



## Final program 4<sup>th</sup> Brains4Buildings (B4B) consortium meeting

Date: 17<sup>th</sup> of November 2022, 09:00-17:30

Location: Kropman office, [Zuilenstraat 96, 4813 AC Breda](#)

TIME	ITEM	Room	Lead with
09:00	Registration & welcome with coffee and tea	Canteen	Oana Trifan (TUD)
09:30	PLENARY		
09:30	Welcome: program & practicalities	Canteen	Mirjam Harmelink (TUD)
09:40	Short kick-off by the Advisory Board	Canteen	Member of the Advisory Board
09:50	Status of the B4B project & objectives for today <ul style="list-style-type: none"> <li>– Insights from the first small-scale tests in buildings.</li> <li>– The focus of activities in the coming six months in the living labs and use cases.</li> </ul>	Canteen	Laure Itard (TUD)
10:00	Energy flexibility (WP 2) <ul style="list-style-type: none"> <li>– Example of energy demand &amp; energy supply prediction for flexibility of an energy-producing district in Amsterdam (Wouter Borsboom, TNO)</li> <li>– Outlook on the development of Model Predictive Control for flexibility &amp; tests in buildings (Yun Li, TU Delft)</li> </ul>	Canteen	Baldiri Salcedo (HHS) Tamas Keviczky (TUD)
10:30	User interfaces and feedback (WP 3) <ul style="list-style-type: none"> <li>– End-user requirements: a market perspective on the role of occupancy data in fault detection and diagnosis, control systems and energy flexibility, and market perspective on the role of feedback (deliverable 3.03/3.06)</li> <li>– Introduction of upcoming experiments and discussions in break-out rooms.</li> </ul>	Canteen	Olivia Guerra Santin (TUE) Marleen Spiekman (TNO)
11:00	Coffee & tea break Tour of the smart living lab at Kropman (Group 1 & 2)	Canteen	
11:30	BREAK OUT SESSIONS ROUND #1		
11:30	<a href="#">Breakout #1</a> : Round table on experiences with the Smart Readiness Indicator (SRI) Survey (WP 4) <ul style="list-style-type: none"> <li>– Presentation from Heijmans (Joppe Stello) and Philips (Nico Mutsaers) on their experiences with the Survey</li> </ul>	Room 0.10	Karthik Gunderi (Deerns)



