

How you can use sustainable design and save the world

<http://www.creativebloq.com/design/sustainable-design-1131810>

01. Design backwards

Before you start designing, question whether the brief is asking the right question to begin with. The conceptual stage is the most crucial and it's at this point that we as designers can effect the greatest change by looking at the problem from different angles.

Consider whether there is a way that the design or product could be smaller, lighter, made from fewer materials and designed so as to minimize waste.



02. Make it long-lasting

Is your design going to be made and sold locally? Striving to produce products locally will not only boost the local economy and business, but will also cut down drastically on products needing to be specially packaged for shipping, as well as the overall packaging required.

It's also important to consider the social angle of projects, employing local labour to not only build community, but create jobs and a better economy.



03. Make it local and social

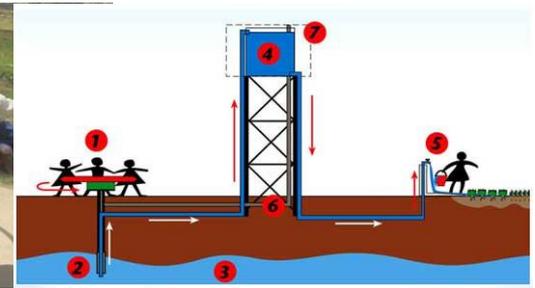
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04. Make it renewable

Is there potential for your design to run on alternative, natural energy sources such as the sun, wind, water or human energy?



05. Repurpose materials

Is there potential to re-use products or materials in a new way, so as to eliminate waste and give it a new lease on life?



06. Make it recyclable

After the product has no possible further use is it constructed or made in such a way so that it is completely recyclable?

Recycle Easily

Packaging is re-used as a pre-paid return envelope for recycling.
GoGreen Competition Award



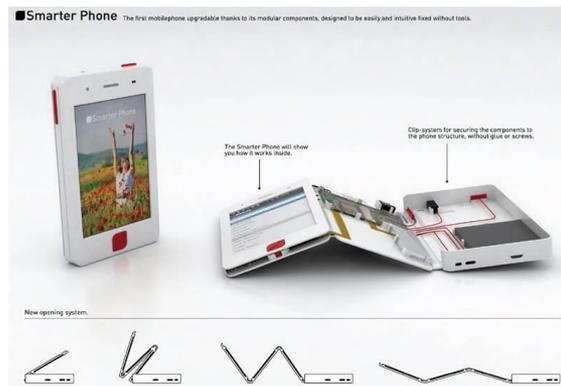
07. Make it biodegradable

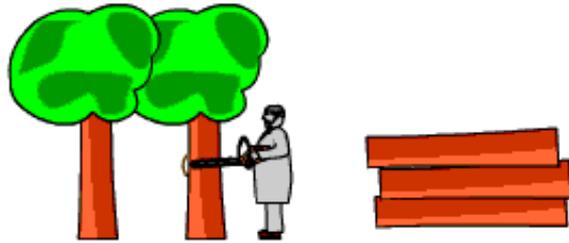
Could the product or packaging be designed so as to be biodegradable?



08. Make it upgradeable

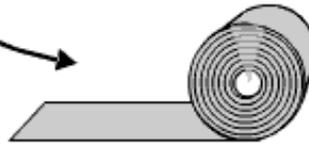
We need to create products that are easily and more cheaply repairable and upgradeable rather than forcing consumers to buy new again when the product has reached its shelf life.





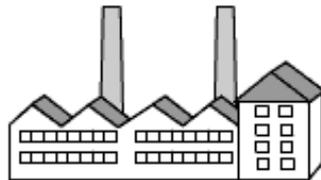
TREES ARE CUT DOWN IN SUSTAINABLE FORESTS AND COMBINED WITH RECYCLED PAPER. THIS IS CONVERTED TO WOOD PULP AND THEN PROCESSED INTO LARGE ROLLS OF PAPER.

