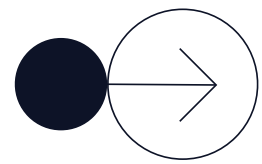




# Skating for Future generations

Creating Skateistan in a Box focusing on  
Usability and Circularity





Industrial Design, Concept Development, User Research, Planet-centric Design, Modular System Design, Product Development, Circular Material Sourcing

# Empowering children through skateboarding and education

Skateistan is an award-winning international non-profit organization which empowers children through skateboarding and education in Afghanistan, Cambodia, and South Africa. By combining skateboarding with creative, arts-based education, they give children the opportunity to become leaders for a better world. Their focus is on groups who are often excluded from sports and educational opportunities, especially girls, children living with disabilities and those from low-income backgrounds. Skateistan provides safe spaces where children can have fun, build their skills and confidence, and break down social barriers by making new friends.



PHOTO BY NADA HANIFAH





**Working with Indeed** was a fantastic experience. To create our new and innovative 'Skateistan in a Box' concept, we wanted to work with the best in design and that's what we got. Indeed's numerous workshops and co-creation process including our team in South Africa, Afghanistan and Cambodia really helped us to define exactly what was needed. During the sessions not just the concept but also our vision of what could be possible for Skateistan in a Box came together extremely well. The experience really exceeded our expectations.”

**cool!**

OLIVER PERCOVICH  
- FOUNDER & EXECUTIVE DIRECTOR OF SKATEISTAN







# Skateistan in a Box

Skateistan in a Box is part of Skateistan's expansion strategy which is based on a flexible, local-first approach which can be adapted, scaled and tailored for differing needs and locations. This approach aims to take into account:

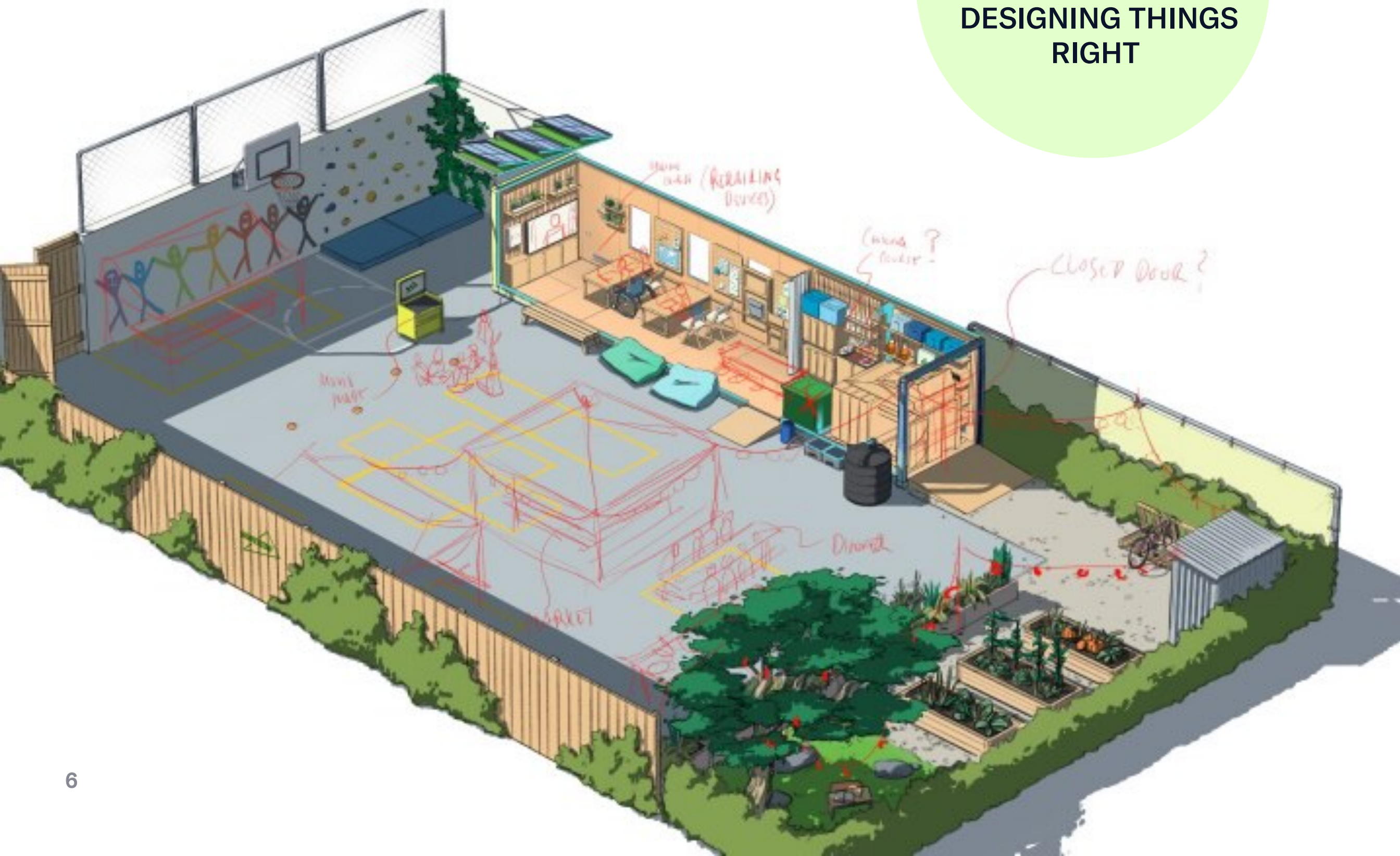
- the needs of a local community
- the support systems and organizations already in place
- the customs and culture of a given location
- the specific geographical and educational context.

