

Internationales
Joint-Venture
Seminar

Mit
Integrated Sustainable
Urban Design
Masters

IUSD, Univ. Stuttgart

Lectures
Tutorials
Workshops

Prof. Matthias Rudolph LBA Christian Degenhardt (IUSD)



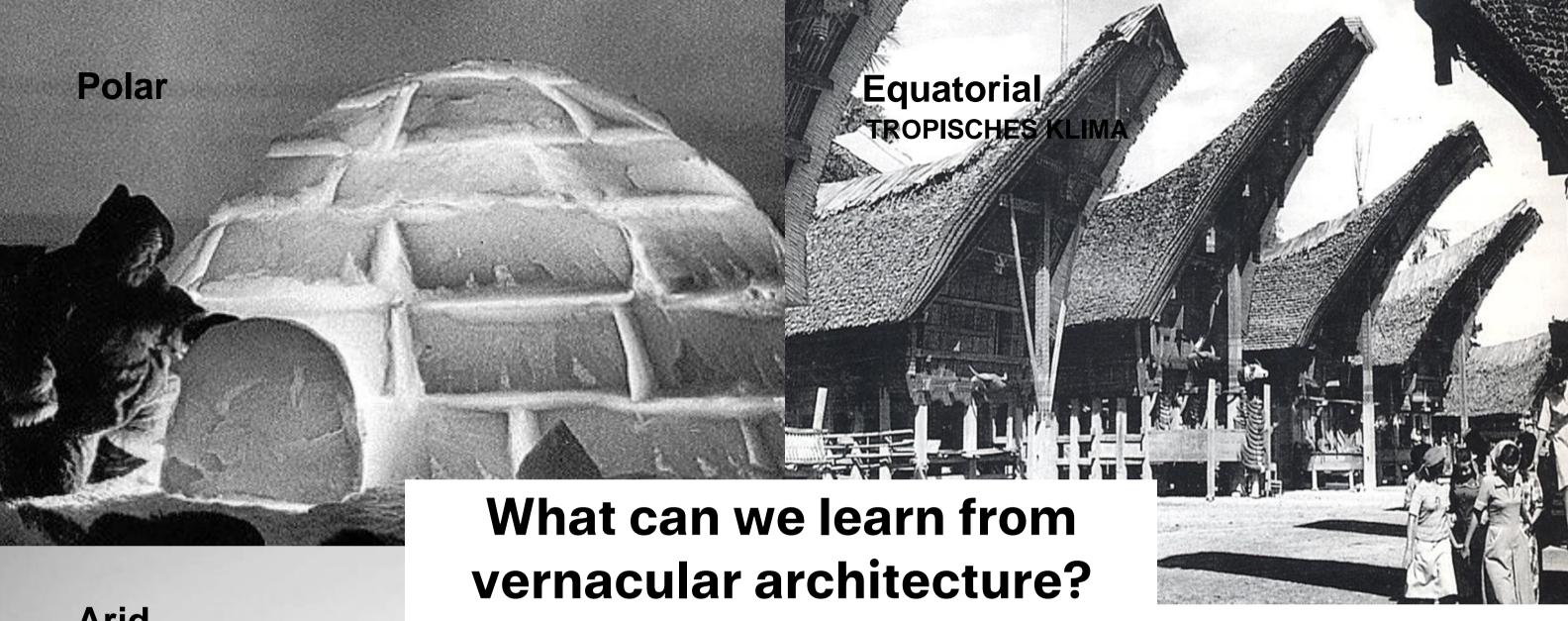
(IUSD)