ROLLS OF PAPERS ARE USED TO PRODUCE THE DAILY NEWSPAPERS AND MAGAZINES THAT WE ALL READ.



PRODUCT LIFE CYCLE

AFTER READING THE NEWSPAPERS ARE PUT IN RECYCLING BINS, OR DUMPED IN DUST BINS THAT END UP AT THE LANDFILL SITE. SOME NEWSPAPER IS SHREDDED AND USED TO PROTECT GOODS INSIDE PACKAGES



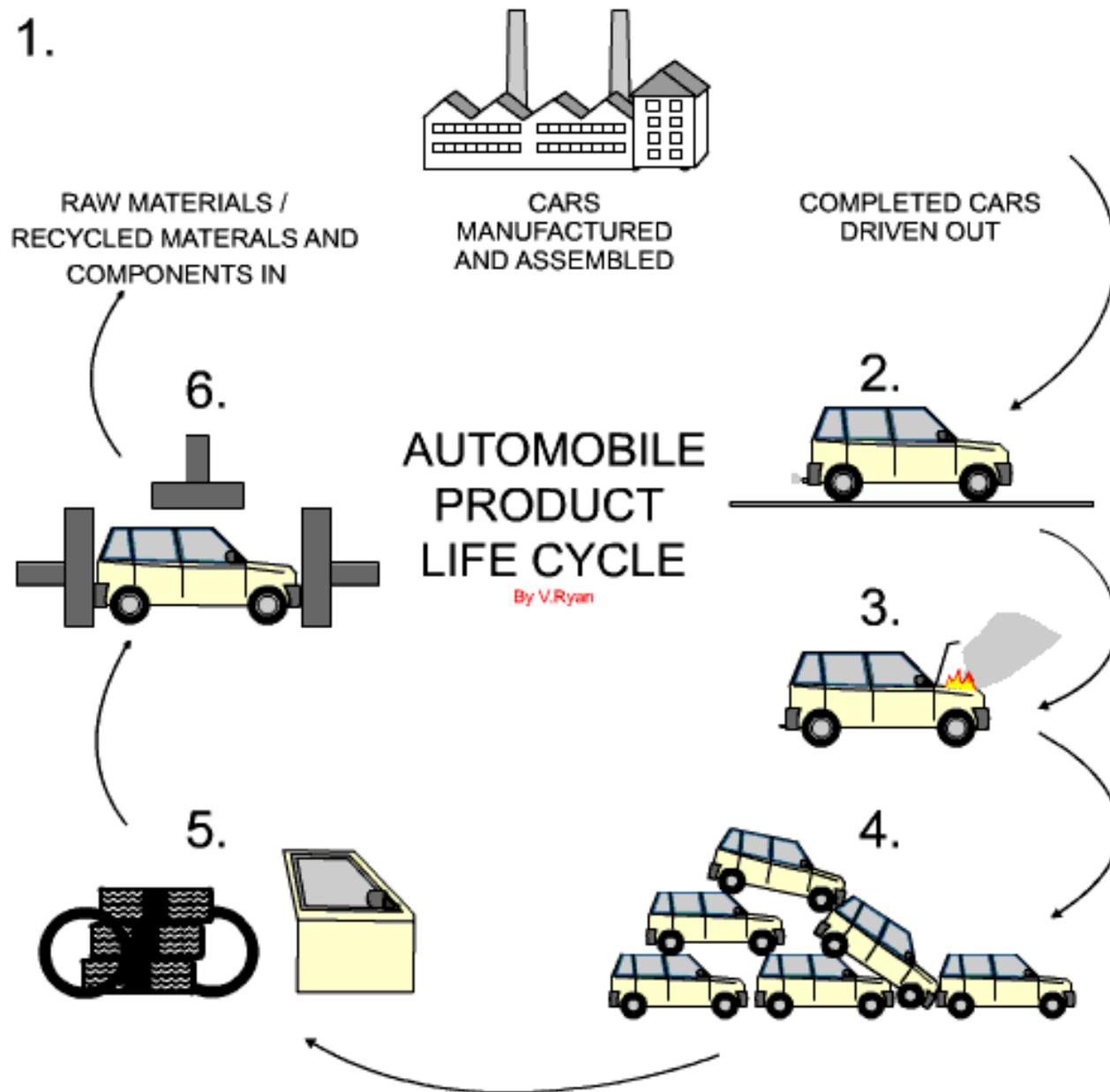
NEWSPAPER FROM RECYCLING BINS IS PROCESSED BACK INTO PULP. THIS IS COMBINED WITH NEW PULP FROM TREES AND PROCESSED INTO LARGE ROLLS OF PAPER.