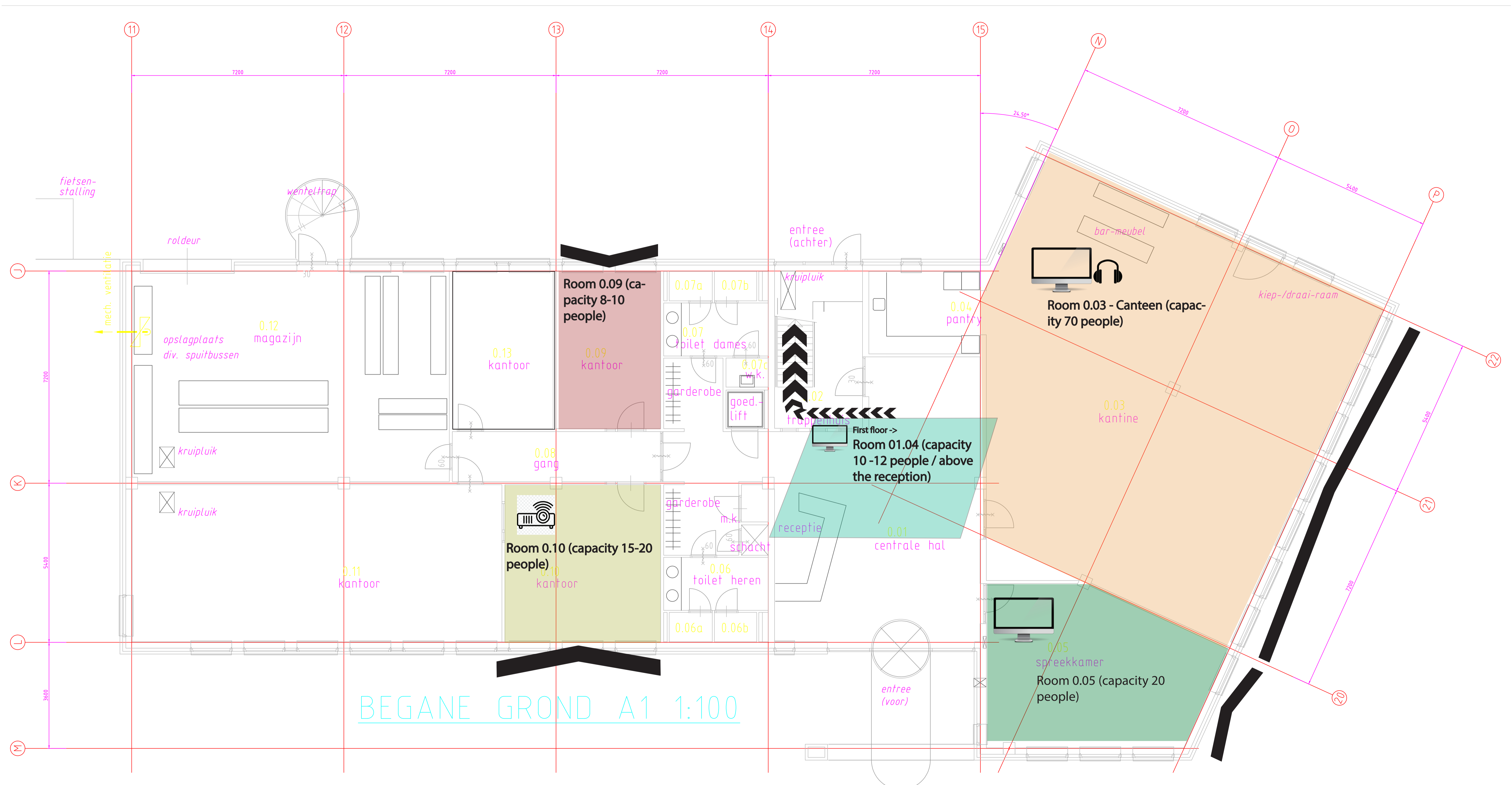
TIME	ITEM	Room	Lead with
	<ul style="list-style-type: none"> <li>– Discussion: What works and what does not? What needs to be improved?</li> </ul>		
	<p><u>Breakout #2:</u> Workshop/roundtable: Energy Flexibility (WP 2)</p> <ul style="list-style-type: none"> <li>– What potential flexibility will we be further exploring in B4B? (Link to IEA tasks)</li> <li>– For which flexibility will we be developing MPC?</li> <li>– In which building do we want to test the MPC?</li> <li>– What will companies pick up?</li> </ul>	Room 0.05	Tamàs Keviczky (TUD)
	<p><u>Breakout #3:</u> Refining the requirements for the redesign of interfaces (WP 3)</p> <ul style="list-style-type: none"> <li>– From interviews with occupants and facility managers a first set of requirements for the redesign of interfaces was drawn up. In this workshop we will check these set requirements in an interactive way with our users (With participation from O-Nexus, Unica and Spectral).</li> </ul>	Room 01.04	Mischa Corsius (HAN)
	<p><u>Breakout #4:</u> Workshop on sensing: discussion and planning of testing of sensors in the living labs and use cases. With participation from ChessWise, AirTeq, Peutz, TNO/Spie, Sensing360</p>	Canteen	Eric van Genuchten (Sensing 360)
13:00	<p>Lunch</p> <p>Tour of the smart living lab at Kropman (Group 3 &amp; 4)</p>	Foyer/Canteen	
13:45	PLENARY		
13:45	<p>Fault Detection and Diagnosis (WP 1)</p> <ul style="list-style-type: none"> <li>– First result of the small-scale test of FDD at the Kropman building.</li> <li>– Follow-up of the test at the TU Delft building 28 (Laure/Ziao)</li> <li>– Progress TNO and SPIE on fault detection (Wouter Borsboom (TNO) and Coen Hoogervorst (SPIE))</li> <li>– Planning of experiments next 6 months and involvement from use-cases</li> </ul>	Canteen	Rick Kramer (TUE)
14:15	<p>Data integration (WP 4)</p> <ul style="list-style-type: none"> <li>– User-centric design and modelling of systems: (1) Present result of inventory of data needs and requirements and (2) Overview of technologies and their affordances</li> <li>– Draft for Reference System Architecture (focus on data integration)</li> <li>– Planned experiments in the coming period: (1) HackMyBuilding (see break-out, TNO), (2) Live Data Access for Control (with WP1 and Kropman) and (3) Generate My Metadata Scheme (TUE, TUD, Philips RE)</li> </ul>	Canteen	<p>Pieter Pauwels (TUE)</p> <p>Lasitha Chamari (TUE)</p>



