



**5 - 6 DECEMBER 2022**  
DUBAI WORLD TRADE CENTRE

## **HOW SUSTAINABILITY, HEALTH & WELL-BEING GIVES FORM TO ARCHITECTURE OF TODAY**

Arjan Pit - Managing Director MEA / Senior Architect  
**UNStudio**



**Architecture  
& Design**



# UNS

## UNSTUDIO

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# United Network Global Studio

**UNStudio**

UNStudio was founded in 1988 by architect Ben van Berkel and urban planner Caroline Bos. Ever since the studio has been growing, from a small Dutch office into a global architectural design network with four international full service offices in Amsterdam, Hong Kong, Paris and Shanghai. We operate across all disciplines from architecture, interior design, product design to urban infrastructure.

United Network Studio



- 250+ experts**
- 6 studios
- 4 regions**
- 140+ built projects
- 17 projects under construction
- 90+ projects in design
- 75+ awards won

**Founded 1988 in Amsterdam by Ben van Berkel & Caroline Bos**

## Amsterdam

founded in 1988  
230 staff

## Shanghai

established 2009  
50 staff

## Hong Kong

established 2014  
15 staff

## Frankfurt

established 2018  
10 staff

## Dubai

established 2020

## Melbourne

established 2021





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## Everything Architecture

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We spend **90%** of our time **indoors**\*

\*[The National Human Activity Pattern Survey \(NHAPS\): A Resource for Assessing Exposure to Environmental Pollutants](#), by Neil E. Klepeis and others, and published by the Lawrence Berkeley National Laboratory in 2001.

