

Daniel CIRIMWAMI

ISDR/BUKAVU



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Instagram



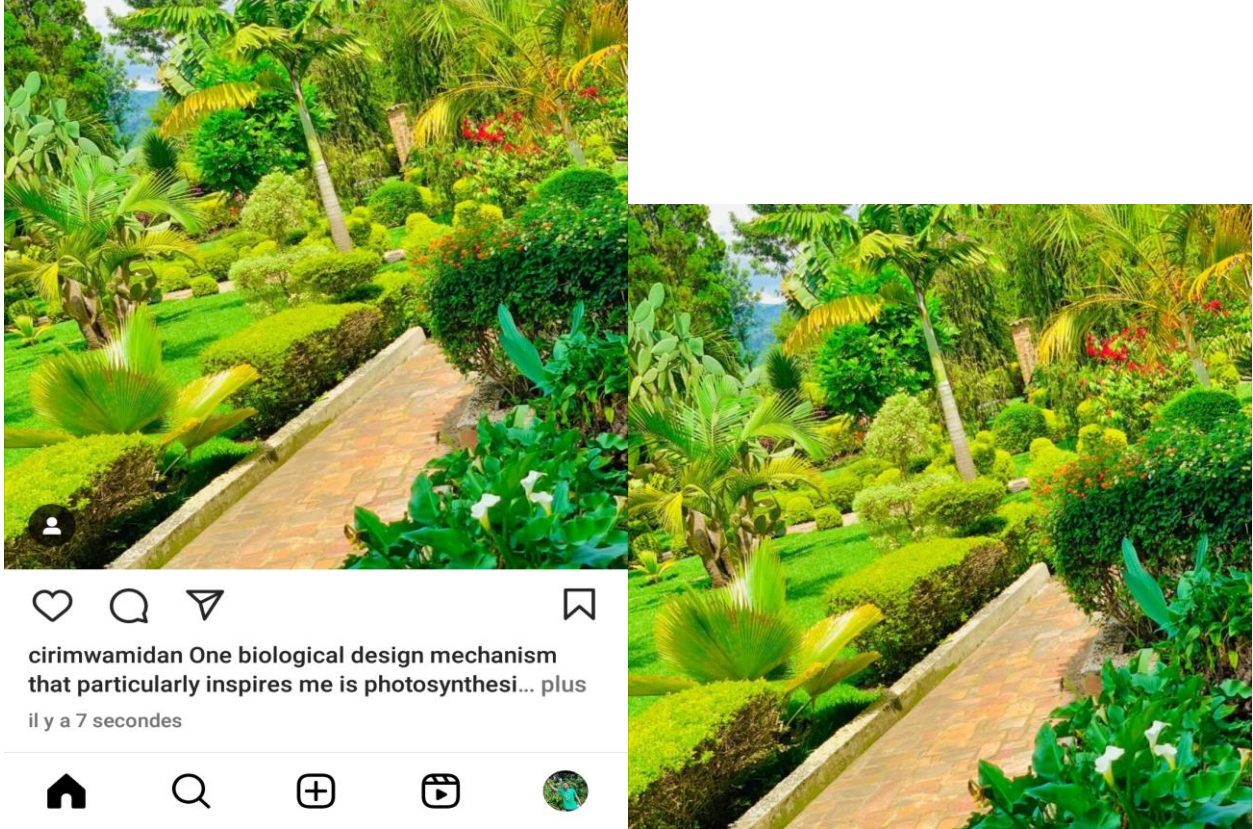
cirimwamidani One biological design mechanism that particularly inspires me is photosynthesis. The way plants convert sunlight into energy is fascinating and incredibly efficient. Photosynthesis is a complex process involving the capture of light by chlorophyll pigments, the conversion of this energy into chemical energy and finally the production of glucose and oxygen. This process is essential for plant survival, and is also responsible for oxygen production in our atmosphere.

What's particularly compelling about photosynthesis is its energy efficiency. Plants are capable of converting up to 90% of the light energy they capture into chemical energy. This is an incredibly high conversion rate, far superior to that of most human technologies. What's more, photosynthesis is a renewable and sustainable process, using natural resources such as sunlight and carbon dioxide.

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At the campus or community level in the DRC, biomimicry systems could be used to design more sustainable and energy-efficient buildings. For example, by mimicking the structure of plant leaves, we could design buildings that capture and make efficient use of sunlight for lighting and heating. Furthermore, by imitating the root systems of plants, we can create a biological design mechanism that inspires me for its energy efficiency and sustainability. It has changed my perspective on nature, showing me how ingenious and capable it is of solving complex problems. These biomimicry systems can be applied to my own life, the campus and the DRC community by adopting sustainable practices and seeking solutions inspired by nature.