Reader manual

This document encompasses the developed questionnaire format tailored to the Boomveer innovation. For clarification, the typologies and typology clusters used to develop the question are presented in the same table as well, which align with the developed typology merged dataset. This dataset is used during the interview session with the company representative of the Boomveer innovation. However, due to sensitivity of the provided information, these results are only available on request. Furthermore, this tailored version is intended to be adaptable to other innovation, where typologies relevant to the new integrated technology should be used.

Economical					
Unique data entry	Typology cluster	Question	High level answer	Detailed answer	Source
Costs	Total Cost of	What is the Total Cost of Ownership (TCO) over			
Embedded costs	Ownership (TCO)	products entire life cycle?			
Investment costs		,			
Cost of capital		[euro / unit / year]			
Costs / m2					
Ownership costs					
Costs of	Implementation and	What are the total costs of installation of a			
implementation	installation costs	product?			
Installation costs					
Surcharge costs for		[euro / unit]			
installation					
Management costs	Maintenance and	What are the total costs of integral			
Running costs	Management Costs	management of the tree?			
Operating costs	_				
	_	[euro / unit / year]			
Water costs		a			
Energy costs	_	Specify:			
	_	Water costsEnergy costs			
Maintenance costs per		- Pruning costs			
m2		- Labor costs			
		- Other			
Product variation and	Cost Analysis and	What impacts the TCO of the product the			
Cost impact analysis	Optimization	most, and where lies chances for cost			
Color/Grain Impact on	╡ '	optimalization.			
Costs					
Cost Determinants					
Transportation Cost	Transportation	What are the costs of transportation?			
Analysis	Analysis	·			
Transportation ease		[euro / unit / year]			
Long-Term Savings	Financial Sustainability	How much economical benefit is expected to			
Analysis	Analysis	be 'generated' by the innovation?			
Cost-Saving Measure					
Assessment		[euro / unit / year]			
Embedded costs VS					
returns	4				
Rate of return	4				
Payback time	-				
Economic productivity	-				
Cost recovery					
Product price	Product price	What is the price of the product?			
Affordability		[ours / unit]			
		[euro / unit]			

Market					
Information aspect	Cluster	Question	High level answer	Detailed answer	source
Product alternatives	Comparative Assessment of Technology	How does the innovation compare to other market available alternatives.			
Comparative advantage over other alternatives Comparison with water-permeable tiles Effectiveness compared to alternatives Technology parity Carbon dioxide reduction (comparison to other technologies) Innovation of the System	Alternatives	Aspect Innovation Alternative A B C Heat +++ + + + + + + + + + + + + + + + + +			
Required parties for technology promotion	Required parties for technology promotion	What parties are needed for realization/promotion/implementation of innovation?			
Risk of proactive approach	Risk of proactive approach	What is the major risk of investing in this innovation?			
Likelihood of investment Financial incentives Green marketing Investment horizon	Sustainable Investment Strategy (SIS)	What is the likelihood of investor interest in this innovation? [are there already investors? And how is this expected for the future?]			
Conflicts of economic interest	Conflicts of economic interest	Are there currently or expected conflicts of economic interest in the development and great scale implementation of this innovation?			
Supply Chain readiness Technology delivery time Supply Chain	Supply Chain and Market Readiness	What is the level of readiness of the market for this innovation? Express in terms of: - Production process			
Reorganization Market conditions Distribution network Maximum Orderable Quantities	- - -	 Distribution process Installation process Upscaling Costumers 			

Market ecosystem			

Technological requirem	echnological requirements				
Information aspect	Cluster	Question	High level answer	Detailed answer	source
Maintenance	Maintenance &	What are the maintenance and management	-		
Maintenance provider	management	requirements for this innovation?			
Maintenance Labor					
Intensity		Boomveer specific:			
Maintenance		- Irrigation			
Knowledge		- Pruning			
Requirement		- Leaves			
Maintenance		- Nutrients			
accessibility	<u> </u> 	- Labor intensity			
Maintenance		Required knowledgeOther element maintenance			
Adaptation		(frame)			
Technology element		- Maintenance			
replacement and maintenance		scheme/frequency			
Maintenance	1	35			
requirements and					
Scheme					
Maintenance patterns					
Cooling Water	Water Resource	What are the requirements with respect to			
requirements	Management	water?			
Irrigation					
requirements		 How much water is required 			
Water requirements		- What quality of water is			
Water demand	-	required - Other?			
Water usage					
Minimum Water]				
Collection Size					
(requirement)					
Pruning requirement	Pruning requirement	What are the requirements in terms of pruning?			
Energy demand	Energy demand	What are the requirements in terms of energy (electricity)?			
		Expressed in [kwh / unit / day]			
Underlying Surface	Ground integration	What are the requirements with respect to	-		
Requirements	criteria	the ground or surface where the innovation			
Soil Layer Requirement		is implemented?			
Ground	-				
implementation					

