

CONSORTIUM LEADER

PROJECT MANAGEMENT PARTNER

BUILD4PEOPLE SCIENCE WORKSHOP WP#3 “SUSTAINABLE NEIGHBOURHOODS”

REPORT

Organizer: Rolf Messerschmidt (Work package Leader of the WP#3 “Sustainable Neighbourhoods”)
Marcelo Rivera Leyton (Research Assistant)
Oliver Lambrecht (Research Assistant)

Participants: Michael Waibel (Project leader B4P)
Susanne Bodach (Local coordinator B4P)
Anke Blöbaum (Research Leader WP#1)
Annalena Becker (Research Associate WP#1)
Stephan Anders (Director DGNB)
Joachim Bergerhoff (Team Leader SMMR-II Project) + his team members
Andreas von Zadow (Von Zadow International)
Tep Makathy (Cambodian Institute for Urban Studies)
Students from the of Faculty of Architecture and Design of Pannasastra University of Cambodia

AGENDA:

WP3 Sustainable Neighbourhoods សហគមន៍ដែលមានជីវភាព

Responsible team: Rolf Messerschmidt, Marcelo Rivera, Oliver Lambrecht, Dr Tep Makathy

Agenda WP3 Science Workshop, 29 June 2021

13:50-14:00 p.m. (08:50-09:00 a.m. German time): **Informal joint exchange**

14:00-14:15 p.m.: Introduction to agenda and the general approaches of the Build4People project during RD phase

➤ Rolf Messerschmidt & Michael Waibel (10 Min + 5 Min Q&A)

14:15-14:30 p.m.: Introduction to theoretical and practical approaches of Sustainable Neighbourhoods

➤ Marcelo Rivera Leyton & Oliver Lambrecht (10 Min + 5 Min Q&A)

14:30-14:45 p.m.: Sustainability Criteria for Neighbourhoods (Keynote Speech 1)

➤ Dr. Stephan Anders (DGNB, Stuttgart/Germany)

14:45-15:00 p.m.: 14:15-14:30 p.m.: Updates from Phnom Penh - Current status of the constructions sector and ongoing relevant government initiatives (Keynote Speech 3)

➤ Dr. Susanne Bodach (10 Min + 5 Min Q&A)

15:00-15:15 p.m.: Sustainable Mobility in Phnom Penh - Cooperation between B4P and SMMRII (Keynote Speech 3)

➤ Joachim Bergerhoff - SMMR (10 Min + 5 Min Q&A)

15:15-15:30 p.m.: Introduction to work plan & milestones of WP3 Sustainable Neighbourhoods during RD phase

➤ Rolf Messerschmidt & Andreas von Zadow (10 Min + 5 Min Q&A)

15:30-15:45 p.m.: Informal exchange during coffee / tea break

15:45-16:00 p.m.: Introduction of activities related to Sustainable Neighbourhoods at the Paññāsāstra University of Cambodia - School of Architecture and Urban Planning (SAUP-PUC)

➤ Dr. Tep Makathy & team (10 Min + 5 Min Q&A)

16:00-16:15 p.m. Discussion about Build4People capacity development, e.g. input of SUT components to a new master course at SAUP-PUC

➤ Michael Waibel (Moderation) (10 Min + 5 Min Q&A)

16:15-16:45 p.m.: Open discussion / organisational issues

➤ all

16:45 p.m. Closing of the WP3 Science Workshop

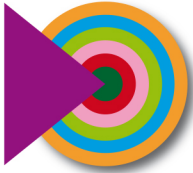
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INTRODUCTION

On 29 June 2021, the 1st Science Workshop of the Build4People Work Package #3 “Sustainable Neighbourhoods” took place. It was organized and moderated by representatives from Eble Messerschmidt Partner (EMP), Rolf Messerschmidt, leader of the WP#3 “Sustainable Neighbourhoods”, Oliver Lambrecht and Marcelo Rivera Leyton, WP#3 Research Associates, in collaboration with Andreas von Zadow from “von Zadow International”.

As additional speakers were invited a leading representative of the German Green Building Council (DGNB), Dr Stephan Anders, the team leader of the Sustainable Mobility Metropolitan Regions (SMMR II) project, Joachim Bergerhoff, Dr Susanne Bodach, the Build4People local project management assistant and Dr. Michael Waibel, the Build4People consortium leader.

