

11. Sensor Network Installation

Sensor networks are made up of a number of components that are deployed in production areas in farm fields or in greenhouses. Sensors and nodes are deployed in production areas. Sensor information is logged and transmitted from the nodes via radio waves and received by a data station (or basestation) attached to a computer in the farm office. An illustration of a typical sensor network is given in Figure 1.

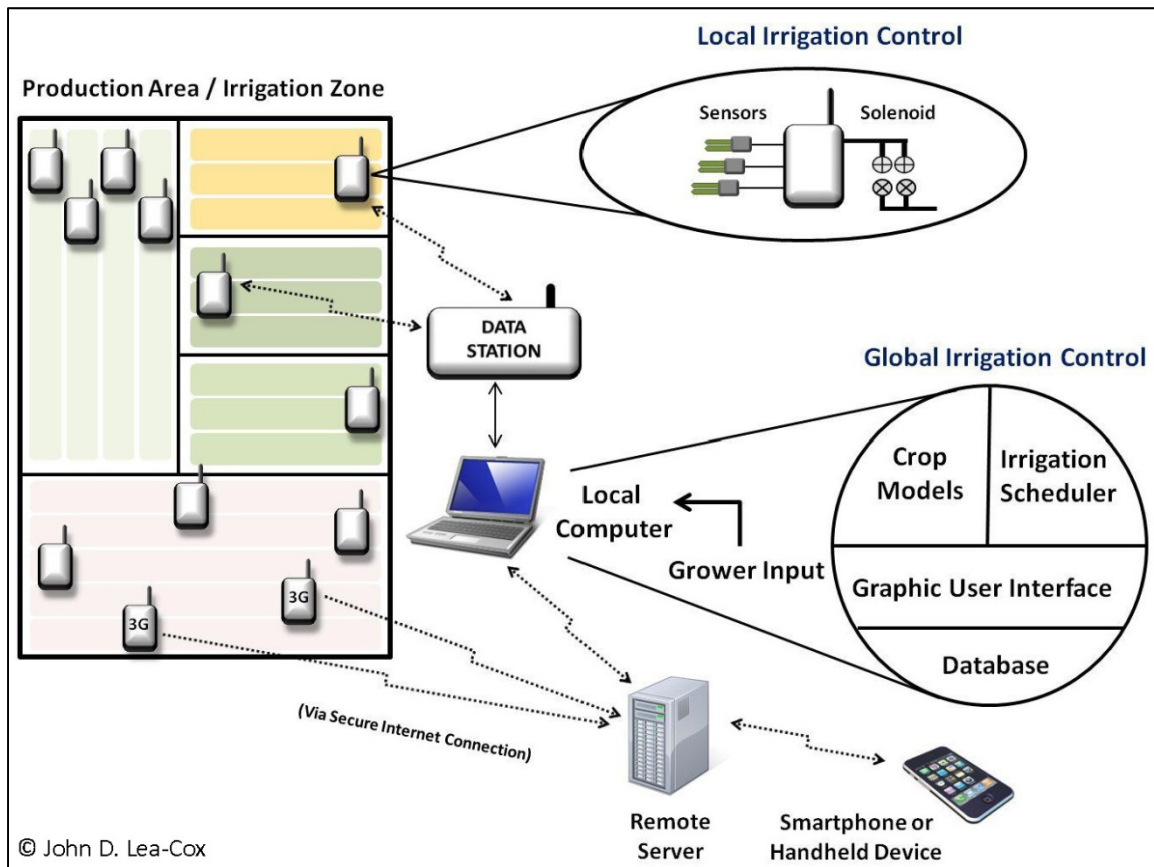


Figure 1. Components of a wireless sensor network (from Lea-Cox et al., 2013).

Alternatively, data can be transmitted directly to a remote ("cloud") server via 3G enabled (Em50G) nodes. Data can then be downloaded using software installed either on the farm computer, or accessed from the server from any device that can access the internet.

In the next sections, various components of sensors networks are explained in detail.