(143) Demonstration of the SIMULCAM invented for filming James Cameron's AVATAR - YouTube

<u>Clare 20Louis Facial 20Motion 20Capture 20Research 20Report- 20AUG2014-libre.pdf</u> (d1wqtxts1xzle7.cloudfront.net) (pages 74-76)

Avatar - Behind The Scene (Side by Side) (youtube.com)

The invention of the Simulcam specifically for Avatar allowed for CGI to be melded into the physical filmmaking process, which District 9 did not have access to. They also had access to bigger facilities to do full CGI work with "ping pong ball suits" that allow the actor's full body motions and facial expressions to be mapped onto a character created in CGI.

Cameron also employed a virtual camera system, enabling him to navigate the 3D environment of Pandora as if filming on a physical set. This system offered unprecedented creative freedom, allowing for dynamic and immersive shots that would have been unachievable with traditional cameras

The sophisticated 3D motion capture system allowed for the detailed capture of actors' performances, which were then translated into the digital characters of the Na'vi. This technology significantly enhanced the realism and emotional depth of the characters, setting a new benchmark for visual effects in cinema

Go behind the scenes of District 9 with Peter Jackson (youtube.com)

How Did District 9's VFX Look SO GOOD? (voutube.com)

District 9 FULL BEHIND THE SCENES 1/7 (voutube.com)

District 9 adopted a different approach to technology in filmmaking. Directed by Neill Blomkamp, the film combined traditional techniques with the innovative use of CGI to create a gritty, documentary-style narrative about alien refugees in South Africa. Blomkamp used a blend of practical effects and CGI to create the alien characters known as "prawns." Practical effects added tangible realism, while CGI enhanced the aliens' appearance and seamlessly integrated them into live-action footage

Both films set new standards for visual effects in their respective styles. Avatar demonstrated the potential of high-budget, cutting-edge technology to create immersive worlds, while District 9 showed that innovative use of technology on a lower budget could still produce high-quality visuals