An expansion location could potentially go through each level of expansion. However, any combination of the expansion levels can also be applied to locations and contexts, as appropriate.

Through Skateistan in a Box, communities in any location can easily access the resources and support to deliver Skateistan's award winning educational programming.



DESIGNING  
THE RIGHT THING  
-  
DESIGNING THINGS  
RIGHT



# Usability & Sustainability

Many colleagues contributed to the first and second research to meet our goal of a multifunctional, accessible, go easy on resources and durable Skateistan in a Box.

The mandatory readiness for special weather conditions, uncertain social settings and differentiating use case scenarios over time, made us think about every single item and shaped each decision during the design development. Thanks to the insights from Skateistan, we were able to create a solution beneficial for people, planet and prosperity.





Each school will be equipped with solar panels or wind turbines for energy supply, rainwater collectors and dry compost toilets.

The facility aims to produce the minimum waste. But where it's unavoidable recycling bins and systems are installed. Even waste water can be recycled in the gardening section.  
A double roof with greenery collects water better and reduces temperature.

# Sustainability

- Off grid utilities
- Modular venue

Plant boxes are a suitable way to garden on barren land and more ergonomic for the elderly.



# SOLUTION



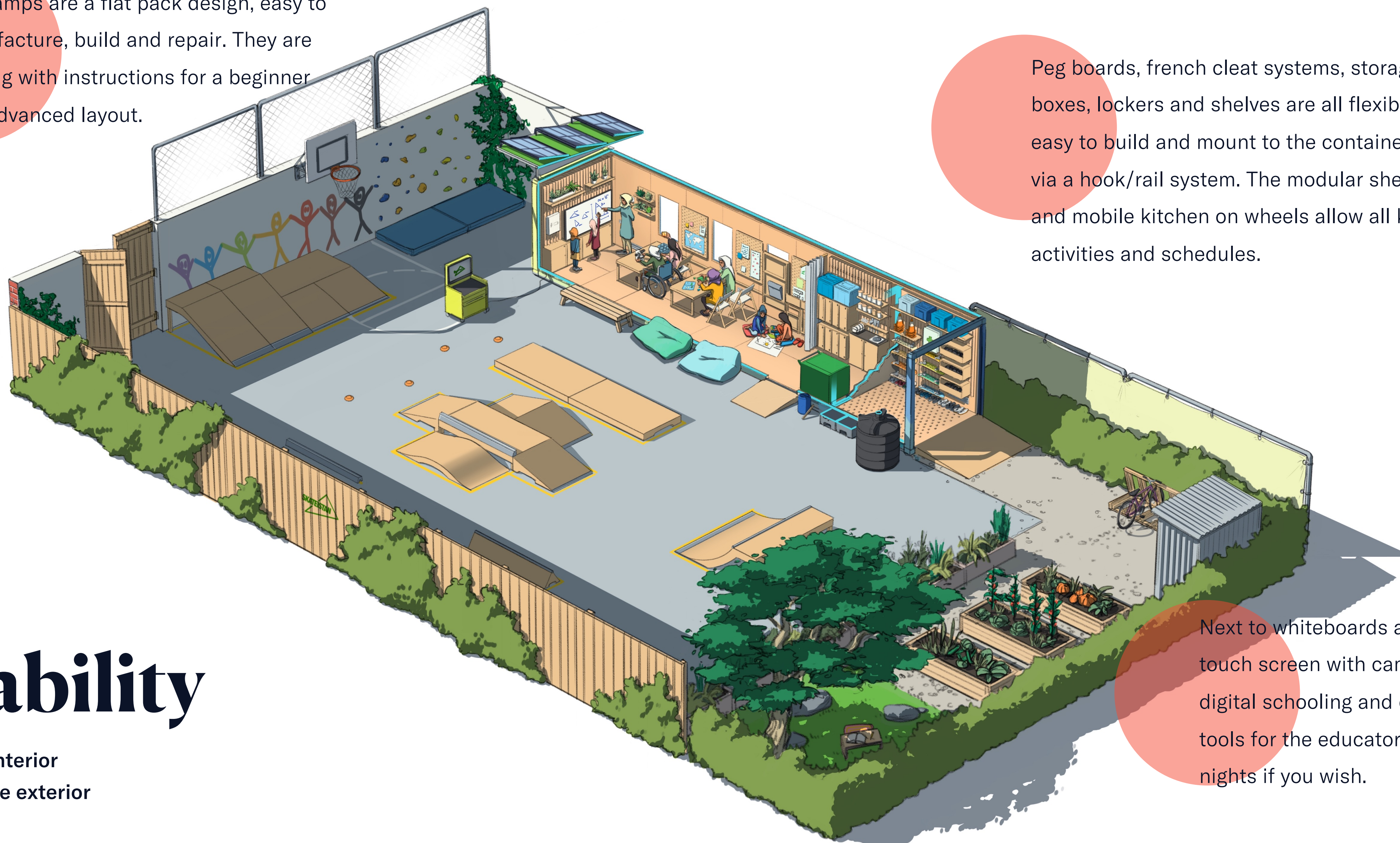
The ramps are a flat pack design, easy to manufacture, build and repair. They are coming with instructions for a beginner and advanced layout.

Peg boards, french cleat systems, storage boxes, lockers and shelves are all flexible and easy to build and mount to the container walls via a hook/rail system. The modular shelving and mobile kitchen on wheels allow all kind of activities and schedules.

Next to whiteboards a mounted touch screen with camera allows digital schooling and conferencing tools for the educators. And cinema nights if you wish.

# Usability

- Flexible interior
- Adjustable exterior





**Usability and Sustainability** served as a signpost, when it came to converging ideas from our colleagues and Skateistan, while the input from University Campania related to biomimicry helped diverge our views to open the concepts.

