Project progress report WP4 Univesity of Tartu

a) Legislative issues are clear for EST and LAT;

b) Indicator list is compiled;

c) Data sources for indicators are identified, availability checked in EST, data analysis to derive indicators is ongoing;

d) Conceptual tool is under development: analysis method is clear (overlay and probability maps \rightarrow suitability class), weights for legally non-binding factors is vague and remains so until questionnaires are completed

Summary of legislative restrictions

Restriction zone	Feature	Extent of the restri- Rural areas	ction zone Cities, settlemen	Definition of the restriction zone t	Legal basis
/ater and improvement system	land improvement system	Defined area	Defined area	Defined area	Land Improvement Act § 3, 45-48, 65
imited management zone of the shore or		200m	200m		Nature Conservation Act 9:34 - 37,41
	Sea coast, Lake Peipsi, Võrtsjärv	200m	200m		Nature Conservation Act § 34 - 37,41
	Inland waterbodies with area >10 ha and catchment >25km2		100m		Nature Conservation Act § 34 - 37,41
	Inland waterbodies up to 10ha area and up to 25km2 catchr	T 50m	50m	From the coast (from water line)	Nature Conservation Act § 34 - 37,41
	Spring	50m	50m	From the coast (from water line)	Nature Conservation Act § 34 - 37,41
Building exclusion zone of the shore or bar	Sea islands, coast at Narva-Jõesuu	200m	200m	From the coast (from water line)	Nature Conservation Act § 34 - 36, 38,40
	Sea coast, Lake Peipsi, Võrtsjärv	100m	50m		Nature Conservation Act § 34 - 36, 38,40
	Inland waterbodies with area >10 ha and catchment >25km	250m	50m		Nature Conservation Act § 34 - 36, 38,40
	Inland waterbodies up to 10ha area and up to 25km2 catchr Spring	25m	25m 25m		Nature Conservation Act § 34 - 36, 38,40 Nature Conservation Act § 34 - 36, 38,40
Water protection zone of the shore or ban		20m	20m	From the coast (from water line)	Water act § 29
trater protection zone of the shore of ban	Sea coast, Lake Peipsi, Võrtsjärv	20m	20m		Water act § 29
eehaarde sanitaarkaitseala	Inland waterbodies with area >10 ha and catchment >25km;	210m	10m	From the coast (from water line)	Water act § 29
	Inland waterbodies up to 10ha area and up to 25km2 catchr	r 10m	10m		Water act § 29
	Spring	10m	10m	From the coast (from water line)	Water act § 29
	Drilled well	50m	50m	From the side	Water Act § 28, 28, Regulation on defining and engineering sanitary protection zone of the water scoop (Minist
	Water scoop		200m updraught, f		Water Act § 28, 28, Regulation on defining and engineering sanitary protection zone of the water scoop (Minist
Cemetery	Cemetery sanitary zone	Defined area	Defined area	Defined area	Public Health Act §8, Water Act §28
Forest /ääriselupaik	Mau biologo	Defined area	Defined area	Defined area	
nfrastructure	Key biotope	Defined area	Defined area	Defined area	Forest Act § 23; Classificator of key biotope and guidline for selection (Ministry of Environment 04.01.2007 reg
	National road	50m	50m	From the central line of the outmost element (axi	Deade Act 6 13, 36, 37
Road safety zone	Local road	20-50m	20-50m	From the central line of the outmost element (axi	
	Street				Roads Act § 13, 36, 37
Railway safety zone	Railway	50m	30m	From the side (axis of the outmost rail)	Railways Act §3 ja 37
Surrounding area of Airfield	Airfield	150-500m from the axis of the			Aviation Act § 34, 34', 34', 35, 35', 46 (5)
Safety zone of high voltage powerlines	overhead electrical power lines < 1 kV	2m	2m	From the centre (axis of the line)	Electrical Safety Act § 12, Extent of the safety zone of electrical infrastructure and requirements for working in
	overhead electrical power lines kuni 20 kV	10m	10m	From the centre (axis of the line)	Electrical Safety Act § 12, Extent of the safety zone of electrical infrastructure and requirements for working in
	overhead electrical power lines 35–110 kV	25m	26m	From the centre (axis of the line)	Electrical Safety Act § 12, Extent of the safety zone of electrical infrastructure and requirements for working in
	overhead electrical power lines 220-330 kV	40m	40m	From the centre (axis of the line)	Electrical Safety Act 9 12, Extent of the safety zone of electrical infrastructure and requirements for working in
	overhead electrical power lines above navigatable inland wa		100m	from the both sides of projected vertical plane	Electrical Safety Act § 12, Extent of the safety zone of electrical infrastructure and requirements for working in
ety zone of gas infrastructures	underground electric cable overhead electrical cable 1-20kV	1m	1m		Electrical Safety Act § 12, Extent of the safety zone of electrical infrastructure and requirements for working in
	overhead electrical cable 1-20kV Submarine electrical cable in sea or lake	3m 100m	3m 100m		Electrical Safety Act § 12, Extent of the safety zone of electrical infrastructure and requirements for working in Electrical Safety Act § 12, Extent of the safety zone of electrical infrastructure and requirements for working in
Safety zone of gas infrastructures	Submarine electrical cable in sea or lake Submerged electrical cable in river	100m 50m	100m 50m	from the both sides of projected vertical plane from the both sides of projected vertical plane	Electrical Safety Act § 12, Extent of the safety zone of electrical infrastructure and requirements for working in Electrical Safety Act § 12, Extent of the safety zone of electrical infrastructure and requirements for working in
	Substations ja transformators	2m	2m		Electrical Safety Act § 12, Extent of the safety zone of electrical infrastructure and requirements for working in
	Support structures of electric poles	1m	2m 1m	from the projection on the land	Electrical Safety Act § 12, Extent of the safety zone of electrical infrastructure and requirements for working in Electrical Safety Act § 12, Extent of the safety zone of electrical infrastructure and requirements for working in
Safety zone of gas infrastructures	A- ja B category gas pipe	1m	1m	From the centre to the both side of the axis of th	Gaseous Fuel Safety Act §10, Extent of safety zone of gas infrastructure and maintenance zone of D category
	C category gas pipe	2m	2m	From the centre to the both side of the axis of th	Gaseous Fuel Safety Act §10, Extent of safety zone of gas infrastructure and maintenance zone of D category
