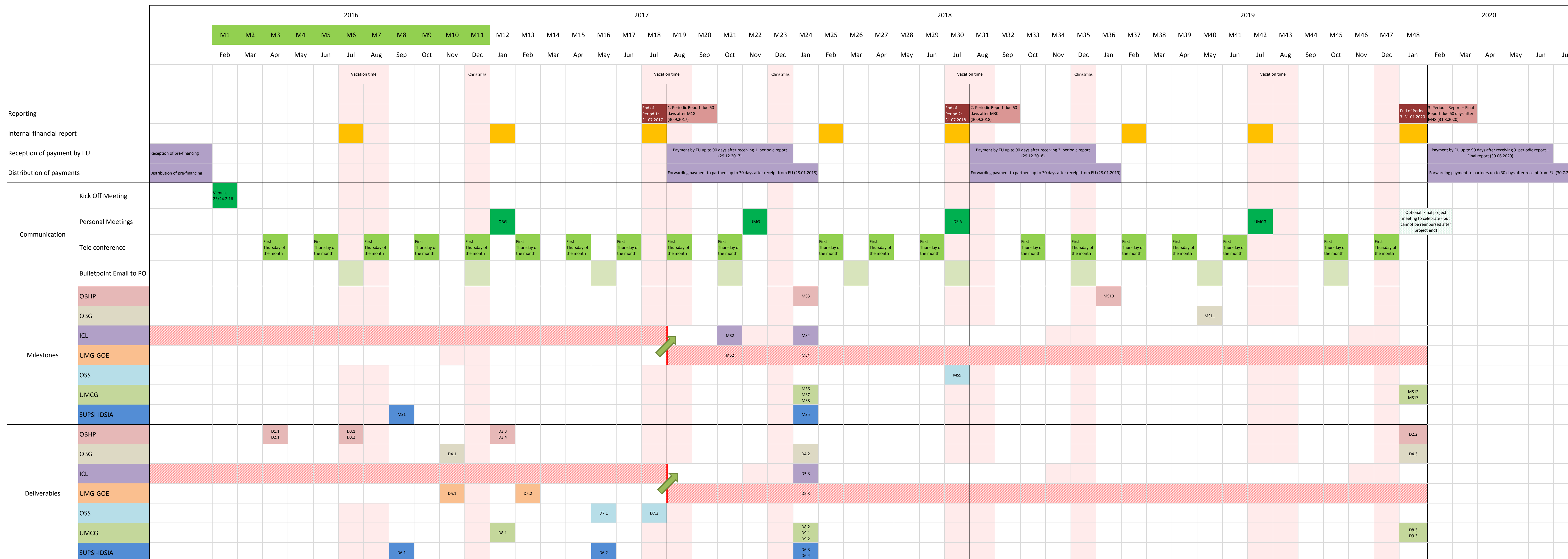




INPUT - HORIZON 2020

Grant Agreement number: 687795

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Work package No.	Work package title	Type of activity	Lead Partner	Lead Partner No.	Person-months	Start month	End month
WP 1	Coordination	IA	OBHP	P1	29	M01	M48
WP 2	Dissemination, Communication and Exploitation	IA	OBHP	P1	28	M01	M48
WP 3	System Integration	IA	OBHP	P1	41	M01	M48
WP 4	Signal Acquisition Hardware	IA	OBG	P2	82	M01	M48
WP 5	EMG Models	IA	UMG-GOE/ICL	P3	43	M01	M24
WP 6	Machine Learning	IA	SUPSI-IDSIA	P5	91	M01	M48
WP 7	Evaluation Paradigm	IA	OSS	P4	58	M01	M48
WP 8	Patient Training	IA	UMCG	P6	55.5	M01	M48
WP 9	Clinical Testing	IA	UMCG	P6	66.5	M01	M48

