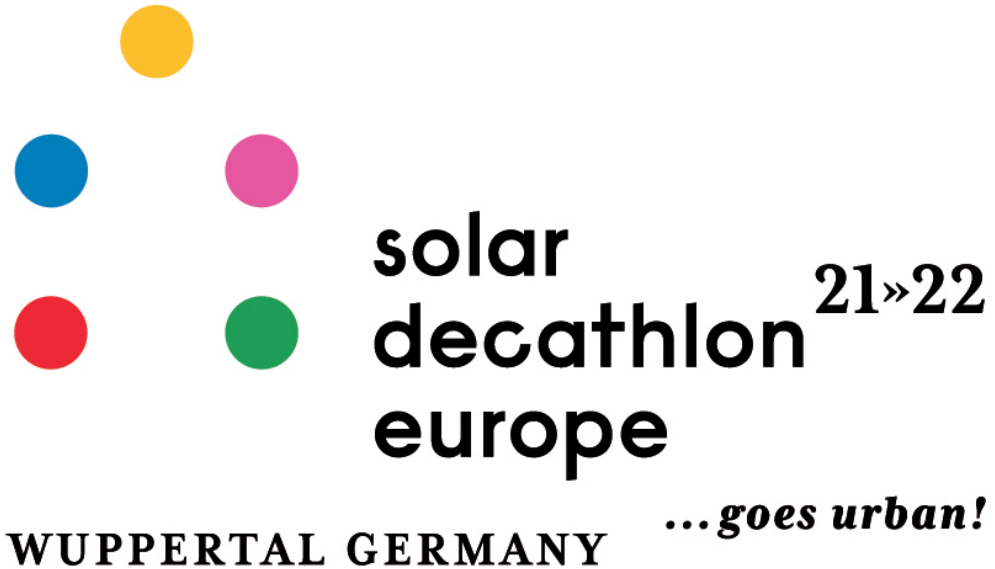




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by the German Bundestag



Solar Decathlon Europe 2021/22

Erfahrungen aus dem internationalen Hochschulwettbewerb



Solar Decathlon

Solar Decathlon



Internationaler Hochschulwettbewerb

- insgesamt 500 – 800 Teilnehmer/innen aus aller Welt
- Entwerfen, Bauen und Betreiben eines ressourceneffizienten Demonstrationsgebäudes
- interdisziplinäre studentische Teams im Zehnkampf
- Verbindung von Architektur, Technologie, intelligenter Energieerzeugung und Innovation

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Solar Decathlon



www.solardecathlon.gov

Solar Decathlon



Solar Decathlon

Energy We
Can Live
With

April/May 2002

Director's Note

I want to thank all the teams for participating in the Solar Decathlon. This competition is one of the hardest challenges ever devised, and yet you are undaunted. You see clearly that the benefits and personal rewards far outweigh the hard work. For that I am truly thankful.

When I first had the idea for this competition in November 1998, I had much trepidation. How could such a complex competition be successful? Would anyone raise their hand and volunteer to participate? Almost a year passed before I had the concept well defined. Telling my colleagues at the Department of Energy and the National Renewable Energy Laboratory about the idea took courage and confidence. Courage because nothing like it has ever been done before and confidence because, before I set forth in earnest, I had to believe we could do this.



Before entering its construction phase, the University of Virginia (UVA) team hosted sessions on building safety. Here, local

