

Build4People Project

Sustainable Buildings for People – Enhancing Urban Quality of Life in Cambodia

INSPIRED BY



SPONSORED BY THE



FIGURE 1: CONSTRUCTION BOOM IN THE CITY CENTRE OF PHNOM PENH

Rationale & Background

- ▶ long tradition of vernacular architecture in Cambodia
- ▶ lacking awareness about sustainable buildings practices
- ▶ development towards a modern consumer society
- ▶ more resource-intensive lifestyles
- ▶ rising ecological footprint of buildings
- ▶ high electricity prices in Cambodia
- ▶ better energy efficiency promises return on investment
- ▶ decreasing energy import dependencies
- ▶ increasing the competitiveness of Cambodia's economy

Originality

Sustainability is a *transversal* issue. To achieve a viable implementation, with a sustained impact, we pursue a *trans-disciplinary* and *holistic approach* incorporating innovative methods and expertise from various fields (see below).
The work package teams will cooperate together, share their findings and develop *joint deliverables*. Tools and products will systematically build upon each other. *Learning curves* and *feedback loops* will be incorporated into the project design.
The promotion of sustainable buildings cannot only happen in the top-down manner of simply issuing regulations. To *kick-start change* and *advocate implementation* we will therefore follow an inclusive method of *engagement, encouragement, enablement* and *exemplification*. Our approach is to *convince people* rather than to force them.

Overall Objectives

Our project promotes *sustainable buildings* and *sustainable urban development* in Cambodia from a *people-centred perspective* whose connecting scientific-conceptual, analytical and superior normative bracket is always the *urban quality of life*.
With this project, our multi-disciplinary team focuses on aligning *people's needs and aspirations* with tools to benefit and enhance their living. We believe this will lead to major effects on urban sustainability through more *energy- and resource-efficient buildings*. The results we seek are no less than significantly lowered greenhouse gas and pollutant emissions, an increase of urban green, a healthier urban climate, raised awareness among decision makers and modified behaviour among the citizens.
Our Advisory Board will ensure that our measures are *demand-driven* and *adapted to the local context*.

Research Approach & Expected Results / Impacts

GENERAL RESEARCH GUIDING PRINCIPLES EXPECTED FINAL RESULTS / SELECT IMPACTS

- solution-based research
bottom-up & top-down
dissemination & outreach
- locally adapted solutions
inclusive
multi-stakeholder coalitions
- demand-driven
convincing people
advocacy
- sustainable buildings
capacity building
adapted policies and standards
- pro-environmental behaviour
mass effects through replication
urban quality of life city index
- eco-city model pilot project
green school
DGNB certification

RESEARCH PARTNER



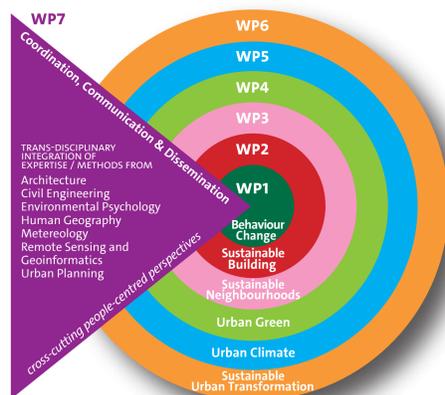
IMPLEMENTATION PARTNER



DISSEMINATION PARTNER



Overview of Work Packages (WPs)



Build4People Consortium

We have gathered a multi-disciplinary team with a proven record of academic excellence, extensive regional expertise and solid project experience.

Local Project Management Partner
Cambodian Institute of Urban Studies
Representative: Tep Kuntheara
Project Coordinator: Mach Tola

Work Package 1: Behaviour Change
Leader: Dr Anke Blöbaum / Prof Dr Ellen Matthes
Research Associate: Annalena Becker

Work Package 2: Sustainable Building
Leader: Dr Dirk Schwede
Research Associate: tbc

Work Package 3: Sustainable Neighbourhoods
Leader: Rolf Messerschmidt

Work Package 4: Urban Green
Leader: Prof Dr Jan-Peter Mund
Research Associate: Amelie McKenna

Work Package 5: Urban Climate
Leader: Prof Dr Lutz Katzschner / Sebastian Kupski

Work Package 6: Sustainable Urban Transformation
Leader: Dr Michael Waibel
Research Associate: Ravi Jayaweera

Work Package 7: Coordination, Communication & Dissemination
Leader: Dr Michael Waibel



Timeline & Activities

Definition Phase (2019-2021)
The 18 month definition phase initially serves to consolidate the partnership structures with our local research, implementation and dissemination partners.

At the research level, key milestones are the joint identification of relevant indicators and methods intended to serve a trans-disciplinary, mutual understanding of the notion of urban quality of life.

Our research results are summarized in the basic reports of every work package and are the foundation for evidence-based decision-making for our implementation partners. A feasibility study for an eco-city model pilot project will serve as a trans-disciplinary example of our research.

Research & Development Phase (2021-2025)
At the start of the four-year R&D phase we will research in-depth information on the local conditions to create a valid basis for evidence-based decision-making at all levels. The information reference tools and resources that we produce will be destined for use by the municipal and relevant national authorities, the local industry and the general public.

Several feasibility studies will also be conducted during this phase to prepare the companies and donor organisations for their inclusion into the subsequent implementation phase.

Implementation Phase (2025-2027)
The final two-year phase aims to encourage the practical implementation by involving partners such as GIZ, KfW, UNDP or other donor organisations, and to extend the results of our project to other cities in Cambodia.



FIGURE 2: HOUSING FOR THE URBAN MIDDLE-CLASS POPULATION: DANGIAO DISTRICT



FIGURE 3: PHNOM PENH'S AFFLUENT RETREAT TO GATED COMMUNITIES IN THE URBAN PERIPHERY: BOREY PENG HUOT, MEAN CHEY DISTRICT

Build4People Project Coordination

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PROJECT LEADER

