

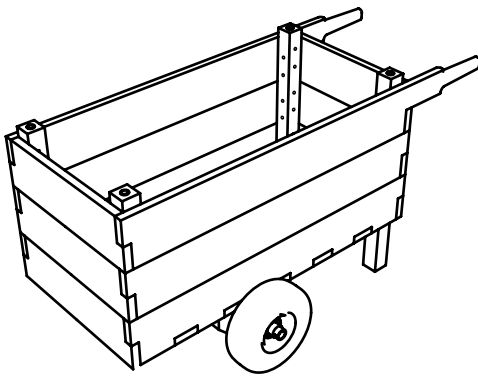
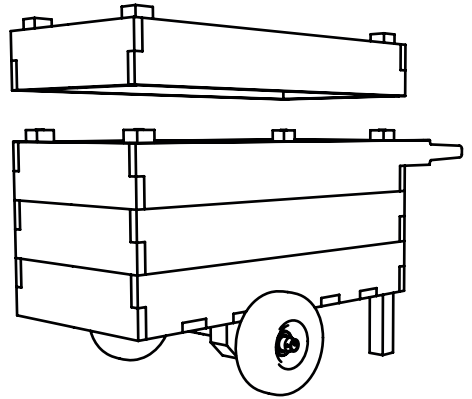
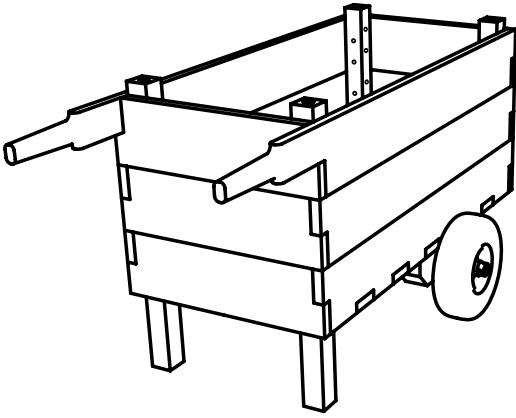


**MA Eco-Social Design**  
Semester 1 // Community Garden Project

## **GROW-CART**

A flexible and adaptable base for a  
growing garden

*A project by*  
*Manuel Immler, Ladina Ingold*



A technical depiction of Grow-Cart from different perspectives.

# ABSTRACT

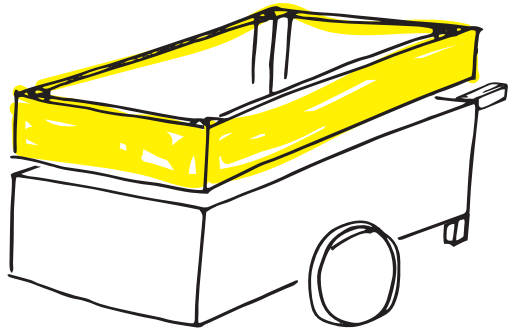
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Vivo Garden is an independent student initiative to bring the people at UniBz closer to the food they consume and make nature visible in the city. The group collaborated with the first year of the Master of Eco-Social-Design to create ideas that bring the garden to life. The garden will be built inside one of the yards, where also people not related to the UniBZ, pass by. There is a need inherent the group, to spread the word and make urban gardening visible to the public. They also imagine, next to using the garden for their own, to start collaborations with schools or kindergartens to share the joy and relaxing effects a garden can have with young people.

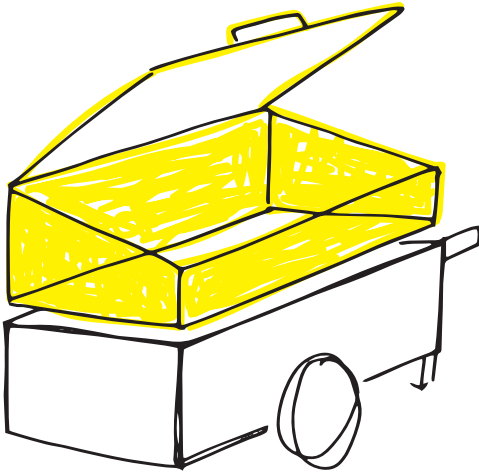
Therefore the project requires a wide range of considerations. Besides providing enough sun and water and shade to the beds, composting and growing up small plants is required. In addition to that, a strategy is needed, how to communicate and present the garden for creating attention both inside and outside the university.