	D category gas pipe DN<= 200 mm	3m	3m	From the centre to the both side of the axis of th	Gaseous Fuel Safety Act §10, Extent of safety zone of gas infrastructure and maintenance zone of D category
	D category gas pipe 200 mm <dn<= 500="" mm<="" td=""><td>5m</td><td>5m</td><td>From the centre to the both side of the axis of th</td><td>Gaseous Fuel Safety Act §10, Extent of safety zone of gas infrastructure and maintenance zone of D categor</td></dn<=>	5m	5m	From the centre to the both side of the axis of th	Gaseous Fuel Safety Act §10, Extent of safety zone of gas infrastructure and maintenance zone of D categor
	D category gas pipe DN>= 500 mm	10m	10m	From the centre to the both side of the axis of th	Gaseous Fuel Safety Act §10, Extent of safety zone of gas infrastructure and maintenance zone of D category
	C category parallel gas pipe	3m	3m		Gaseous Fuel Safety Act §10, Extent of safety zone of gas infrastructure and maintenance zone of D category
	D category parallel gas pipe DN<= 200 mm	4,5m	4,5m	From the centre to the both side of the axis of th	Gaseous Fuel Safety Act §10, Extent of safety zone of gas infrastructure and maintenance zone of D category
	D category parallel gas pipe 200 mm <dn<= 500="" mm<="" td=""><td>7,6m</td><td>7,5m</td><td>From the centre to the both side of the axis of th</td><td>Gaseous Fuel Safety Act §10, Extent of safety zone of gas infrastructure and maintenance zone of D category</td></dn<=>	7,6m	7,5m	From the centre to the both side of the axis of th	Gaseous Fuel Safety Act §10, Extent of safety zone of gas infrastructure and maintenance zone of D category
	D category parallel gas pipe DN>= 500 mm	15m	15m	From the centre to the both side of the axis of th	Gaseous Fuel Safety Act §10, Extent of safety zone of gas infrastructure and maintenance zone of D category
	A- ja B category underwater gas pipe	2m 4m	2m		Gaseous Fuel Safety Act §10, Extent of safety zone of gas infrastructure and maintenance zone of D category
	C category underwater gas pipe D category underwater gas pipe DN<= 200 mm	4m	4m 6m	From the centre to the both side of the axis of the	Gaseous Fuel Safety Act §10, Extent of safety zone of gas infrastructure and maintenance zone of D category
	D category underwater gas pipe DN<= 200 mm	10m	10m	From the centre to the both side of the axis of th	Gaseous Fuel Safety Act §1D, Extent of safety zone of gas infrastructure and maintenance zone of D category Gaseous Fuel Safety Act §1D, Extent of safety zone of gas infrastructure and maintenance zone of D category
	D category underwater gas pipe 200 mm <dn<= 500="" mm<br="">D category underwater gas pipe DN>= 500 mm</dn<=>	20m	20m		Gaseous Fuel Safety Act. §10, Extent of safety zone of gas infrastructure and maintenance zone of D category Gaseous Fuel Safety Act. §10, Extent of safety zone of gas infrastructure and maintenance zone of D category
	A- ja B category gas structure	1m	1m	From the side (of the structure or shield)	Gaseous Fuel Safety Act \$10, Extent of safety zone of gas infrastructure and maintenance zone of D category
	C category gas structure	2m	2m		Gaseous Fuel Safety Act \$10, Extent of safety zone of gas infrastructure and maintenance zone of D category
	D category gas structure	10m	10m		Gaseous Fuel Safety Act §10, Extent of safety zone of gas infrastructure and maintenance zone of D category
Safety zone of pressure infrastructure	Underground heat pipelines < 200 mm	2m	2m		Pressure Equipment Safety Act §18, Extent of safety zone of pressure equipment § 2
Safety zone of pressure infrastructure	Underground heat pipelines 200 mm and more	3m	3m	From the centre of vertical and horizontal plane p	Pressure Equipment Safety Act §18, Extent of safety zone of pressure equipment § 2
	Above-ground heat- and steam pipelines >16 bar	10m	10m	From the centre of vertical and horizontal plane p	Pressure Equipment Safety Act. §18, Extent of safety zone of pressure equipment § 2
	Above-ground heat- and steam pipelines 16 bar or less	5m	5m	From the centre of vertical and horizontal plane p	Pressure Equipment Safety Act §18, Extent of safety zone of pressure equipment § 2
	Above-ground hot water pipelines >6 bar	5m	5m		Pressure Equipment Safety Act _918, Extent of safety zone of pressure equipment § 2
	Above-ground hot water pipelines 6 bar and less	2m	2m		Pressure Equipment Safety Act §18, Extent of safety zone of pressure equipment § 2
	Pressure infrastructure	2m	2m	From the side From the centre	Pressure Equipment Safety Act §18, Extent of safety zone of pressure equipment § 2
	Pressure pipes (liquid fuels)	5m	5m		Pressure Equipment Safety Act §18, Extent of safety zone of pressure equipment § 2
Water and sewage protection zone	Pressure pipes (hazardous materials) Underground water and sewage pipes	Defined area 2-5m	Defined area 2-5m	From the centre From the centre of the pipe to the both sides	Pressure Equipment Safety Act §18 Public Water Supply and Sewerage Act §31
Water and sewage protection zone	Above-ground water and sewage pipes	2-0111 2m	2*0m 2m	From the centre of the pipe to the both sides	Public Water Supply and Sewerage Act §3
	Underwater water and sewage pipes in rivers and lakes ja ka		50m		Public Water Supply and Severage Act §3'
	Submarine water and sewage pipes in sea	200m	200m		Public Water Supply and Sewerage Act §3'
	Structure for water and sewage	2m	2m	From side or up to the fence	Public Water Supply and Sewerage Act §31
Protection zone for communication	Communication structure on land	2m	2m	From centre or side of the wall	Electronic Communications Act §117-119
Protection zone for communication	Communication structure in inland waterbodies	100m	100m	From centre	Electronic Communications Act §117-119
	Communication structure on sea	0,25 nautical miles	0,25 nautical mile		Electronic Communications Act §117-119
		equivalent radius of 1/3 heigh	equivalent radius (From centre	Electronic Communications Act §117-119
	Radiocommunication mast				
Planning, construction and objects of nation	nal importance				Planning Act § 8, 9
Planning, construction and objects of nation	nal importance Mandatory detailed planning area	Defined area	Defined area		
Planning, construction and objects of nation	nal importance Mandatory detailed planning area Detailed planning area	Defined area	Defined area	Defined area	Planning Act §8,9
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Indicators