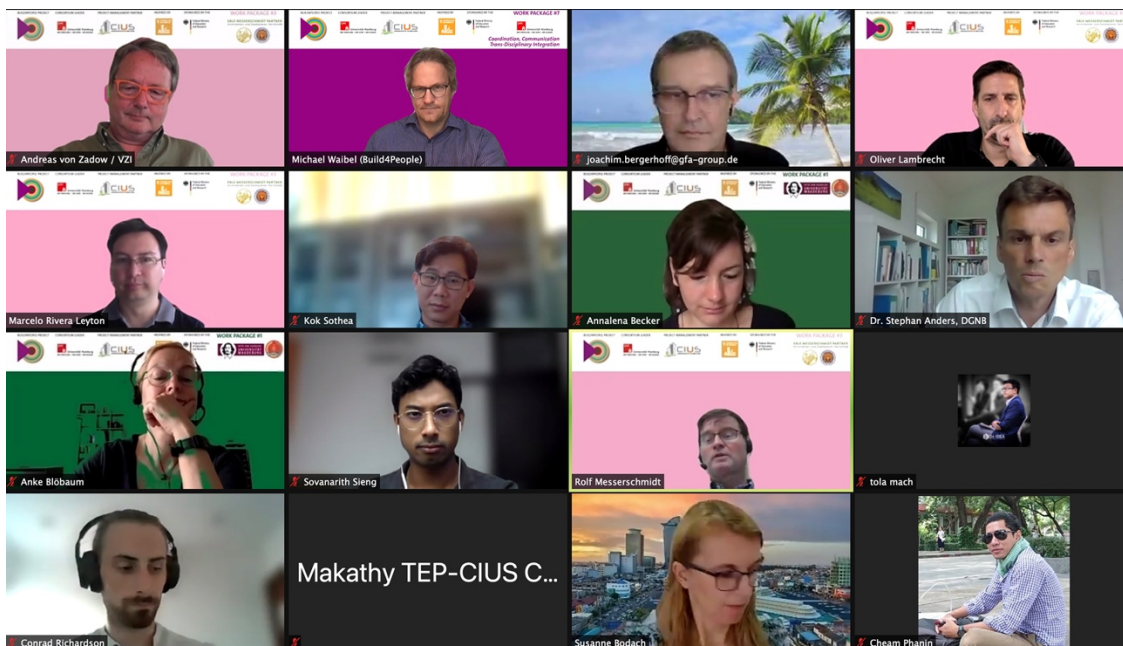
Further participants consisted of representatives from the WP#3 research partner, the School of Architecture and Urban Planning at the Paññāsāstra of Cambodia (SAUP-PUC), representatives from the Build4People implementation partner, the Phnom Penh Capital Administration (PPCA), and other Build4People team members.

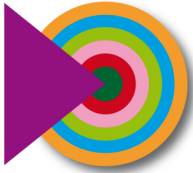
AIM:

The main aim of this event was to introduce and to discuss the WP3 research plan, respective milestones and related activities during the Build4People RD phase together with the local research and implementation partners, as well as continuous cooperation with DGNB and potential collaboration with SMMR II.

SUMMARY:

The workshop started with a short informal exchange, welcoming and the presentation of the agenda by the WP#3 Leader Rolf Messerschmidt.





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Then, Dr Michael Waibel as consortium leader of the Build4People project provided an overall introduction. He gave a concise presentation of the project's general approach and its research design during the RD phase (2021-2025). He also gave insights into specific activities and milestone products of this 4-year phase.

Build4People Project

Enhancing Quality of Life through Sustainable Urban Transformation in Cambodia

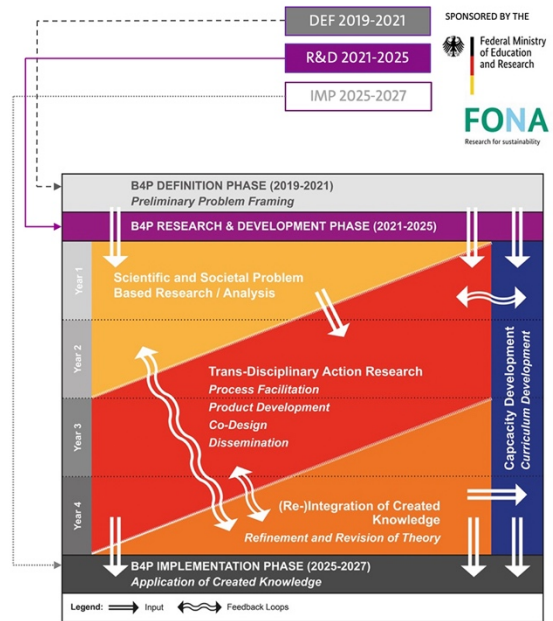
RATIONALE OF THE BUILD4PEOPLE PROJECT

Build4People Research Design

The design of the B4P RD phase consists of three overlapping spheres based on renowned trans-disciplinary research approaches in sustainability science. (Lang et al., 2012; Noboa, 2019)

- 1) Analytical phase: Societal and scientific problem-based research,
- 2) Transdisciplinary action research, and
- 3) Concluding phase of reflection, refinement & re-integration of created knowledge.

