



# Facebook's Face Recognition





# Labeled Faces in the Wild (LFW)





**Human**

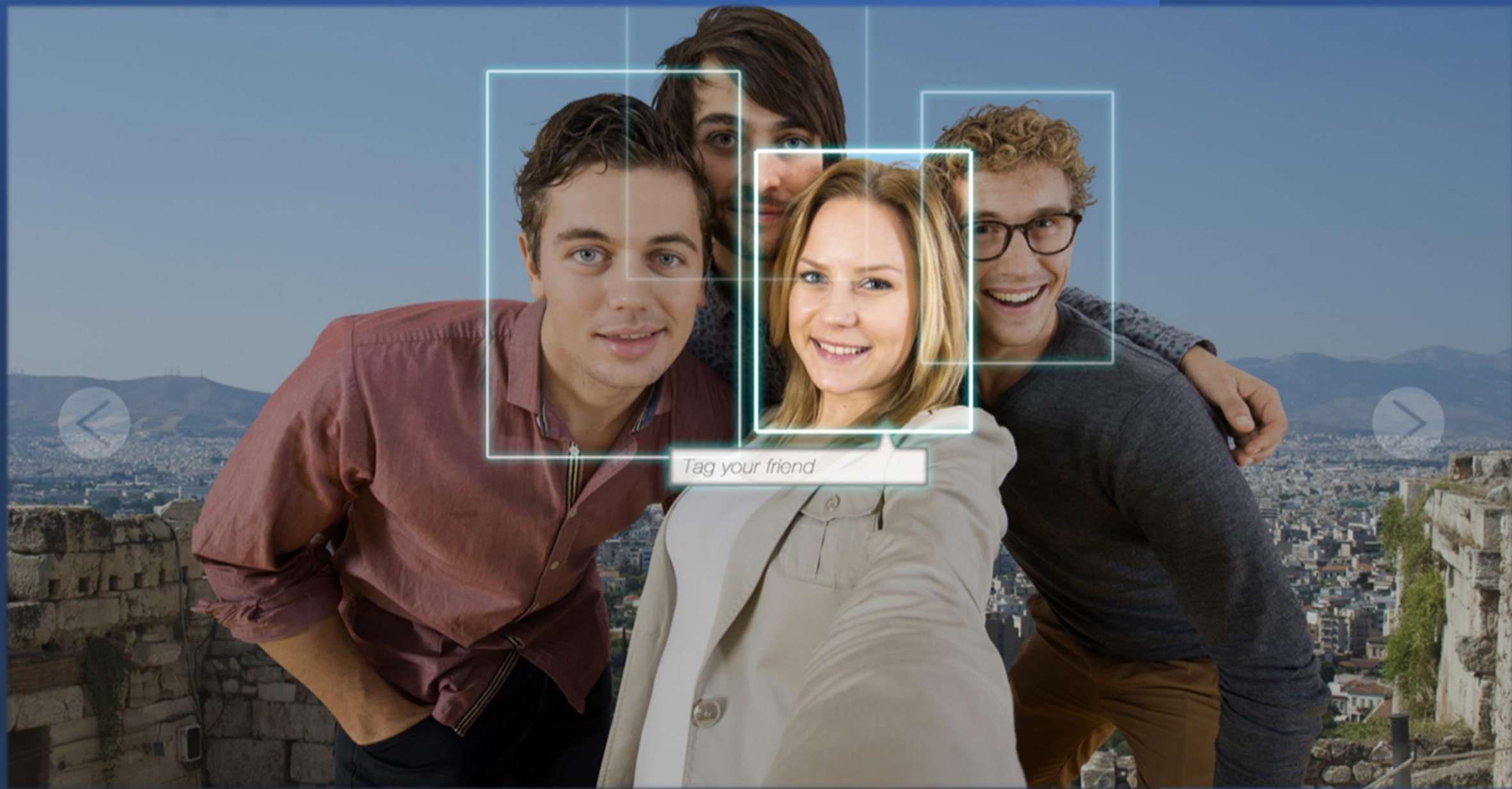
**97.53 %**

**Software**

**97.25 %**









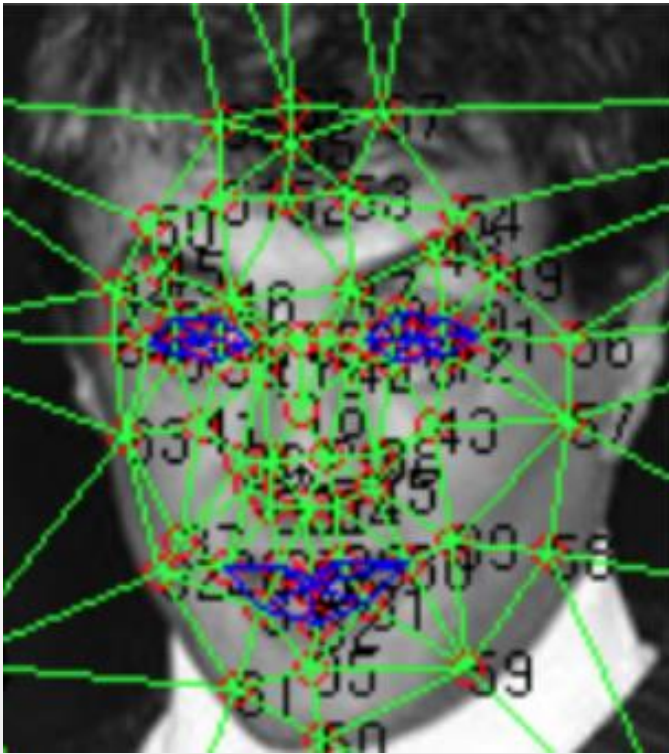
**DeepFace  
(Phase 1)**



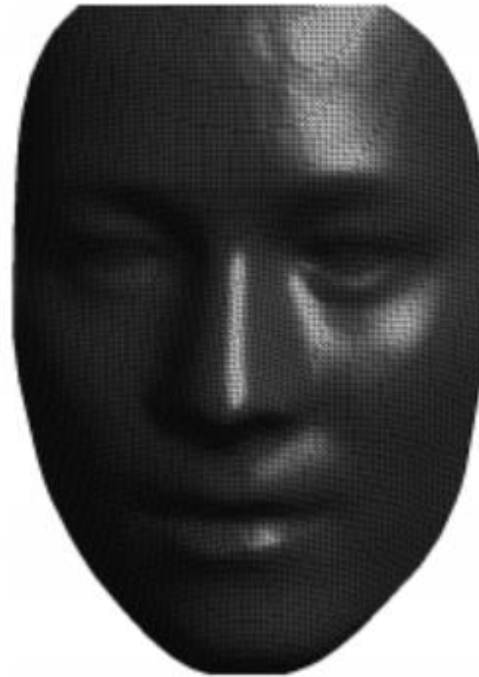