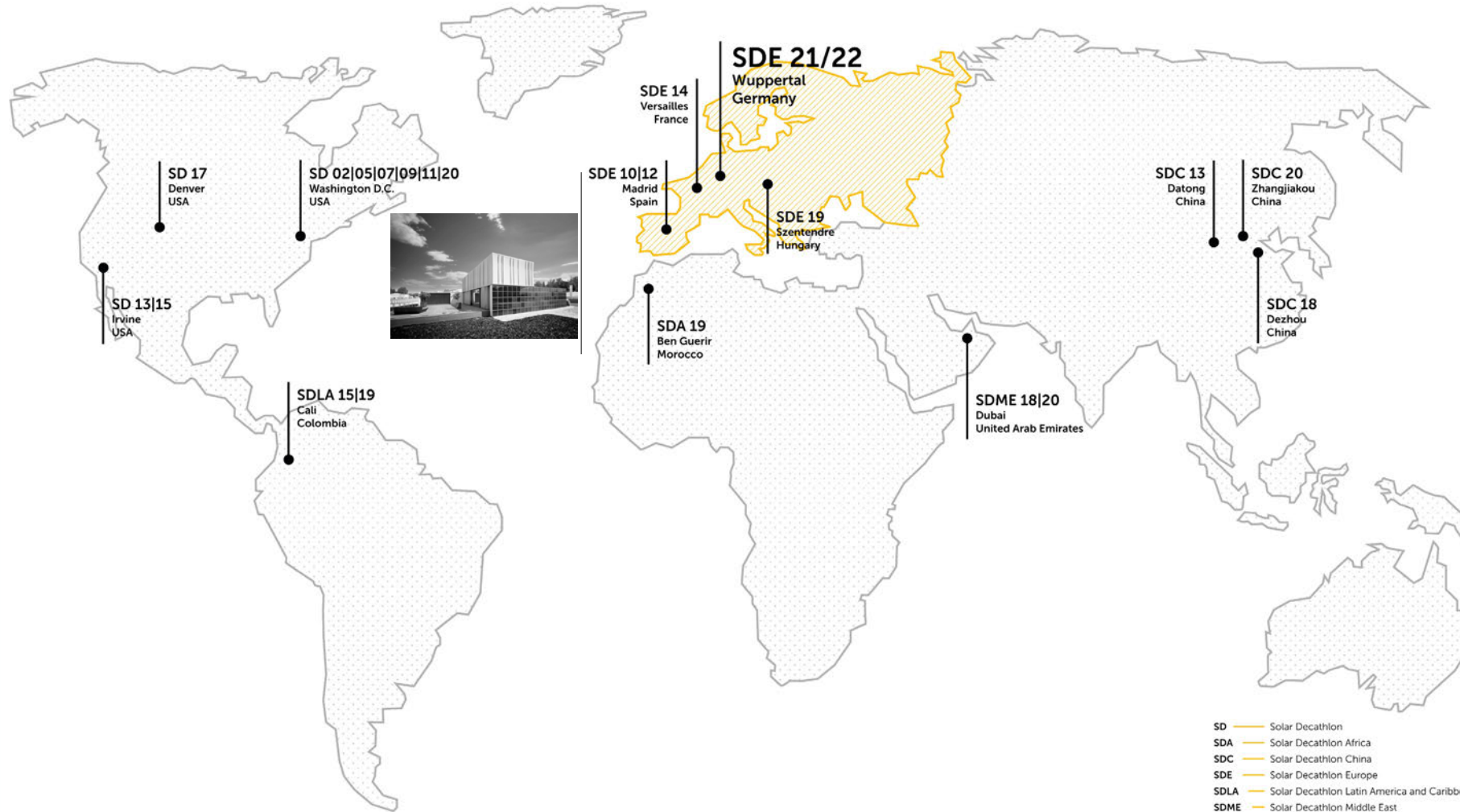
“Each and every Solar Decathlon team is made up of true visionaires. Thanks to you the pioneering spirit is alive!” Richard King