Our contribution to the project should tackle multiple issues at once. The gardeners have many diverse needs for their plants and beds. They also want to get more beds over time. Therefore we planned on building a very flexible bed, that everyone can build on their own and also adapt it to their needs. As the garden itself is very flexible and even might move, for example for advertisement reasons, we decided to make the bed itself moveable. The outcome is an easy-to-build high bed on wheels called Grow-Cart.

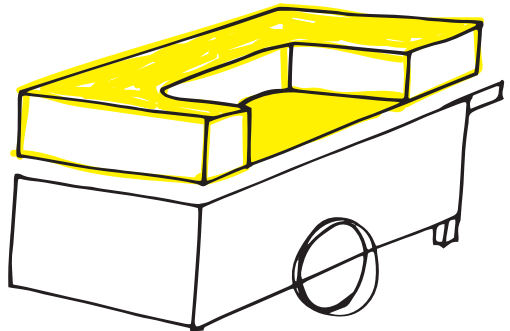
# ADAPTABLE AND FLEXIBLE



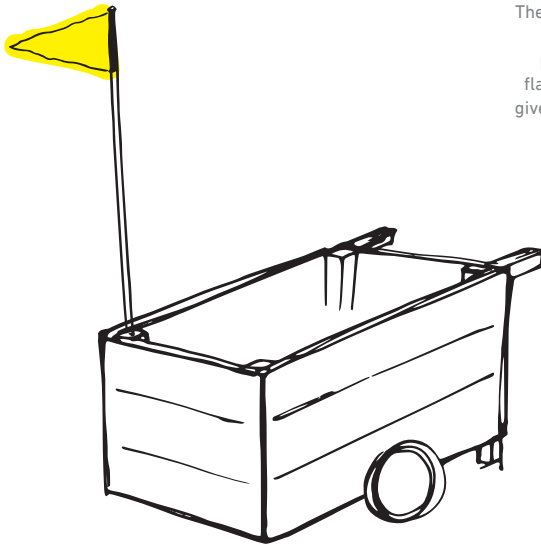
Different plants require different soils. If they want to go deep, fit another frame on top and even potatoes and pumpkins are happy to grow there.



When it's not warm enough outside to start planting yet, a greenhouse comes in handy. A transparent roof of your own design makes your greenhouse complete.

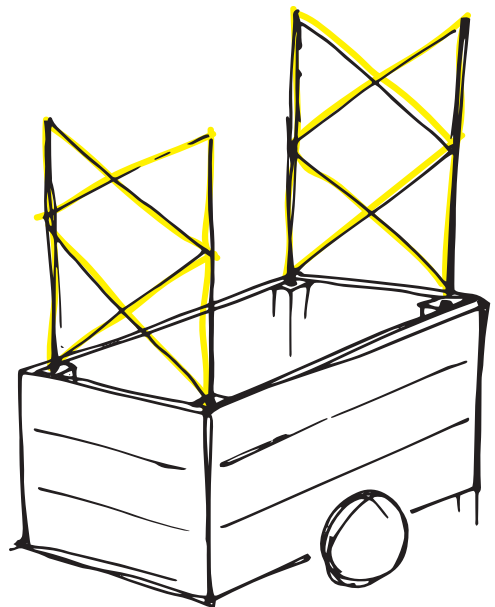


Do you want to spend more time with your flowers and veggies? As the garden is also a place where you like to hang out and eat lunch or just relax, the bed can be extended by a seat. Especially in summer you can place it at a shady corner or have a break after gardening.



