



## Proposals for NORMAN Joint Programme of Activities 2025

<b>Title</b>	Updating indoor data collection templates and harmonizing metadata in support of indoor environment projects
<b>Type of activity</b>	
<b>Leader</b>	Lisa Melymuk, Pawel Rostkowski, Nikiforos Alygizakis, Maja Nipen, Pernilla Bohlin Nizzetto
<b>Topic / activities</b>	<p><b>Background / Justification for the proposed activity:</b>  <i>Indoor environments</i> are a key area of interest for both the NORMAN network and other on-going initiatives/projects (e.g., PARC, IDEAL cluster of Horizon Europe projects on indoor air). Many of these projects look to the NORMAN database structure for guidance on structures, metadata and data collection templates for indoor and other databases. For example, the IPCHEM indoor module has incorporated NORMAN indoor database structures related to building categorization and sampling parameters in its data structures (Kephalopoulos et al., 2022; <a href="https://doi.org/10.1016/j.ijheh.2020.113515">https://doi.org/10.1016/j.ijheh.2020.113515</a>). The increasing number of projects and growing interest in indoor environments necessitates updates to the data and metadata structures related to indoor air and dust data to ensure that the NORMAN database system remains a relevant repository of newly generated indoor data, from NORMAN projects as well as other indoor projects in which NORMAN partners are involved.</p> <p><b>This proposal aims to bring together key stakeholders in the generation and harmonization of indoor data to critically evaluate the indoor data structures in the NORMAN indoor database and update metadata structures and data collection templates where needed.</b>  This will be driven by NORMAN members, in particular NORMAN WG 6, and also seek the involvement of members of the IDEAL cluster (<a href="https://www.idealcluster.eu/">https://www.idealcluster.eu/</a>) and PARC 4.2_Y3_Human exposure, WP7, and WP9.</p> <p><b>Objectives:</b></p> <ol style="list-style-type: none"> <li>1. To analyse existing data and metadata structures and DCTs with the aim of highlighting areas of for improvement to storage and use of currently generated indoor environmental data.</li> <li>2. Test and optimize indoor DCT to align with the current needs of researchers generating indoor data;</li> <li>3. To produce an updated indoor database system which supports NORMAN indoor projects and other indoor projects in which NORMAN partners are involved.</li> </ol> <p><b>Description of the proposed activity and expected outcomes for 2025:</b></p> <ol style="list-style-type: none"> <li>1. Practical evaluation and testing of existing NORMAN indoor data structures and DCTs in the context of newly generated indoor data.</li> <li>2. Online workshops with indoor researchers outside NORMAN to discuss challenges in sharing of indoor data.</li> <li>3. Publication for submission (proposed journal: <i>Indoor Environments</i>) describing the NORMAN databases structure and discussing challenges in the storage and sharing of indoor data.</li> </ol> <p><b>Added value / Link with other NORMAN activities and / or other projects</b></p> <p>We will facilitate direct links between WG6 and NORMAN database team, and indoor data producers outside of the NORMAN network (PARC, IDEAL).  We will ensure the long-term use of the NORMAN indoor data structures by ensure support of the data structures in the wide indoor community, improving the potential for the NORMAN indoor database to be the primary repository of indoor environmental data on chemicals of emerging concern.</p>
<b>Participants</b>	MU (RECETOX), NILU, EI
<b>Proposed contribution</b>	<p><b>in-kind</b>  Via PARC activities: data and metadata structures produced for environmental data  Via IDEAL activities: evaluation of current available database serving as repositories of indoor data; network of subject matter experts with experience in different types of indoor environmental data.</p>
<b>Contribution needed from NORMAN Association<sup>1</sup></b>	~3500 Euros for support of OA publication

<sup>1</sup> Please, provide here a transparent justification of the requested resources and of the in-kind contribution, thereby distinguishing between the costs associated with “person-months” for the organisation, the “travelling costs” for invited speakers and the costs for the logistics (e.g. meals, room rental etc.)