**6-fiducial points**

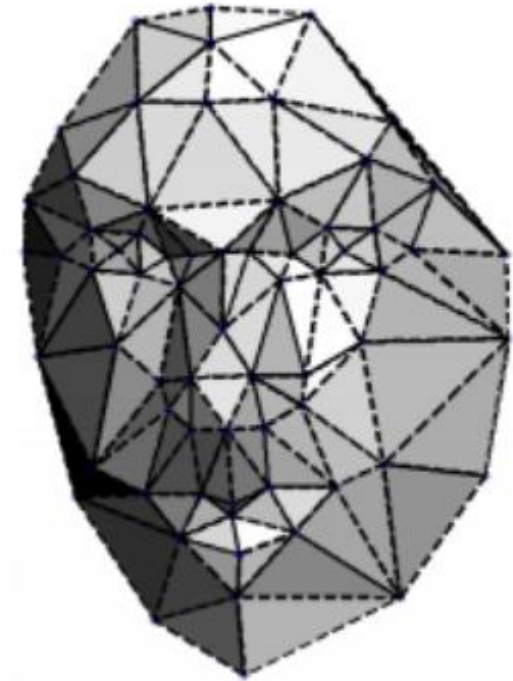




67 fiducial points with Delaunay triangulation

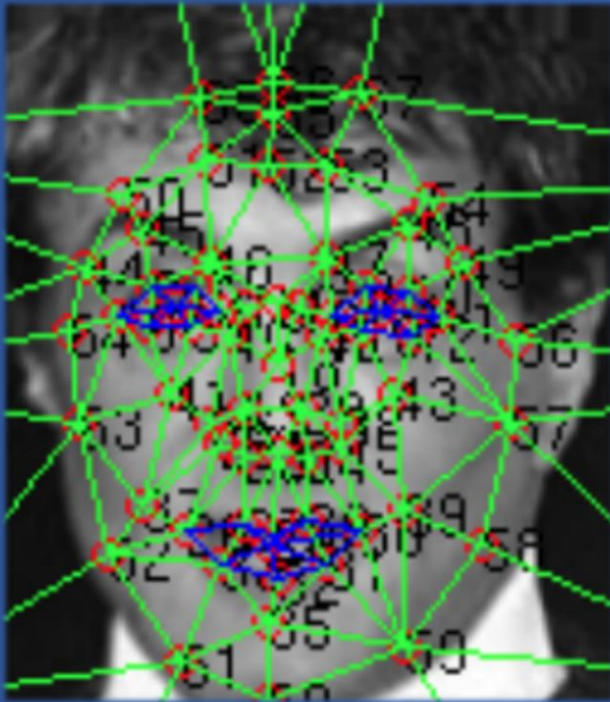


3D shape generated from the align 2D-crop image



Visibility map of 2D shape in 3D  
(darker triangles are less visible as compared to light triangles)



