

System for Collecting and Analysing Sport Player Physical Data

Small or medium scale focused research project (STREP)

Date of preparation: 23.11.2015.

Work programme topic addressed

ICT 16 – 2015: Big data – research

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Project Partners

Participant no.*	Participant organisation name	Part. short name	Country
1	University of Belgrade, Mathematical Faculty,	MATF	Serbia
2	Samsung, www.samsung.com	SAM	South Korea
3	Nike, www.nike.com	NIKE	USA

Project Abstract

- Real time player analysis
- Goal:
 - Affordable
 - Easily accesible
- Potential to transform and adapt to various sports
- Final product:
 - Commercial system

Concept and objectives

- Developing a system that will ensure a positive future for sport teams
- Watch-like device on a players wrist developed by Nike
- Samsung Data Centre for Big Data analysis
- Integrating all the data in a single solution

Concept and objectives



Concept and objectives



Concept and objectives

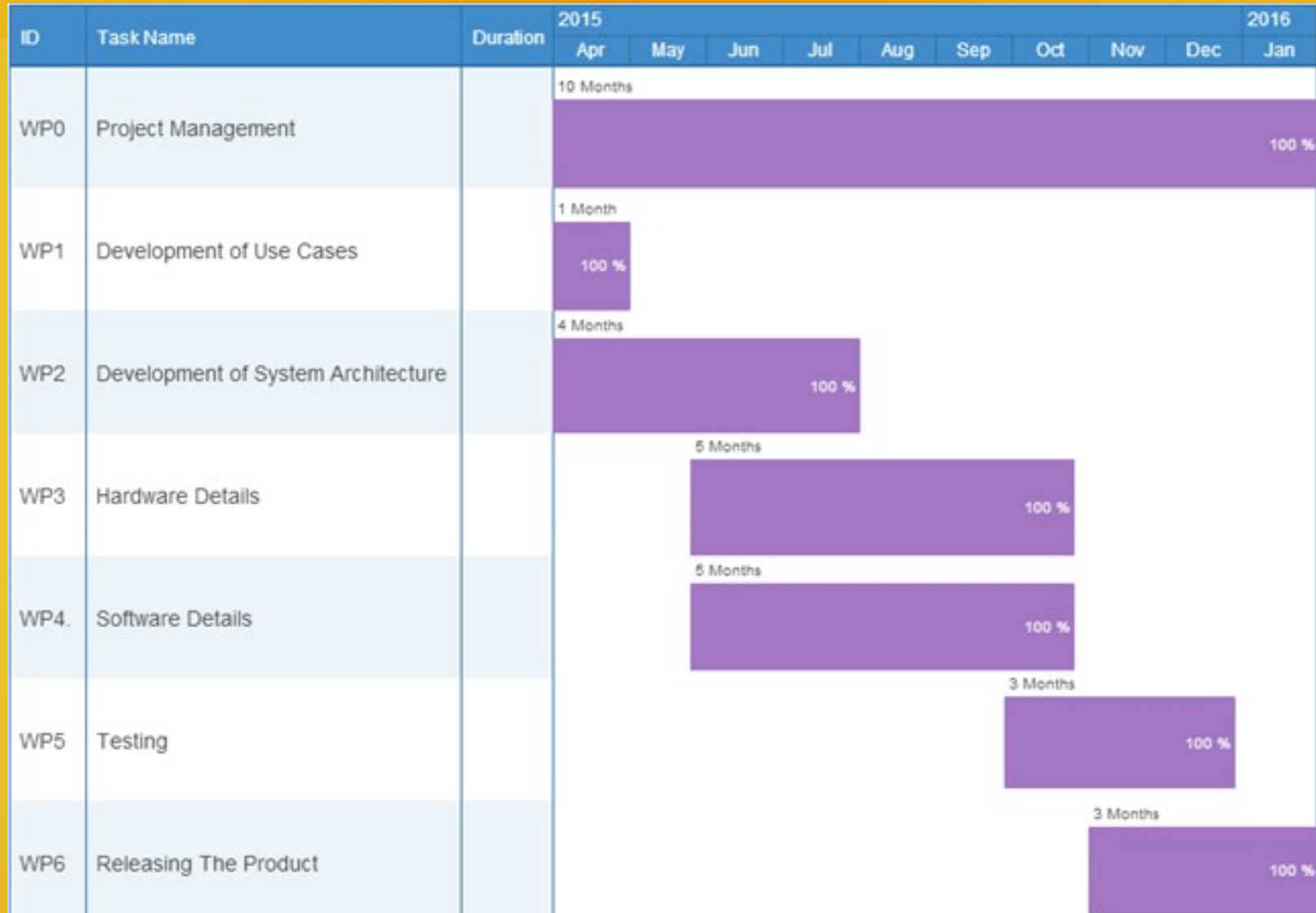


The overall strategy of the work plan

The project is organized in seven work packages as follows:

- WP0 Project Management
- WP1 Development of Use Cases
- WP2 Development of System Architecture
- WP3 Hardware Details
- WP4 Software Details
- WP5 Testing
- WP6 Releasing The Product

Gant chart



Work package list

Work package No	Work package title	Type of activity	Lead partic no.	Lead partic. Short name	Person-months	Start month	End month
WP0	Project Management	MGT	3	MATF, SAM,NIKE	74	M1	M12
WP1	Development of Use Cases	RTD	1	MATF	16	M1	M2
WP2	Development of System Architecture	RTD	2	MATF,NIKE	15	M1	M4
WP3	Hardware Details	RTD	1	NIKE	12	M3	M7
WP4	Software Details	RTD	2	SAM,MATF	17	M3	M7
