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By 2050, the global population is expected to rise to nine billion and there have been significant calls for a change in the way the world is dealing with growing water shortages. The approaching water crisis will threaten half of humanity by 2030. Our ever-increasing population is stretching our ability to provide clean water for our needs, from agriculture and manufacturing to the most basic one of all: drinking water.

In the desert, where water is scarce and few living things are to be found, some species possess the most amazing designs to survive. In some parts of deserts, finding water is a long journey. However, even when water is found it doesn't mean it is safe, as it can be contaminated. Many solutions are emerging; yet, they have to be simple, no costly and easy to maintain and to be applied. New technologies and biomimicry are constant solutions to make water collection and purification easy, dependable and affordable. Biomimicry is an approach to innovation that seeks sustainable solutions to human challenges by imitating nature's patterns and strategies. The goal is to work in adopting

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