

# Supplementary Materials: On How Crowdsourced Data and Landscape Organisation Metrics Can Facilitate the Mapping of Cultural Ecosystem Services: An Estonian Case Study, *Land* 2020, 9, Article No.

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**Table S1.** Number of cultural ecosystem service—CES-related photographs per protected area.

Name	Description	Number of CES-related photos
Lahemaa Rahvuspark	National Park	738
Vainameri	Baltic Sea Protected Area (HELCOM)	340
Otepaa Looduspark	Protected Landscape (Nature Park)	319
Soomaa Rahvuspark	National Park	188
Haanja Looduspark	Protected Landscape (Nature Park)	159
Pohja-Korvema Looduskaitseala	Nature Reserve	159
Kaina Lahe-Kassari	Protected Landscape (Nature Park)	137
Maastikukaitseala		
Oru Pargi Maastikukaitseala	Protected Landscape (Nature Park)	136
Turisalu	Site of Community Importance (Habitats Directive)	131
Korvema Maastikukaitseala	Protected Landscape (Nature Park)	125
Luitema Looduskaitseala	Nature Reserve	121
Vortsjarve	Special Protection Area (Birds Directive)	114
Tudusoo Looduskaitseala	Nature Reserve	110
Varesemagede Maastikukaitseala	Protected Landscape (Nature Park)	105
Piisa Joe Urgoru Maastikukaitseala	Protected Landscape (Nature Park)	89
Viljandi Maastikukaitseala	Protected Landscape (Nature Park)	83
Ontika Maastikukaitseala	Protected Landscape (Nature Park)	77
Alutaguse rahvuspark	National park	76
Ropka-Ihaste Looduskaitseala	Nature Reserve	75
Ahja Joe Urgoru Maastikukaitseala	Protected Landscape (Nature Park)	67
Parnu Rannaniidu Looduskaitseala	Nature Reserve	64
Rannaniidu	Site of Community Importance (Habitats Directive)	64
Kudema lahe	Special Protection Area (Birds Directive)	63
Piisa-Vommorski	Site of Community Importance (Habitats Directive)	61
Matsalu Rahvuspark	National Park	56
Meenikunno Looduskaitseala	Nature Reserve	54
Puhtu-Laelatu Looduskaitseala	Nature Reserve	51
Vilsandi Rahvuspark	National Park	50
Mullutu-Loode	Special Protection Area (Birds Directive)	49
Vooremaa Maastikukaitseala	Protected Landscape (Nature Park)	49
Kura Kurk	Baltic Sea Protected Area (HELCOM)	45
Pangametsa	Site of Community Importance (Habitats Directive)	45
Vep Nr.L02119	Woodland Key Habitat	45
Pakri	Special Protection Area (Birds Directive)	44
Puhtu-Laelatu-Nehatu Wetland Complex	Ramsar Site, Wetland of International Importance	44
Panga Maastikukaitseala	Protected Landscape (Nature Park)	43
Nova-Osmussaare	Special Protection Area (Birds Directive)	40