Requirements Soil layer requirement Soil (requirement) Installation depth Requirement				
Root Space Requirements Space	Space requirement	What is the minimal space required for the implementation of this technology?	-	
The amount of technology needed to get effect Thermal Impact Threshold Density	Technology Dosage			
Required slope and drainage systems	Slope and Drainage Requirements:	Is there a form of water drainage needed? for example via a slope?		

Information	Cluster	Question	High level answer	Detailed answer	source
aspect					
Effectiveness	Heat Mitigation	What is the (hypothesized) effect of the			
Effect on Heat	Effectiveness	innovation with respect to:			
stress		- Air temperature			
Heat reduction		- Surface temperature			
per square meter		- Humidity			
Heat reduction]				
(Qi et al 2022)		Express these answers qualitatively			
Thermal Impact	_	(descriptive) and quantitative (with			
Heat Reducing	1	numbers) if possible.			
Capacity					
UHI reduction					
(lucertini 2022)					
Urban cooling (Qi	1				
2022)					
Nocturnal air					
temperature (de					
groot-reichwein					
et al)					
Land surface					
temperature (Qi					
2020) Qi 2022,					
lucertini 2022					
Air temperature					
Qi 2022 Qi 2020					
Outdoor thermal					
comfort index (Qi					
2022 & Qi 2020)	<u> </u> 				
Scale of effect					
(yamamoto 2016,					
ucertini 2022)	-				
Degree of effect					
(yamamoto 2016)	<u> </u>				
Reliability (puig	Technological reliability	How reliable is technology in terms of its			
et al) (haselip et	and quality	intended effects?			
al)	_				
Technological					

		1		
quality				
Functional				
uncertainty (puig				
et al)				
Effect on other	Comprehensive Heat	Does the technology contribute to mitigation		
parameters	Mitigation Effectiveness	to other parameters that contribute to the		
involved in		human experience of heat.		
perception of		Trainian experience of near		
heat				
licat				
	<u> </u>			
Shading effect	Shading effect	What is the shading effect of the		
		technology?		
		Express in terms of m2 shadow per unit.		
Albedo effect	Albedo effect	What is the albedo of the innovation?		
technology				
		Express in value of 0 – 1		
Color-Surface	Color-Surface Temperature	What is the relation between the color of the		
Temperature	Relationship	surface of the innovation and its effect on		
-	Relationship			
Relationship		the surrounding temperature.		
Time scale	Temporal effectiveness	How long does the intended effect last for?		
	lemporarenectiveness	And when is innovation most effective?		
Optimal benefit		And when is innovation most effective !		
period				
Period				
(yamamoto 2016)				
Performance in	Cold weather performance	How is the functional performance of the		
freezing		innovation changed in cold temperatures.		
temperatures		station changes in cold temperatures.		
Slipperiness and				
need for salt				
neca for sail				
System Operation	System Operation	How does the innovation needs to be		
		operated?		
		Does it need operation apart from		
		maintenance and management?		
Water Reuse	Water Reuse Capacity	Can water be reused for this product?		
from Crate	, ,	·		
	I	1		I

Storage Potential to reuse water from roofs for maintenance Water Reuse Capacity		Can water that drains from this product be reused?		
Water capture rate Water storage capacity Water storage capacity (lucertini 2022)	Water capture and storage capacity	How much water can be captured and stored by the product? Express in m3/ unit Also indicate how long a certain volume can be stored		
Water purification steps	Water purification steps	- Not for boomveer -	-	
Evaporation Regulation	Evaporation Regulation	Can the evaporation rate be regulated?		
PM 2.5	Air pollution reduction	Does the product contribute to air pollution reduction? Express qualitatively (descriptive) and quantitative (numbers) if possible.		
Energy efficiency (puig et al) Energy savings (qi et al 2022), lucertinit 2022	Energy performance	-Not for boomveer-		

