

NAture Insurance value: Assessment and Demonstration (EC H2020 funded)

Finance for Adaptive Planning

CLOSING THE IMPLEMENTATION GAP For Financial Framework for Water Security

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IMPLEMENTATION GAP

PROJECT PREPARATION (5 Business cases)



FINANCING FRAMEWORK FOR WATER SECURITY

Water services as transactions...

- justified by a Theory of change + CBA
- organized in a implementation arrangement
- enabled/constrained by a institutional setting

Implementation arrangement governs actors towards

Cash profile f(x) Level of Service

(Hierarchy: Measure -> Function -> Service)

Risk profile f(x) Functionality throughout Project Life Cycle (Allocation: risks and costs)

1.3 Strategic: Cascade measure, function, and levels of service			Click instructions here		
Measure	Functions	Samulaa	Level of Service		
	Functions	Service	KPI	BaU	Solution
Measure 1 (infra-NBS)		Service 1	SMART	#	#
	Function 1	Service 2	SMART	#	#
Measure 2 (infra-trad)		Service 3	SMART	#	#
	Function 2	Service 4	SMART	#	#
Measure 3 (soft-measure)	_	Service 5	SMART	#	#
	Function 3	> Service 6	SMART	#	#
epresentation (map) of t	he BaU	Representation (map	o) of the solu	tion	



Source: Altamirano, M. A., et al. (Forthcoming). D7.3 Handbook for the Implementation of Nature-based Solutions for Water Security: guidelines for designing an implementation and financing arrangement, EU Horizon 2020 NAIAD Project, Grant Agreement N°730497 Dissemination.

Typology of NBS/watershed conservation implementation arrangements	Public project procurement	Public commissioner develops a project and tende it in the market through traditional or PPP/ Performance-based contracts	
	Water stewardship	Private company invest and commissions a 3 rd party to implement watershed conservation measures to reduce their water risks	
	Collective investment schemes	Entity that pool resources from different beneficiaries and invest them in a variety of NbS and hybrid measures	
	Environmental markets	An ecosystem service itself is marketed and sold as a commodity to a beneficiary (usually an institution rather than individual) in the context of a dedicated market, usually subject to oversight by a regulatory body	

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DC * * * Stormwater retention market– Washington D.C. – United States of America



The storm retention market operates upon as a mechanism for offsetting impacts or unavoidable losses to ecosystems due to project development (e.g. roads, real estate).

Credits are issued and sold to (grey infra and real estate) project developers that must reduce harmful stormwater runoff according to environmental regulations.

(Grey infra and real estate) project developers can meet the legal requirement either (i) installing green infrastructure, (ii) by removing impervious surface in their property or (iii) buying stormwater retention credits issued by landowners who install green infrastructure in their property (iii) buying credits from the in lieu program

In Washington D.C., the stormwater retention credit market is regulated by D.C. Water (Public Utility) and the Department of Energy and the Environment (DOEE).

In the USA, there is a long-lasting tradition of mitigation banks as a legitimate alternative to address the shortcomings of in-site environmental compensation – Clean Water Act







Thank you for our attention Questions?

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