# DREEAM IMPLEMENTATION PLAN



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#### **PROJECT INFORMATION**

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Project Title	Demonstration of an integrated Renovation approach for Energy Efficiency At the Multi building scale

# **DOKUMENT INFORMATION**

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# **AUTHOR(S)**

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Contributor	PMT (Project Management Team)

#### **AUTHORISATION**

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Authorised by	PMT

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# DREEAM IMPLEMENTATION PLAN – whole project

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WP		ACTIONS	Lead																																				
WP1		DREEAM approach																																=			4	$\Box$	
WP1	1.1	Library SOTA renovation options	Chamers				1.1																																1
	1.2	Technoeconomic mapping of							1.2																														
WP1	1.0	SOTA technologies Innovation Scan	Chalmers Chalmers				-		1.3								-	<b>-</b>							_	+++			$\vdash$	-				-+	-		+	$+\!-\!\!-\!\!-$	$\vdash \vdash$
	1.4	Definition of the DREEAM									1.4a											1.4b								1									
WP1		approach Extension of the DREEAM	Chalmers														+				$\vdash$												+ +	$\dashv$	_		+	+	$\vdash \vdash$
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WP2		Pilot site application  Baseline description of the															-	<b>-</b>							_	+++			$\vdash$	-				-+	-		-	$+\!-\!\!-\!\!-$	$\vdash \vdash$
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WP2		Design alternatives for the technology package	Exeleria									2 2																											1
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WP3		Demonstration																																_	_			$\perp$	$\vdash$
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WP3	3.1	Tendering process Lands	SP						Tenderin	g																$\blacksquare$												igsquare	$\leftarrow$
WP3	3.2	Execution of works	SP													3.2a								3.2b							3.2b								Ш
WP3	3.3	Technical supervision	SP							3	30					3.4															3 3h							/	1
WP4		Monitoring	J.								-					J.4															0.00								
WP4	4.1	Energy performance monitoring	SinCeO2			4.1 a								4.1h																									4.10
WP4	4.2	Social and behavioural	Savills			112.0								****															h								$\overline{}$		7.20
		evaluation strategy  Benchmarking and financial				4.2.a				-					4.2.b		-	$\vdash$	-		$\vdash$					+++			$\vdash$					1.2c/d			+	$\vdash$	$\vdash \vdash$
WP4	4.3	analysis	Savills																																	4.3			ш
WP4	4.4	DREEAM monitoring platform	SinCEO2												4.4a					4.4b																		4.4c	1
WP5		Replication	B&W																																				
14/05	5.1	Building owner's portfollio replication	Eur la via																													25.4							
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WP5	-	programme	B&W										-	-			-										5.2a											5.2b	$\vdash \vdash$
WP5	5.3		B&W																						5.3													/	1
WP5	5.4	Replication potential at the																																					
WP5		EU scale Dissemination	Chalmers EURH																												5.4a		_						5.40
	6.4																																						
WP6	6.1	Exploitation and dissemination strategy				6.1a	ш					-					$\perp$				$\sqcup$							_	Ш	_	6.1b		$\perp$	_	_				$\vdash$
WP6	6.2	Communication channels and tools	B&W						6.2a														6.2b																
WP6	6.3	Pilot site visits	EURHONET																					6.3a															
		Engagment and training																																					
WP6	6.4	nrogramme	SP				E	6.4a		-		-	<del> </del>	1			+	$\vdash$		1	$\vdash \vdash$	1							H				-	5.4b				6.9	
WP6	6.5	exploitation	Chalmers				Ш										$\bot$														6.5a							6.5b	
WP6	6.6	Innovative technologies exploitation International events and conferences	B&W																																				
WP7		Project management	Chalmers																																				6.6a/b
WP7	7.1	Concortium management	Chalmers	7.1																																			
WP7	7.2	Progress monitoring incl.	Chalmers											7.2									7.3								7.4								7.5
	7.3	Quality management	Chalmers			7.3																																	
		reporting				7.3								7.2									7.3								7.4								7.