www.solardecathlon.gov

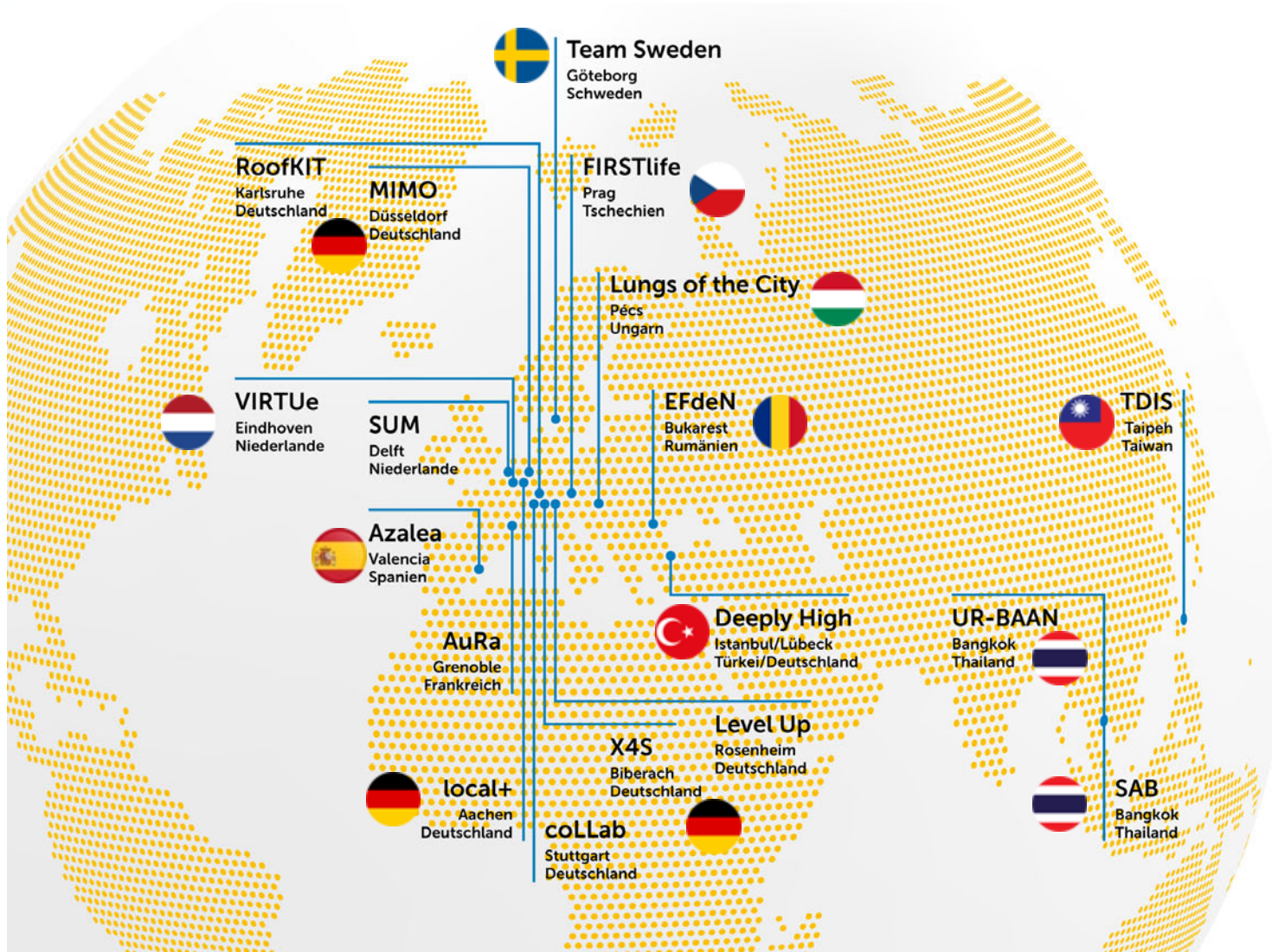
Solar Decathlon 2009



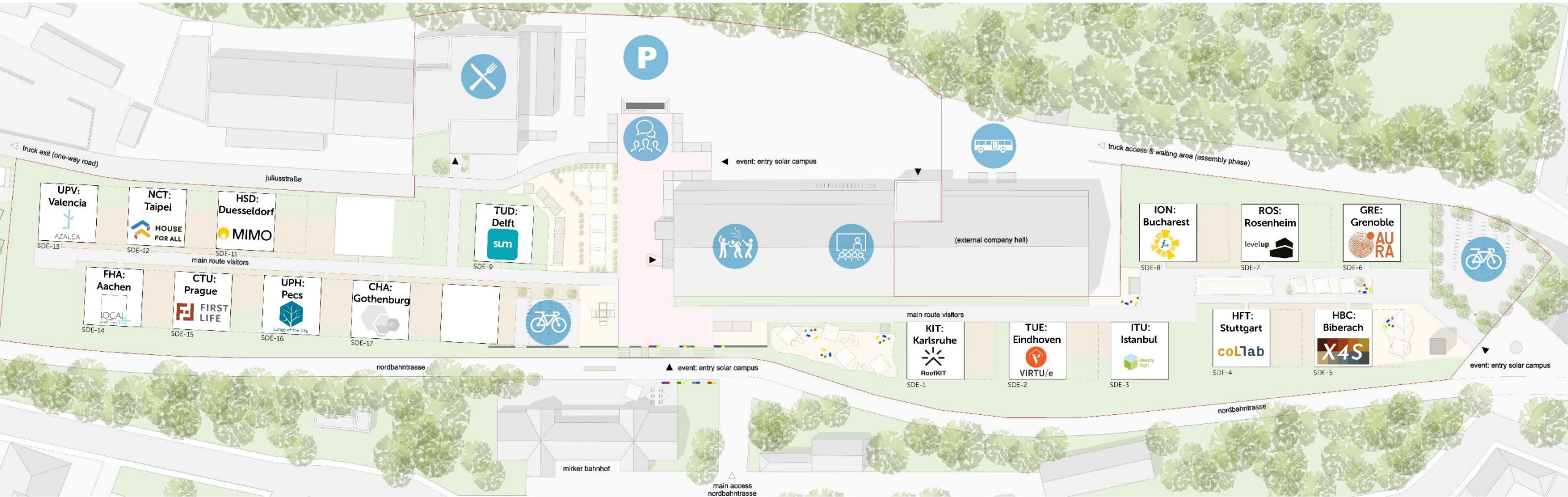
Von Washington nach Wuppertal



18 Teams aus 11 Ländern



Solar Campus in Wuppertal



Solar Decathlon Europe 2021/22