WP5	Testing	RTD/DEM	3	MATF, SAM,NIKE	150	M7	M11
WP6	Releasing the Product	DEM	3	MATF, SAM,NIKE	60	M8	M12
	TOTAL				344		

Deliverable list

Del. No.	Deliverable name	WP no.	Nature	Dissemination level	Delivery date (proj. Month)
D0.1	Minutes from each Steering Committee meeting	WP0	R	PU	M1,M6,M12
D0.2	Project handbook including quality management plan	WP0	R	PU	M1
D0.3	Periodic reports at periods specified in the Grant Agreement	WP0	R	PU	M1,M3,M6,M9,M12
D0.4	Signed Consortium Agreement	WP0	R	PU	M1
D0.5	Audit certificates for each participant at times stated in the contract	WP0	R	PU	M12
D0.6	Final reports at the conclusion of the project (final activity report, supplementary final reports and a report on distribution between participants of the final payment)	WP0	R	PU	M12

Deliverable list

Del. No.	Deliverable name	WP no.	Nature	Dissemination level	Delivery date (proj. Month)
D1.1	Top level Use Case Diagrams	WP1	O	PU	M2
D1.2	Detailed Use Case Diagrams	WP1	O	PU	M2
D2	Architecture Specification	WP2	R	PU	M4
D3.1	Report on HW built into the system	WP3	R	PU	M7
D3.2	Report on Communication system built into the system	WP3	R	PU	M7
D4.1	Procedure details	WP4	R	PU	M5
D4.2	Algorithmic details	WP4	R	PU	M6
D4.3	Report on SW built into the system	WP4	R	PU	M7
D4.4	Documented code	WP4	R	PU	M7

Deliverable list

Del. No.	Deliverable name	WP no.	Nature	Dissemination level	Delivery date (proj. Month)
D5.1	Report on testing results (MATF)		R	PU	M10,M11
D5.2	Report on testing results (SAM)		R	PU	M10,M11
D5.3	Report on testing results (NIKE)		R	PU	M10,M11
D6.1	Project promotional materials		R	PU	M11,M12
D6.2	E-bulletin/ newsletter released		R	PU	M11,M12
D6.3	TV and internet marketing campaigns		R	PU	M11,M12