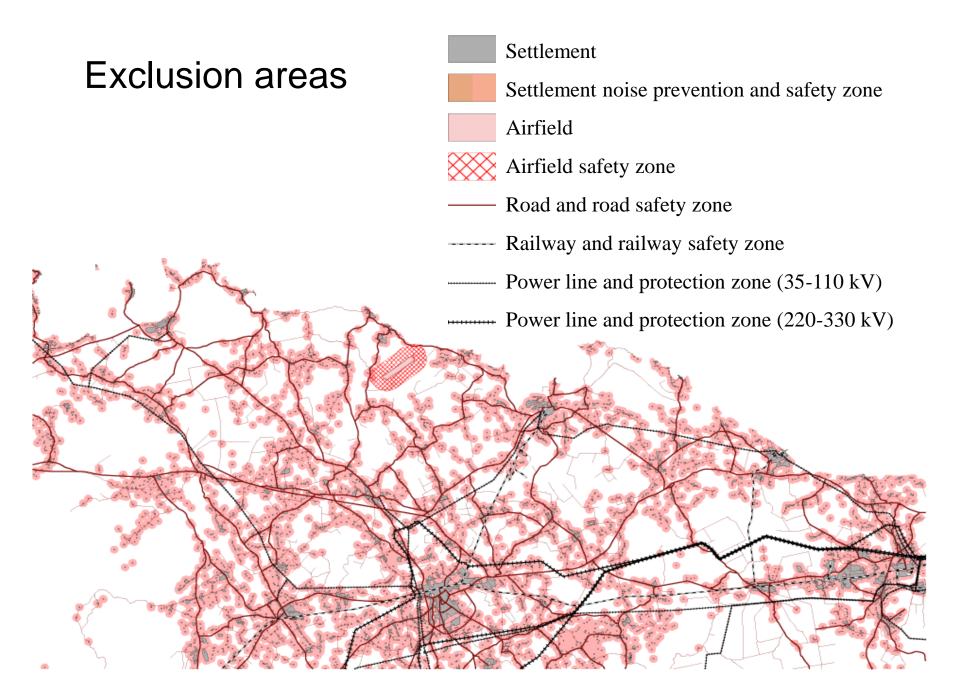
Nearly 100 indicators needed for suitability analysis

