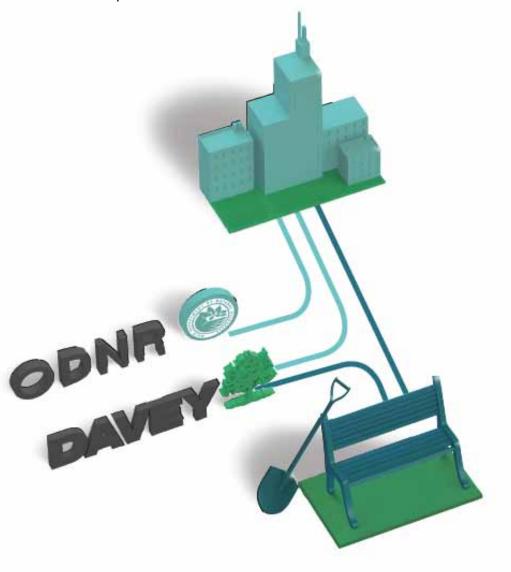


The Proposed System

Utilizing the wood chips & chunks to make gardening supply and sell it to community gardens with discounted price.



Urban Farming

A national, well-connected community gardening organization. Partnership means quicker program launch and effortless public relations.

Education Consultation



Empowered People Appreciative Public

Discounted Products

Gardening supplies produced out of the raw materials can be offered at a discount to community gardens.

Wood Chips & Chunks



Gardening Supplies

The Product Development-Brainstorming

Thinking about the process of forming wood chips into products, also thinking about the usage and importance of gardening.



The Product Development-Research

Community Gardens in USA. They offer classes and trainings on a regular bases. They have residents volunteers, both adult and youth. They also involve with local schools.



1744

Average people involved in community garden each year



62 millionAverage pairs of knee pads will be use each year



36,855 tons

Average tons of mulch being use to produce knee pads each year

31 million

Average people involved in community garden each year in USA

The Product Development-Research

Manufactures that can turn wood chips into knee pads. Also, the biodegradable adhesive can be used in the process of forming wood chip knee pads.







United States Department of Agriculture Agricultural Research Service







"A strong, moistureresistant adhesive from a combo of cornstarch, polyvinyl alcohol, latex and citric acid."

"That could be a major selling point for wood products companies: indoor air quality that poses less health risk for the workers."

The Product Development-Market Research

Different variety of knee pads on the market, from pants with knee pad, strap on, clip on, and to the simple kneeling pad.



The Product Development-Mock up & Renderings

Focus on the form, usage, comfort, and most importantly it can be dispose after one time use and it is biodegradable.



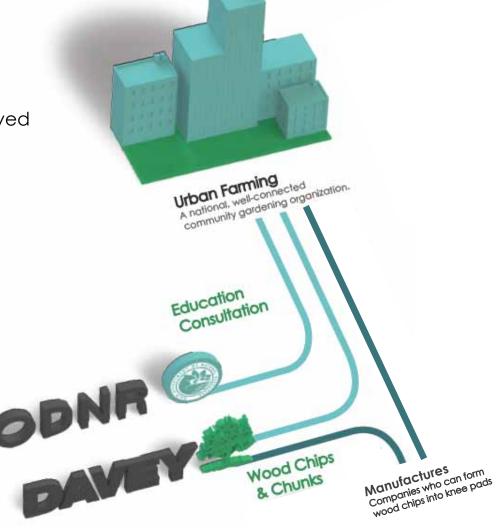
Davey Trees& ODNR Service Design

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Gardening Knee Pads





- Tension fit to legs
- Give cushion to the knees and prevent pants from getting muddy and wet
- One time use knee pads for residents, volunteers, workers, and students who involve in the community garden
- Recyclable
- Biodegradeable
- Can be use as mulch on garden beds