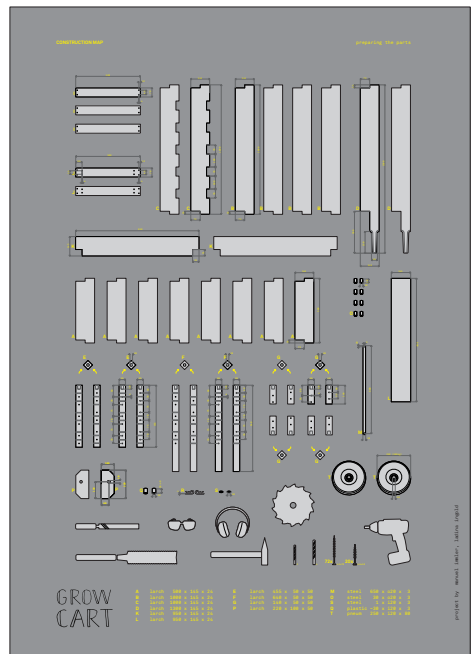
The metal pipes for the various adapters allow you also to decorate it in a personal way. Simply by plugging in a flag with your own design or name on it gives the grow-cart your individual style.

Vegetables or fruits that like to climb high need a support. Grow-Cart makes it easy to attach such a structure. Growing climbing plants like wine or pumpkin gives a garden a very special atmosphere. If you want to go wild, even a Pergola is possible.



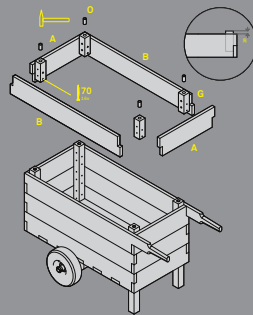
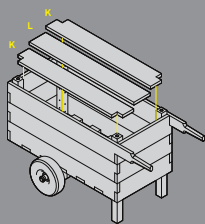
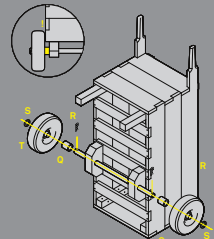
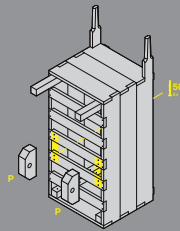
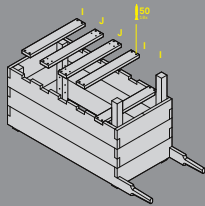
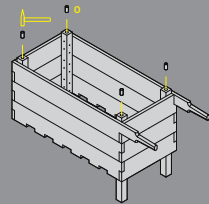
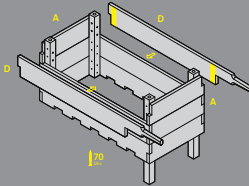
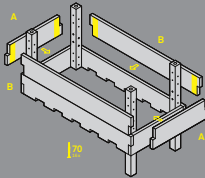
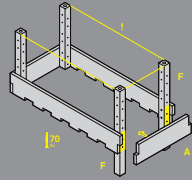
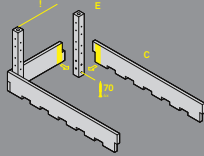
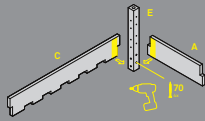
# OPEN SOURCE

The additional booklet contains all necessary information so that everyone could build its own Grow-Cart adapted to its needs. It includes a map showing step by step how to build the base with an adapter. Apart from the machines no additional know-how is requested.



CONSTRUCTION MAP

assemble the cart



Grow-Cart

To start your very own urban garden you can build an upgraded bed using basic materials and tools. The Grow-Cart is made of larch wood boards, which are very durable even while being exposed to water. Using a few repetitive cutting and drilling operations and other simple tools a flexible bed can be constructed in a few hours.

This construction map explains all the steps and tools you need to build your own Grow-Cart.

GROW  
CART

## Keywords

Community, Co-Design, Co-Production, Open Design, DIY, Dealienation

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Werner Stefano Villa (Digital Design & Fabrication)

Sabina Frei (Moderation & Participation)

## Time Span

17. October 2016 – 17. November 2016

## Partners

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VIVO Garden group (Student Initiative unibz)

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