Fotos: © Sigurd Steinprinz /
Bergische Universität Wuppertal

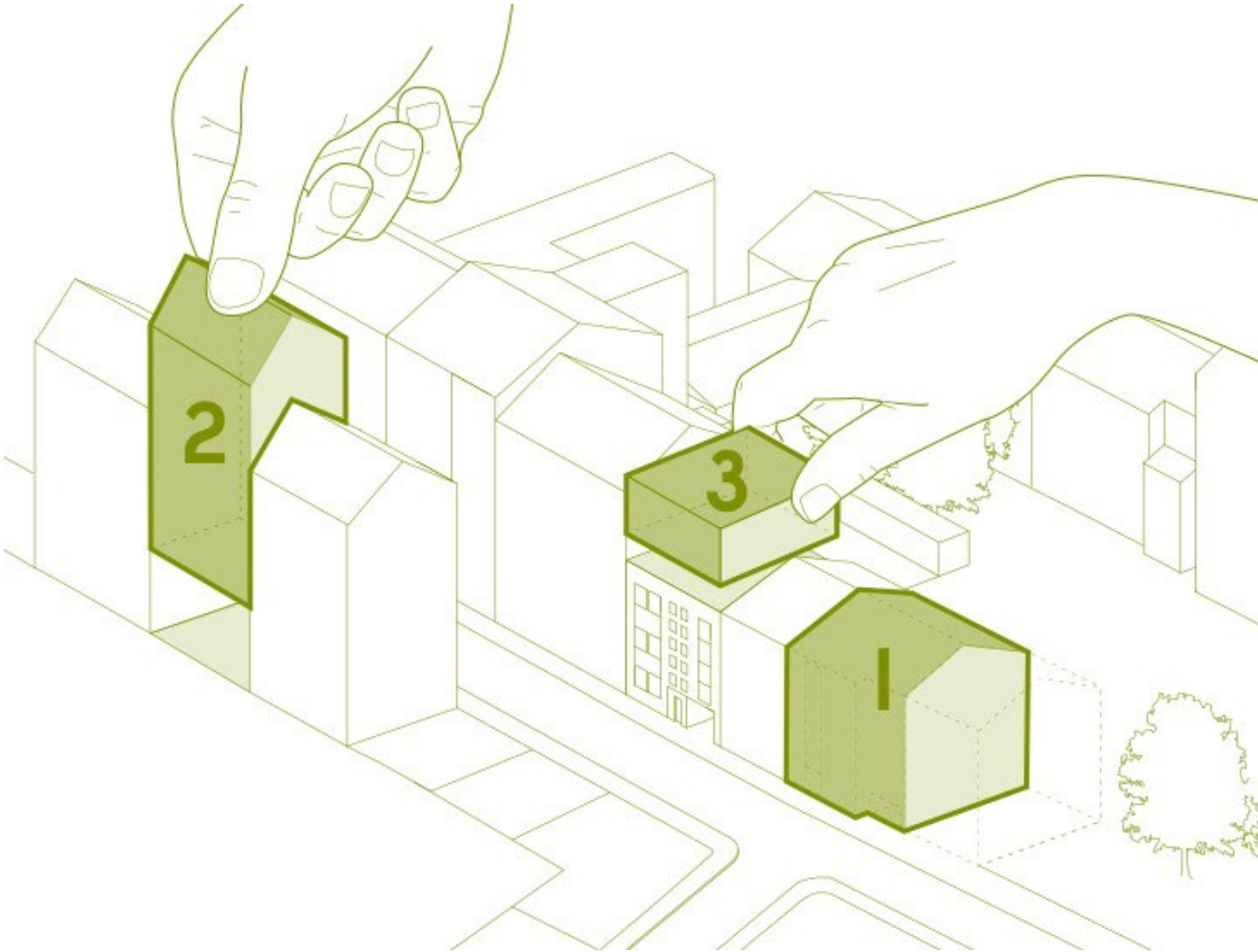
Solar Decathlon Europe 2021/22



Fotos: © SDE 21/22
Bergische Universität Wuppertal

SDE 21/22 goes urban

Drei Aufgabenstellungen



Auswahlmöglichkeit