➤ **State of the art approach based upon an intricate three-phase research design**



Source: Own design based on Lang et al. (2012: p. 28).

Build4People Project

Enhancing Quality of Life through Sustainable Urban Transformation in Cambodia

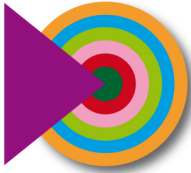
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CONCLUSION IV

Analysing and supporting a sustainable urban transformation in Phnom Penh

- The entry points for Build4People's research are the building and neighbourhood planning sectors.
- Sustainable urban transformation will be encountered by a systemic and cross-cutting approach.
- Supporting the shift from technocratic top-down decision-making based on designing urban master plans to a planning culture which is more integrated, people-led and rather understood as a process and dialogue.
- Transdisciplinary integration is achieved by embedding the different scientific disciplines and stakeholders from the spheres of state, economy and civil society into joint formats and joint tangible products.
- Highlighting the role of the citizens, in regard of 1) sustainable behaviour, 2) supporting their decisions to buy environmentally-friendly products, 3) supporting their role as environmental activists to influence policies
- Build4People's overall normative aim is to improve people's subjectively perceived urban quality of life while matching objective urban sustainability criteria
- Thereby, urban blue-green infrastructure will be promoted as a method providing the backbone for solving urban and climatic challenges by nature-based solutions.
- **Successful multi- and transdisciplinary research is a matter of intensive time-consumptive exchange and of personal dedication of all parties involved!**



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Following this, WP#3's key research approach and methodology got introduced by Marcelo Rivera Leyton. Main past activities, such as the 1st edition of the Build4People Poster exhibition on "Green Buildings & Sustainable Neighbourhoods" and the "Build4People Ecocity Transition Lab" were described, followed by the insights from the Definition phase.

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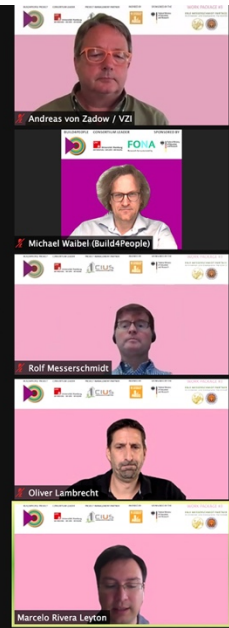
Responsible team: Rolf Messerschmidt, Marcelo Rivera, Oliver Lambrecht, Dr Tep Makathy

Research methodology

- Introduction of **integrative, collaborative and participatory masterplanning strategies** to Cambodia in order to foster the sustainability performance of neighbourhoods
- Application of **multi-layered neighborhood development** based on involved WPs of the transdisciplinary B4P-project approach
- Transfer and adaptation of **assessment criteria for sustainable urban districts** from the international rating system of the DGNB

Source: EU Project Ecocity | Source: Integration Plan – UMore Park Minneapolis, EMP | Source: DGNB

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Afterwards, WP#3 team member Oliver Lambrecht presented a preliminary Masterplan which resulted from the interactive design workshop during the "Build4PeopleEcocity Transition Lab" in March 2020. The sustainability strategies as well as the further steps to deepen the Masterplan were explained, as well.

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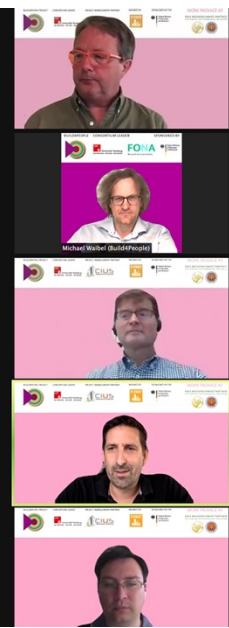
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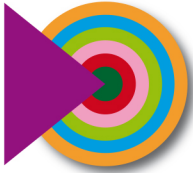
Responsible team: Rolf Messerschmidt, Marcelo Rivera, Oliver Lambrecht, Dr Tep Makathy

B4P Ecocity Transition Lab – Preliminary Masterplan

Participatory & collaborative planning process lead to a land use plan and an urban structure plan with related sustainability concepts for the identified case study area in Chbar Ampov district

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Responsible team: Rolf Messerschmidt, Marcelo Rivera, Oliver Lambrecht, Dr Tep Makathy

Preliminary Masterplan

Sustainability Strategies:

- Sustainable Urban Planning
- Balanced Mix of Uses
- Social Diversity
- Attractive and Green Open Spaces
- Climate Responsive Urban Design
- Water Sensitive Urban Design
- Carbon-Zero Energy Neighbourhoods
- Post-Fossil Mobility
- Circular Economy Neighbourhoods

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Then, the first keynote speech was given by Dr Stephan Anders from the German Green Building Council (DGNB), Europe’s largest network to promote sustainable buildings and sustainable neighbourhoods. He introduced the assessment system of the DGNB.