Del. No.	Deliverable name	WP no.	Lead Partner	Type	Dissemination	Delivery date
D 1.1	Quality Plan	WP 1	OBHP	R	PP	M03
D 2.1	Project Homepage	WP 2	OBHP	DEC	PU	M03
D 3.1	Template for interface definitions	WP 3	OBHP	R	PP	M06
D 3.2	Decision on terminal prototyping test device	WP 3	OBHP	R	PP	M06
D 6.1	Integrated Machine Learning Software Suite	WP 6	SUPSI-IDSIA	DEM	PP	M08
D 4.1	First prototype of electrode liner	WP 4	OBG	DEM	PP	M10
D 5.1	Optimal electrode configuration for myoelectric	WP 5	UMG-GOE	R	PP	M11
D 3.3	Template for clinical test advice and feedback	WP 3	OBHP	R	PP	M12
D 3.4	Terminal prototyping test device	WP 3	OBHP	DEM	PP	M12
D 6.1	Computer-based rehabilitation game	WP 6	UMCG	R	PU	M12
D 7.1	Protocol for testing non-stationaries	WP 7	OSS	R	PP	M16
D 7.2	Set of functional ADL movements	WP 7	OSS	R	PP	M18
D 7.3	Linearity of degrees of freedom in muscle tone	WP 5	UMG-GOE	R	PP	M18
D 6.2	Report on Optimal Machine Learning Methods for Prosthetic Control	WP 6	SUPSI-IDSIA	R	PP	M22
D 6.4	First Machine Learning System implemented on Microcontroller	WP 6	SUPSI-IDSIA	DEM	PP	M24
D 8.2	Feedback in game	WP 6	UMCG	R	PU	M24
D 8.1	Test for evaluating the ability of simultaneous proportional control	WP 9	UMCG	R	PU	M24
D 9.2	Activity monitoring system	WP 9	UMCG	DEM	PU	M24
D 5.3	Factors of influence on EMG features for myoelectric	WP 5	ICL	R	PP	M24
D 4.2	Optimized prototype of electrode liner	WP 4	OBG	DEM	PP	M27
D 6.3	Report on First Machine Learning System implemented on Microcontroller	WP 6	SUPSI-IDSIA	R	PP	M27
D 2.2	Exploitation plan of results	WP 2	OBHP	R	PP	M48
D 4.3	End-user validation report	WP 4	OBG	R	PP	M48
D 8.3	Predefined training method	WP 6	UMCG	R	PU	M48
D 9.3	Advantages of simultaneous proportional over conventional control	WP 9	UMCG	R	PU	M48

Milestone number	Milestone name	Related work packages	Expected Date
MS1	Integrated machine learning software suite developed and tested	WP 6	M08
MS2	Guidelines for optimized signal acquisition available	WP 4	M21
MS3	First test prosthetic setup with machine learning system available for end user tests	WP 3, WP 5	M24
MS4	Theoretical foundations of EMG signals established	WP 5	M24
MS5	Machine learning system available for testing with patient	WP 6	M24
MS6	Rehabilitation Game developed and tested with different types of users	WP 6	M24
MS7	Develop a test for measuring performance with simultaneous proportional prosthetic device	WP 9	M24
MS8	Developed a system to monitor prosthetic activities in daily life situations	WP 9	M24
MS9	End of verifying test setup with amputees	WP 7	M30
MS10	Final test prosthetic setup with machine learning system available for end user tests	WP 5	M36
MS11	Decision on signal acquisition hardware for clinical tests	WP 4	M40
MS12	Determine relative contribution of computer-based training to conventionally based training	WP 6	M48
MS13	Evaluated advantages of simultaneous proportional prosthetic device compared to current state of the art	WP 9	M48

