



## Workshop Climate Change

Research roadmap for climate change mitigation and climate adaptation in German Vietnamese cooperation

### Background and challenges

The current efforts for climate change mitigation and reduction of greenhouse gas emissions must be enhanced in order to fulfil the commitment of the Paris agreement in Germany as well as in Vietnam till 2050. At the same time climate adaptation must be developed to prevent the severe effects of climate change. While comprehensive solutions are needed at the end, supporting actions must be identified and researched in order to accelerate the successive implementation of steps towards such effective solutions. If these supporting issues remain unaddressed they are effective bottlenecks on the path to climate protection. With the final goal in sight and based on an analysis of the current situation a research roadmap is needed to enable the necessary steps successively. As one example the construction sector will be discussed, including *materials*, green energy application and resilience against climate change.

### Aims of the Workshop

The aim of the workshop is to discuss and to analyse previous efforts in BMBF-funded projects and in efforts of other stakeholders in Vietnam to identify missing foundations and infrastructures for the broad and effective implementation of greenhouse gas emission reduction and climate mitigation actions. These issues will be discussed with policy and governance related stakeholders and with implementation-orientated stakeholders. Research questions to address these issues will be formulated and combined in a research roadmap for climate change mitigation and climate adaptation.

### Key-questions for in-depth discussions in the workshop

- Which bottlenecks for effective climate protection actions can be addressed by cooperative research between Germany and Vietnam?
- Which research questions will be relevant in 2030, 2040 and 2050 for construction, urban development, energy and climate adaptation in light of the Paris Agreement commitments in Vietnam and in Germany?
- Could a research-to-implementation-roadmap be drafted to guide effective research towards climate-change mitigation and climate adaptation in Vietnam and in Germany?
- How does bilateral cooperation contribute to Vietnam's and Germany's respective science and innovation strategies?

### Potential benefits to Vietnamese and German participants

- Matchmaking / networking
- Possible contributions to the future cooperation in the field of climate change mitigation / adaptation
- Identification of long-term research issues
- Alignment of research issues with the needs of implementation partners



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### Target participants

- Ministry of Construction, Nguyen Cong Thinh (MoC, DoSTE)
- Ministry of Science and Technology, scientific expert (tbd. MoST)
- Ministry of Industry and Trade (MoIT)
- GIZ (Gesellschaft für Internationale Cooperation)
- DENA (German Energy Agency), current Vietnam activities / cooperation with VGU
- UNDP (United Nations Development Programme), past and current Vietnam projects
- Fraunhofer IBP
- Hanoi University of Civil Engineering (HUCE)
- Ton Duc Thang University (TDTU)
- Vietnamese Institut of Building Materials (VIBM)
- Mien Trung University of Civil-Engineering (MUCE)
- Industry representatives (German/Vietnamese)
- Further stakeholders

### Selected BMBF funded research projects or GER-VN HEI-cooperation

- CAMaRSEC / CLIENT II
- SAND! / CLIENT II
- SHRIMPS / CLIENT II
- REBUMAT / CONNECT
- further projects

### Outreach

The concrete outreach is generated by alignment of research agenda with the needs of implementation partners and ministries. Impulses, ideas and concrete suggestions on how to enhance the impact of research and HEI cooperation between Germany and Vietnam developed in this workshop are intended to be presented in the GVSD plenary session on Day 2.

### Contact

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2. Dr. Lê Trung Thành, president, Vietnamese Institute for Building Materials,  
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3. As facilitator: Roland Keil, German Aerospace Center Project Management Agency (DLR-PT),  
[roland.Keil@dlr.de](mailto:roland.Keil@dlr.de)

### Agenda

April 26th, Duy Tân University

Time	Program	Speaker/Comments
5min	Opening remarks	Roland Keil, DLR-PT
5min	Objectives of the workshop	Prof. Dr. Dirk Schwede Dr. Lê Trung Thành
10min	Actions and Needs towards climate protection in Vietnam's construction sector	Nguyễn Công Thịnh (MOC, DoSTE) (tbc)
10min	Actions and Needs towards climate protection in Vietnam's science and technology field	scientific expert (MoST) (tbd)
10min	Energy efficient and durable building in the climate and changing context of Vietnam, input from CAMaRSEC, other CLIENT-projects	Prof. Hartwig Künzel (Fraunhofer IBP) (tbc)
40min	Short impulse statements of implementation partners to <b>collect the main current topics</b> (participants: tbc. GIZ, DENA, UNDP, VGBC, Developer, MoC, Vietnam Initiative for Energy Transition (5min each, 3 slides))	
30min (or shorter to catch up time)	getting feedback from the audience <b>current and future</b> topics (2030, 2040,2050),  - collecting answers in interviews  - collecting answers on post-its, etc.  - perhaps via app and metaboard	lead of discussion groups (tbc): - Prof. Dr. Dirk Schwede - Dr. Lê Thị Song - Dr. Michael Waibel - A. Prof. Nguyễn Văn Tuấn - Dr. Phạm Thị Hải Hà - As. Prof. Bùi Quốc Bảo
10min	Conclusions	- Key points for Cross-dialogue  - Key implementation actions and actors:



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		- Proposed next steps
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