# 3 Pillars of Health & Well-Being

A Guide to Help Inform Programmatic Space within Architecture



01. Physical Health



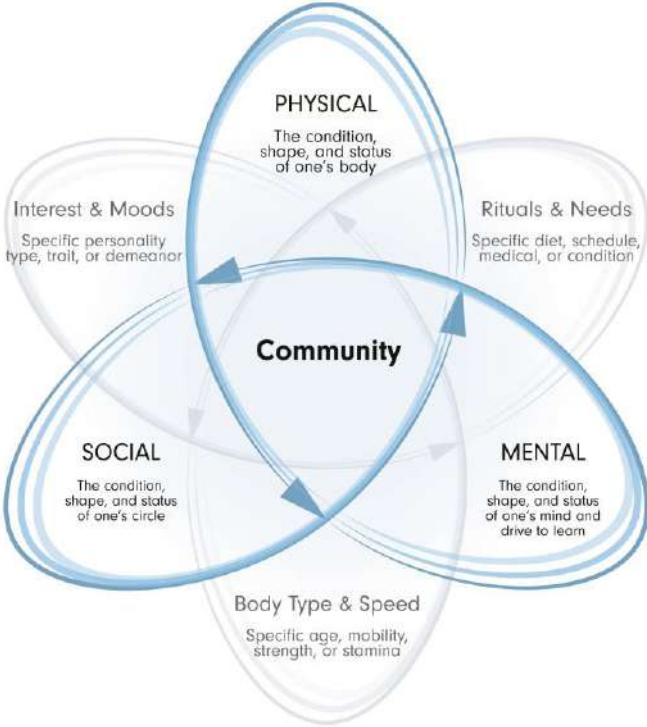
02. Social Activity



03. Mental Health

# Towards Healthy Communities

A Guide to Help Inform Programmatic Space within Architecture





# Towards Healthy Communities

A Guide to Help Inform Programmatic Space within Architecture



Tune in to

Psychological Health



Connect for  
Social Health



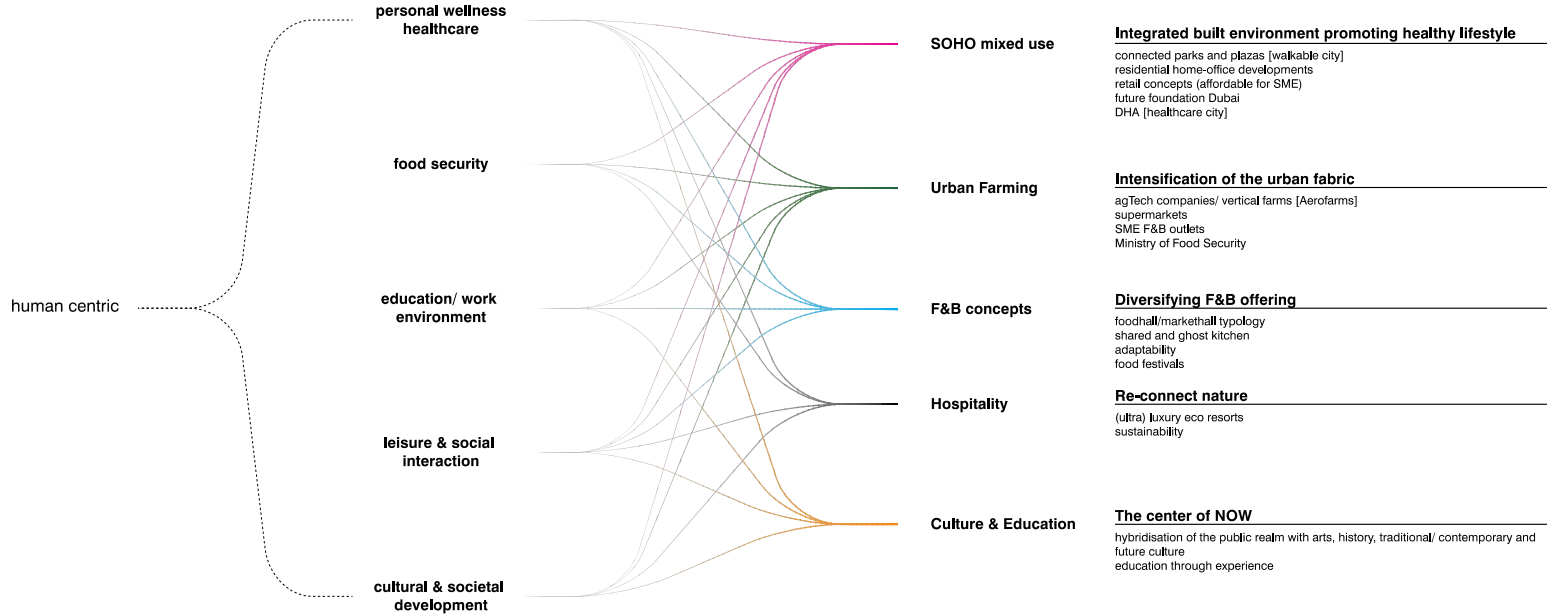
Move toward  
Physical Health



Buildings where we live, work, learn and relax profoundly impact health, well-being and productivity

# Towards Healthy Communities

A Guide to Help Inform Programmatic Space within Architecture



The **future** of  
architecture is about  
designing for positive  
**environmental, social  
& governance** impact