Name	Description	Number of CES-related photos
Raudna Looduskaitseala	Nature Reserve	40
Pihla-Kaibaldi Looduskaitseala	Nature Reserve	39
Elva Maastikukaitseala	Protected Landscape (Nature Park)	38
Aegna Maastikukaitseala	Protected Landscape (Nature Park)	37
Jagala Juga	Protected Nature Monument	37
Iisaku maastikukaitseala	Protected landscape (nature park)	36
Vep Nr.L02175	Woodland Key Habitat	36
Nova Looduskaitseala	Nature Reserve	35
Udria	Site of Community Importance (Habitats Directive)	34
Linnulaht	Unzoned Protected Area	33
Tihu Looduskaitseala	Nature Reserve	33
Tagamoisa	Special Protection Area (Birds Directive)	32
Loodi Looduspark	Protected Landscape (Nature Park)	31
Piusa Koobastiku Looduskaitseala	Nature Reserve	31
Paunkula Maastikukaitseala	Protected Landscape (Nature Park)	30
Korgessaare-Mudaste	Site of Community Importance (Habitats Directive)	29
Manija Maastikukaitseala	Protected Landscape (Nature Park)	28
Alatskivi Maastikukaitseala	Protected Landscape (Nature Park)	27
Hiiu Madala	Baltic Sea Protected Area (HELCOM)	27
Jarvelja Looduskaitseala	Nature Reserve	26
Kopu Looduskaitseala	Nature Reserve	25
Kahtla-Kubassaare	Special Protection Area (Birds Directive)	24
Mukri Maastikukaitseala	Protected Landscape (Nature Park)	24
Hiiumaa Islets and Kaina Bay	Ramsar Site, Wetland of International Importance	23
Sinialliku	Site of Community Importance (Habitats Directive)	23
Tamula jarve	Site of Community Importance (Habitats Directive)	23
Vep Nr.110146	Woodland Key Habitat	21
Puhatu Looduskaitseala	Nature Reserve	20
Hiiumaa Laidude Maastikukaitseala	Protected Landscape (Nature Park)	19
Marimetsa-Omma	Special Protection Area (Birds Directive)	19
Vohandu Joe Urgorg	Unzoned Protected Area	19
Agusalu Looduskaitseala	Nature Reserve	18
Kabli Looduskaitseala	Nature Reserve	18
Marjamaa jartade	Site of Community Importance (Habitats Directive)	18
Vormsi Maastikukaitseala	Protected Landscape (Nature Park)	18
Emajoe Suursoo Mire and Piirissaar Island	Ramsar Site, Wetland of International Importance	17
Endla Looduskaitseala	Nature Reserve	16
Peipsiveere Looduskaitseala	Nature Reserve	16
Vep Nr.L02149	Woodland Key Habitat	16
Alam-Pedja Looduskaitseala	Nature Reserve	14
Niidiaia Tammik	Unzoned Protected Area	14
Saare looduskaitseala	Nature reserve	14
Vesitukimaa	Site of Community Importance (Habitats Directive)	14
Jarve	Site of Community Importance (Habitats Directive)	13
Kihnu	Site of Community Importance (Habitats Directive)	13
Elva-Peedu Metsapark	Unzoned Protected Area	12

Name	Description	Number of CES-related photos
Johvi Linna Park Ja Allee	Unzoned Protected Area	12
Letipea Maastikukaitseala	Protected Landscape (Nature Park)	11
Ohessaare	Site of Community Importance (Habitats Directive)	11
Paganamaa Maastikukaitseala	Protected Landscape (Nature Park)	11
Prangli	Site of Community Importance (Habitats Directive)	11
Puhajoe	Site of Community Importance (Habitats Directive)	11
Sirtsu Looduskaitseala	Nature Reserve	11
Vep Nr.103156	Woodland Key Habitat	11
Abruka	Site of Community Importance (Habitats Directive)	10
Jarvevalja	Site of Community Importance (Habitats Directive)	10
Koigi Maastikukaitseala	Protected Landscape (Nature Park)	10
Kubassaare Maastikukaitseala	Protected Landscape (Nature Park)	10
Luhaso Looduskaitseala	Nature Reserve	10
Nabala-Tuhala Looduskaitseala	Nature Reserve	10
Saarjoe Maastikukaitseala	Protected Landscape (Nature Park)	10
Jarve Luidete Maastikukaitseala	Protected Landscape (Nature Park)	9
Pilkuse Maastikukaitseala	Protected Landscape (Nature Park)	9
Tuhala	Site of Community Importance (Habitats Directive)	9
Uljaste Maastikukaitseala	Protected Landscape (Nature Park)	9
Kastna Maastikukaitseala	Protected Landscape (Nature Park)	8
Kurgja Linnutaja Talu Maa-Ala	Unzoned Protected Area	8
Loodenina (6 Km) Rand	Unzoned Protected Area	8
Marimetsa Looduskaitseala	Nature Reserve	8
Uugu Maastikukaitseala	Protected Landscape (Nature Park)	8
Vep Nr.L01967	Woodland Key Habitat	8
Kikepera Looduskaitseala	Nature Reserve	7
Konnumaa Maastikukaitseala	Protected Landscape (Nature Park)	7
Mustoja Maastikukaitseala	Protected Landscape (Nature Park)	7
Parnu Rannapark	Unzoned Protected Area	7
Vahtrepa Maastikukaitseala	Protected Landscape (Nature Park)	7
Karula Rahvuspark	National Park	6
Odalatsi Maastikukaitseala	Protected Landscape (Nature Park)	6
Osmussaare Maastikukaitseala	Protected Landscape (Nature Park)	6
Paaskula Raba	Natural Object Protected At Municipal Level	6
Rapina	Site of Community Importance (Habitats Directive)	6
Tuhu-Kesu	Special Protection Area (Birds Directive)	6
Vaikese vaina	Site of Community Importance (Habitats Directive)	6
Karksi Maastikukaitseala	Protected Landscape (Nature Park)	5
Kaugatoma-Lou	Special Protection Area (Birds Directive)	5
Kaugatoma-Lou Maastikukaitseala	Protected Landscape (Nature Park)	5
Koorunomme Looduskaitseala	Nature Reserve	5
Lindi Looduskaitseala	Nature Reserve	5
Loode-Peipsi	Special Protection Area (Birds Directive)	5
Neeruti Maastikukaitseala	Protected Landscape (Nature Park)	5
Poanse	Site of Community Importance (Habitats Directive)	5