# **DELIVERABLE LIST**

WP	Task	Deliverable	Title	Lead	Due month	Year
WP7	7.1	D7.1	Project implementation plan	CHALMERS	1	2015
WP7	7.3	D7.3	Quality management plan and procedures	CHALMERS	3	2015
			Strategy and planning for the energy			
WP4	4.1	D4.1a	performance monitoring	Sin2	3	2015
WP4	4.2	D4.2a	Strategy and planning for the social and behavioural evaluation	CAVILLE	2	2015
				SAVILLS	3	2015
WP6	6.1	D6.1a	Dissemination & exploitation plan	B&W	3	2015
WP1	1.1	D1.1	Library of SOTA renovation options with indicators of the energy systems assessments	CHALMERS	4	2016
VVPI	1.1	D1.1	Plan for engagement and training of project	CHALIVIERS	4	2010
WP6	6.4	D6.4a	promoters contractors and skilled workers	SP	5	2016
			Inventory of suitable technology options in			
WP1	1.2	D1.2	different climate conditions	CHALMERS	6	2016
WP1	1.3	D1.3	Innovation scan	CHALMERS	6	2016
			Specific site information and building owner's			
WP2	2.1	D2.1	requirements	EXELERIA	6	2016
WP6	6.2	D6.2a	First version of the Communication package	B&W	6	2016
W/D4	4.4	D4 4-	Concept of the DREEAM approach for the	CHALAGER		2016
WP1	1.4	D1.4a	multiple building energy renovation	CHALMERS	8	2016
			Technical supervision procedures and the quality assurance control plan for three demo			
WP3	3.3	D3.3a	sites	SP	8	2016
			Three renovation technical packages per pilot			
WP2	2.2	D2.2	site assessed according to DREEAM indicators	EXELERIA	10	2016
			The most suitable DREEAM renovation			
WP2	2.3	D2.3	package selected per pilot site	EXELERIA	11	2016
WP2	2.4	D2.4	Elaborated renovation packages	EXELERIA	11	2016
WP7	7.2	D7.2	First year progress report	CHALMERS	12	2016
			Energy performance of buildings before			
WP4	4.1	D4.1b	renovation	Sin2	12	2016
			Preliminary analysis of the qualitative			
WP4	4.2	D4.2b	interviews with housing companies and tenants	SAVILLS	13	2016
VV F 4	4.2	D4.20	Requirements of the building owners and	SAVILLS	13	2010
WP4	4.4	D4.4a	recommendations on the dashboard	OpenD	13	2016
			Recommendations for the tender documents			
WP3	3.1	D3.1	in line with DREEAM renovation strategies	SP	13	2016
WP3	3.2	D3.2a	Initiation of the renovation works	SP	14	2016
			First supervision report at the start of the			2046
WP3	3.3	D3.4	work execution	SP	14	2016
WP4	4.4	D4.4b	Integration of the requirements; first version of the platform developed	OpenD	20	2017
VVI -	7.7	54.45	Fine-tuned DREEAM approach for the	Орень	20	2017
WP1	1.4	D1.4b	multiple building energy renovation	CHALMERS	23	2017
WP3	3.2	D3.2b	Mid-term report of the renovation works	SP	24	2017
			Second version of the Communication			
WP6	6.2	D6.2b	package	B&W	24	2017
WP6	6.3	D6.3a	First pilot site visits report	EURH	24	2017
WP7	7.2	D7.3	Second year progress report	CHALMERS	24	2017
			Feasibility scan of low-cost financing for NZE	_		2015
WP5	5.3	D5.3	renovation in the residential housing	B&W	27	2017
WP5	5.2	D5.2a	Strategy and planning of the EU multi-city replication programme	B&W	21	2018
VVFJ	ال. ا	DJ.2a	replication programme	אאטט	31	2010

