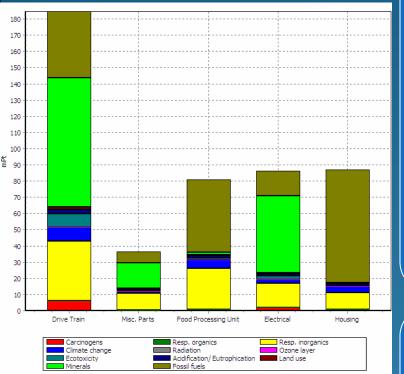
Toastmaster Chopster Barrett Heyneman, Linus Park



Comparison of Subassemblies



Method: Eco-indicator 99 (H) V2.06 / Europe EI 99 H/A / single score

- 1) Recycled Plastic: Using recycled pp for the housing instead of melamine actually increased toxicity w/o reducing petroleum need as much as expected
- 2) Glass Bowl: Making the food container out of glass appears to have reduced toxicity and petroleum use, but may have a positive or negative impact on product life.
- improvement by essentially eliminating a product's worth of waste in the lifecycle analysis.
- had the largest negative impact due to the by switching to some sort of manually powered chopper had a predictable but

- 1) Copper had the greatest impact. This is most likely due to the severe environmental effects of mining and producing copper material
- 2) Plastics have the next largest impact, consuming a large amount of fossil fuel during production.

- 1) Surprisingly, the motor and electrical components were the worst culprits - more so than plastic. This was mainly due to the effect of copper in the motor and electrical cord.
- 2) Melamine in the housing had a high cost in terms of petroleum, more so than other plastics.

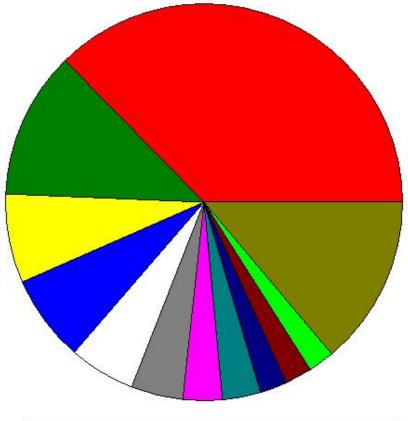
Life Estimate: 6 years at roughly 1 hr/week

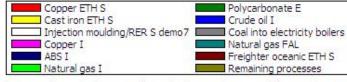
Functional Unit: Impacts/hr

Includes transport from Guangzhou, disposal as landfill, electricity, product Excludes packaging



Inventory Analysis





Analyzing 1 p 'Original Chopster LC'; Method: Eco-indicator 99 (H) V2.06 / Europe EI 99 H/A

Comparison of Design Changes