Task	Company	Deadline
1.2 Unified interface descriptions (OBHP (1), OBG (1), UMG-GOE (1), M01 - M06)	OBHP	31.07.2016
1.2 Unified interface descriptions (OBHP (1), OBG (1), UMG-GOE (1), M01 - M06)	UMG-GOE	31.07.2016
1.5 Providing test platform setup (OBHP (3), M01 - M06)	OBHP	31.07.2016
6.3 Integrated Software Suite (SUPSI-IDSIA (12), UMG-GOE (2), M03 - M08)	UMG-GOE	31.07.2016
6.3 Integrated Software Suite (SUPSI-IDSIA (12), UMG-GOE (2), M03 - M08)	SUPSI	31.07.2016
5.1 Influence of electrode characteristics on robustness in myoelectric (UMG-GOE (1), OBG (2), SUPSI-IDSIA (2), M01 - M06)	UMG-GOE	31.10.2016
5.1 Influence of electrode characteristics on robustness in myoelectric (UMG-GOE (1), OBG (2), SUPSI-IDSIA (2), M01 - M06)	SUPSI	31.10.2016
5.1 Influence of electrode characteristics on robustness in myoelectric (UMG-GOE (1), OBG (2), SUPSI-IDSIA (2), M01 - M06)	OBG	31.10.2016
6.1 Developing computer-based rehabilitation game (UMCG (15), M03 - M02)	UMCG	31.01.2017
6.3 Linearity in muscle activity for multi-Dof control (UMG-GOE (1), SUPSI-IDSIA (2), M01 - M12)	UMG-GOE	31.07.2017
6.3 Linearity in muscle activity for multi-Dof control (UMG-GOE (1), SUPSI-IDSIA (2), M01 - M12)	SUPSI	31.07.2017
7.1 Device Test Protocol (OSS (9), OBHP (10), UMG-GOE (2), UMCg (1), M01 - M48)	OBHP	31.07.2017
7.1 Device Test Protocol (OSS (9), OBHP (10), UMG-GOE (2), UMCg (1), M01 - M48)	UMG-GOE	31.07.2017
7.1 Device Test Protocol (OSS (9), OBHP (10), UMG-GOE (2), UMCg (1), M01 - M48)	OSS	31.07.2017
7.1 Device Test Protocol (OSS (9), OBHP (10), UMG-GOE (2), UMCg (1), M01 - M48)	UMCG	31.07.2017
7.2 Comparison tests between standard tests (SHAPE, shelf test) and complex ADL test (OSS (9), UMCg (1), M08 - M22)	OSS	30.11.2017
7.2 Comparison tests between standard tests (SHAPE, shelf test) and complex ADL test (OSS (9), UMCg (1), M08 - M22)	UMCG	30.11.2017
6.2 Hoping factors of influence on the surface EMG (UMG-GOE (1), SUPSI-IDSIA (4), M01 - M24)	ICL	31.01.2018
6.2 Hoping factors of influence on the surface EMG (UMG-GOE (1), SUPSI-IDSIA (4), M01 - M24)	SUPSI	31.01.2018
6.2 Establish which feedback to use for in-game learning for different types of users (UMCG (1), M01 - M48)	UMCG	31.01.2018
6.1 Developing a first use of the simultaneous proportional prosthetic control device (UMCG (14), OBG (2), UMG-GOE (2), SUPSI-IDSIA (1), M01 - M26)	OBG	31.01.2018
6.1 Developing a first use of the simultaneous proportional prosthetic control device (UMCG (14), OBG (2), UMG-GOE (2), SUPSI-IDSIA (1), M01 - M26)	ICL	31.01.2018
6.1 Developing a first use of the simultaneous proportional prosthetic control device (UMCG (14), OBG (2), UMG-GOE (2), SUPSI-IDSIA (1), M01 - M26)	UMCG	31.01.2018
6.1 Developing a first use of the simultaneous proportional prosthetic control device (UMCG (14), OBG (2), UMG-GOE (2), SUPSI-IDSIA (1), M01 - M26)	SUPSI	31.01.2018
6.2 Develop an activity monitoring system to use in daily life situations (UMCG (13), OSS (4.5), M03 - M26)	OSS	31.01.2018
6.2 Develop an activity monitoring system to use in daily life situations (UMCG (13), OSS (4.5), M03 - M26)	UMCG	31.01.2018
6.2 Electronics for EMG recording (OBG (14), M01 - M24)	OBG	30.04.2018
6.2 Liner/socket for multichannel EMG recording (OBG (12), UMG-GOE (2), M01 - M24)	OBG	30.04.2018
6.2 Liner/socket for multichannel EMG recording (OBG (12), UMG-GOE (2), M01 - M24)	ICL	30.04.2018
7.3 Testing amputees (OSS (13), OBHP (1), UMG-GOE (1), UMCg (1), M10 - M36)	OBHP	31.07.2018
7.3 Testing amputees (OSS (13), OBHP (1), UMG-GOE (1), UMCg (1), M10 - M36)	ICL	31.07.2018