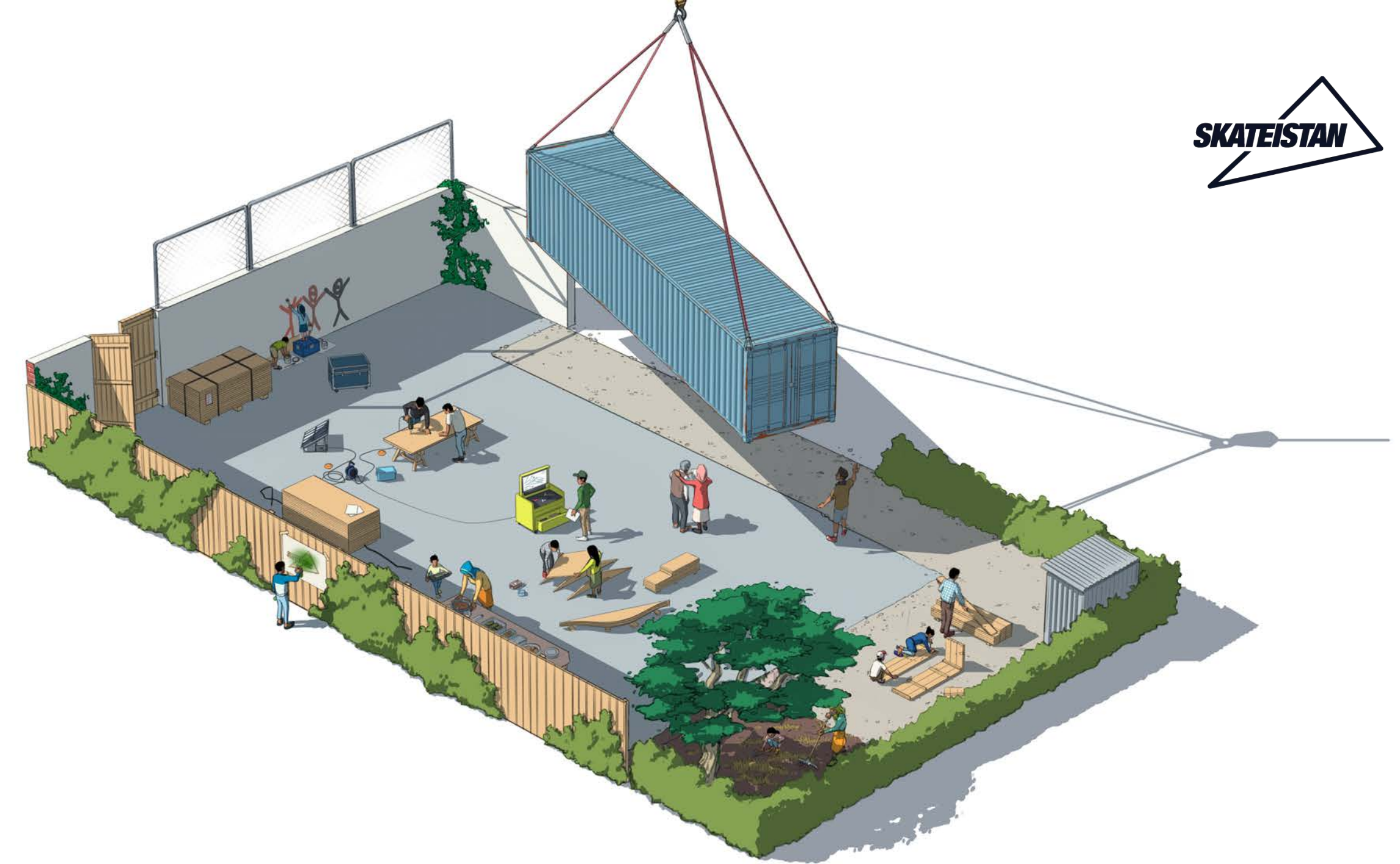
NISARG ACHARYA  
- INDEED INNOVATION



# What makes the box special?

Skateistan in a Box utilizes an upcycled shipping container, using cork for insulation and noise damping as well as canvas lightshades on roof to reduce echo. The starter box provides ramps, instruction manuals and guidelines on how to build the flexible interior from local, renewable materials.

All you need is 200 sqm levelled ground - preferably next to an enclosing wall for protection and to mount sport equipment. Each container is modular and can be transported over rough terrain. In case of an emergency (bombing, sandstorms, flood or fire), the container can be easily packed and moved.