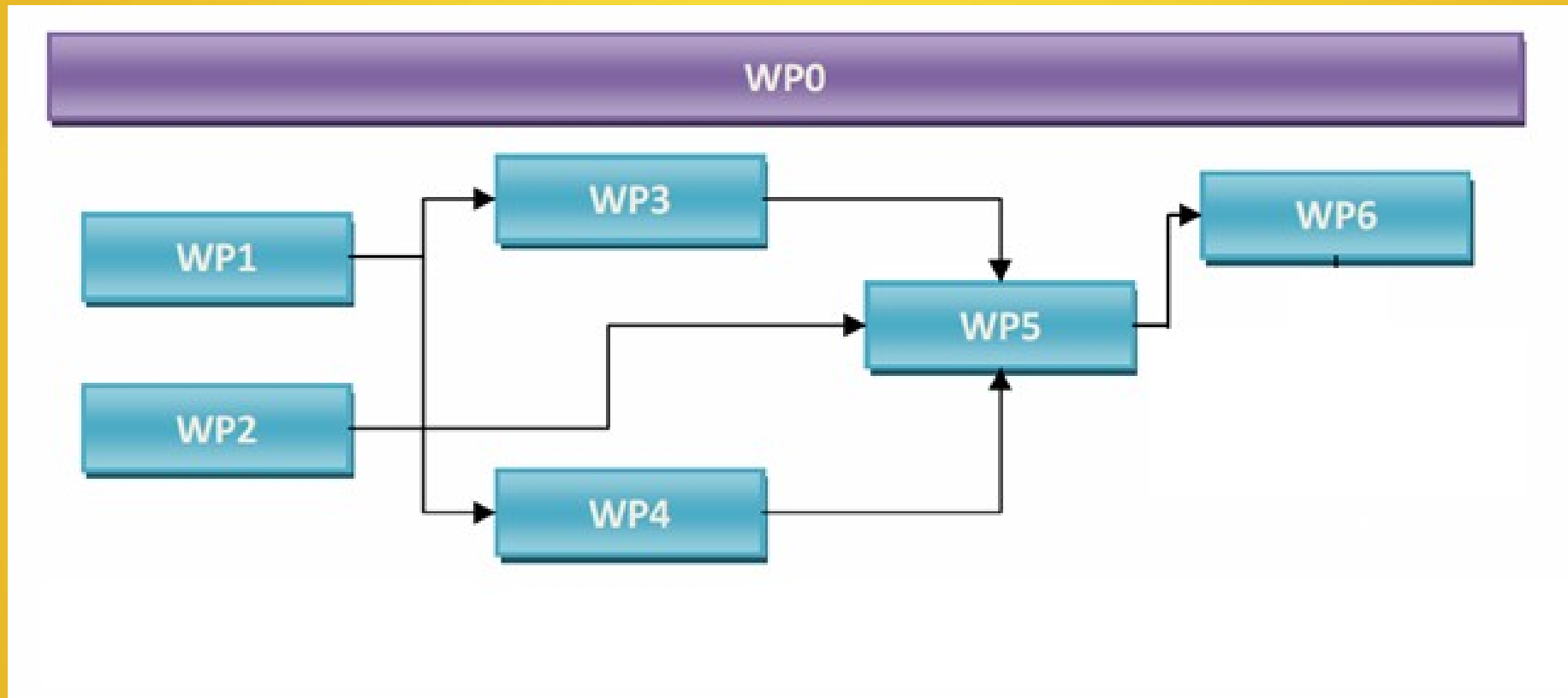
List of milestones

Milestone number	Milestone name	Work packages involved	Expected date	Means of verification
M0.1	Kick-off meeting	WP0	M1	Minutes from kick-off meeting
M0.2	Consortium agreement signed	WP0	M1	Consortium Agreement with partner signatures
M0.3	Project shut-down, all deliverables achieved	WP0	M12	Final deliverables report
M1	Finished Use Cases	WP1	M2	Use Case Documentation
M2	System architecture defined	WP2	M4	Architecture specification
M3	HW details defined and clarified	WP3	M7	HW report
M4	SW details defined and clarified	WP4	M7	SW report
M5	System tested in real life scenarios	WP5	M10-M11	Reports on the testing results
M6	Project marketed	WP6	M11-M12	Project marketing campaign