Design					
Information	Cluster	Question	High level answer	Detailed answer	source
aspect	Cluster	Question	riigii ievei ariswei	Detailed diswer	Source
	Llubou contout	Have a manatible in the manadust with the			
Context design	Urban context	How compatible is the product with the			
'different building	compatibility	urban environment?			
types'		Have a see in insulant autotion			
How does if fit in		- How easy is implementation			
larger scale urban		into urban environment as			
planning &		we currently know it			
context					
How well does it	Landscape Integration and	How well does it integrate with current			
fit with	Technology Placement	landscape and are there requirements where			
underground soil	(LITP)	this product needs to be implemented?			
structure					
Landscape					
Integration					
Site Orientation					
Site suitability					
Applicability on					
clay soil					
Technology					
placement					
Load bearing	Structural Characteristics	What are the structural characteristics of the			†
capacity	Structural Characteristics	product?			
Capacity		producti			
Weight per		- Weight			
square meter		- Load bearing capacity			
(kg/m2)		- Volume			
()		- Area			
Built area ratio					
Dant area ratio					
Density					
Area to volume					
ratio					
Dimensions	Dimensions	What are the dimension of the product?			+
Diffictions	Difficusions	- Height			
		- Width			
		viden			
Tree-canopy area					
Doot doods					
Root depth					
	İ	1		1	ı

Vogotation baialet				
Vegetation height				
Aesthetics of	Aesthetic Design Features	What are the variations in design in terms of:	-	
design		- Colour		
Colour variation		- Pattern		
Colour		- Shapes		
Shape		- Etc.		
Customization				
and Patterns				
Unpleasant				
appearance				
Pre-installation	Flexible Installation Design	How flexible is the installation of this		
adaptability		product?		
Adaptability to				
Uneven Surfaces				
Post-installation	Flexible Maintenance	How flexible is the design after installation in		
adaptability	Design	terms of:		
Tactical /		- Replacement		
removable		- Element replacement		
Accessibility to		- Modifications		
Underground		- ETC.		
Infrastructure				
Modular				
Accessibility				
Replaceability				
Seasonal	Seasonal adaptability	Does product change during seasonal		
adaptability		changes? And what does this do to		
		functionality?		
Height limitation	Height limitation	What are the minimum and maximum		
		heights of the product?		
Time scale	Temporal Resilience	What is the lifespan of the product?		
Lifespan				
Longevity				
Survival				
Time scale				

inamina and altern		T		
implementation	4			
Durability				
Doguelahili+	Circular Metarial	M/hat is the material size desity of the		
Recyclability	Circular Material	What is the material circularity of the	-	
Material Reuse	Management	product components?		
and Recycling				
Material				
Reusability				
Product				
reusability				
Circularity				
Circular economy	_			
considerations				
555.46.46.61.5				
Disposal	-			
Disposal				
Permeability	Material characteristics	What are the material characteristics of the		
,		product in terms of:		
Melting		- Permeability		
temperature		- Fire resistance		
Surface	_			
characteristics				
Characteristics				
Material				
Material	Material Design Flexibility	Range of flexibility in material usage, plant		
Flexibility	Waterial Design Flexibility	species diversity, etc.?		
	_	species diversity, etc.:		
Plant Diversity				
Vegetation				
species				
Technology				
versatility				
Tree	7			
compatibility				
Matarial	Motorial biodeses de bilit	le the product fully his desired by		
Material	Material biodegradability	Is the product fully biodegradable	-	
biodegradability				
Sustainability	Sustainable Manufacturing	Degree of sustainability of the production		
production		process.		
Degree of	1	p. 55555.		
DERIGE OI				

sustainable production process Sustainability material usage			
Sustainability transportation	Sustainability transportation	How is the product transported and how sustainable is this	
Natural Solutions	Natural Solutions	Can the product be changed to incorporate more natural elements?	
Vehicle Access Reinforcement	Vehicle Access Reinforcement	-not for boomveer-	
Growth potential in confined space	Growth potential in confined space	Is the growth potential of vegetation restricted by product?	
Walkability Inclusivity Path Integration	Pedestrian-Friendly Inclusive Design	-not for boomveer-	
Green surface area	Green surface area	-not for boomveer-	