# A multifunctional space for education and sports

Each school is equipped with solar panels or wind turbines for energy supply, rainwater collectors and dry compost toilets. A double roof with greenery collects water better and reduces temperature. The facility aims to produce the minimum waste. But where it's unavoidable recycling bins and systems are installed. Even waste water can be recycled in the gardening section.

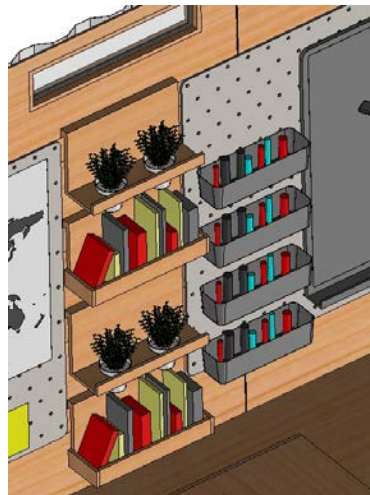
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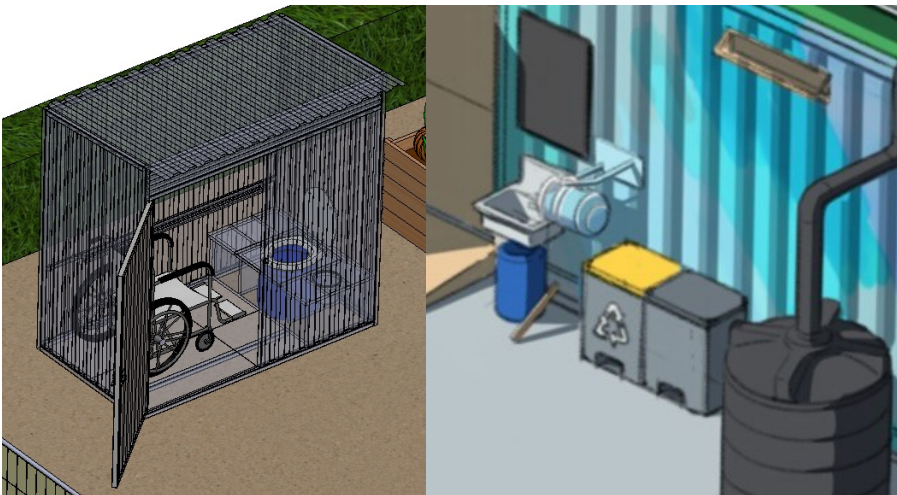
**Battery mobile AV unit with tools**  
Virtual training reduces the need for more Skateistan people to travel on site



**Wheel Chair Accessibility**



**Modular Shelving**  
to do whatever you want



**Sanitation/Waste Management**  
Compost Toilet to garden, Tippy Tap for hygienic hand washing, and recycling



**Modular Tables**  
folding and left/right sliding



**Lightweight shipping**  
Boxes from Skateistan at minimum shipment costs



**Skateistan in a Box** is a pretty good example for our daily work: Understanding the needs, decipher the problem, iterate possible solutions, make improvements and then finalize the design, blending aesthetics, functionality and adaptability. Every corner was developed with a purpose, designed to be customized for the community, and sustainable from assembly to maintenance.