Name	Description	Number of CES-related photos
Reiu joe	Site of Community Importance (Habitats Directive)	5
Riksu ranniku	Special Protection Area (Birds Directive)	5
Ruhnu	Site of Community Importance (Habitats Directive)	5
Suurupi Looduskaitseala	Nature Reserve	5
Tuhu looduskaitseala	Nature reserve	5
Vep Nr.142002	Woodland Key Habitat	5
Vep Nr.153037	Woodland Key Habitat	5
Vep Nr.163026	Woodland Key Habitat	5
Vep Nr.163073	Woodland Key Habitat	5
Viitna Maastikukaitseala	Protected Landscape (Nature Park)	5
Haabneeme-Klindiastangu Maastikukaitseala	Natural Object Protected At Municipal Level	4
Kaapa Maastikukaitseala	Protected Landscape (Nature Park)	4
Kambla Looduskaitseala	Nature Reserve	4
Konuvere	Site of Community Importance (Habitats Directive)	4
Kuulmajarve Maastikukaitseala	Protected Landscape (Nature Park)	4
Marjamaa Jartade Maastikukaitseala	Protected Landscape (Nature Park)	4
Nepste	Site of Community Importance (Habitats Directive)	4
Nurtujoe	Site of Community Importance (Habitats Directive)	4
Parika Looduskaitseala	Nature Reserve	4
Parnu joe	Site of Community Importance (Habitats Directive)	4
Pirita Joeoru Maastikukaitseala	Protected Landscape (Nature Park)	4
Tikste Maastikukaitseala	Protected Landscape (Nature Park)	4
Tori Porgu	Unzoned Protected Area	4
Vaana	Site of Community Importance (Habitats Directive)	4
Vep Nr.107182	Woodland Key Habitat	4
Vep Nr.E00915	Woodland Key Habitat	4
Kirikumae Maastikukaitseala	Protected Landscape (Nature Park)	3
Lindmetsa Maastikukaitseala	Protected Landscape (Nature Park)	3
Loode Tammik	Unzoned Protected Area	3
Saarjarve Looduspark	Protected Landscape (Nature Park)	3
Vep Nr.143211	Woodland Key Habitat	3
Vep Nr.161042	Woodland Key Habitat	3
VEP nr.205035	Woodland key habitat	3
Vep Nr.E00916	Woodland Key Habitat	3
Antu Maastikukaitseala	Protected Landscape (Nature Park)	2
Audru Poldri Looduskaitseala	Nature Reserve	2
Kaisma	Site of Community Importance (Habitats Directive)	2
Kalmemagi	Protected Nature Monument	2
Keeri-Karijarve Looduskaitseala	Nature Reserve	2
Kurtna Maastikukaitseala	Protected Landscape (Nature Park)	2
Laidevahe Looduskaitseala	Nature Reserve	2
Lehtsaare Looduskaitseala	Nature Reserve	2
Nigula Nature Reserve	Ramsar Site, Wetland of International Importance	2
Ohepalu Looduskaitseala	Nature Reserve	2
Ohessaare Maastikukaitseala	Protected Landscape (Nature Park)	2
Pada Park	Unzoned Protected Area	2