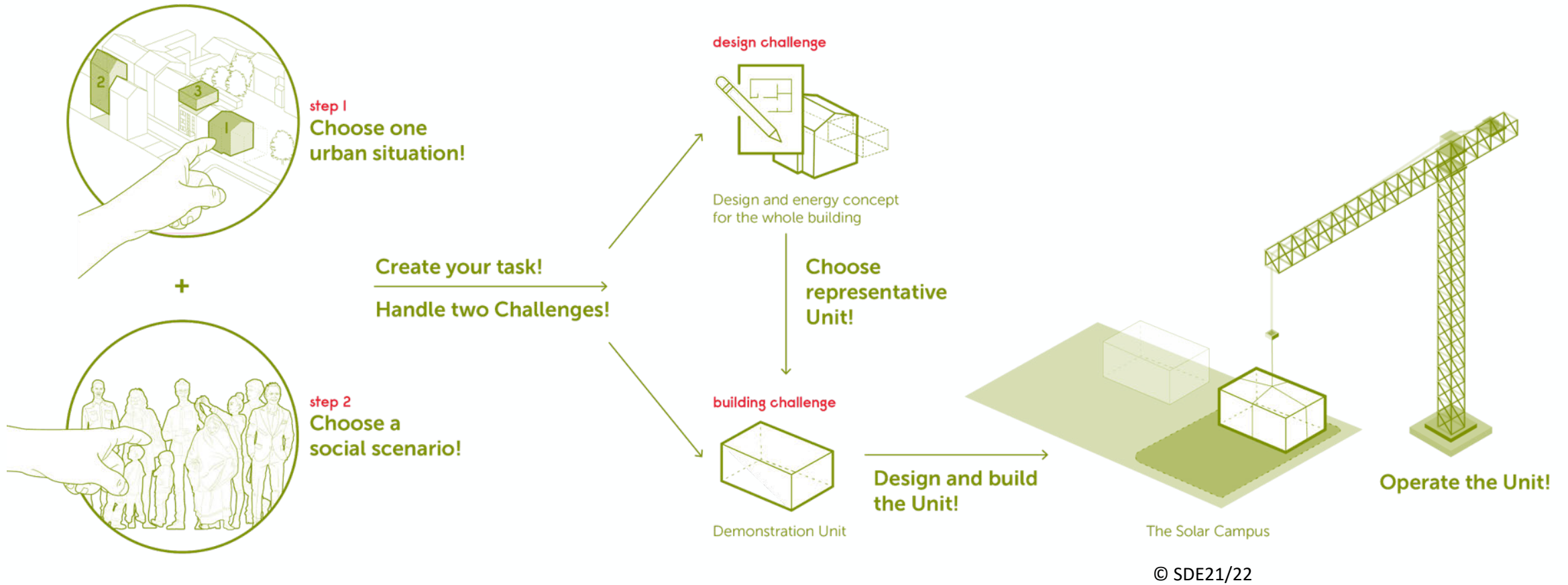
1. Sanierung & Erweiterung
2. Baulückenschließung
3. Sanierung & Aufstockung

Konkrete Objekte im Mirker Quartier



© SDE21/22

Bearbeitungsschritte der Teams



Design- & Building Challenge



Vom Gesamtgebäude...

