



Climate Change

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

Workshop

Climate Change



Q1

Which bottlenecks for effective climate protection actions can be addressed by cooperative research between Germany and Vietnam?

Q2

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?

Q3

How could a research-to-implementation-roadmap be drafted to guide effective research towards climate-change mitigation and climate adaptation in Vietnam and in Germany?

Q4

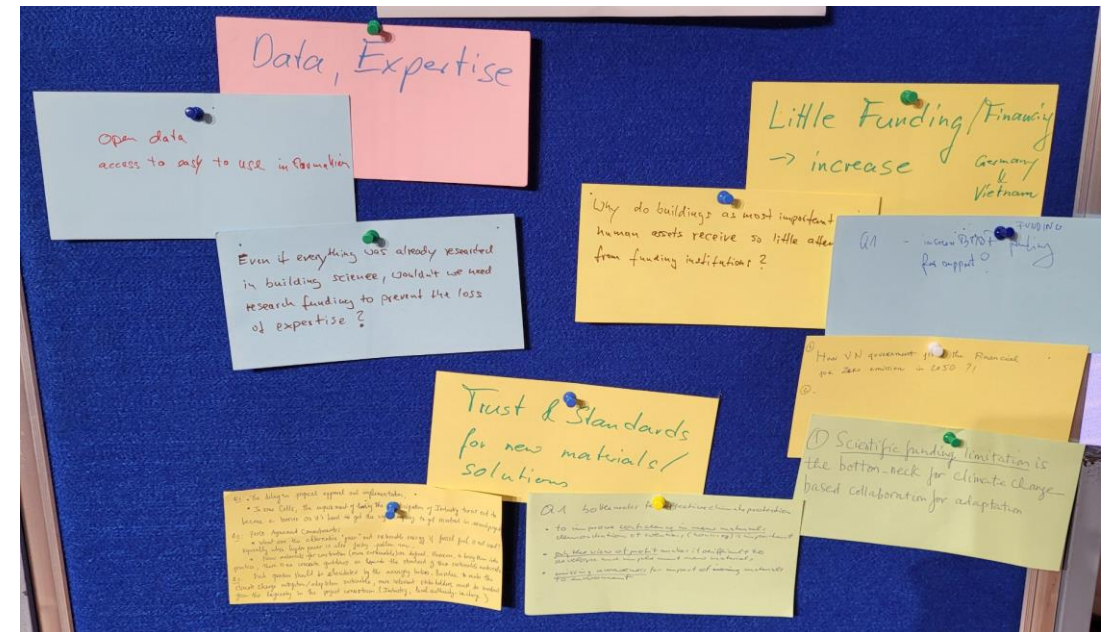
How does bilateral cooperation contribute to Vietnam's and Germany's respective science and innovation strategies?

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Q1

Which bottlenecks for effective climate protection actions can be addressed by cooperative research between Germany and Vietnam?

- data availability
- missing trust in advanced solutions
- limited funding for science

