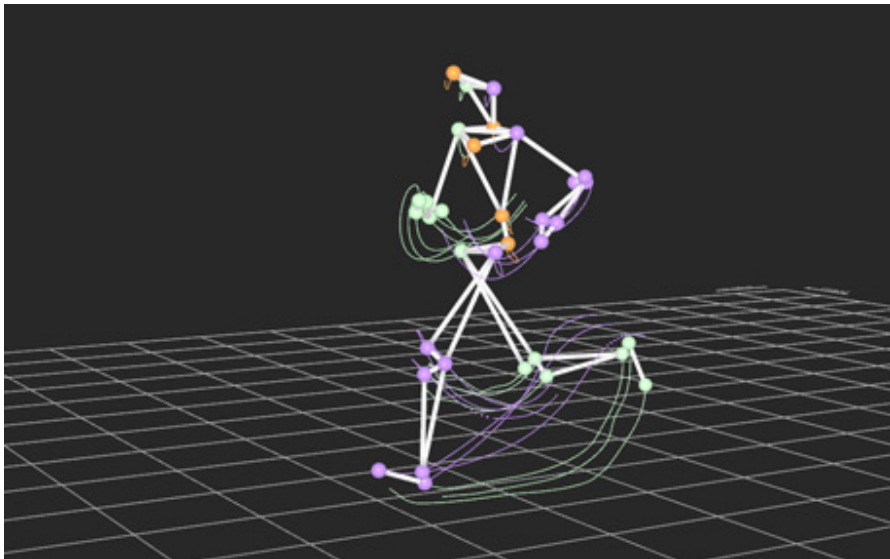


Project proposal



TECHNISCHE
UNIVERSITÄT
DARMSTADT

Utilization of Kinect and Balance Board for Capturing and Analyzing of Human Locomotion



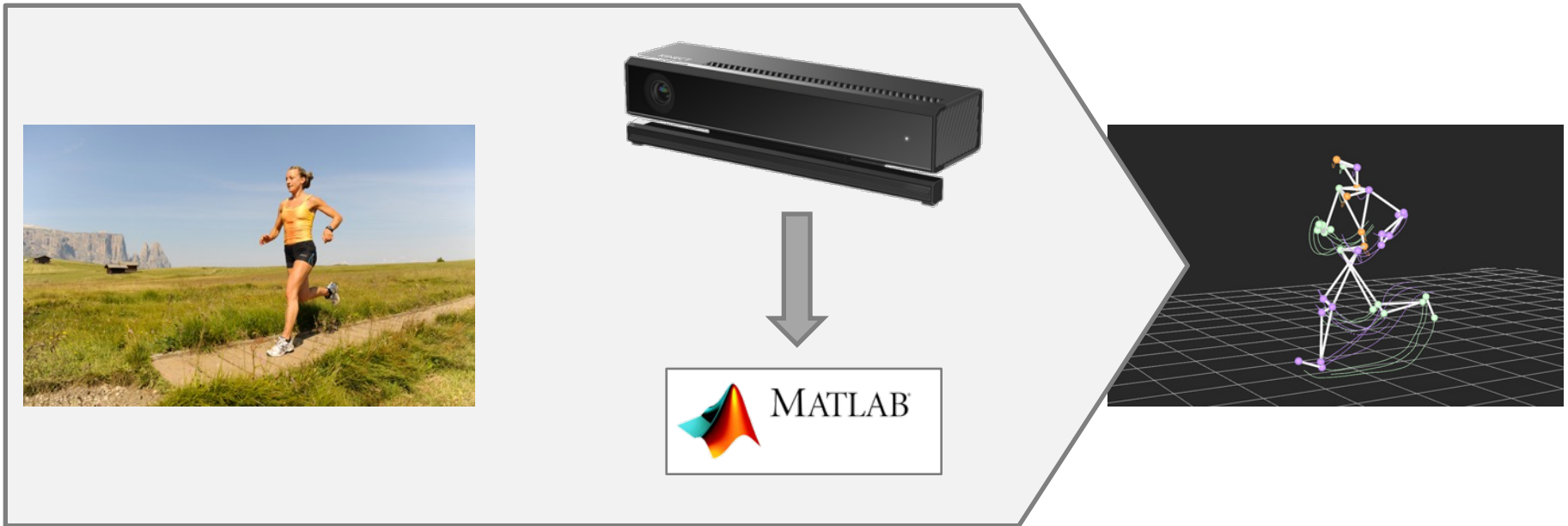
Motivation

Capturing kinematic and kinetic Data is costly:

- High expenditure of time for preparation of experiments (Setup, Marker)
- High expenditure of time for data processing
- High expenditure of money for equipment



Utilization of Kinect and Balance Board for Capturing and Analyzing of Human Locomotion



Work packages

Implementation of gait analysis with Microsoft Kinect and Wii Balance Board

- Development of necessary Software-Interface (existing pre-work)
- Evaluation of system quality in comparison to a state of the art system