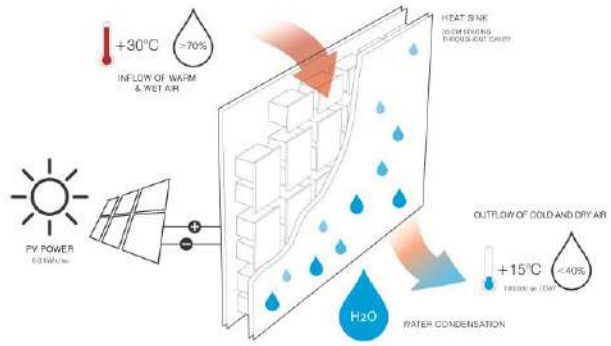
# Ask Questions Beyond Architecture

Buildings as Vessels for Life



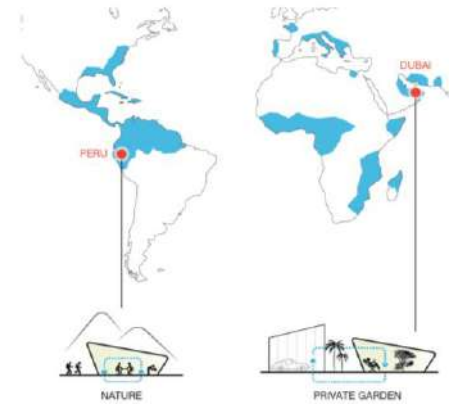
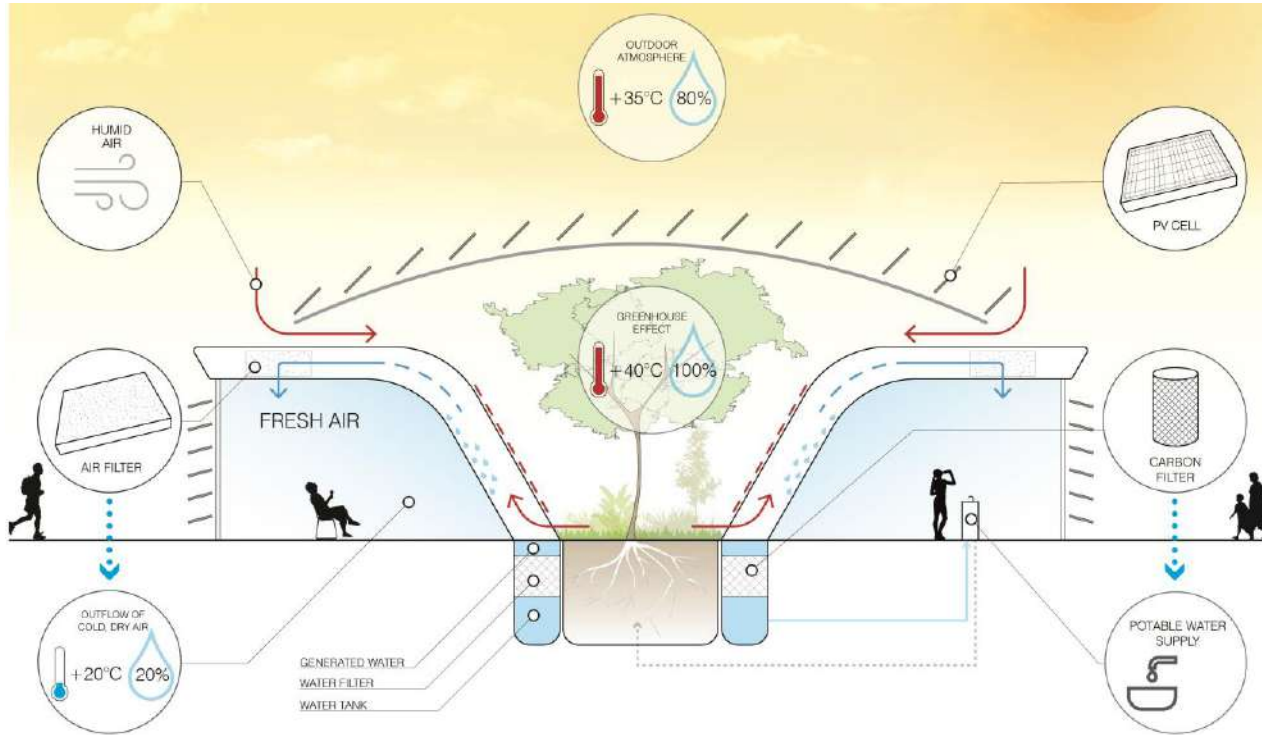
# Ask Questions Beyond Architecture

