TU Delft
Technische Universiteit Delft

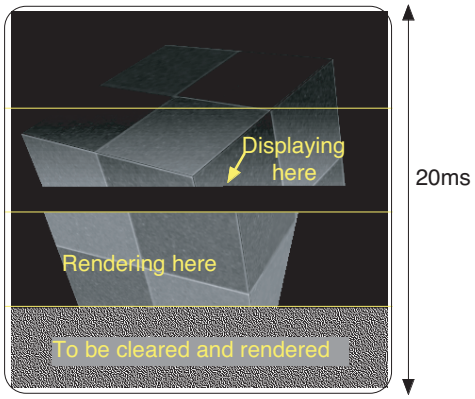
UbiCom

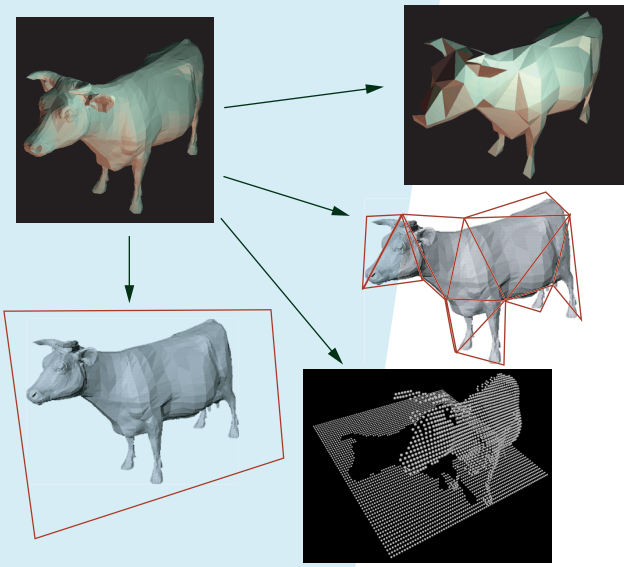
ICT Delft

Low Latency Rendering and Scene Simplification

Low latency rendering

Our prototype system accomplishes a combined rendering and display latency of 8ms by rendering just ahead of the raster beam.

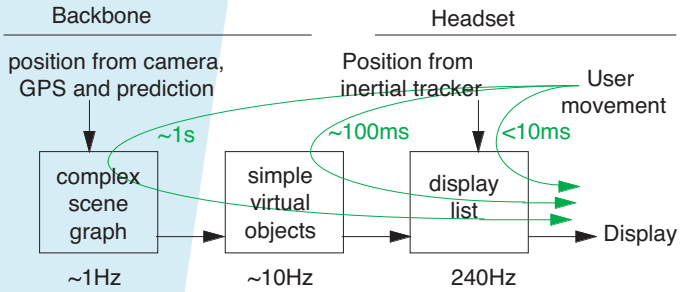




Dynamic Scene Simplification

To use our system in a mobile, wearable system we need to reduce the number of polygons being transmitted to and rendered in the wearable system drastically.

Latency Layering



The image is updated only 10 ms after a user moves, but with only an approximate image. More accurate updates are sent over the mobile link after 100 ms and 1 second.

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UbiCom is an interfacultary research program at TU-Delft, with participation of the Faculties Information Technology and Systems, Applied Sciences, Geo Sciences, and Industrial Design.

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Ubiquitous Communications