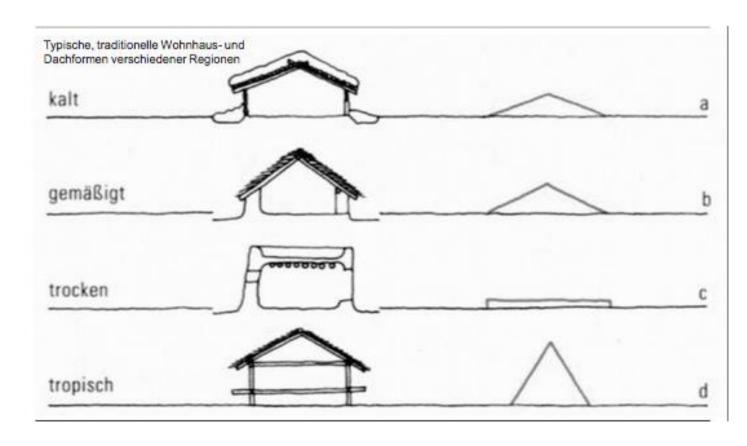




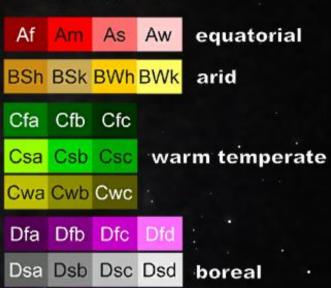








Köppen-Geiger Climate Classification



Source: koeppen-geiger.vu-wien.ac.at (c) Kottek et al. (2006), Rubel et al. (2017)

