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08 conclusion

A Cyclical Process

The thesis investigation has indicated that the unsustainable industry of automobiles and the linear process of automotive manufacturing should be altered to accommodate a cyclical process. This cyclical process should address the development of automobiles, from the design stage through to the disposal process.

The investigation of the Pretoria West precinct indicated a need for a cyclical process. The proposed Vehicle Disassembly Plant aimed to break the linear process by connecting the last stage (disposal) with the first stage (development/design) through the idea of seeing waste as food for the future.

It is important that the industrial process of the project, function as an ecosystem that will establish a connection to the surrounding context. Therefore, the plant showcases and facilitates the connection between the process and the urban fabric.

Sustainable principles together with passive and active systems were utilised to lower the invention's energy consumption during its functional phase.

Finally, by enabling the proposed building to be disassembled, the project's argument of designing products for disposal is better substantiated.

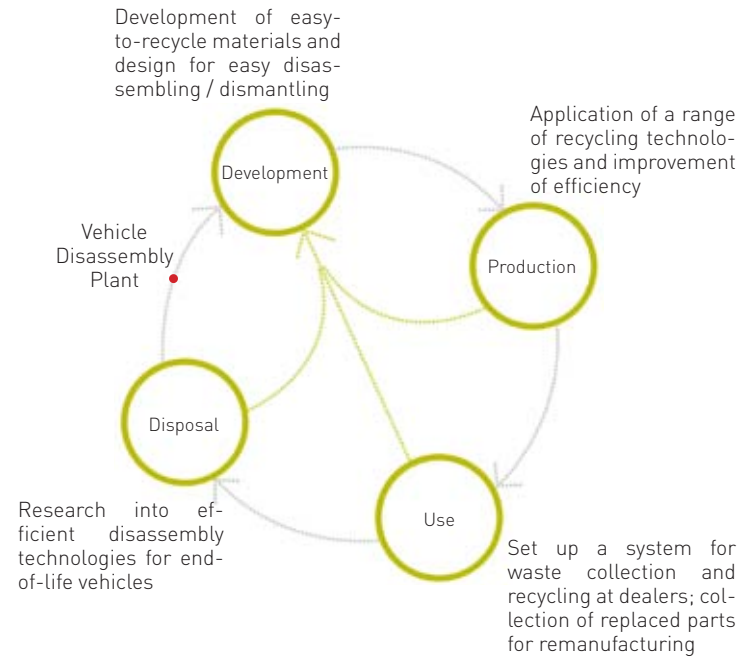


Fig 8.1: Discovering a new possibilities of making the automotive industry more sustainable (Five Non Blondes 2008)



Fig 8.2: Cyclical Production process - Industrial Ecosystem, Illustrated by Author 2011