Data availability check completed in EST

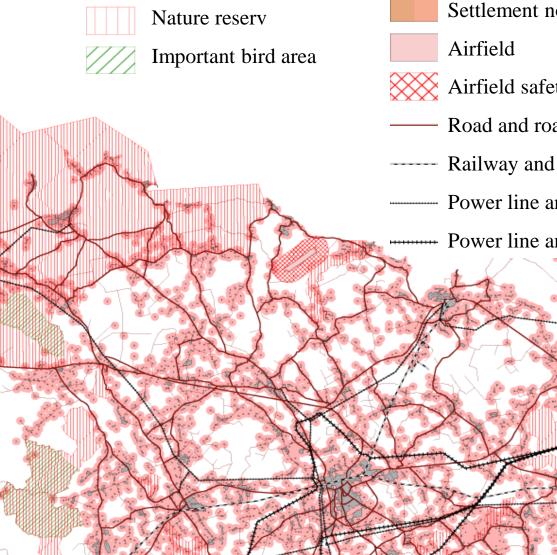
List of india	ators relevant for v	vind energy planning	1 issues	for the Gu	If of Rida marine a	nd cor	etal /5	-10 km) +	arrita	riac								
List of maic	ators relevant for v	and energy planning	Jissues									_						
Category	Indicator	Resolution/parameter/type	Time period	Primary user and r Work package	main field of use Purpose	Availability Estonia		To be clan Legal Eston	i restiction		Legal Act Estonia Latvia							
Vieteorological data																		
neworological data	wind speed	0.1 / 1 m/s	1980-2010	WP2		Available N	Meteorolog	ical stations of Li	HMI Aina	zi. Kolka. Mer	srags, Priekuli, Skult	e. Stende. Z	ilani. Ventspi	s				
	wind gust	0.1 / 1 m/s	1980-2010	WP2							u, Virtsu, Vilsandi, S							
	wind direction	1º / 10º	1980-2010	WP2		Available N	/leteorologic	cal stations of EM	(HI Ruhnu	ı, Kihnu, Pärn	u, Virtsu, Vilsandi, S	órve, Láäne	-Nigula, Viliar	ıdi				
	air temperature (2 m)	0.1º	1980-2010	WP2		Available N	Aeteorologic	cal stations of EM	(HI Ruhni	ı, Kihnu, Părn	u, Virtsu, Vilsandi, S	ôrve, Lââne	 Nigula, Vilia 	ıdi				
	air pressure	mmHg/bar	1980-2010	WP2		Available N	/leteorologic	cal stations of EM	(HI Ruhnu	, Kihnu, Pärn	u, Virtsu, Vilsandi, S	órve, Lááne	-Nigula, Viljar	ıdi				
	precipitation	mm	1980-2010	WP2		Available N	Aeteorologic	cal stations of EM	(HI Ruhni	ı, Kihnu, Parn	u, Virtsu, Vilsandi, S	órve, Lááne	-Nigula, Viljar	ıdi				
	Meteo mast coordinates	TM Baltic (LKS 1992 Latvia TM; Bas	1980-2010	WP2		Available		Any changes in I	location in	n 1980-2010?								
	High measurement masts	0.1 m/s; 1º; bar	>1995	WP2		To be agre	ed with dev	Locations availab	ble: Virtsu	i (Rõuste), Uu	lu EE; ? LV							
SAR data	wave height	m		WP2														
	wave direction	1º/ 10º		WP2														
	ice cover			WP2														
Orography	Isolines	(5m /10m) /1:10 000		WP2, WP4	WAsP wind field, visualization													
	3D terrain model	10m / 1: 50 000		WP2	Climate modelling	Available		TIN or DEM?										
	Lidar	70mm / 0.45 point per m2	2010			Available		To be bought fro	m Land E	Board if neces	sary (
Bathymetry	Isobaths	1: 50 000 or higher		WP4, WP3	suitability analysis of wind farms			Minimum require	ement: ac	curate depth ()-35m, generalized in	1fo deeper th	1an 35m					
	3D terrain model			?				If necessary										
Sediments	Sediment type	1:100 000			suitability analysis of offshore wir			if necessary										
	ecotope classification	1:100.000		WP3, WP5	suitability analysis of offshore wir	nd farms		if necessary										
la instru	his is sheet as the			WP4	and the little second second second second	a di da mara					Marillana Cadata - 1							
lavigation	Navigation routes				suitability analysis of offshore wir				specific		Maritime Safety Act							
	Navigation signs			WP4	suitability analysis of wind farms			Site s	specific		Maritime Safety Act							
forino uno	Eiching ground:			WP4	a itabilitu apolusia af affata	od forme												
Marine use	Fishing grounds				suitability analysis of offshore wir				460m		Casa and Front C. 11	L Bak Par	una Electrica	d Cafet	A DUAL C	Motor C	. and C .	-
0	Cables, pipelines etc.				suitability analysis of offshore wir suitability analysis of offshore wir	nd farms					Gaseous Fuel Safet	y Act, Press	ure Equipme	n sarety A	a, MUDIIC 1	water Supply	r and Sew	.ver
	Ordnance deposits								specific		Dissoing 1-1							
	Military training areas				suitability analysis of offshore wir				specific		Planning Act							
	Marine mining areas	tone others blad and		WP4	suitability analysis of offshore wir	nd farms	allas 1	Site s	specific		Earth's Crust Act							
	Marine Protected areas	Important bird areas		WP4	suitability analysis of offshore wir	r Available o	nine in ras	ter format through	n WMS s	erver via Land	Board							
		Natura2000		WP4	suitability analysis of offshore wir	Available o	nine in ras	ter format through	n WMS s	erver via Lano	Board							
		Other		WP4	suitability analysis of offshore wir	r Avaitable o	mine in ras	ter format through	n WMS s	erver via Land	Board							