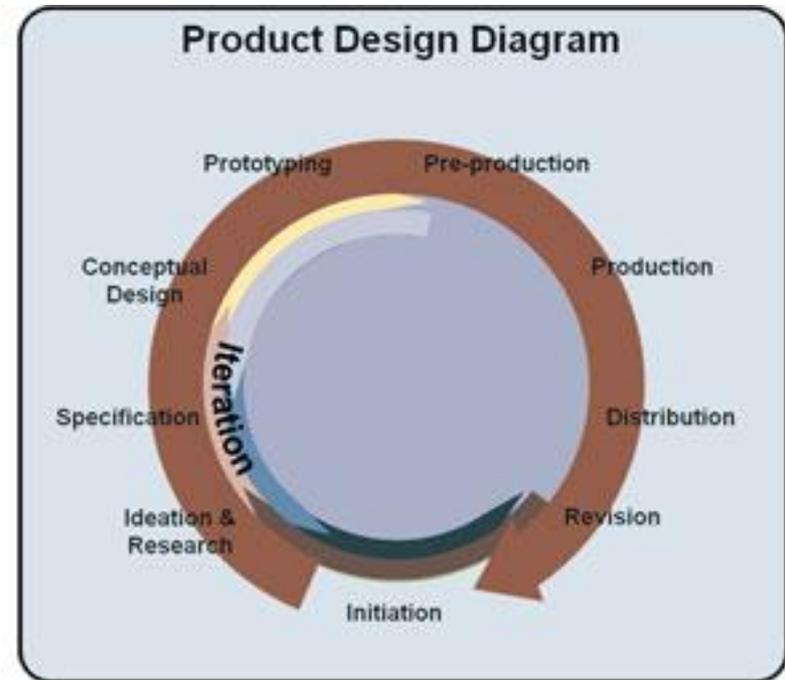
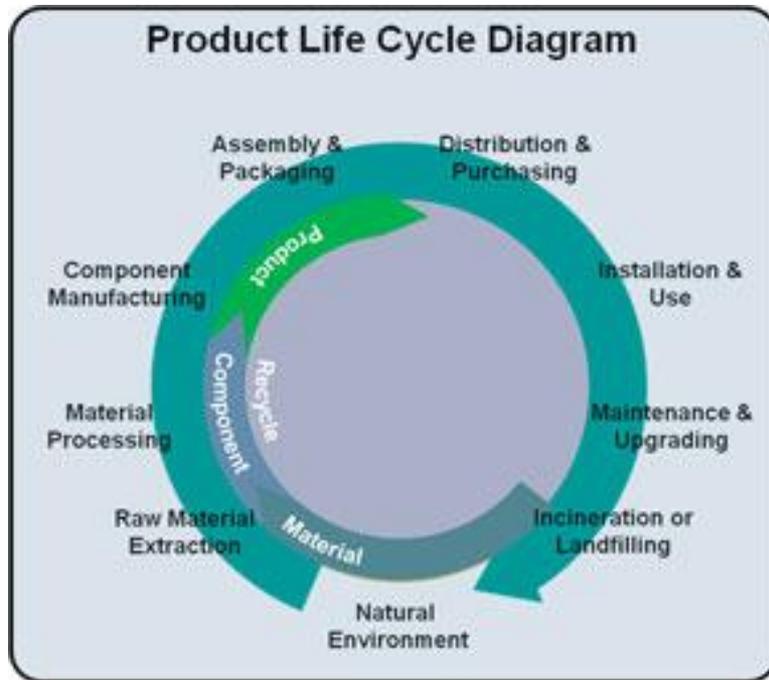


