



## D-Lab semester project. Smart Irrigation with Agromation

### Group members:

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# Smart Irrigation

**Save water**

**Save Lives**

## Soil moisture sensors used with smart irrigation controller

Soil moisture sensor-based smart irrigation controllers use one of several well-established technologies to measure soil moisture content. When buried in the root zone of turf, trees or shrubs, the sensors accurately determine the moisture level in the soil and transmit this reading to the controller.

There are two different soil moisture sensor-based systems available:

- Suspended cycle irrigation systems, which are set like traditional timer controllers, with watering schedules, start times and duration. The difference is that the system will stop the next scheduled irrigation when there is enough moisture in the soil.

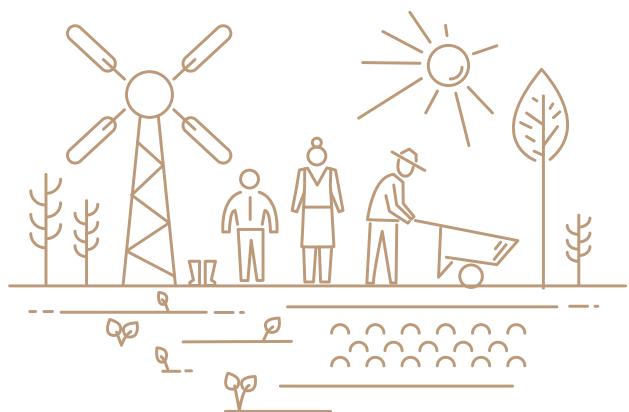
Water on demand irrigation requires no programming of irrigation duration (only start times and days of the week to water). It has

• Should be Convenient and easy to use.

• Should be Sustainable.

• Should be low Cost.

• Easily available.



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## MANY IRRIGATION SYSTEM

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Stakeholder Groups (Size of group)	Interests in Project	Effect of project on interests - = negative 0 = neutral + = positive	Importance of stakeholder for success of project U = unknown 1 = little/no importance 2 = moderate importance 3 = very important	Degree of influence of stakeholder on project U = unknown 1 = little/no influence 2 = moderate influence 3 = very influential
Farmers	Cost of products	+	3	3
	Sustainability	0		
	Easy to use	+		
Investor	Financial return	+	2	1
Communities	Safety	0	2	2
	Economic development	+		
Sensor suppliers	Range of the Sensor	+	3	1
	Value grading	0		
Save Water NGO's	Save water for human use	+	3	2