Buildings as Vessels for Life



# Building Vessels for Life

## Water Generating Pavilion



# Ask Questions Beyond Architecture

The Coolest White



RAL 9016

Coolest White

“By exploring how people live, work, move and interact with **communities, nature and space**, we explore how to create environments that enhance the **human experience** and bring people **together**”





# Future Proof Architecture

How do we Scale Up



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## Dutch/Dubai EXPO 2020 Pavilion

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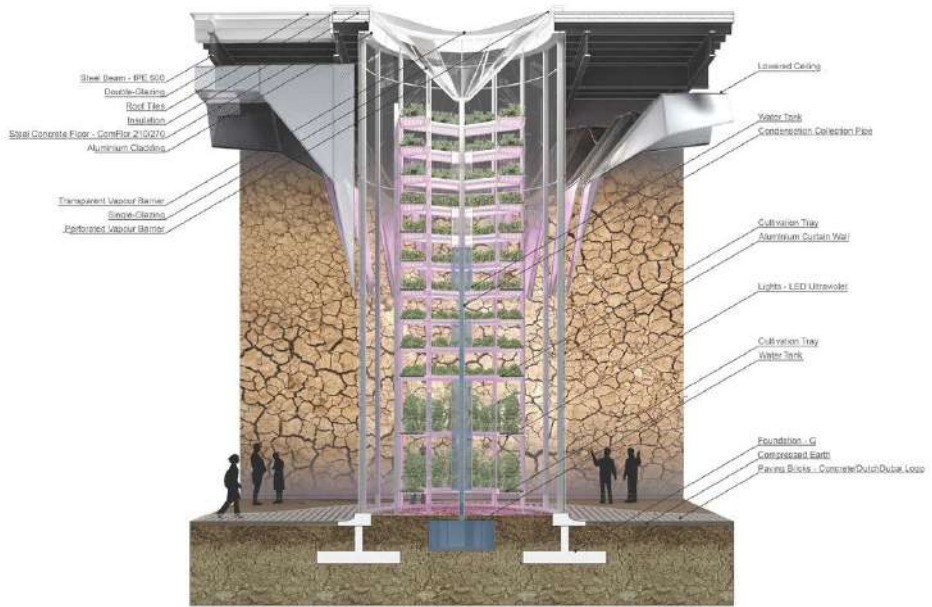
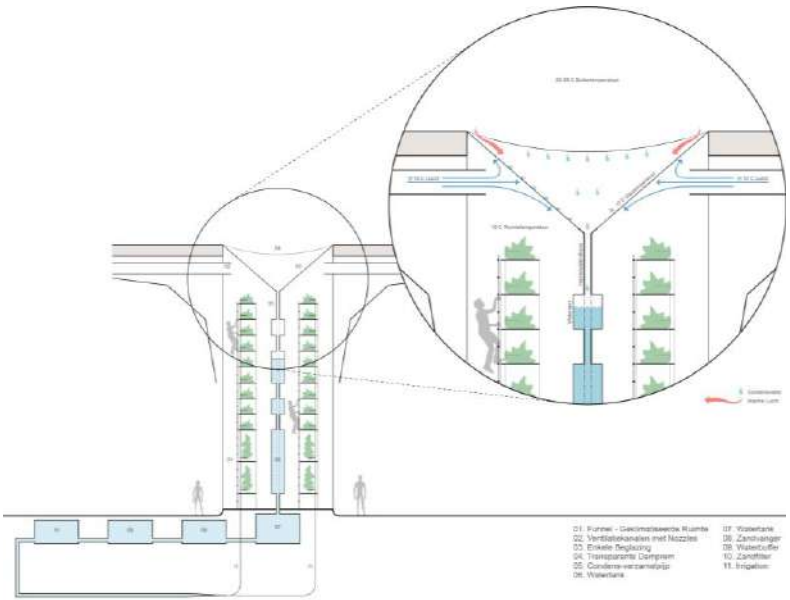
DUTCH  
DUBAI



