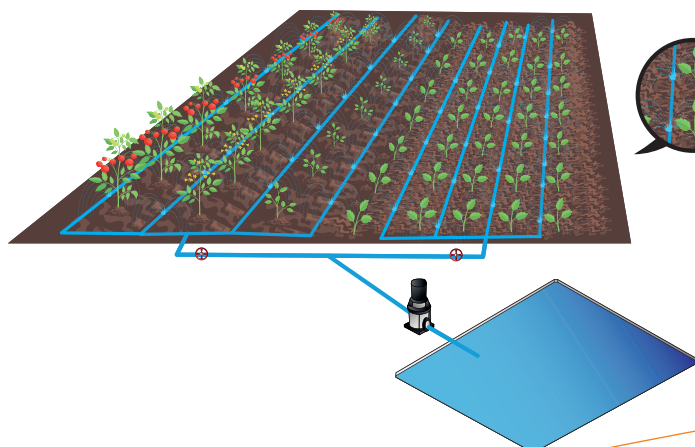


INNOVATIONS FOR AGRICULTURE: LASER SPRAY IRRIGATION, SOLAR IRRIGATION AND AUTOMATED IRRIGATION

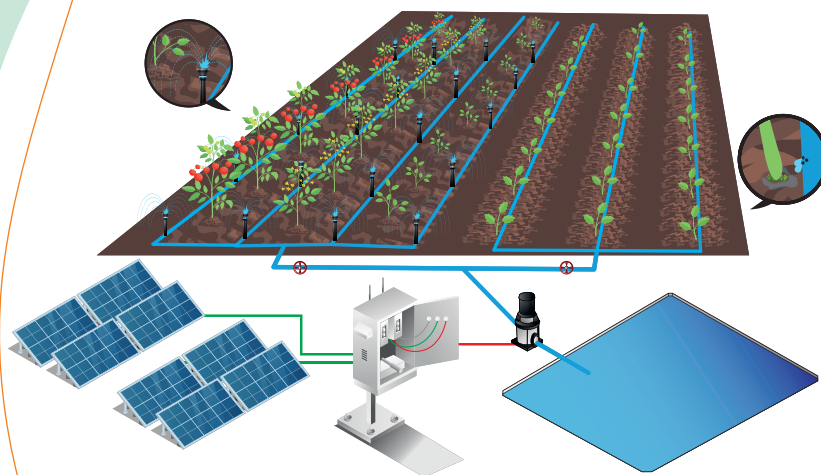


Laser Spray irrigation system:

- Irrigation of crops using plastic duct:
- perforated at regular intervals, producing a rain-like spray of fine, short-reach droplets.
- connected to a pump powered by solar or other energy sources.
- Operates at low pressure and requires less energy than sprinkle irrigation.

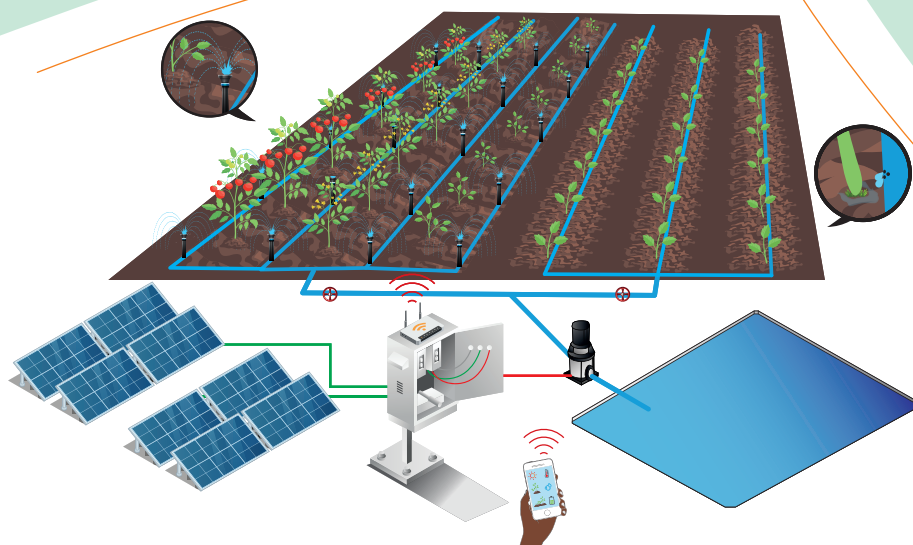
Solar irrigation system:

- Equipped with a solar pump powered by photovoltaic solar panels that generate electricity.
- A control box is installed between the pump and the solar panel.
- A control system is installed between the water source (borehole, etc.) and the reservoir or the plot.
- The installation of a battery or reservoir is optional and enables watering to take place at night or during periods of low sunlight.
- Water is applied to the plot either via an irrigation network (drip, strip, etc.) or manually.



Tele-irrigation :

- Allows remote control of the irrigation system via:
- a mobile application through a signal/call/sms emitted by a cell phone that controls the setting, activation and shutdown of the system;
- a relay box installed between the pump and the solar panel, equipped with a GSM chip, and controlling sensors on the pump or the pipe network.



More information at: www.we4f.org
Contact: we4f@giz.de