CATALOGUE OF SERVICES

Indicate the current services offered by the distributed ICTS

ID	Service name	Service description	Access facilities	Access Service Unit Access Unit/Service		% Oneness
	Service name		Access facilities	Access Service Off	Access Only Service	70 Openess
					Cost	
		Brief description of the service offered	Indicate the facility required to give the service	Define the service access		Indicate service
			hetween those declared in sheet "Cat	unit (Fa computing time		oneness (%)
			FACILITIES" Enter the identification for the facili	it night observation_etc_]		within the
			defined in column C	ingine observation, etc)		distributed ICTS
			If several facilities are required to give the service			distributed ferb
			ij several jucinites are required to give the service	-,		
			commercial of them in the same cen separence of			
			corres.			
		Hydraulic wave/current/mean sea level modelling (small and large scale) in 2DV// Analysis of renewable energy wave/current converters (large/small scale) in 2DV// Analysis of hybrid	l1a-1, l1a-2, l2a-1, l2a-2	working day	TBD	20%
		2DV// Offshore engineering for: wind turbines (large scale) in 2DV, offshore platforms (large scale) in 2DV, riders (large scale) in 2DV, submarine pipelines (large scale) in 2DV// Hydro-morphodynamic analysis of				
51	S1 - 2D Physical Modelling	sedimentary deposits (large/small scale) in 2DV, // Coastal Engineering tests in intermediate/shallow depths (large/small scale) in 2DV, // Breakwater functional and resistence analysis (large/small scale) in 2DV, //				
		Harbor Engineering tests in intermediate/shallow depths (large/small scale)in 2DV				
S2		Hydraulic wave/current/mean sea level modelling (small and large scale) in 3D // Hydraulic wave/current/wind/mean sea level modelling (large scale) in 3D // Analysis of renewable energy wave/current converter	l1a-3, I2a-1, I2a-3	working day	TBD	20%
		(large/small scale) in 3D // Offshore engineering for: wind turbines (large scale) in 3D, offshore platforms (large scale) in 3D, riders (large scale) in 3D, submarine pipelines (large scale) in 3D // Hydro-morphodyna				
	S2 - 3D Physical Modelling	analysis of sedimentary deposits (large/small scale) in 3D. // Coastal Engineering tests in intermediate/shallow depths (large/small scale) in 3D. // Breakwater functional and resistence analysis (large/small scale) in				
		Harbor Engineering tests in intermediate/shallow depths (large/small scale)in 3D// Analysis of hybrid converters (large/small scale) in 3D				
\$3	S3 - 2D/3D Vehicles Hydrodynamic Analysis	Hydrodynamic analysis of autonomous submarine vehicles in 2D/3D	l1a-1, l1a-2, , l1a-3, l2a-1, l2a-2	working day	TBD	20%
S4	S4 - Analysis of observational equipment	Analysis of observational equipment (ZDV, 3D, small/large scale)	1a-1, 1a-2, 1a-3, 2a-1, 2a-2	working day	TBD	20%
S5	S5 - Data bases	Data Adquisition on the Facilicities for a) Wave/Current data base analyses (shelf) b) Water levels (various drivers)data base analyses (coastal) c) Marine meteo data base analyses (shelf and coastal)	1c-1, 1c-2	working day	TBD	20%
S6	S6 - Field campaigns	Intensive Field campaigns in nearshore coastal transect hydro/moroho physical and bio-geo-chemical parametres (Pont Petroli-Coastal Pier) // Field testing (prototype scale) of observational equipment and of en	1c-2	working day	TBD	20%
		convertors- Pont Petroli-Coastal Pier // Field testing of harbor instrumentation-instrumented Harbor Section				
S7 58		Numerical wave/wave-current flume modelling in 2DV // Numerical wave/wave-current modelling in 3D // Numerical wave-current interaction with structures in 2DV/3D // Numerical wave-current interaction with	11b. 12c. 13c	working day	TBD	20%
	S7 - 2D/3D Numerical Modelling	sediments in 2DV/3D	., .,			
	,	RANSE calculations for shins and propellers. Potential seakeeping calculations				
		Hydrodynamic (wave/current) tool hox for oneo, cheff works (nhvsical and eneineering annications, including renewable energy) // Hydrodynamic (wave-current) tool hox for oneor cheff works (nhvsical and eneineering annications, including renewable energy) // Hydrodynamic (wave-current) tool hox for nearshore denhts. // Mornhodynami	11b. J2b	working day	TBD	20%
	S8 - Applied Toolbox	how for sea-bed (inner shelf) for beach profiles and for beach plan // Disperson and water quality tool box for near field (local analyses) and for far field (regional analyses)	,			
59	59 - Risk Analysis	Risk analysis framework for individual assessment	11b. J2b	working day	TBD	20%
S10	S10 - Pre-operational System Assessment	Pre-operational system assessment for meteo-oceanographic fields shelf/coastal	11b, 12b	working day	TBD	20%
\$11	1 S11 - Model Manufacturing	suiding and/or modifying of hydraulic tailored made scale models (rivers. locks. dams. pumping stations. etc) // Manufacturing of models (hull. propellers and appendages) any other fitting, sensoring and	12a-3, 13a-4	working day	Dependant on model charac	te 20%
		instrumentation, dummy model manufacturing for cavitation tunnel	,			
S12	2 S12 - Numerical Mirror and Hybrid Modelling	Numerical Mirror. Numerical GTIM-TSU replication wave-current flume modelling in 2DV // Numerical GTIM-CCOR replication wave-current-wind modelling in 3D. // Numerical GTIM-WS replication wave-current	12a-1, 12a-2, 12a-3, 12b, 13c	computing time	TBD	20%
		wind modelling in 2D/3D // Interaction with coastal floating and offshore structures		BB		
\$13	S13 - CWT Measurements	Onen water, resistance self-pronulsion nitot wate (10 or 30) PIV (30) wool tult visualization, rudder forces, any other test performed in calm water tank	13a-1	working day	TBD	20%
\$14	S14 - CT Measurements	Pavitation visualization (trohoscone and/or hish seed camera) cavitation incention pressure fluctuation wire mash manufacturing erosion any other test performed in the cavitation tunnel	13a-2	working day	TBD	20%
\$15	S15 - SDI Measurements	Realize and irrealize case sake and est any other test partnered in the standard and in standard and irrealize cases cases and a standard test any other test partnered in the contract of the standard and irrealize cases cases and a standard and irrealize cases cases and a standard and irrealize cases cases and a standard and the standard and irrealize cases cases and a standard and irrealize cases cases and a standard and a st	12a-1 13a-3	working day	TBD	20%
\$16	S16 - Maneuverability free model	Tis-ap Diedone sinal turning riche rach ton any other test performed in a tank/reservoir	13a-3, 13b	working day	TBD	20%
		The facility monethed in the nower relia allowine the recent and even more adversar renewable energy devices, as well of offshore technologies related to any other field	14-a 15	working day	TBD	20%
S17	S17 - Prototype Hosting with connection to the power grid		PP-0, 13	Horsing uay		20%
		Tast farility NOT connected to the nonver grid allowing the recearch and developments of coa/orean renewable energy devices as well of offshore technologies related to any other field	14-a 15	working day	TBD	-
S18	S18 - Prototype Hosting without connection to the power grid	The nearly not connected to the power provide and the execution and deterophicing of subject in the nearby devices, as well of offshole technologies related to any other field	14 8, 15	morning out	100	