

Seb4vision Player tracking technology solution project document

Project Statement

Seb4vision (Pty) Ltd to strengthen their product offering by introducing Player Tracking Solution to the South African broadcasting market.

This will increase Seb4vision's product offering from 11 to 12.

The system includes optical tracking in real time for all player positions during the match and all aspect of the data collection process is completely non-intrusive to game action. Event logging and or statistics capturing will be done in conjunction with the tracking to provide comprehensive statistics for the clients.

Objectives

- Introduce a new product offering
- Increase product offering to our clients
- Provide a comprehensive football statistical data
- Enhance football graphics product by integrating the comprehensive statistics to graphics templates
- Empower the commentary team by providing the comprehensive statistics on a commentator info software

Tracking data generated

- Individual player data
 - Average speed
 - Total number of meters traveled
 - Speed in 5-minute intervals
 - Number of meters traveled at walking, running and sprinting speeds
 - Number of player sprints
 - Meters traveled while team was on defense
 - Meters traveled when neither team possessed the ball
 - Seconds played when team was on offense
 - Seconds played when team was on defense
 - Seconds played when neither team had possession
- Team data
 - Top-5 players with fastest average speed
 - Top-5 players with most sprints
 - Top-5 players with most meters travelled
 - Team average speed
 - Total meters travelled
 - Number of meters travelled walking
 - Number of meters travelled running
 - Number of meters travelled sprinting
 - Number of meters travelled while team was on offense
 - Number of meters travelled while team was on defense
 - Number of meters travelled while neither team had possession
 - Number of seconds team was on offense
 - Number of seconds team was on defense

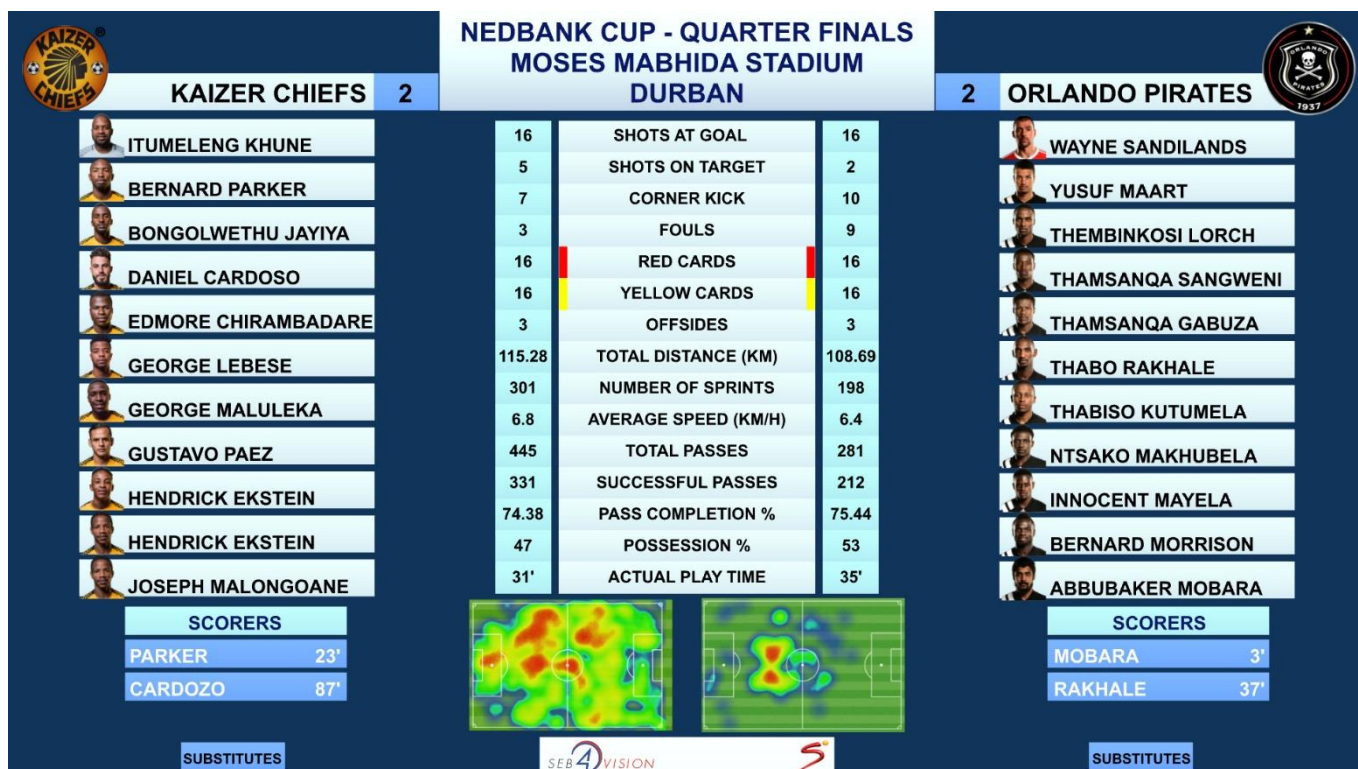
- Number of seconds neither team had possession
- Heatmaps.
 - heatmap images for teams and players.
 - The heatmaps are in a jpg format.
 - The format and design of the heatmap images cannot be changed.