12 Teams: Sanieren & Aufstocken, 5 Teams: Baulücke schließen, 1 Team: Sanieren & Erweitern

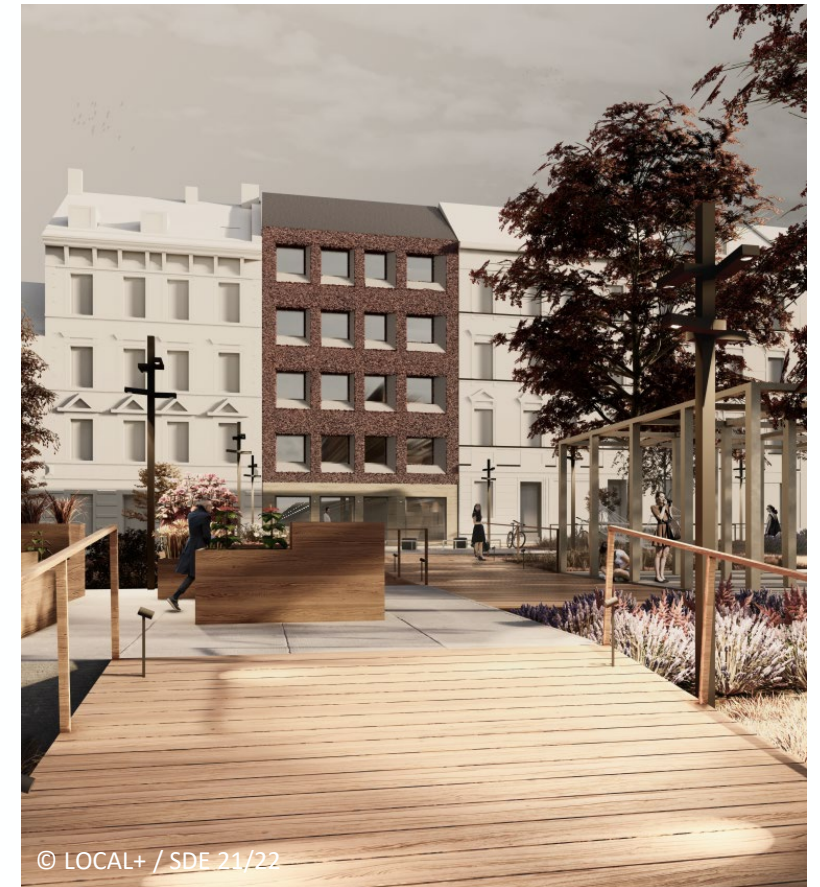
RoofKIT, Karlsruher Institut für Technologie,
Deutschland



SUM, Delft University of Technology,
Niederlande



LOCAL+, Fachhochschule Aachen,
Deutschland



... zum Demonstrator

Realisieren & Betreiben einer repräsentativen Einheit als Teil der Wettbewerbsdisziplinen

RoofKIT, Karlsruher Institut für Technologie,
Deutschland



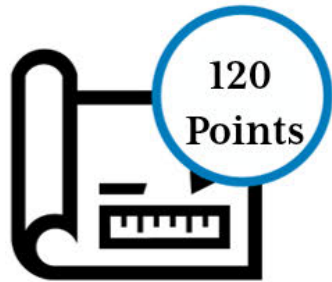
SUM, Delft University of Technology,
Niederlande