Nordhavn, Copenhagen © By & Havn / Peter Sorensen

DGNB System

DGNB SYSTEM DISTRICTS CRITERIA SET

Version 2020

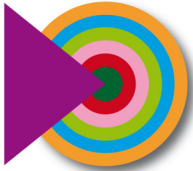
DGNB Global Benchmark for Sustainability

Sustainable and climate positive cities

With the DGNB System for Districts

DGNB System

Furthermore, he explained the updated DGNB criteria for Districts 2020 and the planned country adaptation process for Cambodia. He raised key concern topics for sustainable district development, considered by the DGNB. Most of them are very relevant in fast growing Cambodian cities.



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Insight into Version 2020

Contribution to the greater Sustainability Goals

Which input achieves the implementation of the criteria for national and international sustainable goals?

SUSTAINABLE DEVELOPMENT GOALS Sustainable Development Goals (SDGs)

Agenda 2030

Circular economy

Innovation

NR.	Indicator	Points
1	Amount of Brownfield Land	max. 45
1.1	Amount of Brownfield Land in Percent	0 - 45
22	CIRCULAR ECONOMY BONUS - Prevention of Waste at the Construction Site	+10
2.1	Innovation Area	max. 2.1

Bonus with overfill

Innovation Area

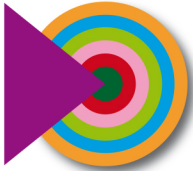
Screenshot of the presentation of Dr. S. Anders – DGNB Criteria for Sustainable Districts

Key Topics of the System for Districts

- Climate Protection
- Climate Adaption
- Biodiversity
- Resilience
- Mixture / Participation
- Health
- Circular Economy

Criteria	Climate Protection	Climate Adaption	Biodiversity	Resilience	Mixture / Participation	Health	Circular Economy
EM1.1 LCA							
EM1.2 Building pollutants							
EM1.3 Urban climate							
EM2.2 Water cycle systems							
EM2.3 Land use							
EM2.4 Biodiversity							
SC01.1 Life cycle costs							
EC02.1 Resilience and adaptability							
EC02.3 Land use efficiency							
EC02.4 Value stability							
EC02.5 Environmental risks							
SC01.1 Thermal comfort in open space							
SC01.8 Open space							
SC01.8 Workplace comfort							
SC01.9 Noise, exhaust and light emissions							
SC02.1 Barrier free design							
SC03.1 Urban Design							
SC03.2 Social and functional mix							
SC03.3 Social and commercial infrastructure							
TE02.1 Energy infrastructure							
TE02.2 Resource management							
TE02.4 Smart infrastructure							
TE03.1 Mobility infrastructure - motorized transportation							
TE03.2 Mobility infrastructure - pedestrians and cyclists							
PRO1.2 Integrated design							
PRO1.7 Consultation							
PRO1.8 Project management							
PRO1.9 Governance							
PRO1.10 Safety							
PRO2.1 Construction site and construction process							
PRO2.5 Monitoring							

Screenshot of the presentation of Dr. S. Anders – DGNB key topics for Sustainable Districts

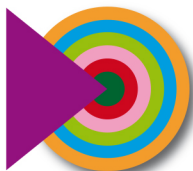


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Finally, he presented some good practice examples of sustainable neighbourhood development, e.g. the Heilbronn Neckarbogen project (close to Stuttgart), and other international certification projects where a country adaptation to this rating system was carried out.

Main questions that have been raised were on how to make a country adaptation of the rating system. Dr. Anders replied that an adapted criteria should be discussed followed by a methodology of the rating system, which could help to deal with possible lack of information.



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The second keynote speaker was the B4P local project management assistant, Dr Susanne Bodach, who gave insights on the current status of the construction sector in Cambodia and specifically in Phnom Penh. Furthermore, she informed on the socio-economic impact of the pandemic situation, and measures from the government that are currently being carried out to tackle with the difficult situation.