By V.Ryan



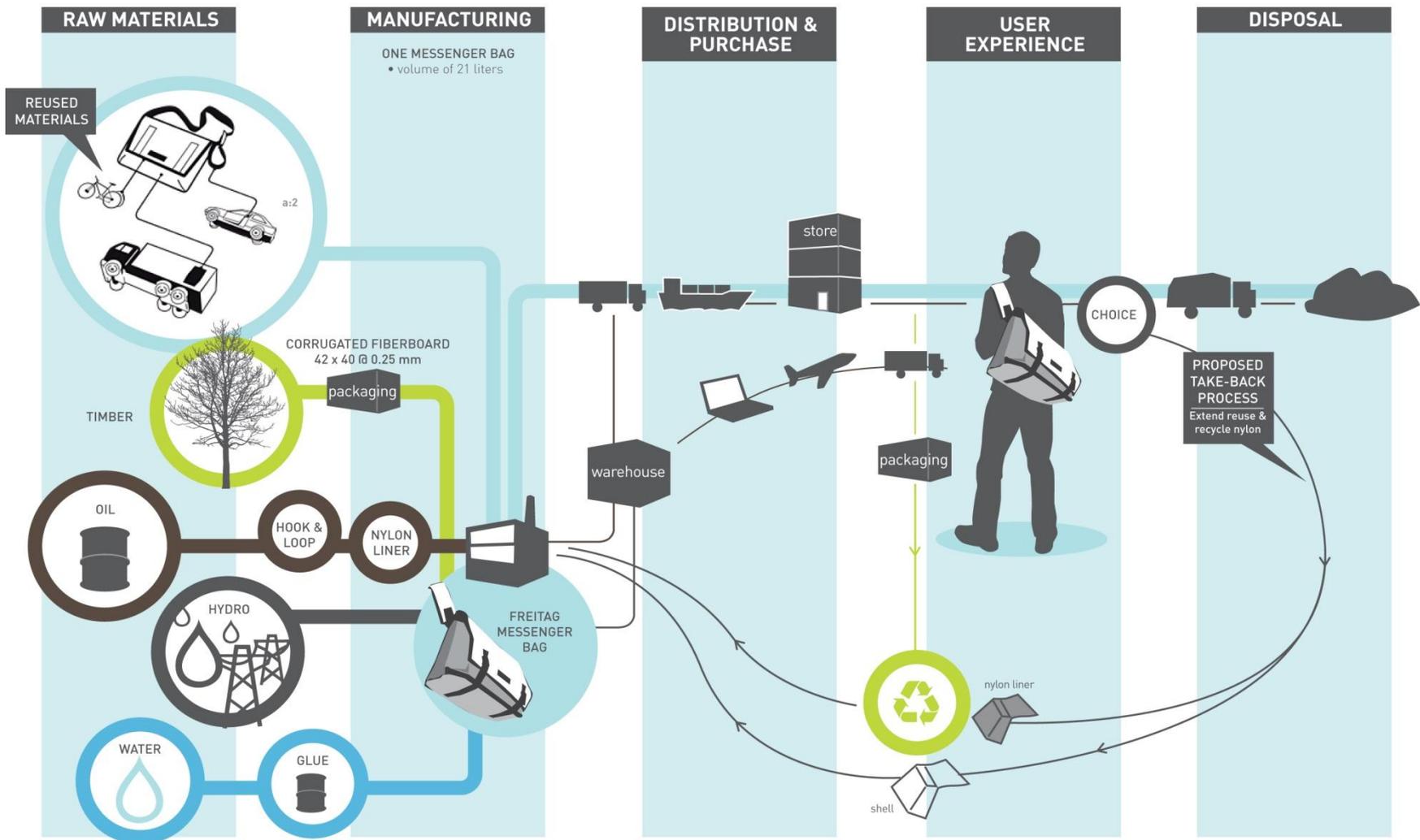
1.