FLORIAN HÄTTICH  
- INDEED INNOVATION





# Scan and experience

SKATEISTAN IN A BOX ON YOUR MOBILE



PLANET

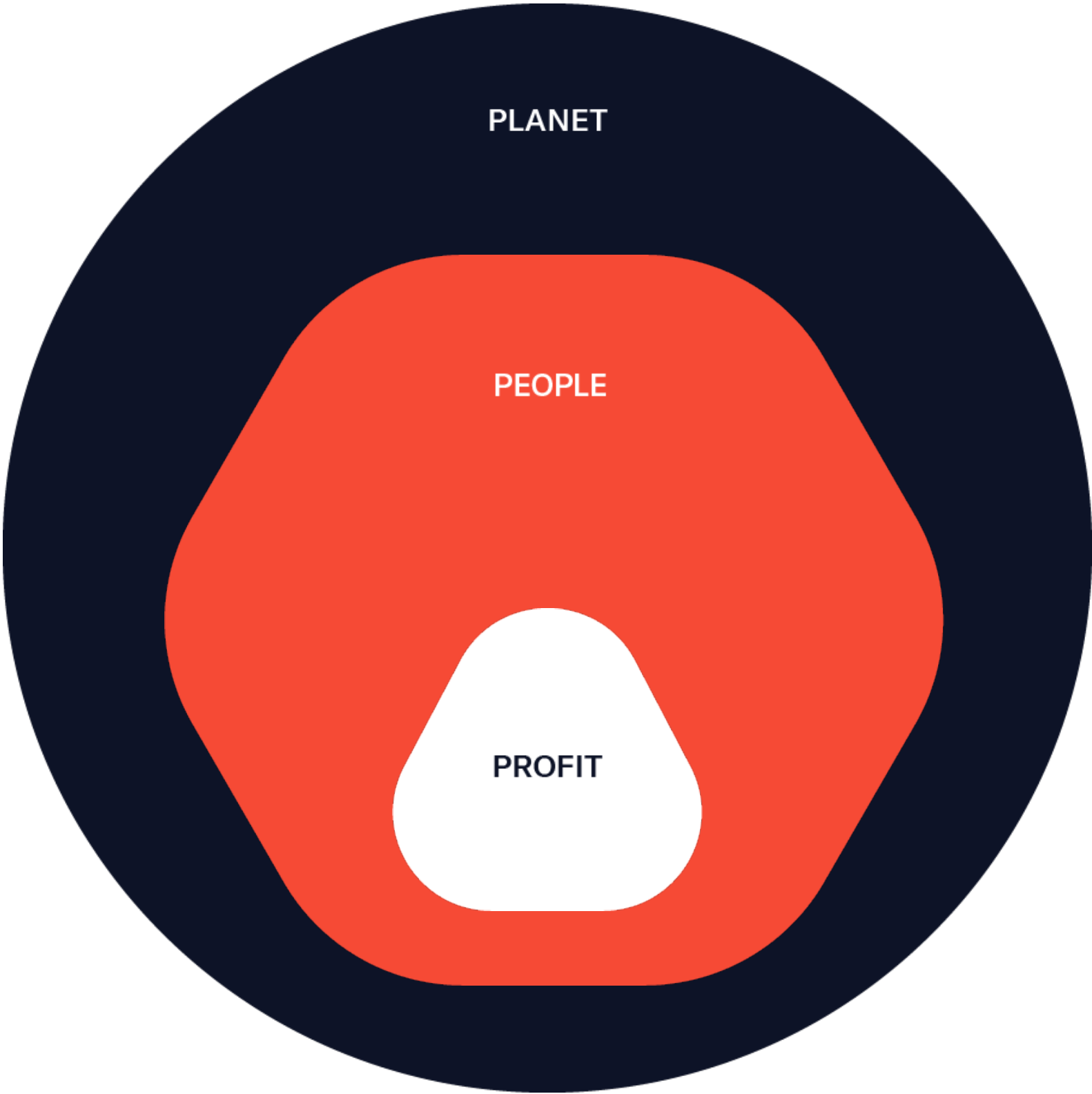
- Minimized material losses
- Saving energy and resources through shorter production times

PEOPLE

- Maximum user-friendly and organized work
- Efficient and proper use of tools avoids physical and mental strain
- Minimized mental load within the logistic chain and at assembly point
- Shorter downtimes caused by human error

PROFIT

- Time saving of the production process by 20%
- Optimized logistics supply chain
- Less assembly loops and reduced down times





# INDEED

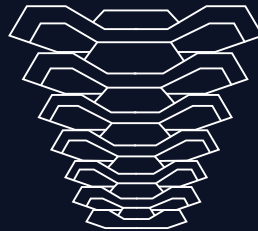
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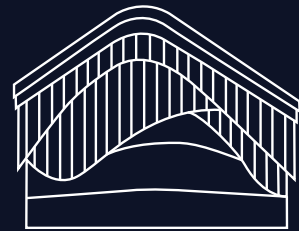
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