and use	Cottlamont	Public and administrative holds.		3404	a itabilitu analusia af ulad f	for and the last	man dente	Needed in 144	(D/A)		Deputation Mr. 40.1	4.02.0000	of the L first 1	r of C · · · ·	Affeirs			
and use	Settlement	Public- and administrative buildings Residential		WP4 WP4	suitability analysis of wind farms	Available,	map denvie	reeded in <40 d	ID(A)		Regulation No. 42 (I							
	Information and and			vv1-4	suitability analysis of wind farms suitability analysis of wind farms	Available,	map derivie	rveeded in <40 d	ie(A)		Regulation No. 42 (I	14.03.2002)	u the Ministe	t of Social	Mitairs			
	Infrastructure	National roads		WP4	sunability analysis of wind farms	Available,	map derivie	rveeded in 50m			Road Act							
		Local roads		WP4 WP5	suitability analysis of wind farms	Available,	map derivie	Needed in 20-50	JM .		Road Act							
		Ice road corridors			suitability analysis of offshore wir	nd farms		Site s	specific		Road Act							
		Railways Airfields			suitability analysis of wind farms				() all a		Railway Act							
					suitability analysis of wind farms	Available,	map derivie	Needed in 500m	i (+site sp	ecific area/he	Aviation Act							
		(gas) pipelines		WP4 WP5	suitability analysis of wind farms	Available,	map derivie	reeded in up to	10m		Gaseous Fuel Safet	y Act, Press	ure Equipme	nt Safety A	a, Public 1	water Supply	and Sew	Ner
		Submarine gas pipelines			suitability analysis of wind farms				∠um		Gaseous Fuel Safet							
		High voltage powerlines 35-110 kV		WP4 WP4	suitability analysis of wind farms	Available,	map derivie	weeded in 25m			Electrical Safety Ac							
		High voltage powerlines 220-330 kV	hable internet		suitability analysis of wind farms suitability analysis of wind farms	Available,	map denvie	Needed in 40m			Electrical Safety Ac Electrical Safety Ac	L						
		High voltage powerline above naviga Submarine high voltage powerlines	arania iujauq m	EWP4 WP4	suitability analysis of wind farms suitability analysis of wind farms						Electrical Safety Ac Electrical Safety Ac							
		Communication lines on land		WP4 WP4	suitability analysis of wind farms suitability analysis of wind farms	rhvan 8018,	map derivié	Needed in 100m Needed in 2m			Electrical Safety Ac Electronic Commun	iontione é -t						
		Communication lines on land Communication line in navigatable in	nland weberk -		suitability analysis of wind farms			Needed in 2m Needed in 100m			Electronic Commun	ications Act						
		Submarine communication lines	Indiru watercoi		suitability analysis of wind farms suitability analysis of wind farms			Needed in 100m Needed in 460m			Electronic Commun							
		Radio communication masts			suitability analysis of wind farms suitability analysis of wind farms			Needed in 460m Needed in 1/3 of	f height o	f the meet	Electronic Commun							
	Planning areas with designation				suitability analysis of wind farms			Needed in 1/3 of Needed in Site s		r e ið ffiðst	Planning act	CORDERS ACE						
	 weeking areas with designation 	Excavation/mining area			suitability analysis of wind farms	Avgilable					Earth's Crust Act							
		Geological exploration area			suitability analysis of wind farms	, manaule,	nap donne	Needed in Site s	pacific		Earth's Crust Act							
		Mineral deposit area			suitability analysis of wind farms			Needed in Site s	pecific		Earth's Crust Act							
		State border area			suitability analysis of wind farms				poulle		State Borders Act							
		State border area Water scoops			suitability analysis of wind farms suitability analysis of wind farms	Available	man derivie	Needed in 200m			Water Act							
		Burial ground (cemetery)			suitability analysis of wind farms	Available	map derivi-	Needed in Site -	mecific		Public Health Act							
		Burial ground (cemetery) Burial ground (animal cemetery)			suitability analysis of wind farms						Public Health Act							
			ion network ~		suitability analysis of wind farms	rheandbliet,		Needed in Site s Needed in Site s			Land Improvement	Act						
		Land improvement systems (regulat Building exclusion zones of shores	and backs	WP4 WP4	suitability analysis of wind farms	fargilable.				m	Land Improvement / Nature Conservation	nui						
		Enacted detailed, master or county							00/50/25		rvature ConserVation	na						