Menyusun tahapan dari life cycle product dan menjelaskan setiap tahapan tersebut hingga menjadi sebuah produk

<http://www.technologystudent.com/prddes1/prddex1.html>



design inspired by nature

from the industrial revolution to the beginning of the XXI century

form from nature	focus : aesthetics examples: industrial design, furniture design, product design	Arts & Crafts 1883 - Chair - Mackmurdo 1900 - Pendant - Lalique 1900 - Lamps - Tiffany	Art Nouveau 1902 - Lamp - Behrens 1904 - Orion Teaset - Adler 1920 - Chair - Ruhlmann	Art Deco 1936 - Savoy Vase - Aalto 1948 - La Chaise - Eames 1950 - Arabesque - Mollino	Organic Design & Organicism 1951 - Vespa - D'ascario 1938, 1945 - Beetle - Volkswagen 1966 - Butterfly Stool - Yanagi 1969 - Donna - Pesce	1982 - Cbio for Canon - Colani 1990 - Julcy Salfi - Starck 1996 - Vespa ET2 - VDT Piaggio 1998 - New Beetle - Volkswagen 1998 - i Mac for Apple - Ive	2001 - Tynant Bottle - Lovegrove 2003 - Candleoo - Vessel 2003 - Hana for Arita - Kita 2006 - A La lata Bowl - Montana 2006 - A La lata Bowl - Montana
function from nature	focus : technology examples: industrial design, inventions, robotics	1849 - Artificial Leg - Palmer 1853 - Glider - Cayley 1868, 1873 - Barbed Wire - Kelly, Glidden	1903 - Wright Glider - Wright Brothers 1907 - Helicopter - Cornu 1921 - Robot - Kapek	1934 - Patent Car #9 - Bel Geddes 1934 - Cat Eye Reflector - Shaw 1948 - Velcro - De Mestral	1969 - Walking Truck - General Electric 1969 - Artificial Heart - Liotta & Cooley 1982 - Lotus Effect - Barthlott	1992 - Back Protector - Sadler 1999 - Albo Robot - Sony 2003 - Gecko Tape	2004 - Fastskin Swimwear Speedo 2006 - Boxfish Car - Daimler Benz 2005 - Vertebra - Montana 2005 - i Unit - Toyota
process and system from nature	focus : large scale projects examples: bio-inspired theories, urban planning, industrial systems, industrial design.	1858 - Central Park - Olmsted 1902 - First Garden City - Howard	1927 - Biopoli - Geddes	1949 - Metabolic & Symbiotic Arch - Kurokawa	1969 - Design with Nature - McHarg	1975 - Urban Ecology & Eco City - Register 1989 - Industrial Ecology - Froesch et al. 1997 - Biomimicry - Benyus	2007 - SimbioCity - Sweden 2008 - Cultivation Kitchen - Inax 2008 - Biophilic Design - Kellert et al.







<http://designbuzz88.blogspot.com/2007/06/sustainable-product-design.html>

<http://inhabitat.com/bright-lights-sustainable-futures-and-day-two-at-tent-london/>

<http://inhabitat.com/design-for-the-90-exhibition/>

<http://www.theguardian.com/sustainable-business/gallery/sustainable-product-design-in-pictures>

<http://www.thedieline.com/blog/2012/6/18/eco-sustainable-premium-thai-pomelo-packaging.html>

<http://www.sustainablematerials.org.uk/resource/>

<http://msi.apparelcoalition.org/#/overview/energy>