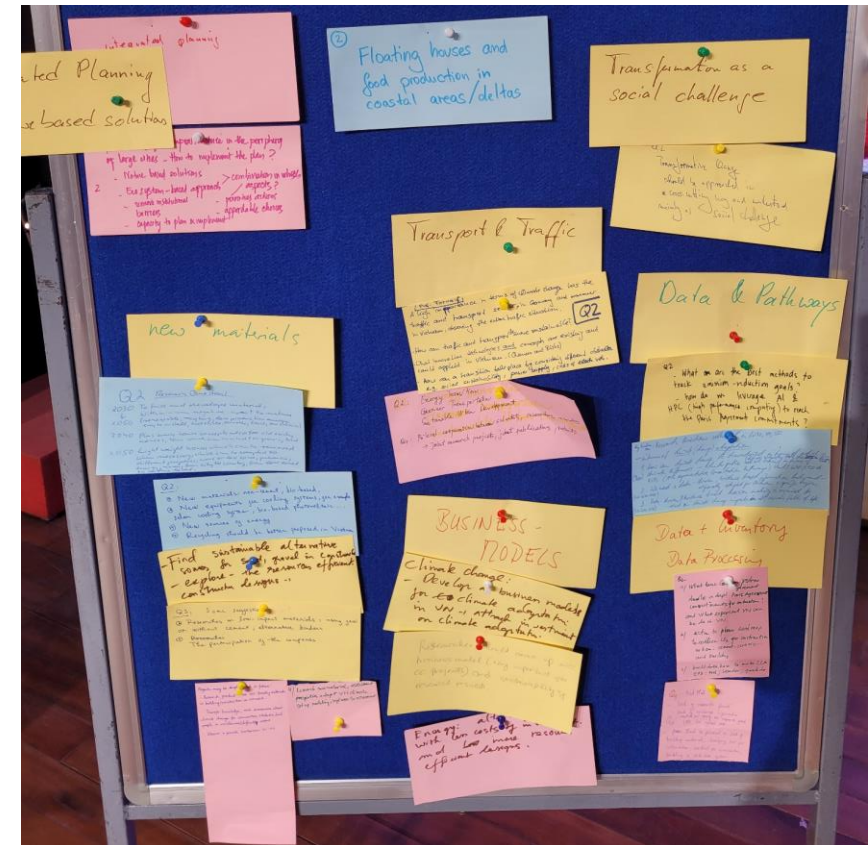


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Q2

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?

- integrated planning / transport / new materials / more resource-efficient
- business models
- research on data utilisation and pathways / tracking of GHG goals

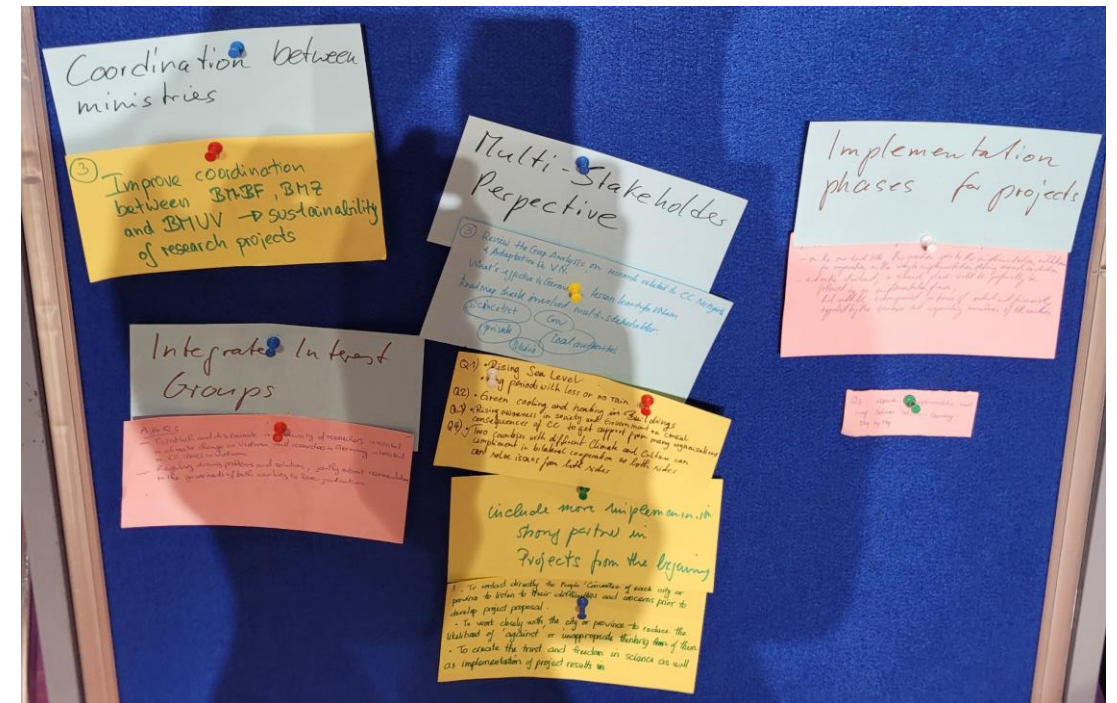


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Q3

How could a research-to-implementation-roadmap be drafted to guide effective research towards climate-change mitigation and climate adaptation in Vietnam and in Germany?