LOCAL+, Fachhochschule Aachen,
Deutschland



10 Disziplinen



120
Points

1 • architecture



120
Points

2 • engineering
& construction



120
Points

3 • energy
performance



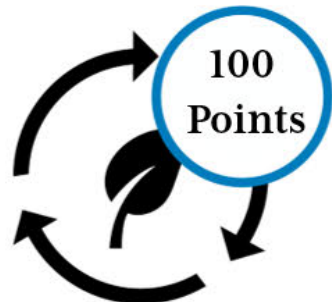
100
Points

4 • affordability
& viability



80
Points

5 • communication,
education & social
awareness



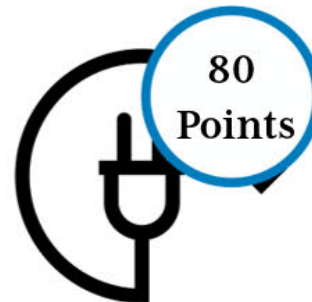
100
Points

6 • sustainability



100
Points

7 • comfort



80
Points

8 • house functioning



80
Points

9 • urban mobility



100
Points

10 • innovation

Juryarbeit



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Messen und Testen



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I6 Projektprofile

1: Karlsruhe, DE



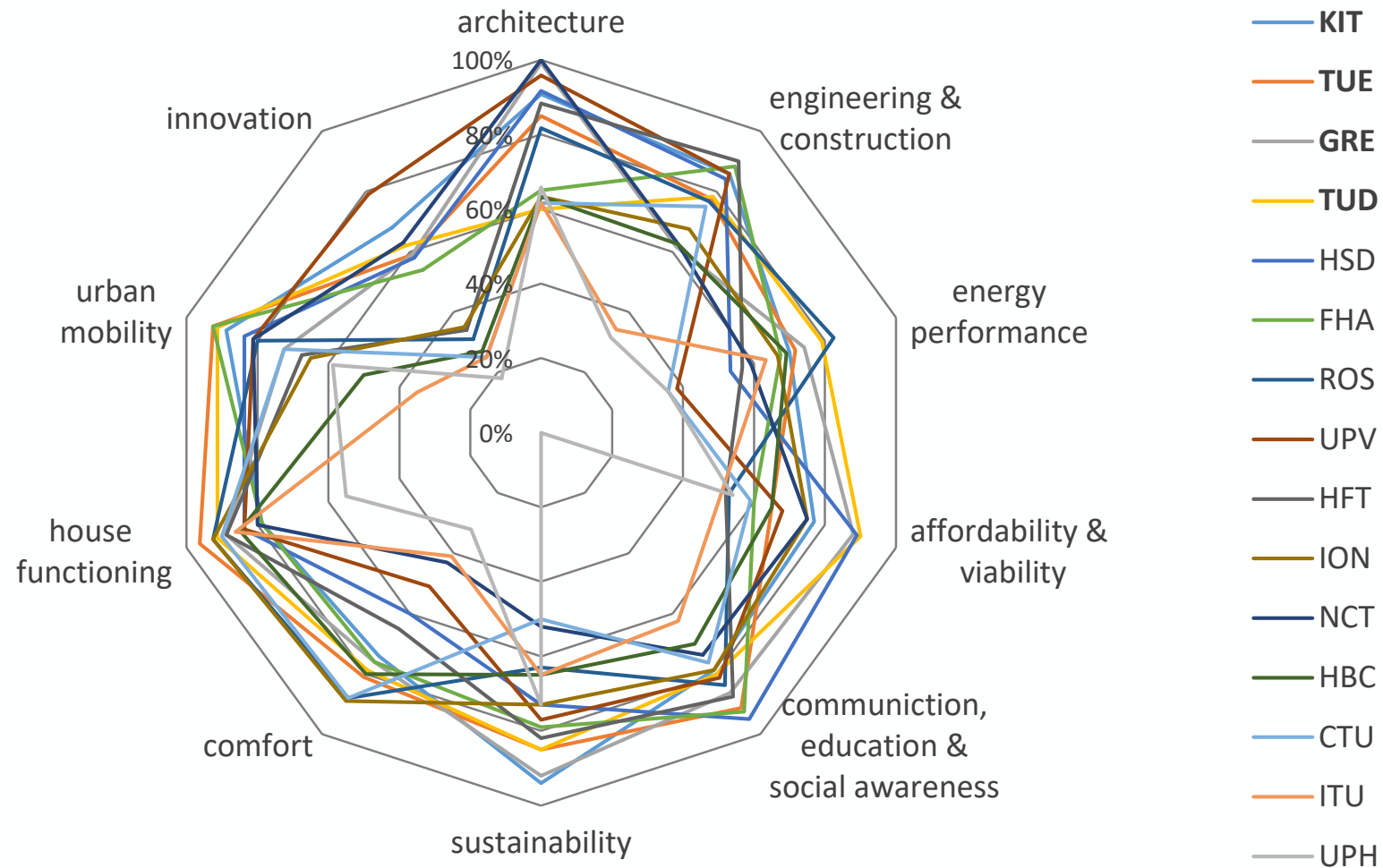
2: Eindhoven, NL



3: Grenoble, FRA

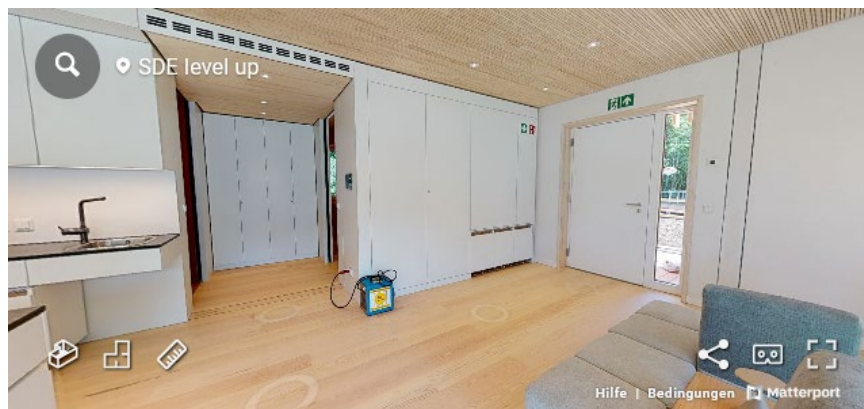
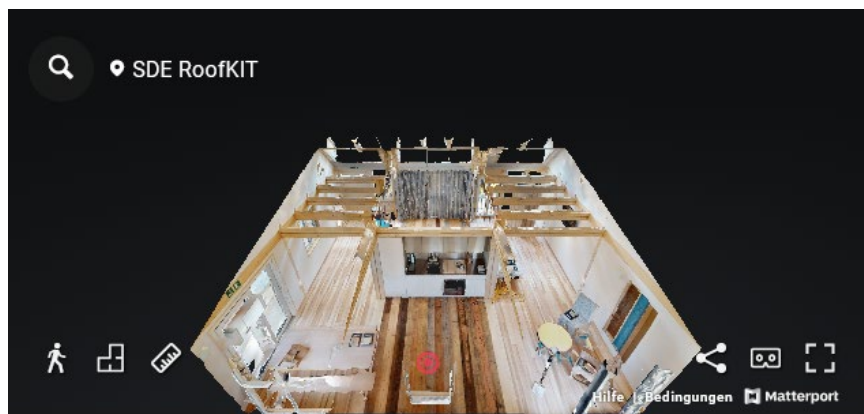


