

HCU Hamburg

hcu HafenCity
Universität
Hamburg



University for the Built Environment and Metropolitan Research

The Chair

DIGITAL CITY SCIENCE

Smart, sustainable and resilient cities

The Chair

Architecture

Civil Engineering Cartography

Computer Science

Economics

Environmental Planning

Geoinformation

Political Sciences

Spatial Planning

Urban Planning



Interdisciplinary Team: 30+ researchers, 4 Postdocs, from 10+ fields

Team Background



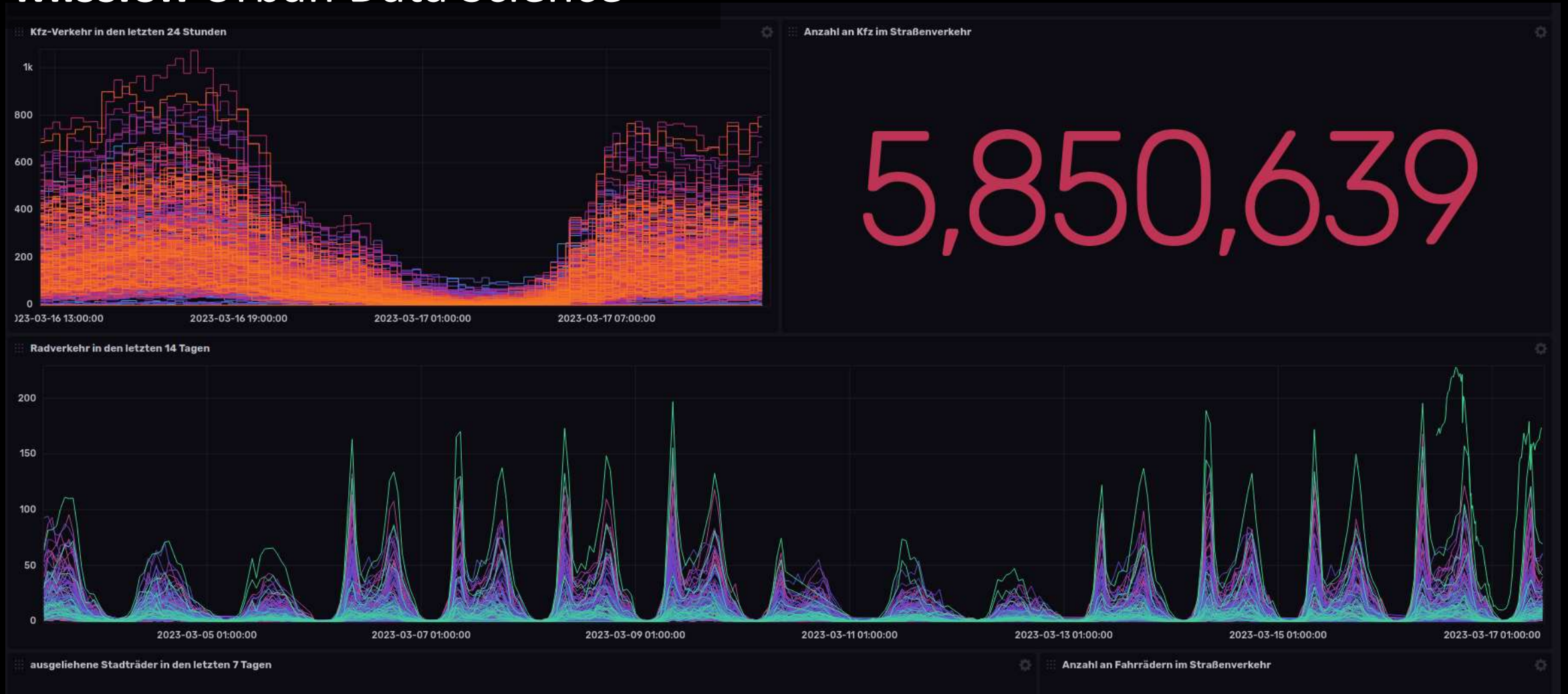
Team members from > 15 different nations / cultures

Projects



- Projects implemented worldwide

Mission Urban Data Science



Generating Knowledge from Urban Data

Mission Education

A group of children and adults are gathered around a table, interacting with a digital architectural model. The model is a large, flat surface displaying a colorful, abstract landscape with green, blue, and yellow areas. Numerous white, rectangular blocks of varying sizes are placed on the surface, representing buildings or structures. A young girl in a pink shirt is in the foreground, looking down at the model. Behind her, a boy in a green and blue shirt is also looking at the model. To the right, a man in a grey t-shirt is standing and looking at the model. In the background, a woman with glasses is also looking at the model. The scene is set in a room with a red wall and a window in the background.

