3Shape and Ivoclar Vivadent advance orthodontic treatment simulation and smile design with AR technology

3Shape and Ivoclar Vivadent have integrated Ivoclar’s IvoSmile augmented reality (AR) technology with 3Shape orthodontic and restorative applications.* The collaboration enables orthodontists, general dentists and laboratory professionals to take advantage of IvoSmile when using 3Shape TRIOS Treatment Simulator for orthodontics and 3Shape restorative design software.*

IvoSmile, powered by Kapanu, the AR technology company within the Ivoclar Vivadent group, uses AR for real-time visualisation of patient data in 3-D during consultation for aesthetic dental makeovers. IvoSmile uses live patient images taken on an iPad or iPhone. Integration with 3Shape orthodontic and restorative applications creates a very powerful and emotional consultation tool for patient engagement and for promoting treatment acceptance.

Orthodontists first simulate an orthodontic treatment using the TRIOS Treatment Simulator app, which is included with the TRIOS 3 and TRIOS 4 intra-oral scanners. They then use IvoSmile as a “virtual mirror” to visualise the orthodontic treatment proposal created by the TRIOS Treatment Simulator app. The patient is able to move his or her head freely to view the treatment proposal from all angles.

The 3Shape TRIOS Treatment Simulator app shows the proposed outcome of the orthodontic treatment using animated teeth based on an intra-oral scan. IvoSmile augments the images of the patient’s teeth to show the proposed orthodontic treatment and aesthetic restorative options.

“We are very excited about the collaboration with Ivoclar Vivadent. The integration gives dental professionals using 3Shape’s open solutions another fantastic tool to engage their patients with. For patients, it will make the treatment decision process so much simpler, more visual and exciting,” says 3Shape Vice President for Product Strategy Rune Fisker.