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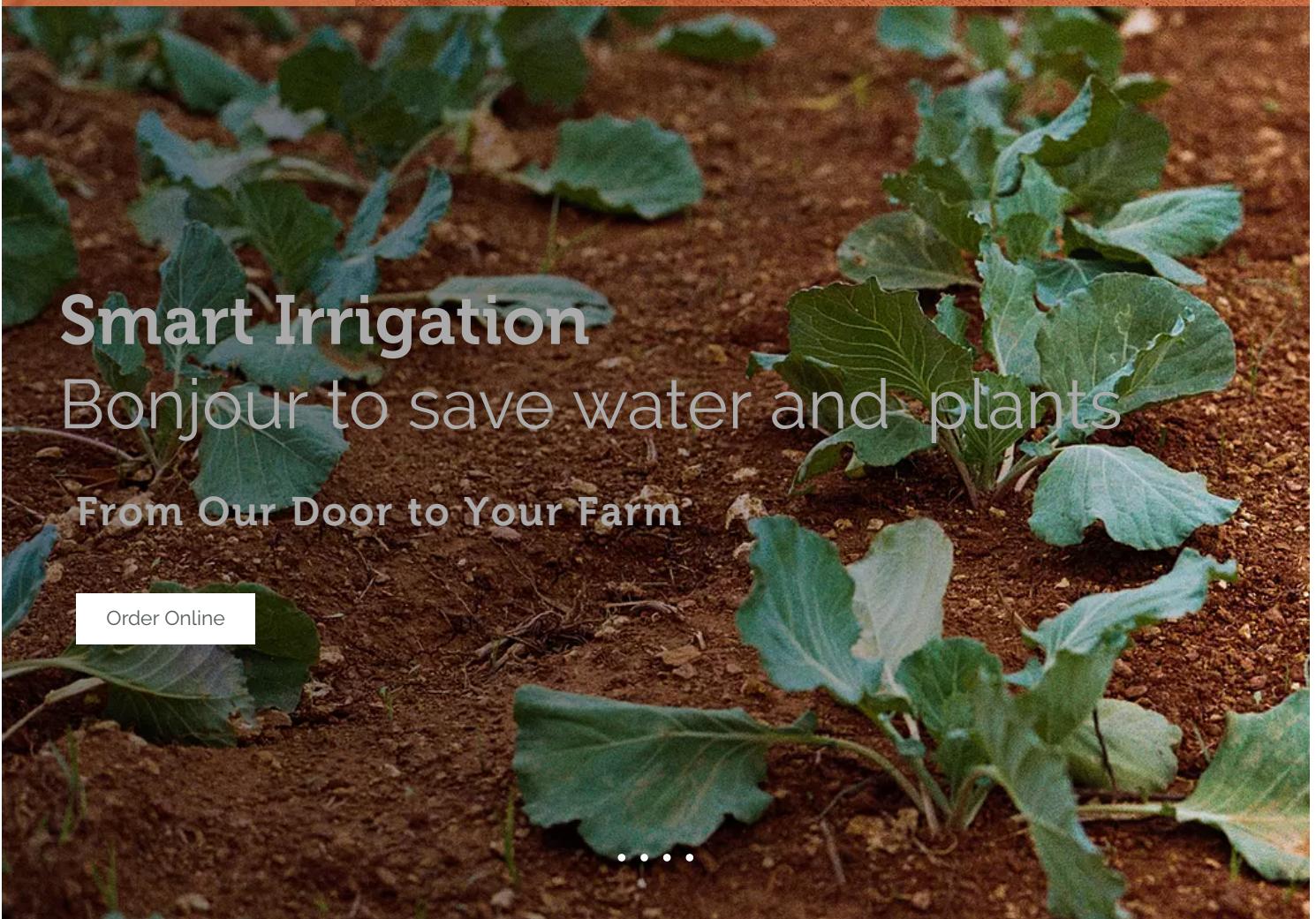
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# Smart Irrigation

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### The Mission of the project

Water is a very important part of our environment. It is found covering nearly three quarters of the Earth's surface. It is fun to splash in and it is also needed for life. In fact, we can survive much longer without food than without water to drink. Every living thing needs water. Without it, plants and trees will not grow; fish, clams, dolphins and other aquatic life will have nowhere to live; and animals like otters who find their food in the water will



