The REAL Smart Garden is a system that interconnects sensors and machines (lawn mowers, scarifiers, seeding / fertilizing machines and sprinklers) to autonomously cultivate lawn.

Sensors measure height and dryness of the lawn. Depending on measurements and user configurations, the lawn is mowed and/or watered. The area is bounded via integrated GPS sensors. The position of the machines can be viewed on a map display.

Furthermore, filling status of seeds and fertilizer can be monitored in the application. If configured, seeds and fertilizer are automatically ordered if a predefined threshold is reached. Additionally, working hours for the machines can be configured. Lawn mower and scarifier are emptied automatically if full.
Peter
Hobby Gardener

„I am a passionate hobby gardener, but I need more time to care for my plants and vegetables instead of cultivating the lawn every day“

About

• 65 years old, married, retired, passionate hobby gardener
• I have a rural cottage with a huge garden consisting of lawn, plants and vegetables.
• I like to care for plants and vegetables, but currently need much time to cultivate the lawn instead.
• Though I am still in good shape, I am not getting younger anymore and need to pace myself.

Responsibilities

• Water lawn, plants & vegetables
• Seed and fertilize lawn
• Order new seeds and fertilizer
• Cultivate my garden in general

Main Goals

• Keep surroundings of my house well-tended
• Cultivate plants and vegetables for own needs
• Having fun with my hobby. 😊

Needs

• I need some help to speed up the lawn care
• I need more time to cultivate my plants and vegetables
• I need somebody to tell me when seeds and/or fertilizer are out (or ideally reorder new ones automatically)

Pain Points

• Caring for the lawn takes way too much time
• Every time I want to seed or fertilize the lawn, seeds or fertilizer are out.
• The machines to cultivate the lawn are too heavy to handle and carry.
Point of View

As a Hobby Gardener

I need a way to automate the process of mowing, scarifying, seeding, fertilizing and watering my lawn.

so that I have more time to cultivate my plants and vegetables.

Point of View

As a Hobby Gardener

I need a way to automate the process of ordering new seeds and fertilizer.

so that I am never out of stock when I need to seed or fertilize my lawn.
### ACTIONS
- Gather equipment (hose, lawn mower etc.)
- Mow lawn
- Scarify lawn (optional)
- Empty collecting tray(s)
- Spread seeds and fertilizer (optional)
- Water lawn
- Clean up equipment

### MINDSET
- “I have to carry this heavy equipment again”
- “So much work still to do”
- “Mowed the lawn at least”
- “Still a lot of work to do”
- “Such an awful amount of work to get an evenly growing lawn at the end”
- “Would there only be some rain, so I could skip this step.”
- “Lawn is done again, finally”
- “Let’s care about flowers and vegetables”

### FEELING

### TOUCH POINTS
- Garden Hose
- Lawn Mower
- Scarifier
- Fertilizer (opt.)
- Seeds (opt.)
- Equipment
- Storage Box
- Lawn Mower
- Scarifier
- Fertilizer (opt.)
- Seeds (opt.)
- Equipment
- Storage Box
- Garder Hose
- Lawn Mower
- Scarifier
- Fertilizer (opt.)
- Seeds (opt.)
- Equipment
- Storage Box
Lawn Mower 1

Husqvarna AUTOMOWER® 220 AC

Connected

On
Cutting Height: 6cm

Battery Status
90%
Feb 17, 2017 00:00:00

Battery Status
90%
Feb 17, 2017 00:00:09

Notifications (4)
- Battery is full
- Lawn mowing finished

Feb 15, 2017

Peter Miller, Example Street,
Example City, US