

# Simi Reality Motion Systems

Sports Science - Performance Enhancement -  
Advanced Training



## Video Feedback -

**Fast visual feedback**



- Real time feedback
- Multiple camera recording
- High resolution (up to 4K) and high speed (up to 2000 fps)
- Slow motion feedback
- Synchronized video and data display

## Video Analysis -

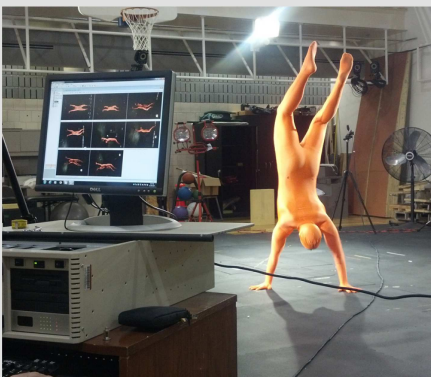
**Validated performance enhancement**



- Side by side comparison
- Superimposed videos
- Static and dynamic measurements
- Digital and analogue data integration
- Marker based and Marker-less motion capturing

## 3D silhouette tracking -

**markerless 3D motion capturing**



- No markers or sensors necessary
- 3D kinematic full body analysis
- Joint rotations, center of mass, torques, etc.
- Fast and easy
- Research grade accuracy
- Hybrid capture options
- Hybrid use possible

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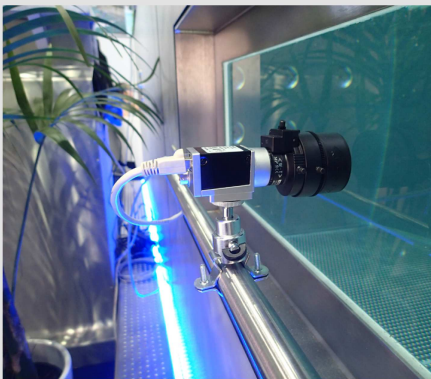


## Biofeedback - validated by real time data



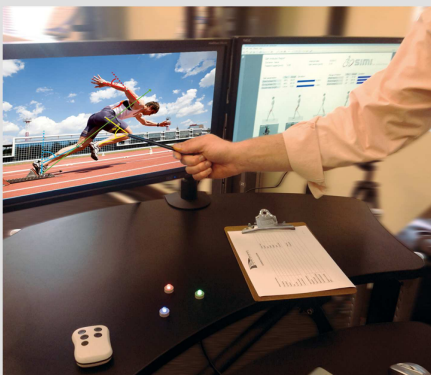
- Real time 2D & 3D Kinematic data, force vector, EMG signals
- Real time visual and audible feedback
- Integration with 3rd party measurement technologies (EMG, Force plates, IMU, pressure and more)

## Motion capturing - Image based and image processing

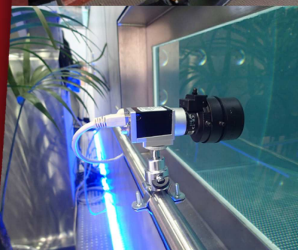
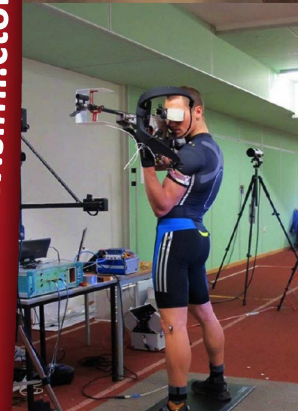
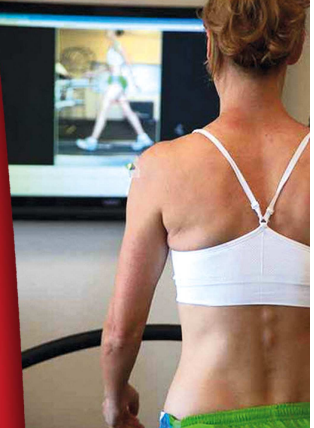


- Indoor and outdoor video analysis
- Fully automated marker tracking (no manual digitalization necessary)
- Under water video analysis

## Data analysis - easy and fast - protocol based



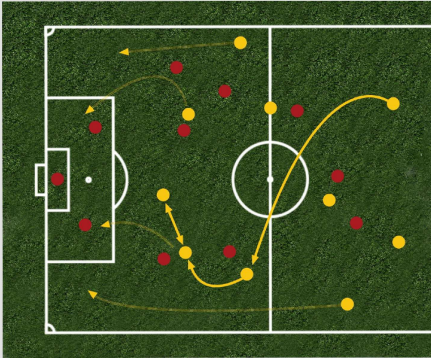
- Custom sport specific measurements and reports
- Applicable for many sports
- Automatic calculations of angles, velocities, etc.
- Highlight and analyze moments of interest



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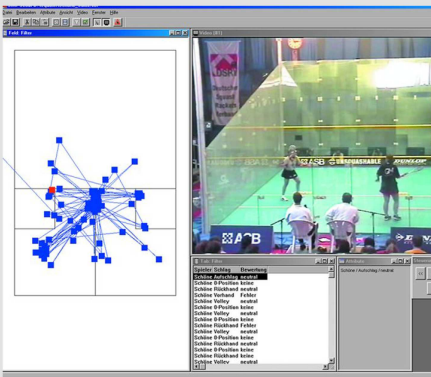


## Simi Behavior and tactics analysis



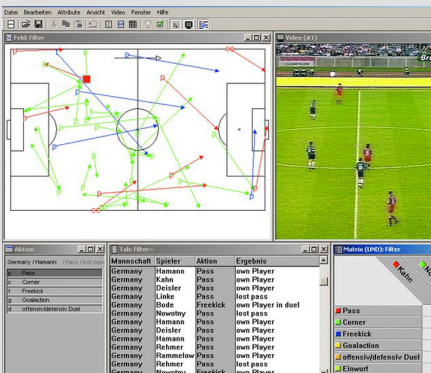
- Visualize chronological events
- Display of movement path, velocities, movement directions, speed

## Simi Behavior and tactics analysis

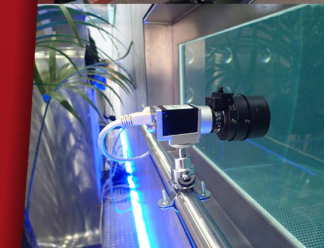


- Automatic tracking of player
- Manual and automatic classification of movement and behavior
- Display and analyze chain of events and actions

## Simi Behavior and tactics analysis



- Add attributes and criteria for tactical analysis
- List of attributes can be defined and customized
- No restriction in number of players and attributes
- Available for all Sports

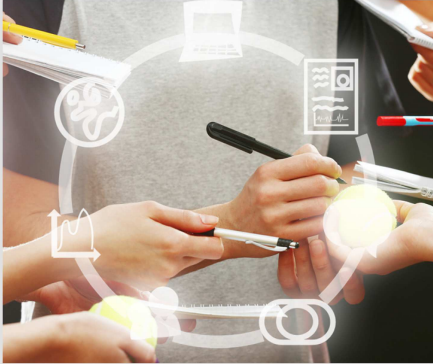


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## Simi - Technology Consulting Service



- Application and Setup consulting
- Custom made calculation templates and reports
- Sport specific technology consulting
- Rent-a-System for special events; service planning, system setup, recordings and analysis included

## Simi - Education and Training



- In house workshops and on-site trainings
- Continuing education seminars
- Access to international partner and lecturer network

## Simi - Partners in Technology



- Performance Enhancement
- Injury prevention assessment
- Feedback training
- Complete data analysis

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