			Final report on the technical supervision and			
WP3	3.3	D3.3b	the quality assurance control	SP	36	2018
			District level DREEAM approach with the			
WP1	1.5	D1.4	process design and associated guidelines	CHALMERS	36	2018
WP3	3.2	D3.2c	Finalisation of the renovation works.	SP	36	2018
			Quantified potential for residential building			
WP5	5.4	D5.4a	renovations approaching NZE standards in EU	CHALMERS	36	2018
WP6	6.1	D6.1b	Updated Dissemination & exploitation plan	B&W	36	2018
WP6	6.5	D6.5a	Up-to-date innovative technology scan	CHALMERS	36	2018
WP7	7.2	D7.4	Third year progress report (M36)	CHALMERS	36	2018
WP5	5.1	D5.1	Recommended actions for the energy renovation programmes for the DREEAM building owners	B&W	37	2018
WP4	4.2	D4.2c	Final analysis on housing companies' posture towards the energy efficiency renovations	SAVILLS	40	2019
WP4	4.2	D4.2d	Final analysis on the tenants engagement and communications strategies	SAVILLS	40	2019
WP6	6.4	D6.4b	Final pilot site visits report	EURH	40	2019
WP4	4.3	D4.3	Benchmarking and financial analysis of the DREEAM pilot sites	SAVILLS	43	2019
WP4	4.4	D4.4c	Validation of the platform with the building owners	OpenD	46	2019
WP6	6.4	D6.9	Final report on engagement and training	SP	46	2019
WP6	6.5	D6.5b	Exploitation plans for ten innovative SMEs	CHALMERS	46	2019
WP5	5.4	D5.4b	Policy recommendation on the NZE renovation strategies in EU	CHALMERS	48	2019
WP6	6.6	D6.6a	Report on the international events and conferences	EURH	48	2019
WP6	6.6	D6.6b	Final DREEAM conference	EURH	48	2019
WP7	7.2	D7.5	Forth year progress report	CHALMERS	48	2019
WP4	4.1	D4.1c	Analysis of the energy performance of pilot sites after renovations	Sin2	48	2019
WP5	5.2	D5.2b	Evaluation report on feasibility scan and recommendations given to 15 EU cities	B&W	46	2019

# PARTNER-TASK ALLOCATION – OVERVIEW\*

\*All tasks in WP7 are led by the Coordinator and need to fulfilled by all partners, thus no overview provided.

WP1

Task	1.1	1.2	1.3	1.4	1.5
	SOTA	Techno- economic mapping	Merket innovation scan	Dream approach	Extention - district scale
Duration	M 1-4	M 4-6	M 1-6	M 1-23	M 10-36
Chalmers	LEAD	LEAD	LEAD	LEAD	LEAD
Exceleria					
SP					
3C-Pre					
Savills					
EnergyP					
PFP					
Treviso					
Lands					
NAPE					
EURH					

WP2

Task	2.1	2.2	2.3	2.4
	Baseline	3 designs	Fesibility check	Elaboration
Duration	M 4-6	M 6-10	M 10-11	M 11-12
Exeleria	LEAD	LEAD	LEAD	LEAD
Treviso				
Lands				
PFP				
SP				
Savills				
Chalmers				
3C-Pre				

WP3

Гask	3.1	3.2	3.3
	Tendering	Works	Supervision
Duration	M 12-14	M 14-36	M 4-36
SP	LEAD		LEAD
Treviso			
ands			
PFP		LEAD	
Exeleria			
Chalmers			

WP4

Task	4.1	4.2	4.3	4.4
	E. performance monitoring	Behaviour evaluation	Benchmarkin g, financial	Monitoring platform
Duration	M 1-48	M 1-40	M 11-43	M 10-46
Savills		LEAD	LEAD	
Sin2	LEAD			LEAD
PFP				
Treviso				
Lands				
3C-Pre				
OpenDomo				
SP				
Chalmers				
EnergyP				
B&W				

WP5

Task	5.1	5.2	5.3	5.4
	Replication portfolios	Multi-city replication	Access to finance	Replication EU
Duration	M 26-37	M 26-46	M 18-28	M 26-48
B&W		LEAD	LEAD	
Exeleria	LEAD			
PFP				
Lans				
Treviso				
NAPE				
EURH				
EnergyP				
Chalmers				LEAD
3C-Pre				

WP6

Task	6.1	6.2	6.3	6.4	6.5
	Exploitation				
	and	Communicati			
	disseminatio	on channels	Pilot sites	Engagament	Innovative
	n strategy	and tools	visits	and training	technologies
Duration	M 1-3	M 1-48	M 1-48	M 1-48	M 26-46
EURH			LEAD		
Chalmers					LEAD
EURH					
B&W	LEAD	LEAD			
SP				LEAD	
Exeleria					
3C-Pre					
NAPE					