polar

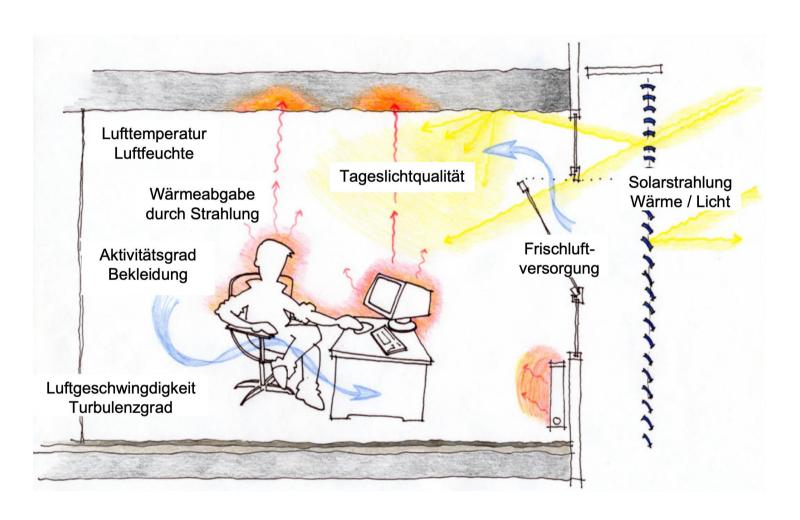
Dwa Dwb Dwc Dwd

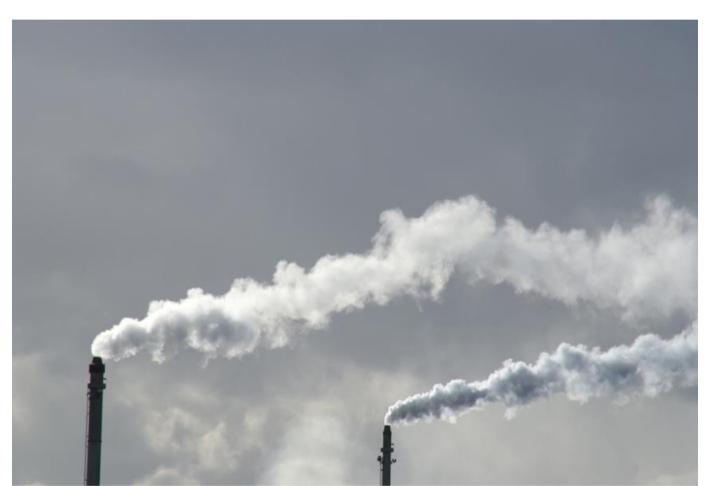


Climate as design parameter for Sustainable Architecture

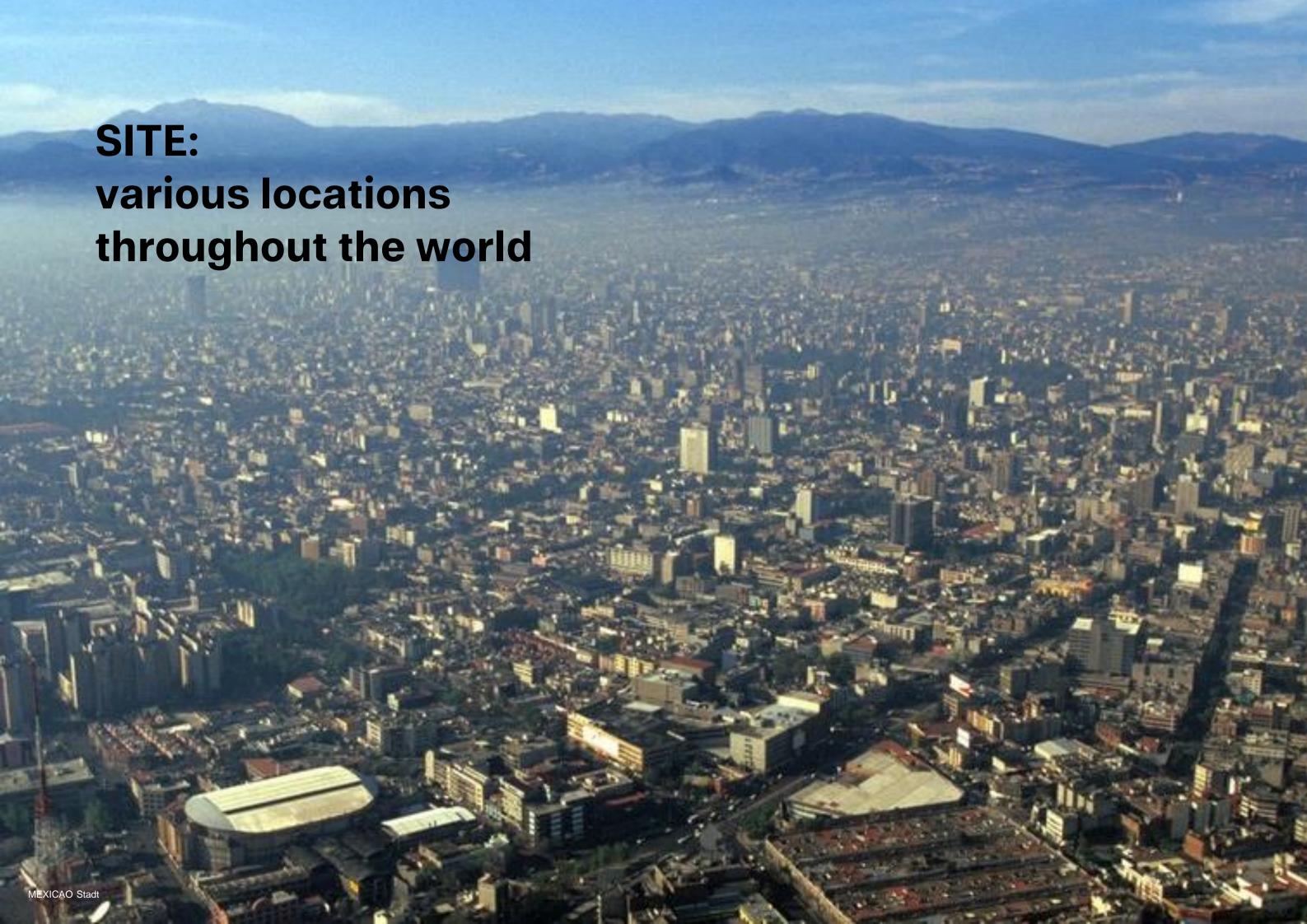
Data SIO, NOAA, U.S. Navy, NGA, GEBCO Image Landsat / Copernicus Image IBCAO