- coordination between ministries and other stakeholders
- integration of interest groups
- multi stakeholder perspective
- long-term phased projects

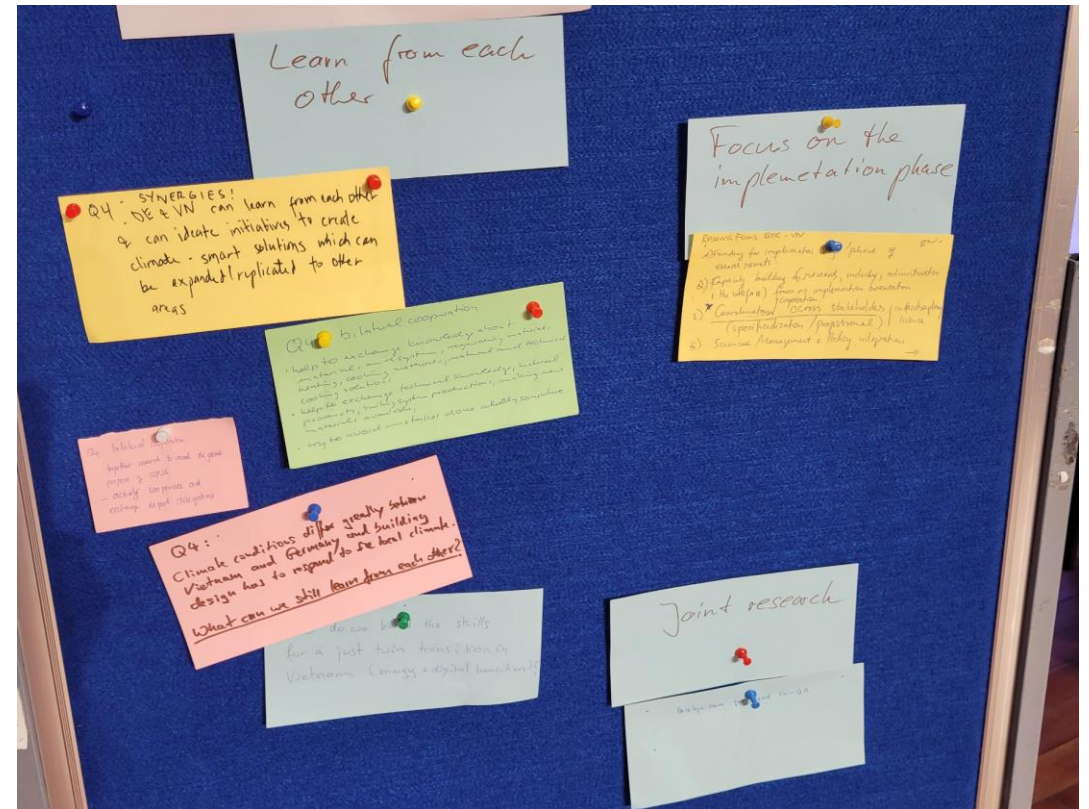


Workshop Climate Change

Q4

How does bilateral cooperation contribute to Vietnam's and Germany's respective science and innovation strategies?

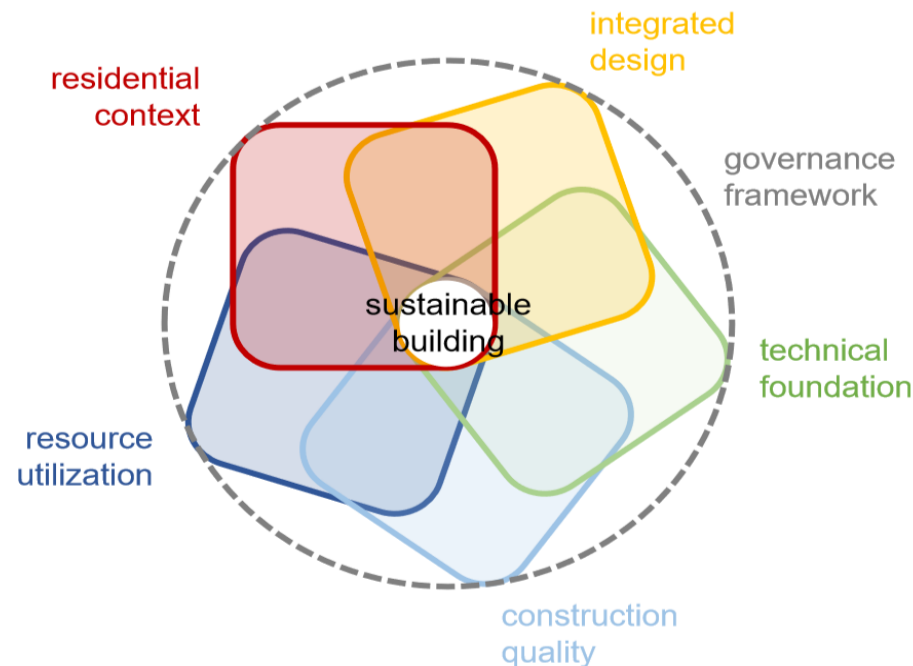
- more joint research
- facilitate learning from each other
- focus on implementation