Constructions Sector Outlook



Source: [Reeling in Cambodia's real estate sector | Phnom Penh Post](#)



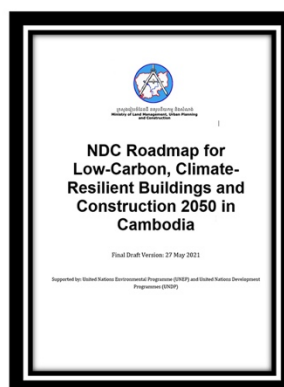
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NDC Roadmap for Building and Construction finalized

- Action & targets set for 8 activity areas
- Major challenges:
 - Lack of data and know-how
 - Setting quotative targets
 - Consultation process during Covid 19 crisis
- Report will be sent to MLMUPC



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Ministry of Land Management, Urban Planning and Construction



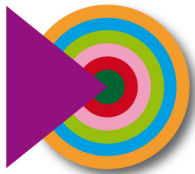
➤ Next Steps: adoption of roadmap and institutional setup



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She also gave an update of the ongoing relevant government initiatives to sustainable neighbourhood development, such as the NCSD Road Map for Sustainable Building and Construction, and explained the next steps to follow. Unfortunately, public investment was reduced to minimum and efforts focus on the pandemic crises.

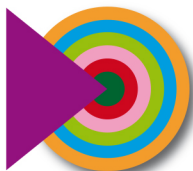
Finally, it was also pointed out that the MoU with the local implementation partner PPCH, was delayed due to COVID-19 crisis, however already authorized to be signed.

Build4People Implementation / Dissemination

- **Signing of MoU with PPCH is delayed due to Covid19 crisis**
- Webinar on DGNB planned with EuroCham (22 Sep 2021)
- Liaison with new initiatives
 - Young Eco Ambassadors – Online learning website
 - GIZ Cities Challenge Call for Proposal – financial support for implementation up to 100,000 Euro
 - [Good City Foundation](#) is planning bigger conference in December

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The last keynote speech was delivered by Mr. Joachim Bergerhoff. As team leader he presented about the project Sustainable Design of Mobility in Middle-sized Metropolitan Regions (SMMR II) in the ASEAN region. The main tasks of the project are to advise local governments with strategies and concepts for integrated, sustainable mobility, as well as in the planning and governance practices. The SMMR II has more reference to policy papers rather than to academic research. The project considers the Cambodia national mobility strategy and supports creating tools and guidelines.



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SMMR I & II Set-Up

- ASEAN-German Cooperation Project
- 3 Partner-Regions in 4 ASEAN Member States
- 3 Years (2021-2024), 4 Outputs

Output [1] & [2]: Capacity Building and Project Ideation with Local Partners on Mekong / GMS Corridors

- Vientiane - Nong Khai, and neighbours
- Phnom Penh, and neighbours, (HQ Host: MPWT)
- Can Tho, An Giang, and neighbours

Output [3]: Connect with Peers in all AMS

- Capacity Building
- Communities of Practice

Output [4]: Follow-up on ASEAN RSSLT

- Toolboxes, - Guidelines, - Strategy Papers

Marcelo Rivera Le...

SMMR Activities & Partnerships : CoP, Proof of Concept & Lighthouses

SMMR Key Topics

- Metropolitan Transport Executives (MTE)
- Sustainable Urban Mobility Plans (SUMP)
- Freight Traffic and City Logistics (FCX)
- Light Electric Vehicles (LEV)
- Intermodal Mobility Hubs (HUBS)
- Open Data and Modelling (ODM)

Partnerships established during SMMR I

Many more in preparation for SMMR II

SMMR Activities [1] [2] [3]

- Capacity Building
- Stakeholder engagement
- Project Ideation to Proof-of-Concept
- Project Coaching
- Communities-of-Practice

Partnerships

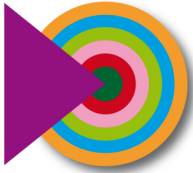
- Among Actors - New Forms of Governance
- Among cooperation projects, all categories
- Project Preparation Facilities (Banks)
- With Private Sector Companies
- With Private Sector Associations

Process Flow: Capacity Building → Stakeholder engagement → Project Idea → Project Coaching → Partnership Building → Proof of Concept → Validation → Project Preparation → Business Plan → Implementation Scaling → Consolidation

Conrad Richards...

Dr. Stephan Ande...

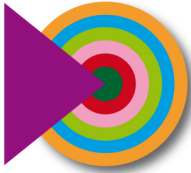
His presentation had a focus on the studies and future activities of the project, including the B4P case-study area “Chbar Ampov”, an urban district in Phnom Penh. In this area, some of the main activities of the SMMR II are for instance to support the local partners with regulations on parking, to conduct mobility survey, traffic data modeling, and designing mobility hubs with streetscape, among others.



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Following this, the leader of the WP#3, Rolf Messerschmidt presented the detailed activities and milestones in the research and development phase of the Build4People project. He also explained the timetable with main products and the integrated planning approach with other WPs and stakeholders. He also presented the transdisciplinary activities that are planned together with all the B4P team and the local partners. Finally, he described the expected input from the project partners to the research and development phase and the timeline for this.



