



Bergius Botanic Garden and Edvard Anderson Conservatory

Background:

The 7 hectare garden, located outside Stockholm Sweden, was founded in 1885. It is today primarily a research institution at the Royal Swedish Academy of Sciences. Separated from the garden but still in the very close proximity is the Edvard Anderson Conservatory.

In both locations an old irrigation system was present with a total of 32 valves. IRRIOT was asked to wireless retrofit irrigation automation at both sites with separate controllers.



Legend



Controller - 2pcs



RTU 2.2 - 16pcs.



Ext. antenna - 1pc.



Soil moisture - 2pcs.

Cloud subscriptions - 2pcs.

Item:	Number of items:	Price per item:	Total Cost :
Controller	2	1600	3200
Antenna	1	150	150
RTU-2	16	375	6000
Installation kit	16	25	400
WiFi dongle	2	200	400
IRRIOT Cloud	2	180	360
Soil moisture sensor	2	90	180
Installation (hours)	6	70	420
Wifi dongle		Total cost (EUR):	11110

Comparison if the system would be automated with wires*:

Item:	Number of items:	Price per item:	Total Cost :
Lease of plow (per day)	8	250	2000
Transport of plow	2	800	1600
Plow work (hours)	64	70	4480
Restoration of ground	16	70	1120
Controller	2	700	1400
Extension for 6 stations	3	200	600
Cable (with 7 conductors)	900	3.5	3150
Cable (with 12 conductors)	600	7.6	4560
Transport of cables	1	300	300
Soil moisture sensor	2	250	500
Installation (hours)	30	70	2100
		Total cost (EUR):	21810

* This comparison has been done with a well known international brand. All prices for work and hardware are provided by a Swedish irrigation installer.



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