	Forests	chaoted detailed, master or county	pan with any	spotationy defined des	signated land use category not co suitability analysis of wind farms	Augitable	nan dorivi -	in development										
	Forests Wetlands				suitability analysis of wind farms suitability analysis of wind farms	Available,	map derive	ru d										
	Waterbodies				suitability analysis of wind farms	Avanable,	map deniñe											
	Nature protection	key biotopes		WP4	suitability analysis of wind farms			Needed in Site s	merific		Forest Act							
	read e protection	protected area			suitability analysis of wind farms			Needed in Site s			Forest Act Nature Conservation	a Act						
		limited-conservation area			suitability analysis of wind farms suitability analysis of wind farms			Needed in Site s	pecific		Nature Conservation Nature Conservation	n Act						
		natural objects protected on local go	: wernment leve		suitability analysis of wind farms			Needed in Site s	pecific		Nature Conservation	Act						
		protected natural monuments			suitability analysis of wind farms	1 km soci	alv sepsition	Needed in 50m	-poorling		Nature Conservation							
		species protection sites (I, II, III cat	herrory)		suitability analysis of wind farms suitability analysis of wind farms		ny sei isitive	Needed in SUM Needed in Site s	necific		Nature Conservation							
		environmental monitoring station	egory)		suitability analysis of wind farms suitability analysis of wind farms			Needed in Site s	petitic		Environmental Moni	oring Act						
		nitrate sensitive areas			suitability analysis of wind farms			Needed in Site s			Water Act	wing Act						
		intrate sensitive areas unprotected groundwater (spring, ka	arct)		suitability analysis of wind farms suitability analysis of wind farms			Needed in Site s Needed in Site s			Water Act							
	Heritage protection	heritage conservation areas	ai 51)	WP4 WP4	suitability analysis of wind farms suitability analysis of wind farms			Needed in Site s	pecific		Heritage Conservati	on Act						
	rienage protection	protected heritage object			suitability analysis of wind farms suitability analysis of wind farms					ined others in	Hentage Conservati Heritage Conservati	on Mul						
		protected heritage object		**P*4	sunaulity analysis of wind farms			weeded ID SOM (ten nut det	neu vinerwise	nemage conservab	on Mot						
formal contractor	Marino mammale (if est est 1	Ecoding arounds		WP4	n itability analysis of sized f													
normal, socially of er	Marine mammals (if not protecte				suitability analysis of wind farms													
		resting areas		**1***	suitability analysis of wind farms													
	Birds (if not protected species)	Feeding grounds		WP4	suitability analysis of wind farms													
	birus (if not protected species)	resting grounds			suitability analysis of wind farms suitability analysis of wind farms													
		migration routes		vv)~4	suitability analysis of wind farms													
				11001														
	Landscape	Traditional (heritage) landscapes			suitability analysis of wind farms													
		Valuable view	halo m - t - t		suitability analysis of wind farms	Check 11.1	and a star of the			and an and a second second								
		Views from public places (multiple p		r vvi-4	suitability analysis of wind farms	sites to be	selected (s	sociological surve	ey) and pl	notos to be tak	en							
		Views from roads (safety at crossin	igs, curves)															
	-	-																
	Recreation	Parks, nature trails, hiking routes							B(A), site		Regulation No. 42 (
		beach, swimming area watersport, surf, sailsurfing						40 dB	3(A), site	specific	Regulation No. 42 (14.03.2002)	of the Ministe	r of Social	Affairs			
		watersport, surf, sailsurfing																
		Observation towers																
1	Topographic	1:10 000	most recent	WP2, WP3, WP4		Available		Vector format, T	M Baltic s	system								
Лар		(Corine Land Cover; Base map) 1:5	5 2006	if needed		Available		Vector format, T	M Baltic s	system								
nap	Topographic supplementary	[come cana cover, base map) i.c																
nap	Marine/Navigation Aerial orthophotograps		most recent most recent	WP3, WP4			Delivered,	Vector format, T	M Baltic s	system								