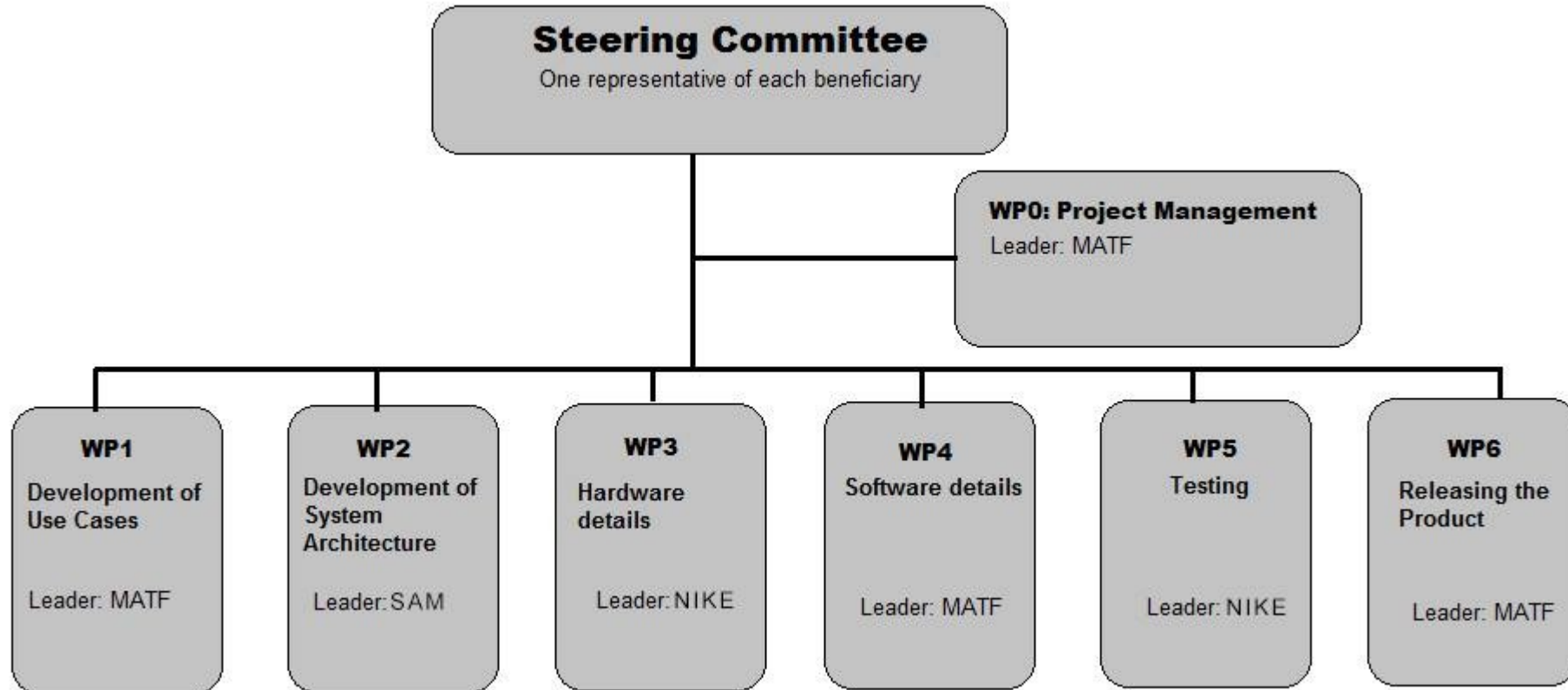
Summary of effort

Partic. No.	Partic. short name	WP0	WP1	WP2	WP3	WP4	WP5	WP6	Total person months
1	MATF	44	16	7	0	7	50	20	144
2	SAM	15	0	8	0	10	50	20	103
3	NIKE	15	0	0	12	0	50	20	97
Total		74	16	15	15	17	150	60	344

Pert chart



Management structure



Ethical issues

- No direct ethical, legal, social and safety issues
- May arise with the training data
- Consent asked beforehand
- **“I CONFIRM THAT NONE OF THE ABOVE ISSUES APPLY TO MY PROPOSAL”**

Questions?

Thank You!