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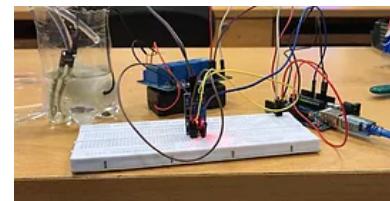
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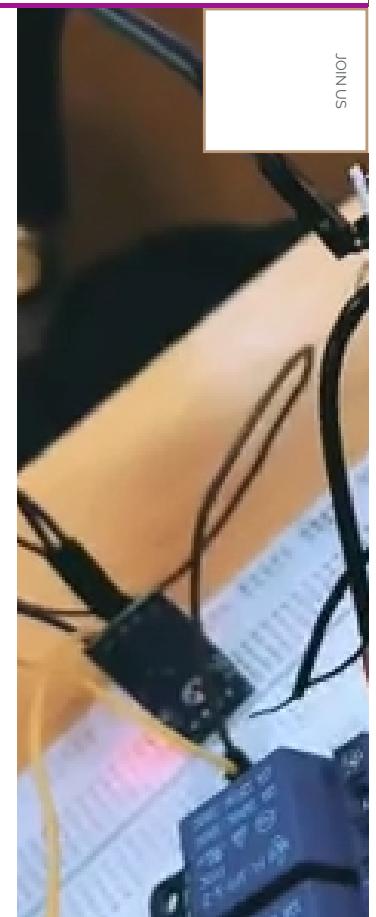
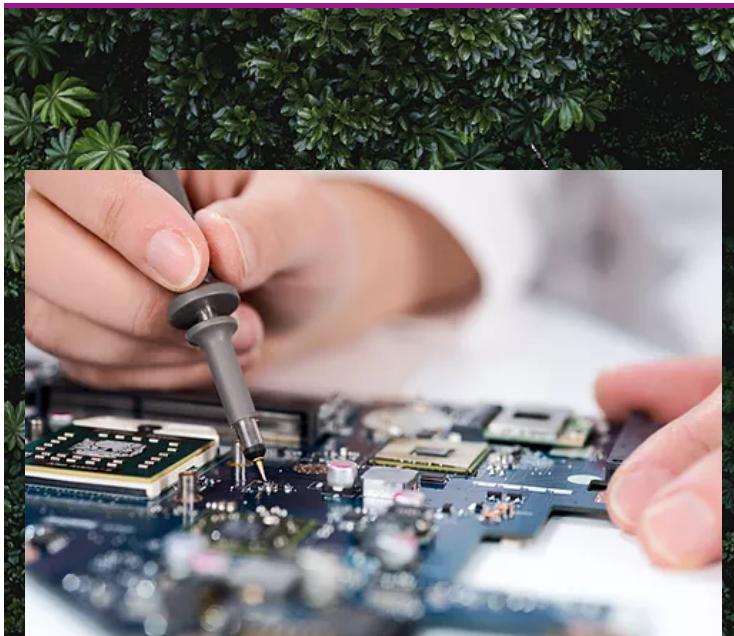
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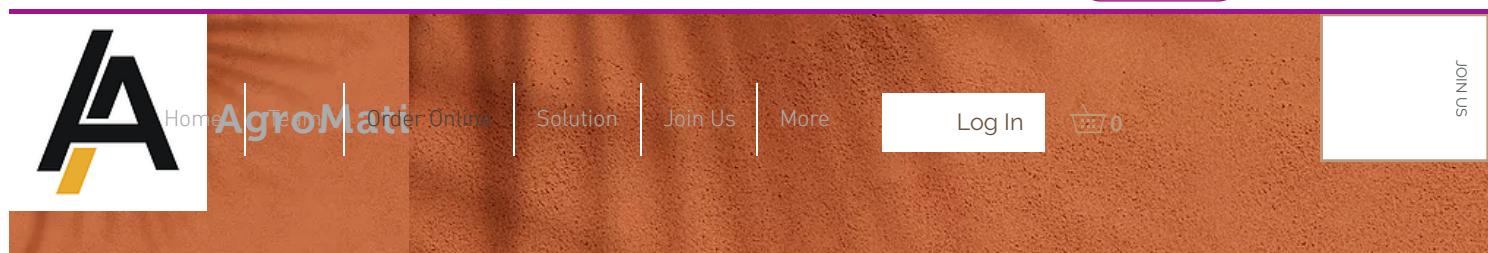