Task	Company	Deadline
7.3 Testing amputees (OSS (13), OBHP (1), UMG-GOE (1), UMCg (1), M10 - M36)	OSS	31.07.2018
7.3 Testing amputees (OSS (13), OBHP (1), UMG-GOE (1), UMCg (1), M10 - M36)	UMCG	31.07.2018
6.2 Algorithm Development (SUPSI-IDSIA (25), UMG-GOE (15), M01 - M36)	ICL	31.01.2019
6.2 Algorithm Development (SUPSI-IDSIA (25), UMG-GOE (15), M01 - M36)	SUPSI	31.01.2019
6.3 Implementation on Portable Hardware (SUPSI-IDSIA (22), OBG (2), M09 - M48)	OBG	31.05.2019
6.3 Implementation on Portable Hardware (SUPSI-IDSIA (22), OBG (2), M09 - M48)	SUPSI	31.05.2019
1.1 Overall Project Coordination (OBHP (6), M01 - M48)	OBHP	31.01.2020
1.2 Scientific Project Coordination (OBHP (4.5), OBG (1), UMG-GOE (1), M01 - M48)	OBHP	31.01.2020
1.2 Scientific Project Coordination (OBHP (4.5), OBG (1), UMG-GOE (1), M01 - M48)	OBG	31.01.2020
1.2 Scientific Project Coordination (OBHP (4.5), OBG (1), UMG-GOE (1), M01 - M48)	ICL	31.01.2020
1.3 Work package Management (OBHP (4.5), OBG (1), M01 - M48)	OBHP	31.01.2020
1.3 Work package Management (OBHP (4.5), OBG (1), M01 - M48)	OBG	31.01.2020
1.4 Quality Assessment (OBHP (4.5), M01 - M48)	OBHP	31.01.2020
1.5 Communication Management (OBHP (4.5), M01 - M48)	OBHP	31.01.2020
2.1 Dissemination (OBHP (3), UMG-GOE (2), SUPSI-IDSIA (2), UMCg (0.5), M01 - M48)	OBHP	31.01.2020
2.1 Dissemination (OBHP (3), UMG-GOE (2), SUPSI-IDSIA (2), UMCg (0.5), M01 - M48)	ICL	31.01.2020
2.1 Dissemination (OBHP (3), UMG-GOE (2), SUPSI-IDSIA (2), UMCg (0.5), M01 - M48)	UMCG	31.01.2020
2.1 Dissemination (OBHP (3), UMG-GOE (2), SUPSI-IDSIA (2), UMCg (0.5), M01 - M48)	SUPSI	31.01.2020
2.2 Communication (OBHP (3), M01 - M48)	OBHP	31.01.2020
2.3 Exploitation (OBHP (17.5), M01 - M48)	OBHP	31.01.2020
3.1 System Integration Lead (OBHP (7), M01 - M48)	OBHP	31.01.2020
3.3 Clinical test coordination (OBHP (5), M01 - M48)	OBHP	31.01.2020
3.4 Central prototype assembly (OBHP (14), OBG (7), M01 - M48)	OBHP	31.01.2020
3.4 Central prototype assembly (OBHP (14), OBG (7), M01 - M48)	OBG	31.01.2020
4.3 Design validation and iterative development (OBG (14), M01 - M48)	OBG	31.01.2020
6.4 Algorithm Life Cycle Management (SUPSI-IDSIA (12), UMG-GOE (1), M01 - M48)	ICL	31.01.2020
6.4 Algorithm Life Cycle Management (SUPSI-IDSIA (12), UMG-GOE (1), M01 - M48)	SUPSI	31.01.2020
7.4 Support UMCg with clinical test setup (OSS (0.5), UMG-GOE (2), M01 - M48)	OSS	31.01.2020
7.4 Support UMCg with clinical test setup (OSS (0.5), UMG-GOE (2), M01 - M48)	OSS	31.01.2020
8.3 Establish whether transfer to daily life tasks is different for game-based training than for training methods based on conventional training (UMCG (26.5), OSS (2), M01 - M48)	OSS	31.01.2020
8.3 Establish whether transfer to daily life tasks is different for game-based training than for training methods based on conventional training (UMCG (26.5), OSS (2), M01 - M48)	UMCG	31.01.2020
9.3 Test advancement of simultaneous proportional control device over conventionally controlling algorithms (UMCG (27), OSS (1), M01 - M48)	OSS	31.01.2020
9.3 Test advancement of simultaneous proportional control device over conventionally controlling algorithms (UMCG (27), OSS (1), M01 - M48)	UMCG	31.01.2020