How can we take advantage of local climate and site conditions

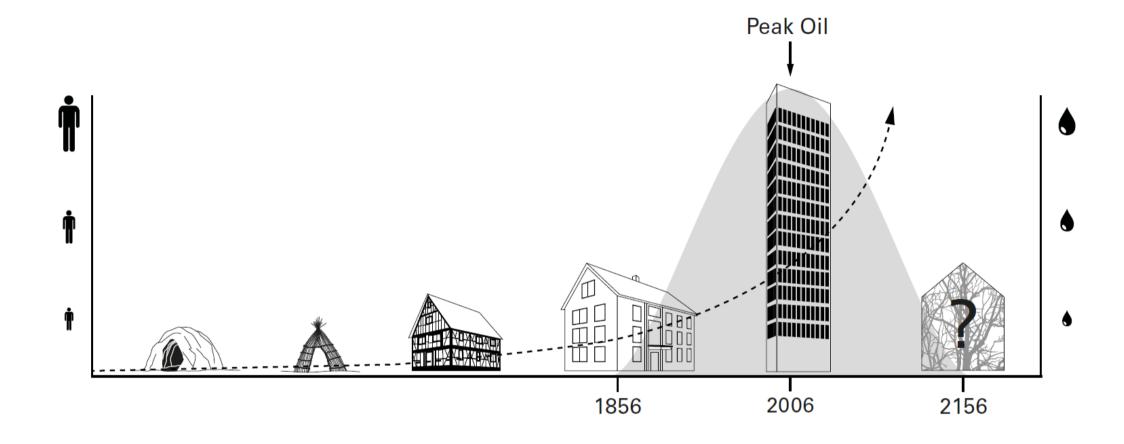




maximize user comfort but minimize the environmental impact?



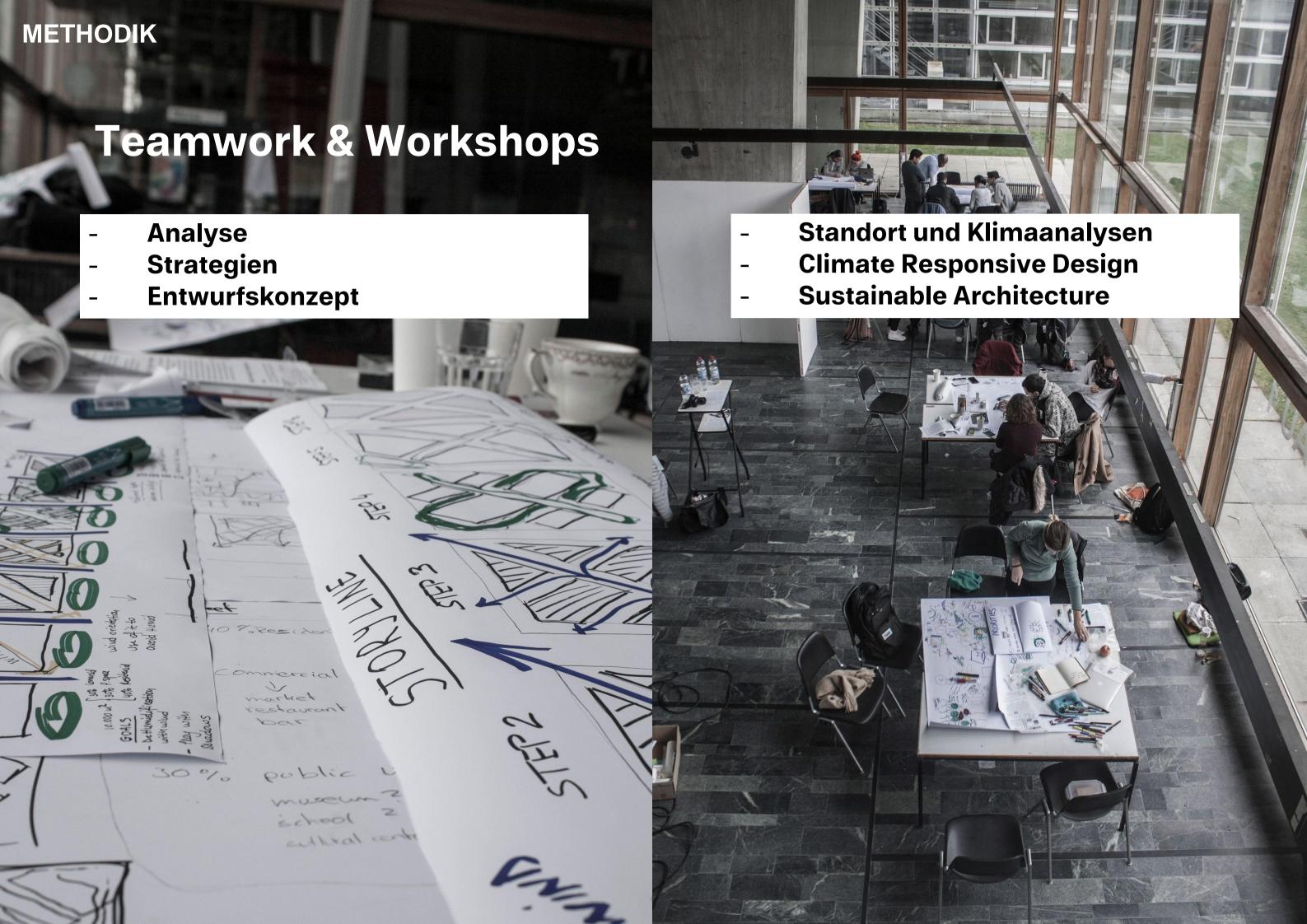
New Vernacular?