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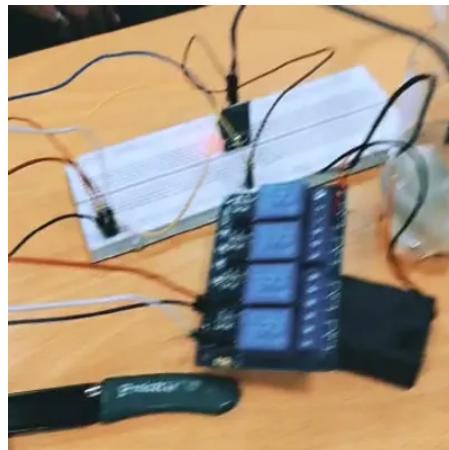
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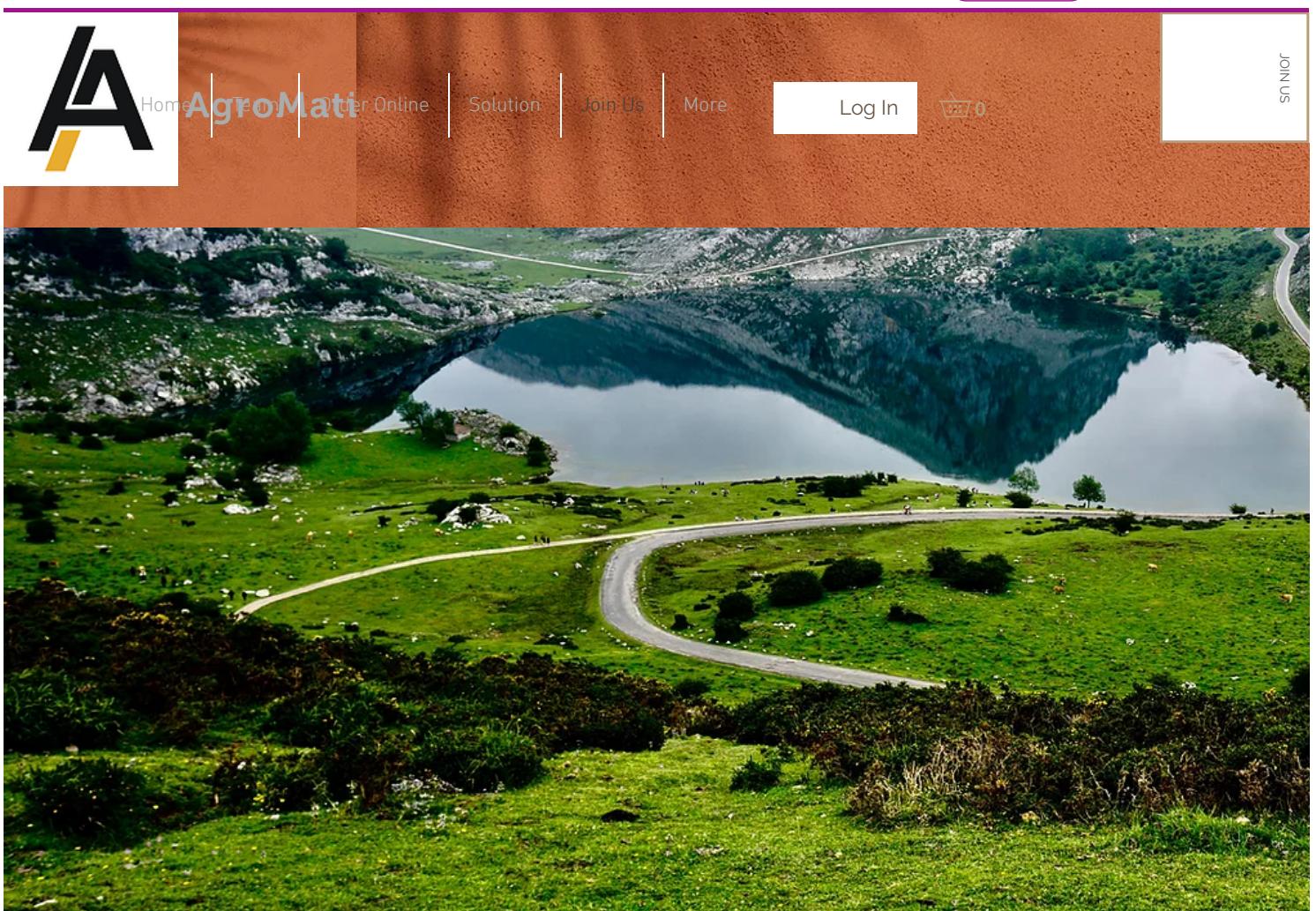
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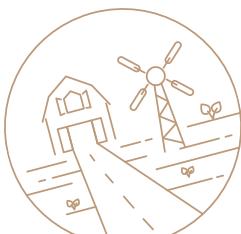
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