TIME	ITEM	Room	Lead with
14:45	Move to break out sessions		
<b>BREAK OUT SESSIONS ROUND #2</b>			
15:00	<p><b>Breakout #5:</b> Roundtable on use-cases for validation and upscaling of FDD: discussion on test, what companies will be picking up and how to involve them in the coming period (WP 1)</p> <ul style="list-style-type: none"> <li>Update of research by: Srinivasan Gopalan (PhD, Fault Detection), Karzan Mohammed (PhD, Fault Diagnoses), Petros Zimianitis (EngD, User centric control – APK 2.0), Zlao Wang (PhD, FDD).</li> </ul>	Canteen	Rick Kramer (TUE) + PhDs
	<p><b>Breakout #6:</b> Roundtable on experiments with User Apps (WP 3)</p> <ul style="list-style-type: none"> <li>Experiments with App in the HHS building: objectives, set-up etc. &gt; proposal to use the app for comfort testing in more living labs.</li> <li>Comfort apps in smart buildings, how do we use them and what's their effectiveness? (results of the use of the app for feedback on comfort in the DWA office in Gouda).</li> <li>Results of the trial of vote buttons and QR codes at Spie.</li> </ul>	Room 0.10	Olivia Guerra Santin (TUE) Kees Wisse (DWA) Piet Jacobs (TNO)
	<p><b>Breakout #7:</b> Workshop: "Hack My Building" (WP 4)</p> <ul style="list-style-type: none"> <li>Data security means protecting digital data, such as those in a database from theft, loss, and unintended destruction of data. What are the main aspects of data security in smart buildings and how do we apply them?</li> <li>In this workshop we will use our creative knowledge to design a secure data connectivity framework for our buildings and to test that against potential hacks.</li> </ul>	Room 0.05	Elena Chochanova (TNO) Tousif Rahman (TNO)
	<p><b>Breakout #8:</b> Roundtable on the beta version of the learning platform (WP 5)</p> <ul style="list-style-type: none"> <li>Presentation on: objectives and target group. Demonstration of current status and available features.</li> <li>Discussion: collect feedback, discuss the next steps to promote the use of the platform, and ideas to enrich it with further resources.</li> </ul>	Room 01.04	Laure Itard, Mirjam Harmelink, Pauline van de Vorm (TUD)
16:30	Move to plenary room		
<b>16:30 PLENARY</b>			
16:30	<p>Closing session:</p> <ul style="list-style-type: none"> <li>Summary of discussion and follow up</li> <li>Short wrap-up of the break-out sessions</li> </ul>	Canteen	Laure/Mirjam



TIME	ITEM	Room	Lead with
	<ul style="list-style-type: none"><li>- Ambitions for the coming six months</li><li>- Reflection of advisory board members</li></ul>		
17:00	Drinks	Canteen	



BEGANE GROND A1 1:100

Room 0.09 (capacity 8-10 people)

0.09 kantoor

Room 0.10 (capacity 15-20 people)

0.10 kantoor

Room 0.03 - Canteen (capacity 70 people)

0.03 kantine

First floor ->  
Room 01.04 (capacity 10-12 people / above the reception)

0.01 centrale hal

Room 0.05 (capacity 20 people)

0.05 spreekkamer

0.07a

0.07b

0.07 toilet dames

0.07c w.k.

garderobe

goed.-lift

0.02 trappenhuis

garderobe

m.k.

schacht

0.06 toilet heren

0.06a

0.06b

fietsen-stalling

wenteltrap

roldeur

entree (achter)

kruipluik

mech. ventilatie

opslagplaats div. spuitbussen

0.12 magazijn

0.13 kantoor

kruipluik

kruipluik

0.08 gang

receptie

receptie

bar-meubel

kiep-/draai-raam

entree (voor)

7200

7200

7200

7200

24.50°

7200

5400

5400

7200

7200

5400

3600

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