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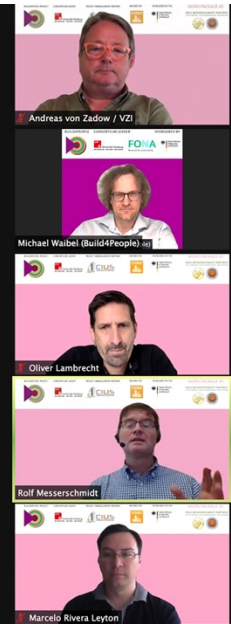
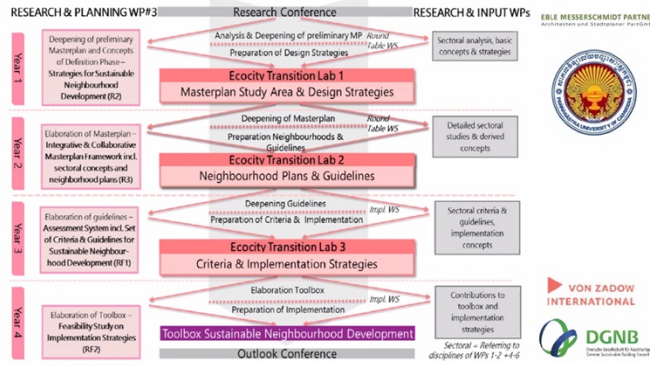
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Responsible team: Rolf Messerschmidt, Marcelo Rivera, Oliver Lambrecht, Dr Tep Makathy

Activities and Milestones in the RD Phase

- Extended application of "Ecocity Transition Labs" as a transdisciplinary planning and participation methodology (cooperation with von Zadow International)
- Elaboration of an "Integrative & Collaborative Masterplan Framework" for an exemplar eco-town development as a transdisciplinary planning product
- Creating of a "Toolbox Sustainable Neighbourhood Development" including strategies, guidelines and criteria, as well as implementation strategies
- Further conceptualization of an assessment system for sustainable neighborhoods incl. criteria and indicators for early project stages (cooperation with DGNB)

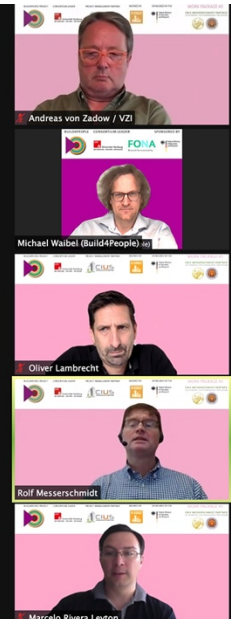
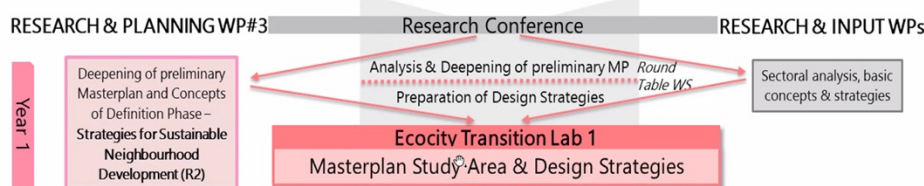


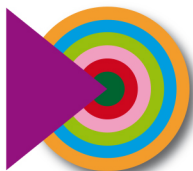
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Responsible team: Rolf Messerschmidt, Marcelo Rivera, Oliver Lambrecht, Dr Tep Makathy

Activities and Milestones in the RD Phase – 1st year

- Deepening of preliminary Masterplan and Concepts
- Organisation of web meetings for stakeholder management
- Elaboration of preliminary design strategies (for discussion and further development in the ECTL)
- Preparation & organization (with local partner and WP7) of the ECTL in cooperation with von Zadow International
- Milestone R2: Strategies for Sustainable Neighbourhood (Month 12)





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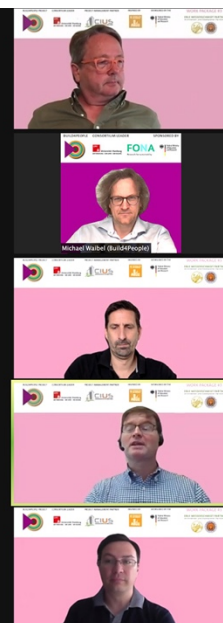
Preparation & organization of the ECTL (cooperation with von Zadow International)

PURPOSE:

- Input Presentations on international best practice and local context
- Joint and interactive Discussion Workshop on "Problems – Vision – Solutions"
- Hands-on-Planning Sessions includes production of sketchy drawings by parallel topical and/or transdisciplinary smaller working groups and report-backs
- Integrated Design Workshop by international Build4People research & design team as well local partners and several meeting with PPCC
- Report-Back of Results to all participants of "Ecocity Transition Lab" and discussion on way forward (subsequent deepening of results to Outline Feasibility Study)