Synergy					
Information aspect	Cluster	Question	High level answer	Detailed answer	source
Multifunctional Synergy Synergy potential Synergistic Technology Analysis	Synergistic Technology Integration	What are the synergy effects of the product and where lie future synergetic collaborations with other technologies?			
Can it function as water catchment area Integration with Drainage Solutions Sewage relief capacity	Water Integration Capacity	What is the water storage capacity of the product ? In terms of: - Quantity [m3/ unit] - Duration of storage			
Combination with green infrastructure Water buffer for irrigation Synergy – vegetation compatibility Technology-Tree Synergy	Green Infrastructure Integration	Can it form synergy with other vegetation systems			
Recreational synergic potential Child-Friendly Design	Recreational Integration	Can product contribute to recreational purposes? For boomveer: - Can place at recreational site? - Can children climb in tree - Can frame be made for sitting? - Can tree used to hang a hammock			
Ecological benefit	Ecological benefit	What are the ecological benefits of this product ?			

Social					
Information	Cluster	Question	High level answer	Detailed answer	source
aspect			_		
Social impact	Societal Impact	What is the assumed impact of this product			
Social Benefit		on society?			
Expression		on society.			
Social value		Positive effects?			
Social 'user		Negative effects?			
groups'					
Citizen	Community Engagement	To what extend is the community engaged	<u> </u>		
participation on	Community Engagement	with this product?			
design		In tis design?			
Citizen		In tis maintenance ?			
participation on		Is it user-friendly			
decision making		Can citizens also get product?			
process		Same and See by Same			
Resident co-					
management of					
technologies					
	Community Information and	How is information regarding this			
Community engagement and	Community Information and Engagement	How is information regarding this product/technology transferred to the			
communication	Liigagement	community (social) and how does this			
Living lab		contribute to engagement, acceptance and			
communication		participation?			
Resident		participations			
information					
communication					
Citizen urgency	Stakeholder urgency	What is the assumed urgency of this			
Municipality	- Stakenolder digeriey	technology for different stakeholders?			
urgency					
		And how can urgency be increased?			
Recognition for	Recognition and Motivation	Why should someone advocate for the			
work		implementation of this specific			
Motives for		technology?			
initiative					
Contribution to	Awareness and acceptance	How does this technology contribute to			
awareness		acceptance of these types of innovations,			
Community		and the awareness of problems in the			
Sensitization on		urban environment such as climate change,			
Greener Public		UHI effect,.			
Spaces with Low					
Investment					
Public					
acceptance					
Public awareness					
Public knowledge					
Socio-					
Technological					
Acceptance					
distribution of	Equitable Technology	How is the implementation of this product			

technology benefits	Implementation (ETI)	distributed in society? Only rich or poor	
Social Sensitivity		Who is most likely to benefit from	
		products?	
Job creation	Job creation	Does this product contribute to new job	
		creation?	

Governmental					
Information	Cluster	Question	High level answer	Detailed answer	source
aspect					
Compliance	Regulatory compliance and	What are current regulations and laws that			
with public	permitting	have impact on this technology and its			
space	permitting	implementation? (these can be national			
consultation		laws, municipality guidelines, etc.)			
regulations		- Needed permits for			
Public space	-	implementations			
handbook		- Height limitations			
		- Places not allows for			
compatibility	-	installation			
Compliance to		- Types of trees not allowed			
standards	-	- Etc.			
Legislations	-	- EtC.			
Legal					
framework	-				
Bureaucracy	-	And; what is the likelihood that future			
Legal		regulations might impact this technology			
considerations		regulations might impact this technology			
Legal					
feasibility					
Procedural					
time					
Administrative					
considerations					
Regulatory					
Landscape					
Technology					
placement					
and					
regulations					
Arboricultural					
Permit					
Contribution	Contribution to municipal	To what extend does this			
to municipal	policies	technology/product comply with municipal			
policies		guidelines ?			
Regulatory	1				
Advocacy					
Funding	Funding support	Are there funding programs that support this			
support		product in any way?			
Subsidies	1	- Development			
potential		- Implementation			
Potential		- Can people get funding for			
		implementation in garden for			
		example.			
		- Can project developers get			
		funding for implementation			
		in their projects.			
		- Etc.			
Actor	A stanional vancant				+
Actor	Actor involvement	How involved are different actors with the			