3: Delft, NL



Ausblick

Digitaler Solar Campus & Veröffentlichungen

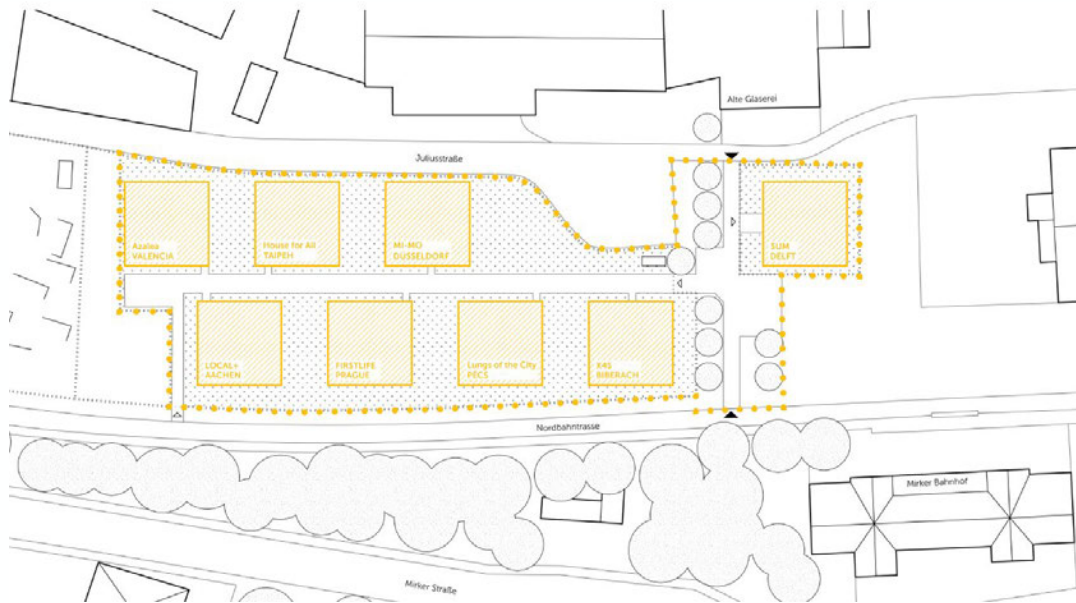


<https://sde21.eu/digital-campus>



https://sde21.eu/wp-content/uploads/2022/06/SDE-21-22_Exhibition-Handbook.pdf

Living Lab NRW & Knowledge Platform



Living Lab NRW, Bergische Universität Wuppertal

Building Energy Competition & Living Lab Knowledge Platform Login

Solar Decathlon

organization contest/scoring teams

Africa

China

Europe

EU2010

EU2012

EU2014

EU2019

EU2021

Latin America

Middle East

United States

US2002

EBC
Energy in Buildings and Communities Programme

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ATL	Atlantic Challenge
BAR	Team Resso
BUC	Team EFdeN
CUJ	Chiba University
DEL	Prêt-à-Loger
DTU	Team-DTU
FNX	Team Fenix
INS	Team Inside Out
KMU	KMUTT-Team
LUC	Team Lucerne
MEX	Team Mexico Unam
OTP	Team On Top
PAR	Team Paris
PLT	Plateau Team Universidad de Alcala

Map **Satellite**

Google ANTARCTICA Map data ©2020 Terms of Use

<https://building-competition.org/>



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