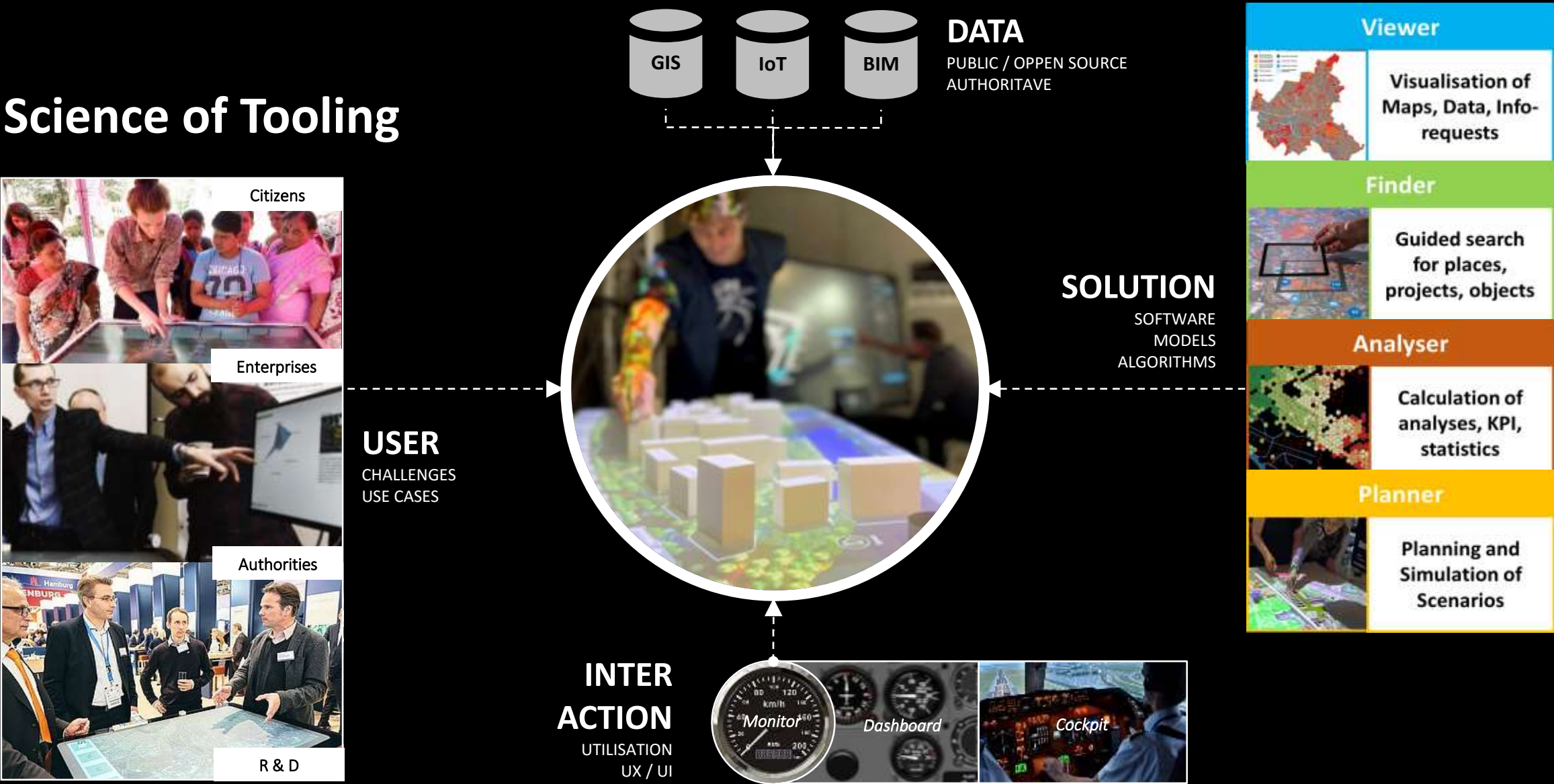
Training next-generation digitally versatile designers and planners

Mission Digital Tooling



Interactive Tools for Urban Planning

Science of Tooling



A Kind of Recipe

Tool Box



Instruments for Deep Views into the City

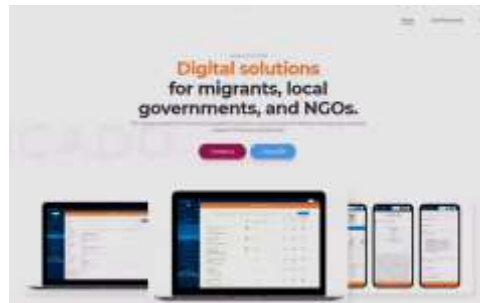
Key Tools of DCS



TOSCA

Toolkit for Open and Sustainable Urban Planning

The people's open GIS



MICADO

Migrant Integration Platform and Dashboards

Migration Management



COUP

Cockpit Collaborative Urban Planning

Urban Design Intelligence



AGORA

Analytics for Ground Property and Real Estate Assessment

Strategic Ground Property Management



UCODE

aka. „Scenerii“
Urban Co-Design Environment

Participatory Urban Design

From research and innovation projects to digital solutions

Key Partners



>200 Partners in research, innovation and application

DCS Outreach & Network



Digital City Science Partner Kiosk @ Smart City Expo Barcelona

Priority Access to Knowledge, Technology, Projects and Publicity

Thankyou!

Prof. Dr.-Ing. Jörg Rainer Noennig
Chair of Digital City Science
HafenCity University Hamburg (HCU)

Website: www.hcu-hamburg.de/prof-dr-ing-joerg-rainer-noennig-professur-digital-city-science

Twitter: https://twitter.com/city_systems

Instagram https://www.instagram.com/digital_city_science/

Youtube <https://www.youtube.com/@digitalcityscience1771>

LinkedIn: https://www.linkedin.com/company/digital-city-science?original_referer=

Xing: <https://www.xing.com/pages/digital-city-science-exploring-urban-systems>

Researchgate: <https://www.researchgate.net/lab/Digital-City-Science-Joerg-Rainer-Noennig>

Github: <https://github.com/digitalcityscience>



Visit us @ HafenCity University Hamburg