Suitability analysis tool

- Conceptual tool is under development: analysis method is clear:
 - physical prerequisites
 - Map overlay
 - restrictions
 - probability, acceptance etc. maps etc.
- Handling of marine and coastal areas somewhat different (no marine plans)



Exclusion and strictly restricted areas

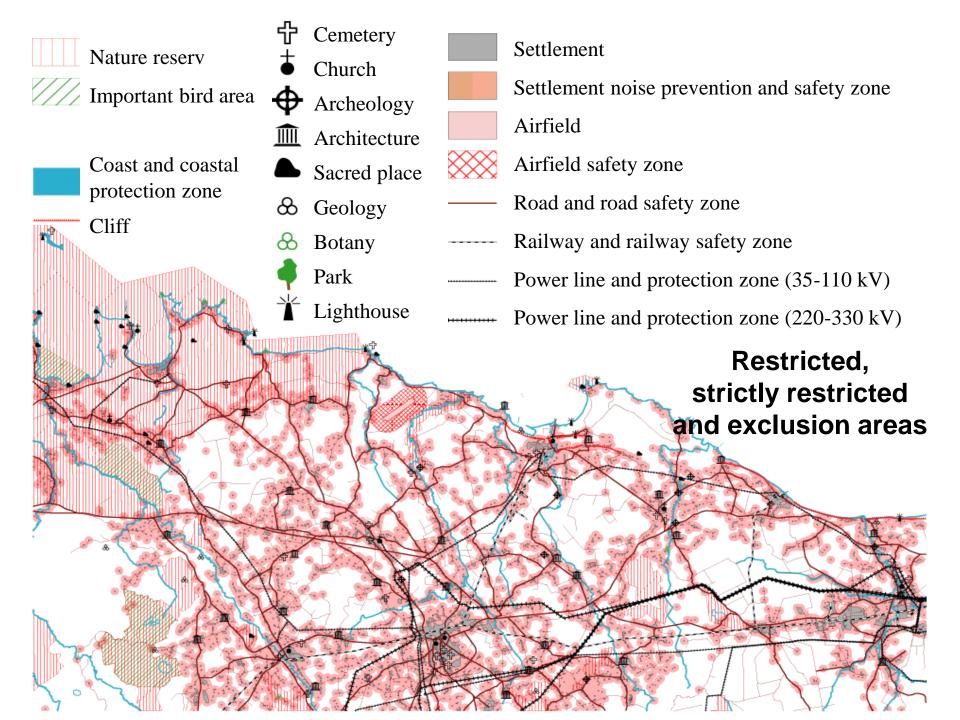


Settlement noise prevention and safety zone

Airfield safety zone

Settlement

- Road and road safety zone
- Railway and railway safety zone
- Power line and protection zone (35-110 kV)
 - Power line and protection zone (220-330 kV)





