

SETTING COURSE FOR A SUSTAINABLE WORLD



LAND



Cultivated systems cover 25 percent of the land on our globe. A 10-20 percent increase may be needed to meet growing food demand. At the same time, demand for nonfood agricultural products (feed, fuel, fiber) could push the need for land even higher. This expansion will affect other ecosystems – particularly biodiversity.

ENERGY



If current policies continue, the oil price might rise from US\$78 in 2010 to US\$140 in 2035. High energy prices will increase the costs of inputs, water, transportation, marketing – and consequently the price for food. At the same time, using land for the production of fuel rather than food will become more and more attractive to farmers.

WATER

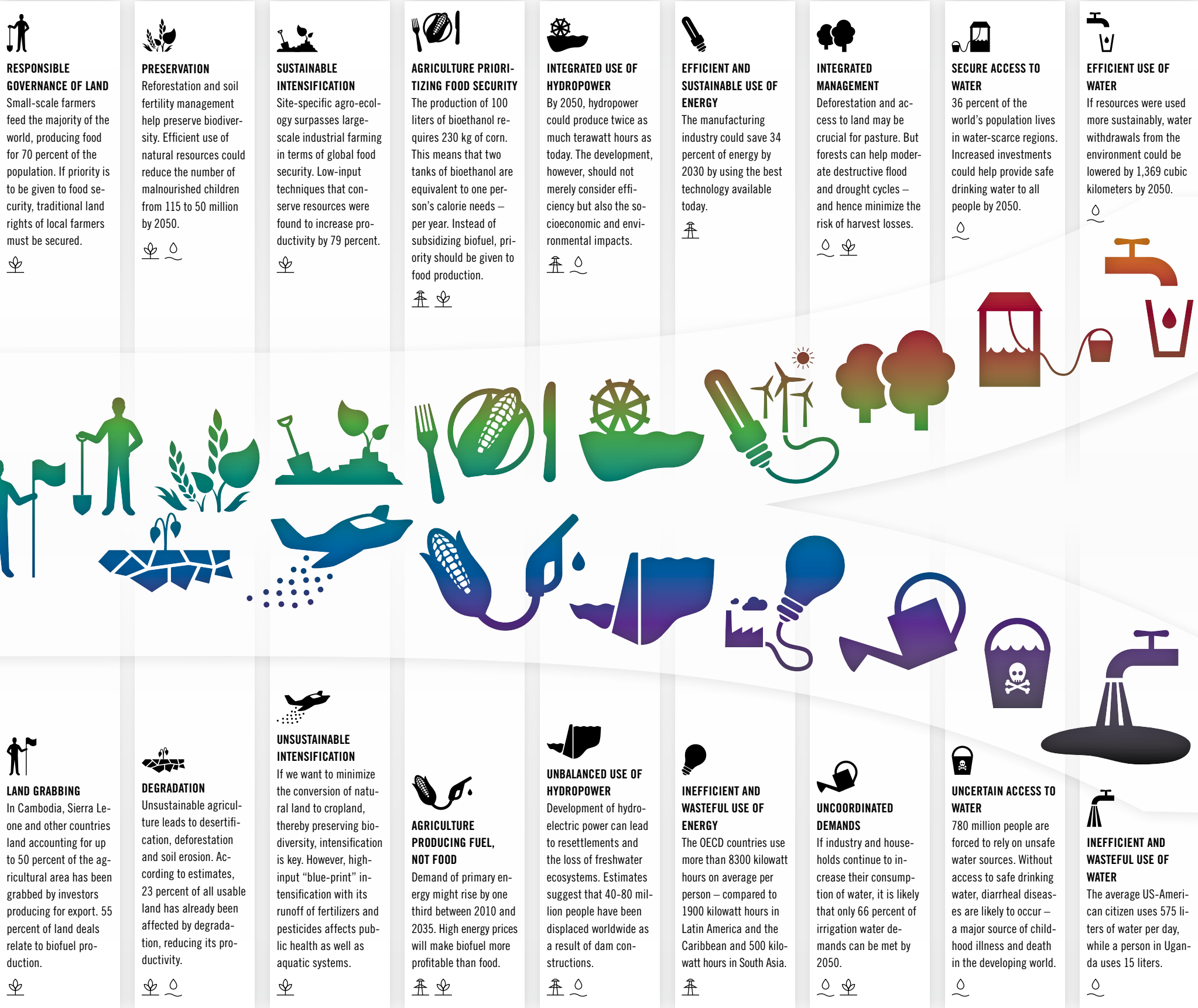


Agriculture consumes 80 percent of the world's "blue water" and is therefore both vulnerable to water scarcity and a contributor to it. Economic growth will increase the demand even further: urbanization comes with a change of people's lifestyles, relying heavily on more water-intensive diets (meat, milk, vegetables).

How to secure food security under land, water and energy stresses

Natural resources are becoming increasingly scarce: A growing and more affluent global population has a higher demand for land, water

and energy. At the same time, due to climate change and other human-induced factors, the resources we rely on for food are actually shrinking. In the future, we will have to produce more with less – and we will have to do so more sustainably and in a way that enables the poor to realize their right to adequate food.



THE SUSTAINABLE SCENARIO

If we find a new path that is based on a responsible and holistic use of land, water and energy, while also addressing the factors that contribute to natural resource scarcity, including climate change, we will create a world in which adequate access to food is provided for all.

THE CONVENTIONAL SCENARIO

If we carry on with our inefficient use of land, water and energy, while relying on uncoordinated policies and short-term gains, we will create a world in which trade-offs between natural resources and human well-being will lead to even less food security than today.