involvement		development and implementation of this product?	
Property ownership Ownership	Property ownership	Who is the owner of this product over its life cycle? And what about after its functional life cycle? Who is responsible?	
Presence of product warranty	Legal product performance assurance	Is there a product warranty that legally assures the product performance over a certain extend of time?	
Technology warranty			
Legislative Mandate	Legislative Mandate	Are there known legislative mandates to promote this technology/product?	
Political commitment to technology Policy support Political acceptance	Political Technology Endorsement (PTE)	To what extend is this product supported by policy?	
Management capacity Available resources Resistance to change Monitoring capacity	Organizational Technology Competence (OTC)	To what extend are government agencies open, able and motivated for the implementation of this technology? - Do they have management capacity - Do they have the required knowledge - Is there a resistance to this product	
Conflicts of interest	Conflicts of interest	Are there any conflicts of interest regarding the implementation of this technology/product in terms of policy?	

Impact & vulner	Impact & vulnerability						
Information	Cluster	Question	High level answer	Detailed answer	source		
aspect	o.uste.	Question		betailed distres	Source		
Functionality	Integration and Replacement	How is the site of implementation affected					
impact	Impact	by the installation of the technology:					
Disturbance of		- Is there permanent damage?					
inplace		- Does installation requires					
function		removing of inplace material					
What to do		(such as removal of inplace					
with replace		tiles etc.)					
material							
Replacement							
of in place							
structure							
Installation							
impact							
-							
Impact on							
building							
facades							
Water	Water Quality Impact of	Does the technology/product negatively					
pollution	Technology	impact quality of water of:					
Leaf litter		RunoffDue to leaf litter impact					
impact		- Due to leaf litter impact - Water draining from product					
Potential soil	Soil-Environment Relationship	-not for boomveer-					
contamination	3011 Environment Relationship	not for boomveer					
Soil drought							
Soil							
Organisms'							
Reactions to							
the							
Technology							
Soil Impact on							
Performance							
No	Hydrogeological Interaction	-not for boomveer-					
Groundwater							
Recharge							
Groundwater							
Level Impact							
on							
Performance							
Potential	Technology's dual impact	What are potential negative effects of this					
negative		technology/product?					
effects							