	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
AM	Setting-up Venue	Workshop Hand-com Planning Sessions				Setting-up Venue
PM	Input Presentations			Design and Documentation Workshop Teamwork 1		PRESENTATION OF RESULTS
Evening	Preparation of Workshops	First Evaluation of Results		Meetings with PPCC, experts and stakeholders		Way Forward



Then, Mr. Andreas von Zadow explained the preparation of the next Build4People Ecocity Transition Labs scheduled for the first quarter of 2022. At first, he introduced his ideas to organize a stakeholder management structure. He further raised the need of reactivating the involvement of the different stakeholders in a series of "Jour Fix of an ELT preparation group". The main objective is to establish connections and compromise strategic stakeholders that could actively participate in the "Build4People Ecocity Transition Labs".

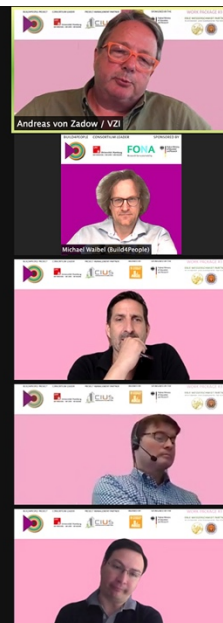
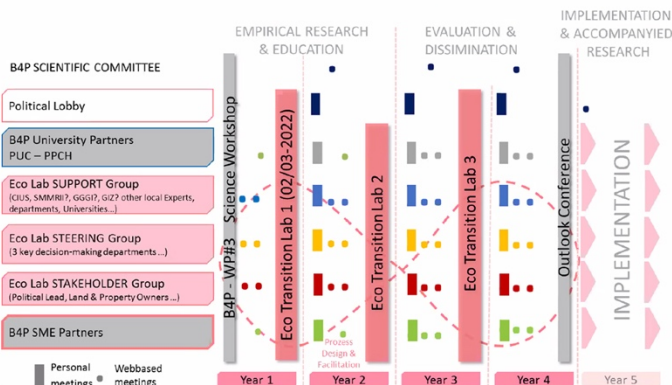
WP3 Sustainable Neighbourhoods សហគមន៍ដែលមានជីវភាព

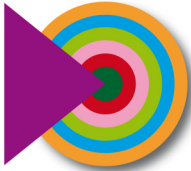
Responsible team: Rolf Messerschmidt, Marcelo Rivera, Oliver Lambrecht, Dr Tep Makathy

DEF 2019-2021
R&D 2021-2025
IMP 2025-2027



Preparation & organization of the ECTL (cooperation with von Zadow International)





CONSORTIUM LEADER

PROJECT MANAGEMENT PARTNER

WP3 Sustainable Neighbourhoods សហគមន៍ដែលមានជីវភាព

Responsible team: Rolf Messerschmidt, Marcelo Rivera, Oliver Lambrecht, Dr Tep Makathy

DEF 2019-2021 | R&D 2021-2025 | IWP 2025-2027

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FONA Research for sustainability

EMPIRICAL RESEARCH & EDUCATION

B4P SCIENTIFIC COMMITTEE

- Political Lobby
- B4P University Partners PUC – PPCH
- Eco Lab SUPPORT Group (CIUS, SMMR?, GGG?, GZ? other local Experts, departments, Universities...)
- Eco Lab STEERING Group (3 key decision-making departments...)
- Eco Lab STAKEHOLDER Group (Political Lead, Land & Property Owners...)
- B4P SME Partners

Science Workshop

B4P - WP#3

Eco Transition Lab 1 (02/03-2022)

Year 1

Preparation Process with a three-fold focus:

- Generate Inputs on the content
- Establish Connection with Contributors and Participants
- Develop Workshop-Process-Design

Milestones:

- Input generation and connecting-up with potential contributors and participants (ongoing since June 2021)
- Midterm Online Conference (online, October 2021)
- Run-Up-Conference (online, December/January 2021)
- EcoTransitionLab (Phnom Phen, Feb/March 2022)

EBLE MESSECHMIDT PARTNER

VON ZADOW INTERNATIONAL

Participants in video conference: Andreas von Zadow / NZI, Michael Waibel (Build4People), Oliver Lambrecht, Rolf Messerschmidt, Marcelo Rivera Leyton

Due to lack of time, it was suggested to postpone the remaining two presentations and to continue the interesting discussion related to the work plan of WP#3, the role and collaboration of each partner in the Build4People RD phase.