**More than 80% of the food in Dubai is imported. The Nexus - the central attraction of the pavilion - is an alternative, sustainable solution to living in this landscape.**

# Architecture Becomes the Best of Cultures Coming Together

## Water Generating Pavilion



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## 2020T Wasl Tower

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**“Bringing Cultural  
Sustainability, Health,  
and Innovation  
to the  
Next Level”**

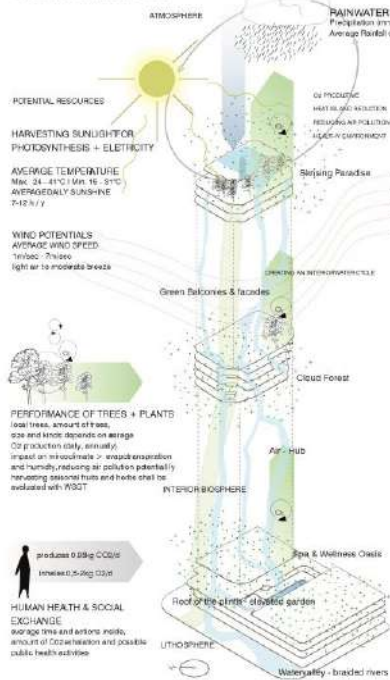




# Sustainability

## Weatherscape

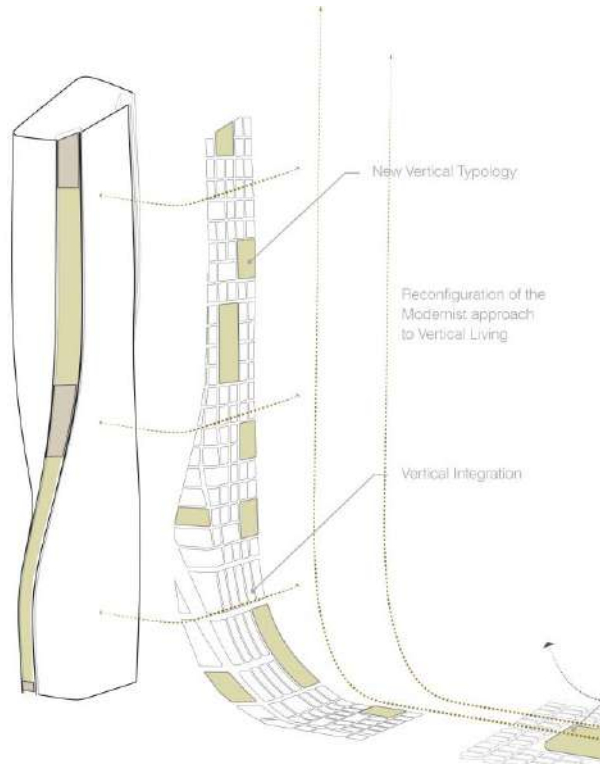
DUBAI 25°16'0" N, 55° 18' 0" E  
HOT DESERT / SUBTROPICAL CLIMATE



**WEATHER FORECAST**

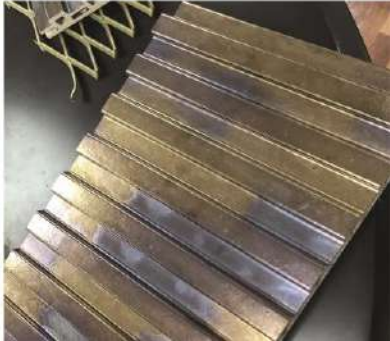
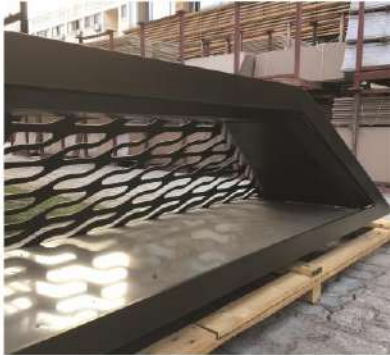
- SERENITY PARADISE**  
Comfort Climate exterior:  
Temperature: 24-30°C  
Humidity: 40-60%  
Fresh tropical fruits, soft & full  
Aromatic TREES: approx. 20 ft  
Vertical Axis: approx. 100 m  
Technical Devices: water | Basin, High pressure nozzles, vertical green walls
- CLOUD FOREST**  
Comfort Climate interior:  
Aromatic built forest, floating in  
ecology, waterfall  
Technical Devices: water fall, no  
Clouds, full resource: Nozzle  
vertical floating forest install

