The retrofit of social housing can have positive social, health and financial outcomes for low-income populations. Upgrading the existing stock of social housing (SH) offers an opportunity to ease the effects of inadequate housing through improvements, reduce social costs, alleviate housing deficits and promote sustainability. Targeted upgrading efforts need impact sensitive processes, which involve stakeholders. These are primarily end-users, but also housing and construction companies, design professionals, etc who have specific, at times, conflicting needs and interests. Shifting from individual to more collective engagements, through innovative mediation, should bridge boundaries between stakeholders.

This presentation focuses on research results of a 2-year international research project called ‘U-Value: User-Valued Innovations for Social Housing Upgrading through Trans-Atlantic Living Labs’. The research premise was that by applying and refining Living Labs in the SH context, user-valued innovations could be identified. Boundary Objects (BOs) with advanced communication tools (Augmented reality-AR, Virtual Reality-VR, sketches, Building Information Modelling-BIM) were investigated to support decision-making, contribute to idea generation and mediation. A transatlantic articulated nexus between research institutions in Brazil (BR), Germany (DE), the Netherlands (NL) and the United Kingdom (UK) addressed social challenges through SH upgrading protocols.

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