Main input and conclusions

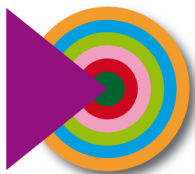
During the subsequent discussion, it was made clear that due to the lack of legal regulations and standards in the Cambodian building sector, applying criteria makes sense, even it does not finally lead to a certification. Furthermore, the difficulty of establishing connections with stakeholders and bringing the people together in this pandemic situation was pointed out.

Some possible strategies to tackle this problem were suggested, such as continuing the involvement of PPCH and lower administrative offices with hybrid meetings. Furthermore, the involvement of other actors and the private sector is also very important. For this (re)activation from all sides, a monthly exchange with partners was proposed.

It was suggested to consider the good collaboration of PUC with other European universities as example for capacity building with this institution and specifically to outline a Sustainable Urban Transformation Planning Master course to be integrated into the curriculum at School of Architecture and Urban Planning of Paññāsāstra University of Cambodia.

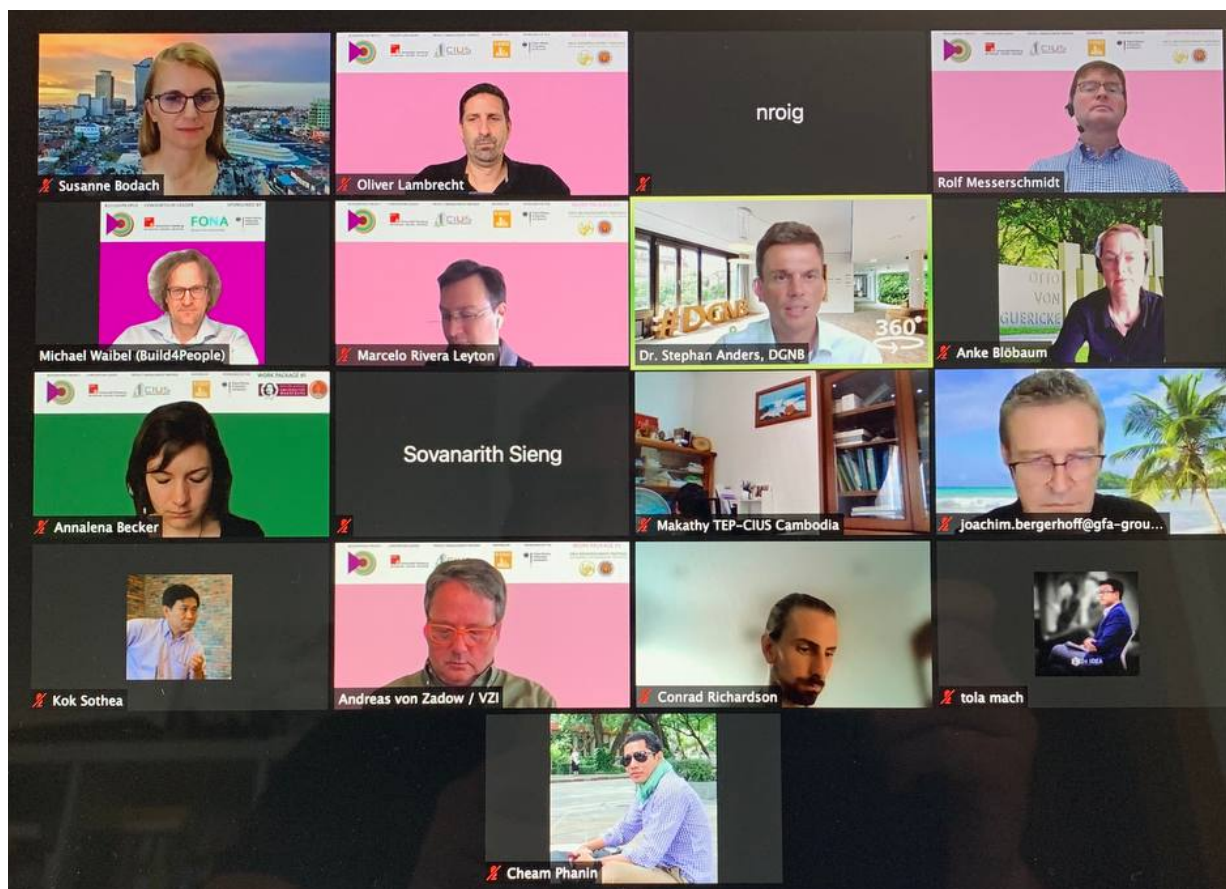
Finally, the wish for an even stronger mutual and continuous collaboration was expressed by all participants.

Particularly, the SMMR II team is willing to cooperate with the Build4People project and to form synergies in the research, development and implementation phases for both projects.



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PROJECT MANAGEMENT PARTNER



Screenshot of the discussion and participants