Climate-Adapted Material Research for the Socio-Economic Context of Vietnam (CAMaRSEC) - CLIENT II

Enabling Research and Development for Sustainable Buildings in the socio-economic context of Vietnam

1.7.2019 – 31.8.2023



research consortium:



Hanoi University
of Civil Engineering
Hanoi, Vietnam



Ton Duc Thang
University
HCMC, Vietnam



Vietnamese Institut
for Building Materials
Hanoi, Vietnam



College of Urban Works and
Construction
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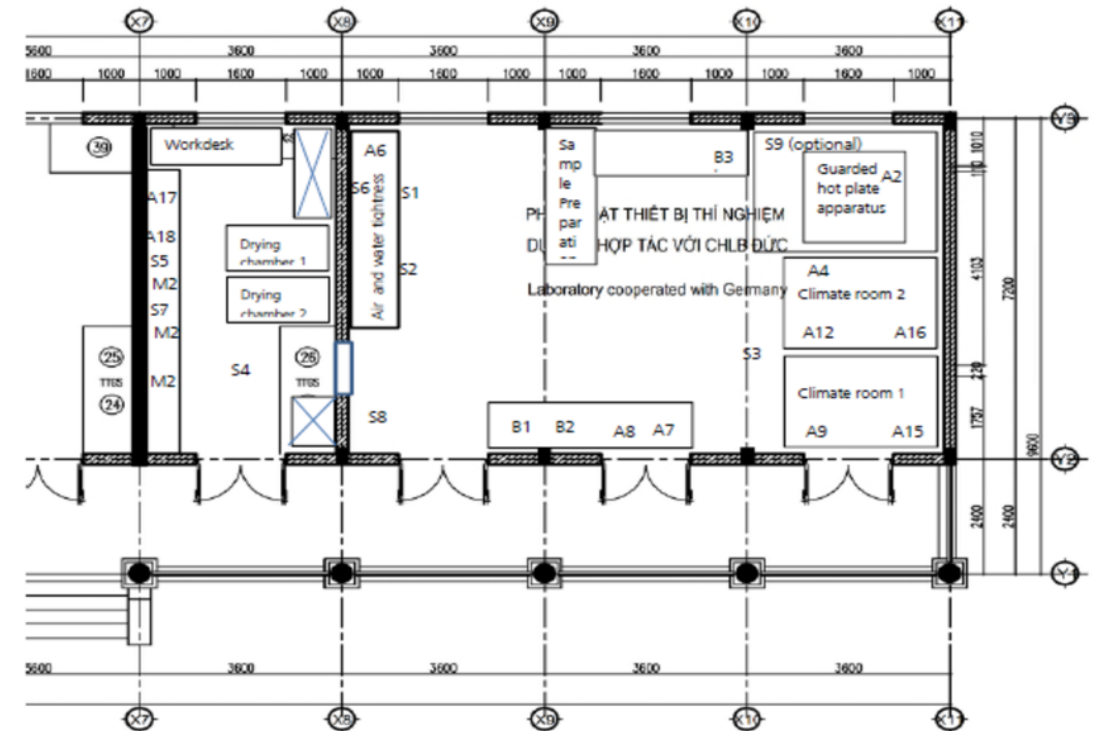


Climate-Adapted Material Research for the Socio-Economic Context of Vietnam (CAMaRSEC) - CLIENT II

Enabling Research and Development for Sustainable Buildings in the socio-economic context of Vietnam



- Laboratory was planned and test equipment was defined
- Testing at different materials at VIBM lab and at Fraunhofer IBP to compare results
- Feasibility study for building physics test facilities infrastructure in Vietnam



Climate-Adapted Material Research for the Socio-Economic Context of Vietnam (CAMaRSEC) - CLIENT II

Enabling Research and Development for Sustainable Buildings in the socio-economic context of Vietnam



- Development of an outdoor test concept for wall testing at VIBM
- Definition of wall systems together with VIBM & WEBER
- Sensor and data acquisitions system developed as plug and play version was calibrated and sent to VIBM
- Test building has been setup by VIBM and measurements are running
- Comparison of different wall constructions allow valuable insights in real life performance
- ✓ Results prove that fired bricks can be successfully replaced by selected materials.