	1	1	1	7
Trade-off				
effect				
Vulnerability	Technology Resilience and	How vulnerable is this technology/product		
to damage	Robustness	to:		
Wear	1	- Misuse		
resistance		- Neglecting		
	-			
Vulnerability				
to misuse		- Mis management		
Vulnerability		- Vandalism		
to neglect		- Etc.		
Vulnerability	1			
Valificiability				
Environmental]			
sensitivity				
Vulnerability				
to removal				
Technology	Climate Resilience of	How resilient is this technology to changing		
Technology Vulnerability	Climate Resilience of	How resilient is this technology to changing weather conditions:		
Vulnerability	Climate Resilience of Technology	weather conditions:		
		weather conditions: - Wind		
Vulnerability to Weather		weather conditions: - Wind - Rain		
Vulnerability to Weather Wind		weather conditions: - Wind - Rain - Drought		
Vulnerability to Weather		weather conditions: - Wind - Rain - Drought - Solar intensity		
Vulnerability to Weather Wind displacement	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity		
Vulnerability to Weather Wind displacement considerations	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing		
Vulnerability to Weather Wind displacement considerations Seasonal	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing		
Vulnerability to Weather Wind displacement considerations	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing		
Vulnerability to Weather Wind displacement considerations Seasonal effects	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing		
Vulnerability to Weather Wind displacement considerations Seasonal effects Slip hazard	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing		
Vulnerability to Weather Wind displacement considerations Seasonal effects Slip hazard Dry Period	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing		
Vulnerability to Weather Wind displacement considerations Seasonal effects Slip hazard Dry Period	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing		
Vulnerability to Weather Wind displacement considerations Seasonal effects Slip hazard Dry Period Maintenance	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing		
Vulnerability to Weather Wind displacement considerations Seasonal effects Slip hazard Dry Period Maintenance Drought	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing		
Vulnerability to Weather Wind displacement considerations Seasonal effects Slip hazard Dry Period Maintenance Drought Resilience	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing		
Vulnerability to Weather Wind displacement considerations Seasonal effects Slip hazard Dry Period Maintenance Drought Resilience Peak rainfall	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing		
Vulnerability to Weather Wind displacement considerations Seasonal effects Slip hazard Dry Period Maintenance Drought Resilience	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing		
Vulnerability to Weather Wind displacement considerations Seasonal effects Slip hazard Dry Period Maintenance Drought Resilience Peak rainfall	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing		
Vulnerability to Weather Wind displacement considerations Seasonal effects Slip hazard Dry Period Maintenance Drought Resilience Peak rainfall response	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing - Peak rainfall events		
Vulnerability to Weather Wind displacement considerations Seasonal effects Slip hazard Dry Period Maintenance Drought Resilience Peak rainfall response	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing - Peak rainfall events		
Vulnerability to Weather Wind displacement considerations Seasonal effects Slip hazard Dry Period Maintenance Drought Resilience Peak rainfall response Impact on biodiversity	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing - Peak rainfall events Is there an impact of this technology/product on surrounding ecology?		
Vulnerability to Weather Wind displacement considerations Seasonal effects Slip hazard Dry Period Maintenance Drought Resilience Peak rainfall response Impact on biodiversity Ecological	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing - Peak rainfall events Is there an impact of this technology/product on surrounding ecology? - Negative?		
Vulnerability to Weather Wind displacement considerations Seasonal effects Slip hazard Dry Period Maintenance Drought Resilience Peak rainfall response Impact on biodiversity	Technology	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing - Peak rainfall events Is there an impact of this technology/product on surrounding ecology?		
Vulnerability to Weather Wind displacement considerations Seasonal effects Slip hazard Dry Period Maintenance Drought Resilience Peak rainfall response Impact on biodiversity Ecological	Ecological Impact	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing - Peak rainfall events Is there an impact of this technology/product on surrounding ecology? - Negative?		
Vulnerability to Weather Wind displacement considerations Seasonal effects Slip hazard Dry Period Maintenance Drought Resilience Peak rainfall response Impact on biodiversity Ecological response Environmental	Ecological Impact	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing - Peak rainfall events Is there an impact of this technology/product on surrounding ecology? - Negative?		
Vulnerability to Weather Wind displacement considerations Seasonal effects Slip hazard Dry Period Maintenance Drought Resilience Peak rainfall response Impact on biodiversity Ecological response	Ecological Impact	weather conditions: - Wind - Rain - Drought - Solar intensity - Freezing - Peak rainfall events Is there an impact of this technology/product on surrounding ecology? - Negative?		

Impact on Ecological Connectivity				
Root Impact on Path Material Plant Growth Through Material	Vegetation-technology Interaction	-not for boomveer-		
Fire Resistance	Fire Resistance	How resistant is this technology/product to fire?		
Pest and Pathogen Management in Water Buffer Technology Mosquito Infestation	Pest and Pathogen Management	Is there a risk on pest and pathogens for this technology / product; - Is it vulnerable to them - Does it facilitate them		
Shoe Cleanliness	End User Impact	not for boomveer-		
Public health Mortality and morbidity	Public Health impact	Can this technology/product have an impact on public health?		

Implementation & Instal	Implementation & Installation						
Information aspect	Cluster	Question	High level answer	Detailed answer	source		
Application possibilities of technology Applicability in market or event settings Location of deployment Possible application beyond parking lots Roof-based Implementation Versatility of use Multi-functional compatibility	Versatile Application	How versatile can it be applied roofs parks streets markets					
Previous technology deployment Technology Performance Studies	Technology Deployment History	Is this technology already deployed and proved to work.					
Context readiness for implementation	Context readiness for implementation	How ready is the context of implementation acceptance how much to people want product is production ready					
Installation responsibility	Installation responsibility	Who is responsible of installation					