**WATERWAY**  
Proposed Weather Cells:  
Comfort Climate 22-26 °C  
Light breeze, evaporation, green  
Amount TREES including Spa & Wellness & plaza approx. 100 trees per meter  
Low mass atmosphere  
Technical Devices: water/fountain, mist clouds, High pressure performing nozzles



# Sustainability

The World's Highest Ceramic Facade







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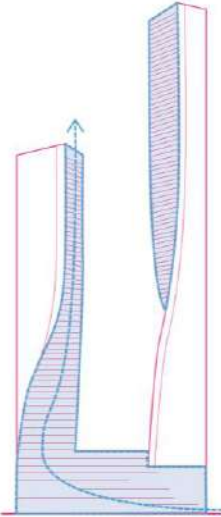
**STH BNK by Beulah**

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# Sustainability

The Green Spine



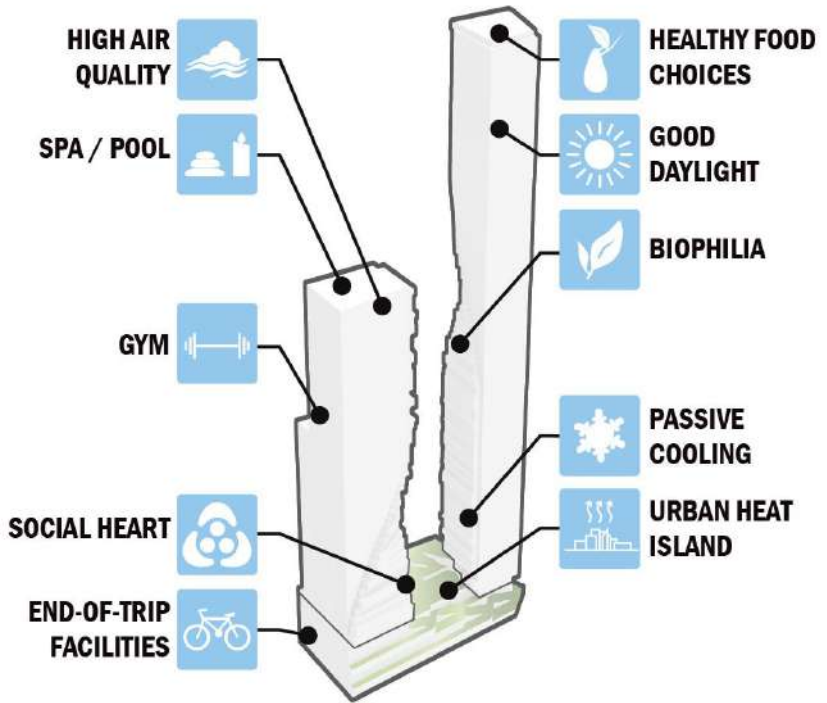
# Community

Public Realm



# Health & Wellbeing

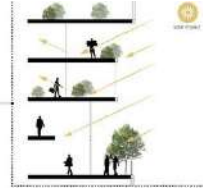
Building Vessels for Life



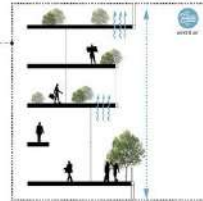


# Façade & Sustainability

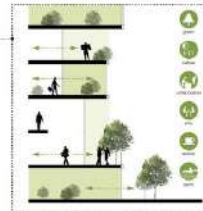
Thermal Comfort, Air Quality, Noise Absorption & Biophilia