Name	Description	Number of CES-related photos
Padaoru Maastikukaitseala	Protected Landscape (Nature Park)	2
Pedase	Site of Community Importance (Habitats Directive)	2
Poduste luha	Site of Community Importance (Habitats Directive)	2
Pohja-Liivimaa	Special Protection Area (Birds Directive)	2
Porkuni Maastikukaitseala	Protected Landscape (Nature Park)	2
Rangu	Site of Community Importance (Habitats Directive)	2
Sarve Maastikukaitseala	Protected Landscape (Nature Park)	2
Siiksaare-Oessaare	Special Protection Area (Birds Directive)	2
Struuga	Site of Community Importance (Habitats Directive)	2
Suursoo-Leidissoo	Special Protection Area (Birds Directive)	2
Taarikonnu-Kaisma	Special Protection Area (Birds Directive)	2
Tostamaa Maastikukaitseala	Protected Landscape (Nature Park)	2
Vaiko-Nedsaja	Site of Community Importance (Habitats Directive)	2
Vep Nr.141121	Woodland Key Habitat	2
Vep Nr.149102	Woodland Key Habitat	2
Vep Nr.L02047	Woodland Key Habitat	2
Viidumae Looduskaitseala	Nature Reserve	2
Ehmja-Turvalepa	Site of Community Importance (Habitats Directive)	1
Heimtali	Site of Community Importance (Habitats Directive)	1
Jalase Maastikukaitseala	Protected Landscape (Nature Park)	1
Kaali Maastikukaitseala	Protected Landscape (Nature Park)	1
Kalmistu Paljand; (Tartu Devoni Paljand)	Unzoned Protected Area	1
Karevere Looduskaitseala	Nature Reserve	1
Kasti lahe	Special Protection Area (Birds Directive)	1
Kuremaa Jarvearne Puhkeala	Unzoned Protected Area	1
Kurtna-Vilivere	Site of Community Importance (Habitats Directive)	1
Laanemaa Suursoo Maastikukaitseala	Protected Landscape (Nature Park)	1
Luubnitsa	Site of Community Importance (Habitats Directive)	1
Muraste Looduskaitseala	Nature Reserve	1
Nehatu Looduskaitseala	Nature Reserve	1
Nomme-Mustamae Maastikukaitseala	Protected Landscape (Nature Park)	1
Oisu Maastikukaitseala	Protected Landscape (Nature Park)	1
Padakorve Looduskaitseala	Nature Reserve	1
Paite Maastikukaitseala	Protected Landscape (Nature Park)	1
Paljassaare	Special Protection Area (Birds Directive)	1
Palojarve	Site of Community Importance (Habitats Directive)	1
Pootsi	Site of Community Importance (Habitats Directive)	1
Prangli Maastikukaitseala	Protected Landscape (Nature Park)	1
Presidendi Allee	Natural Object Protected At Municipal Level	1
Rahumae	Site of Community Importance (Habitats Directive)	1

Name	Description	Number of CES-related photos
Rannamoisa Maastikukaitseala	Protected Landscape (Nature Park)	1
Rannaniidi	Site of Community Importance (Habitats Directive)	1
Selja Joe Maastikukaitseala	Protected Landscape (Nature Park)	1
Siimusti-Kurista Maastikukaitseala	Protected Landscape (Nature Park)	1
Timmase	Site of Community Importance (Habitats Directive)	1
Tupenurme Pank	Unzoned Protected Area	1
Ulgase Looduskaitseala	Nature Reserve	1
Uulu-Voiste Maastikukaitseala	Protected Landscape (Nature Park)	1
Vaana joe	Site of Community Importance (Habitats Directive)	1
Vaana Maastikukaitseala	Protected Landscape (Nature Park)	1
Vaivara Maastikukaitseala	Protected Landscape (Nature Park)	1
Valgejarve Maastikukaitseala	Protected Landscape (Nature Park)	1
Valgesoo Looduskaitseala	Nature Reserve	1
Valgi Looduskaitseala	Nature Reserve	1
Vanamoisa	Special Protection Area (Birds Directive)	1
Vep Nr.103158	Woodland Key Habitat	1
Vep Nr.110200	Woodland Key Habitat	1
Vep Nr.124177	Woodland Key Habitat	1
Vep Nr.130080	Woodland Key Habitat	1
Vep Nr.154103	Woodland Key Habitat	1
Vep Nr.163002	Woodland Key Habitat	1
Vep Nr.163005	Woodland Key Habitat	1
VEP nr.205393	Woodland key habitat	1
VEP nr.205560	Woodland key habitat	1
Vep Nr.E00992	Woodland Key Habitat	1
Vep Nr.L00335	Woodland Key Habitat	1
Vep Nr.L00340	Woodland Key Habitat	1
Vep Nr.L00818	Woodland Key Habitat	1
Vep Nr.L00926	Woodland Key Habitat	1
Vep Nr.L00964	Woodland Key Habitat	1
Vep Nr.L01570	Woodland Key Habitat	1
Vep Nr.L02021	Woodland Key Habitat	1
Viieristi Looduskaitseala	Nature Reserve	1
Viisjaagu	Site of Community Importance (Habitats Directive)	1
Vohma Kivikulv	Unzoned Protected Area	1