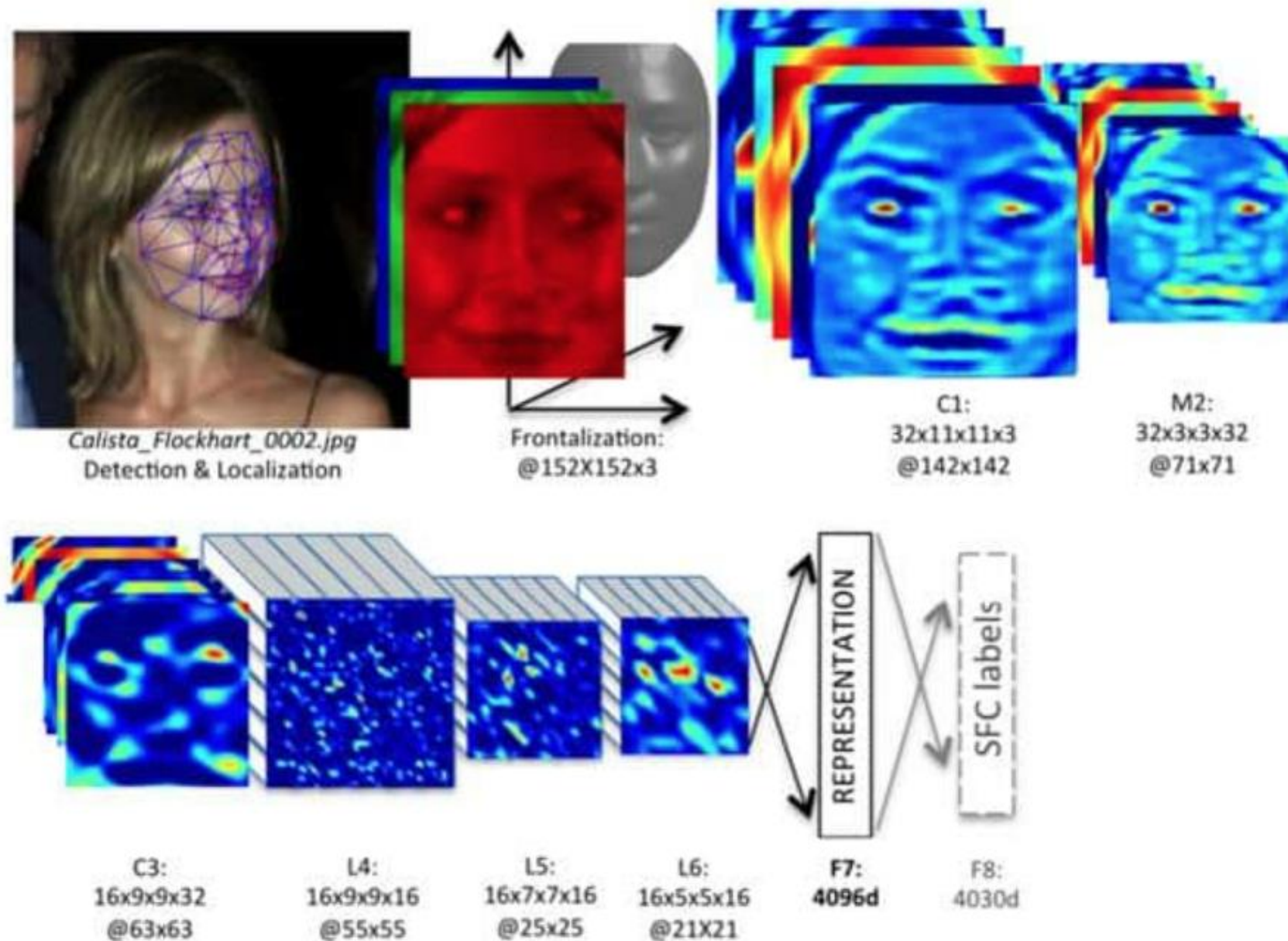


67 fiducial point mapping on 2D-3D affine face



final frontalization

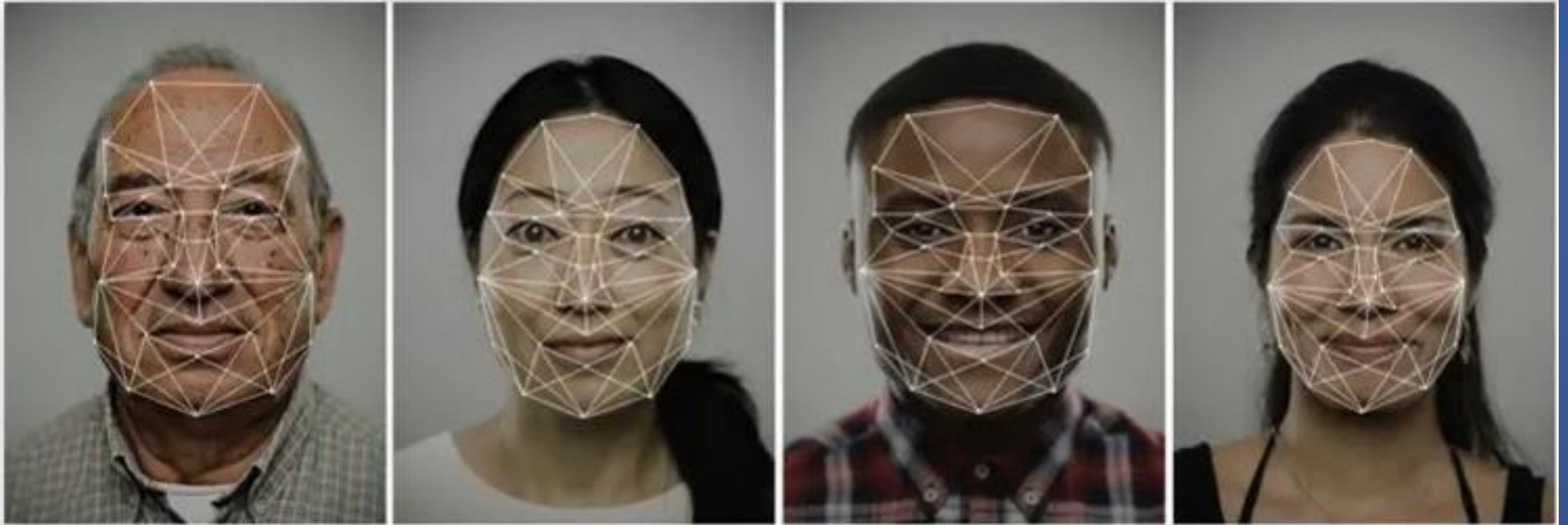
## DeepFace (Phase 2)







**Technology allows social media companies to create their digital profiles**



**The accuracy was much lower when the algorithms are applied to women, black individuals, and young people, because algorithms are primarily trained with white men.**



The background of the slide is a grid of grayscale face images. Each face is overlaid with a white wireframe mesh representing facial landmarks and features. Green L-shaped corner brackets are positioned around the faces, indicating the system's detection of face boundaries. Some faces also have red L-shaped corner brackets, possibly indicating a different state or a specific type of detection. The overall image has a halftone or dithered texture.

**Shut down Facebook facial recognition system**