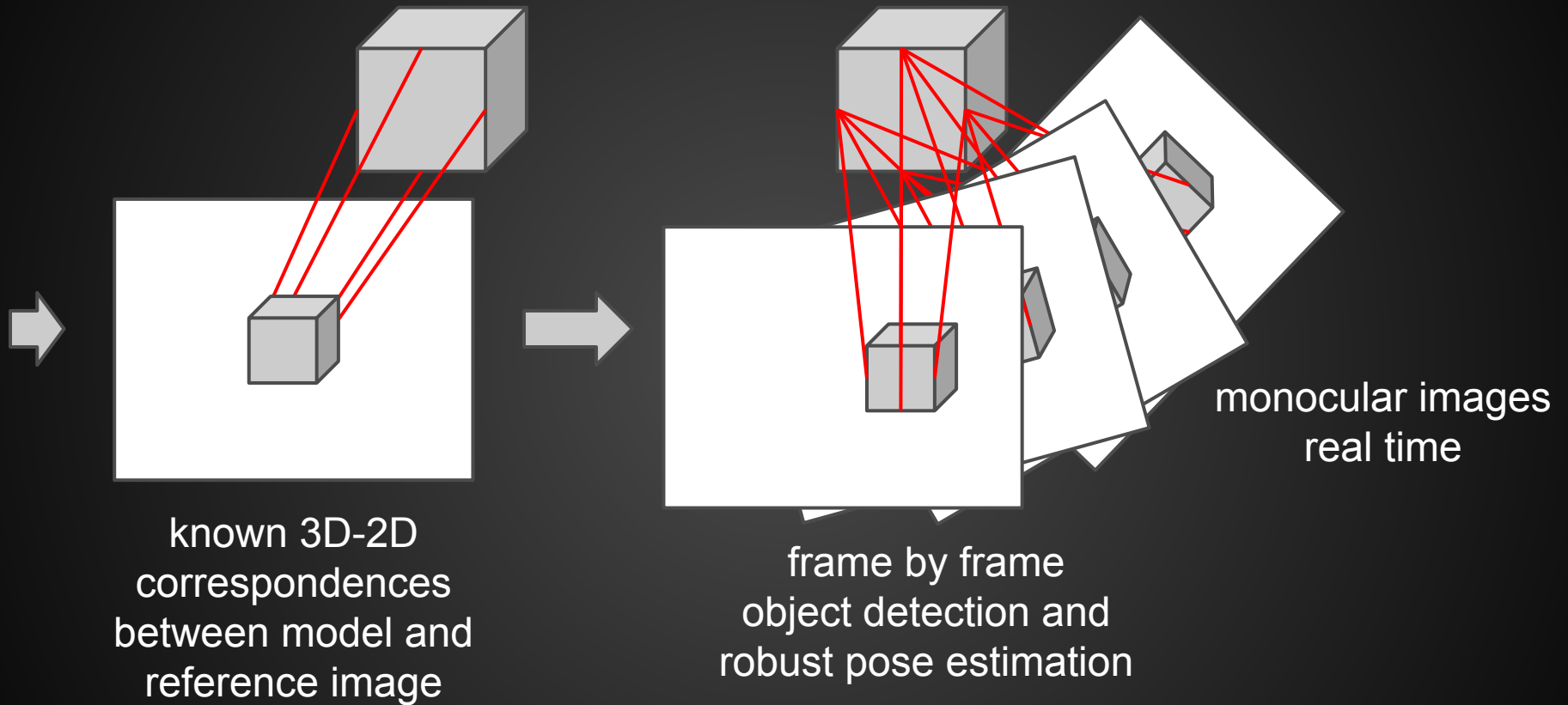


CVR - Final Project

Object Detection and Pose Estimation

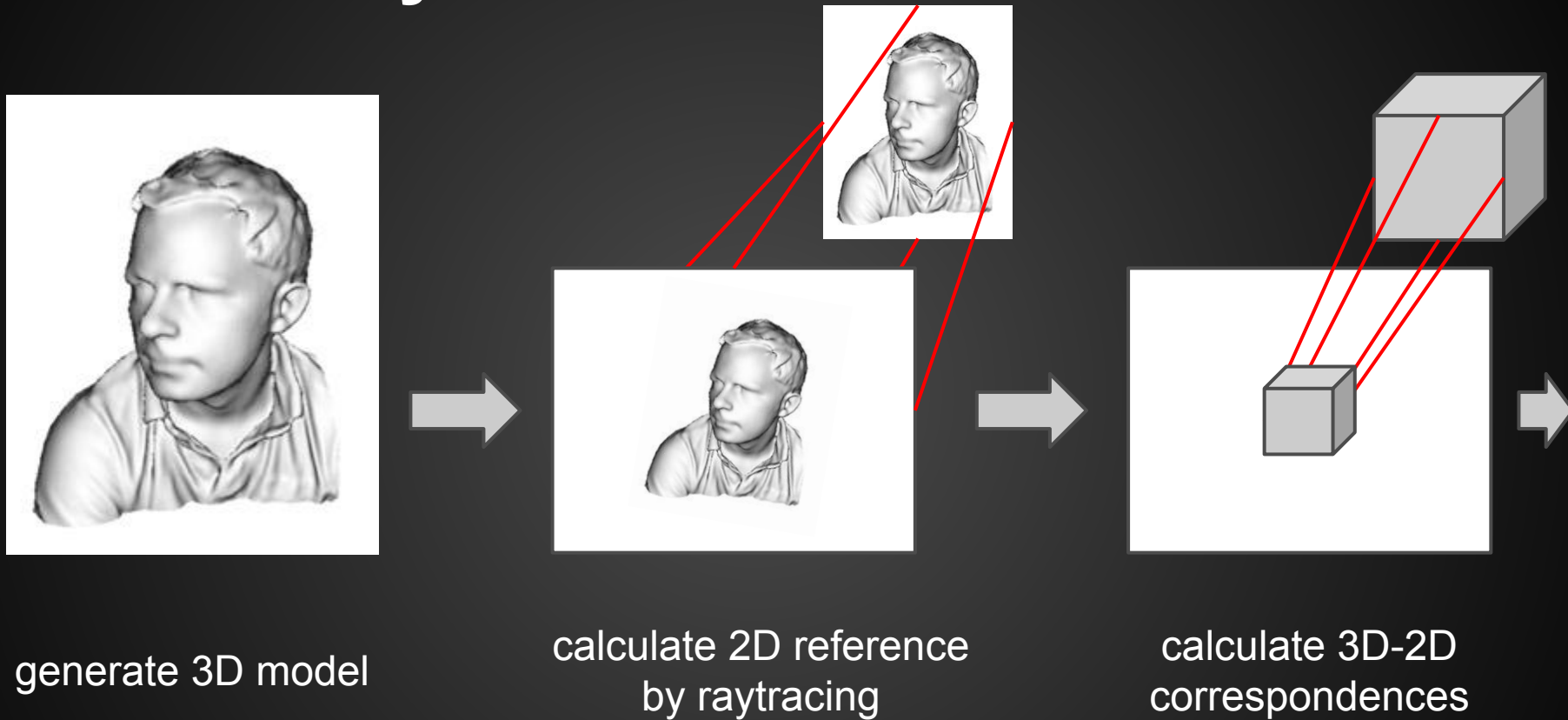
Team Lenna

Primary Goal



Approach: EPnP algorithm

Secondary Goal



Approach: KinectFusion algorithm

KinectFusion: Real-Time Dense Surface Mapping and Tracking; Newcombe R, Izadi S, Hilliges O, Molyneaux D, Kim D, Davison A, Kohli P, Shotton J, Hodges S, Fitzgibbon A; *IEEE ISMAR*, 2011

Roadmap

- -> 24.06.
 - Basic running implementation using OpenCV's [calib3d::solvePnP](#)
- -> 01.07.
 - streamline 3d model acquisition so arbitrary objects can be scanned and then detected
- -> 08.07.
 - impressive additions: [augmented reality on tra](#)
[plane](#) (or 3D object if time permits)