Studying Co-design
How Place and Representation Would Change the Co-design Behavior?

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Abstract. This paper reports the results of a protocol study which explores behavior of designers while they design in pairs using sketching (analogue and remote) and 3D modeling tools (co-located and remote) in co-located and remote locations. The design protocol videos were collected, transcribed, segmented and coded with the customized coding scheme. The coded protocol data was examined to understand the changes of designers’ co-design process and their activities of making representation in four different settings. This paper discusses the impact of location and types of representation on collaborative design. The paper concludes that designers were able to adapt their collaboration and design strategies in accordance with the affordability of the used digital environments.

Keywords: Collaborative design · Remote sketching · Augmented reality · Virtual worlds · Protocol analysis