Investigation on the **interplay** between location, ecology, material, space and form.

Applying climate responsive design principles leads to buildings that **inherently** contribute to the local architecture and cultural identity.

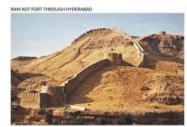




Cooling Blocks

Sustainable urban development to reduce the heat gain and improve the livability and comfort of spaces

Hyderabad's Sunshade



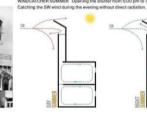


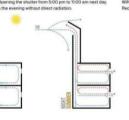








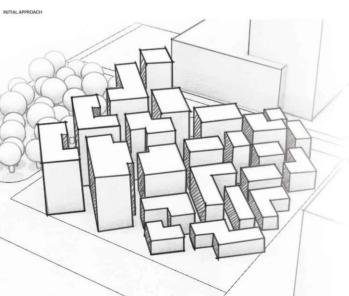


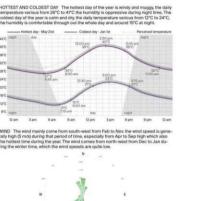




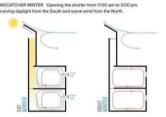


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Sustainable Design
(SD)

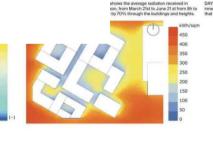


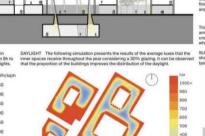


Final Presentation Examples





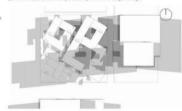


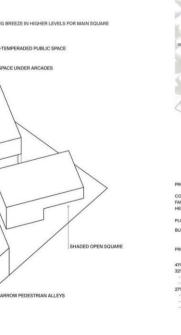




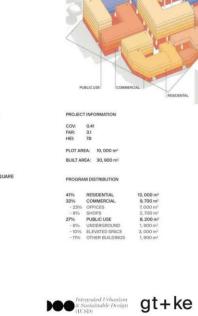














Dates

Fridays 13.00 – 17.00

Kick-off

Friday 14.00 20.10.2023

Language English

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