Note: Event logging / statistics capturing will be done in conjunction with the tracking to provide comprehensive statistics. This will include:

- Goalkeeper Saves and ball distribution
- Attempts at goal
- Shots on Target
- Goals
- Corners
- Passes
- Attack Analysis (Left, center and right)
- Fouls
- Cards
- Tackles
- Goal Assists



Commentator Info - Commentators can have access (Via Laptop or touch screen) to real time data where they can comment and analyze the game as it happens at their own time and pace. The presenter, analyst in the studio can have access to the data at the same time.



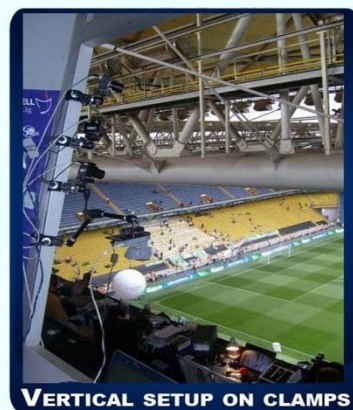
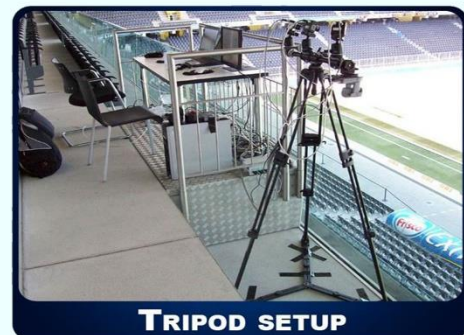
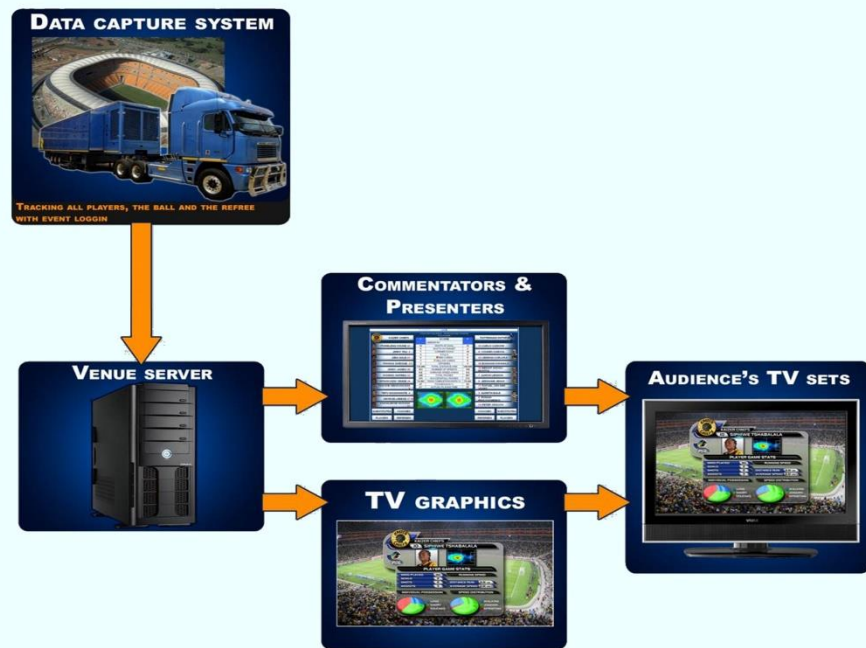
SportVu Equipment Hardware Components

Practical teams

Description	Quantity
Accessory Plate for 200, 3/8	1
Angle	2
Bowl 75mm with Knob	1
Cross Arm	1
Magic Arm with Quick Rel. Plate	1
Mini ball head W/RC2 R.C.SY	3
Tripod legs	1
3/8 Platform ADPTR for 5/8 SOC	3
Super Clamp for Camera Arm	4
Digital case for Compact D/SLR	1
Tracking Camera CMOS Rev5	4
Camera 3.8-13mm lens	4
Laptop	2
1gigabit switch	1
Workstation (server)	1
PTZ Camera	1
Equipment case	2
PC Monitor	1

Setup and operation

- The graphic operator and output machine will be located in the OB Van
- Statistics logger is located in the commentary area
- Player tracking system and operator are set up next to the commentary area or around camera 1& 2 position
- Network is created to interface the logged and tracking statistics and sent to the OB van for display



Training Schedule

No	Date	Event	Venue	Required
1.	Wednesday, 30/01/2019	URI arrives in Johannesburg and travel to Seb4vision offices		
2.		Training	Seb4vision Office	Uri, Lelethu, Thabo and Felix
3.	Thursday, 31/01/2019	Training	Seb4vision Office	Uri, Lelethu, Thabo and Felix
4.	Friday, 01/02/2019	Training – Night Game, Bidvest Wits vs Maritzburg United	Bidvest Stadium, JHB	Uri, Lelethu, Thabo and Felix
5.	Saturday, 02/02/2019	Training – Night Game, Orlando Pirates vs Esperance	Orlando Stadium, JHB	Uri, Lelethu, Thabo and Felix
6.	Sunday, 03/02/2019	Training – Day Game, Bloemfontein Celtic vs Black Leopards	Dr Molemela Stadium, Bloemfontein	Uri, Lelethu, Thabo and Felix
		URI departs to the airport		