THERMAL COMFORT THROUGH DIFFERENT DEPTHS OF SHADE



CANTILEVERS BREAK VERTICAL WINDS AND VENTILATE



UNIQUE OUTDOOR SPACES AND CONNECTIVITY - MULTIPPLICATION OF THE GROUND FLOOR



**STH BNK**

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## FOUR Frankfurt

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# A City within a City

FOUR Frankfurt



# A City for All

FOUR Frankfurt



# A City for All

FOUR Frankfurt



# UNS

Booking.com HQ

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# Fully Integrated Urban Campus

Booking.com HQ





# Fully Integrated Urban Campus

Booking.com HQ



# Fully Integrated Urban Campus

Booking.com HQ



# Fully Integrated Urban Campus

Booking.com HQ



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## ECHO

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# Teaching by Example

ECHO Delft University of Technology



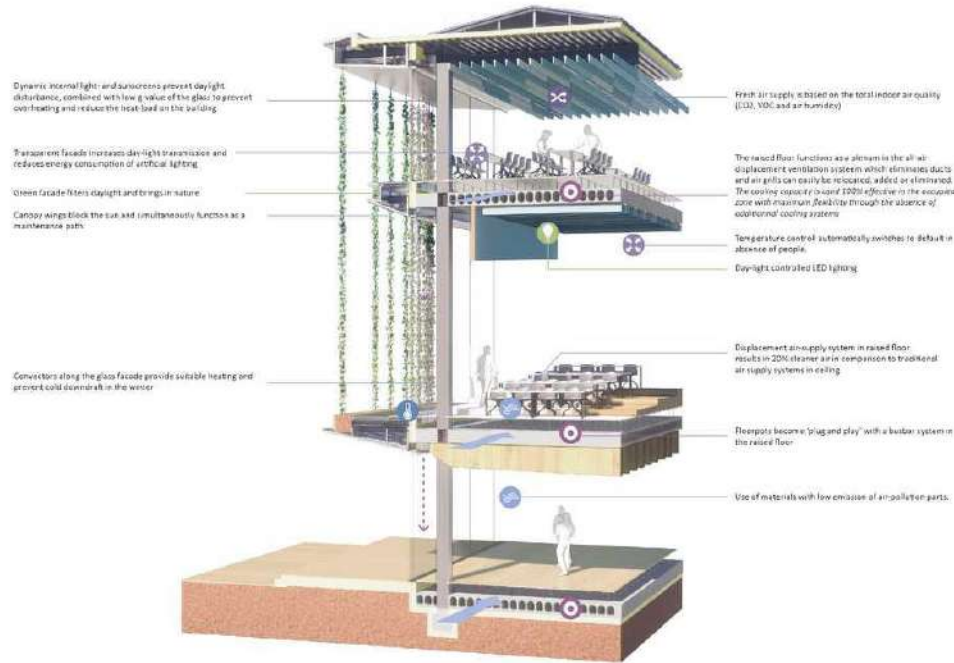
# Teaching by Example


ECHO Delft University of Technology

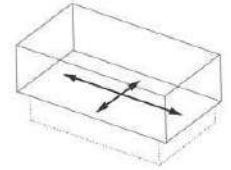



# Teaching by Example

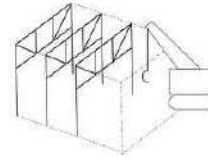
ECHO Delft University of Technology




 Green facade and production of renewable energy




 Flexibility, future-proof by large spans



 Demountable building system with steel structure



 Parametric structural model for digital optimization

# Teaching by Example

ECHO Delft University of Technology





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## Final Thoughts

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UNS  
UNITED  
NETWORK  
STUDIO

Design is about People,





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**THANK YOU**

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