Nature reserv

Important bird area

Coast and coastal protection zone

Cliff

Recreation, protection zones

Natura 2000 areas

Settlement

Settlement noise prevention and safety zone

Airfield

- Airfield safety zone
- Road and road safety zone
- Railway and railway safety zone
- Power line and protection zone (35-110 kV)
- Power line and protection zone (220-330 kV)

Cemetery

Church

- ➔ Archeology
- Architecture
- Sacred place
- & Geology
- Botany
- Park
- Tighthouse
- **Recreation**
- 📚 Beach
- Observation tower
- Communication mast

Exclusion, stricktly restricted, restricted and reservation areas

Settlement

- Settlement noise prevention and safety zone Airfield
- Airfield safety zone
- Road and road safety zone
- Railway and railway safety zone
- Power line and protection zone (35-110 kV)
- Power line and protection zone (220-330 kV)



Nature reserv

Important bird area Coast and coastal protection zone

Cliff

Recreation, protection zones

Natura 2000 areas

Waterbodies Wetlands Mining areas Forest

- Cemetery ÷
- Church
 - Archeology
- Architecture
- Sacred place
- & Geology
- ക **Botany**
 - Park
 - Lighthouse
- XX Recreation
- **≫** ₿ Beach
 - Observation tower
- Communication mast
 Naturally unsuitable,

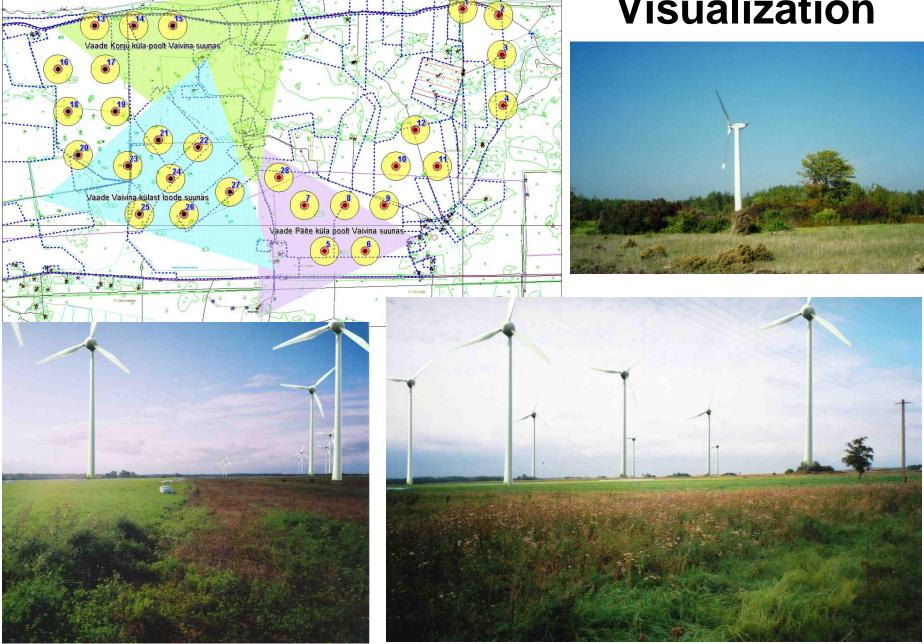
exclusion, strictly restricted, restricted and reservation

areas

Literature review

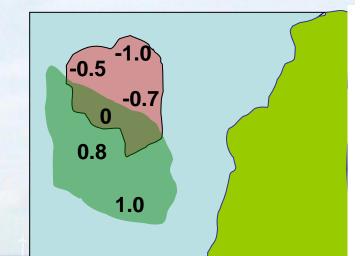
- Benefits/problems for:
 - local communities
 - local inhabitants
 - state
- Applied support / mitigation schemes
 - taxation
 - resource royalities
 - tolerance payment, physical improvement of (living) environment/space
- BAT, innovative technologies

Visualization



Visualization

- Questionnaire:
 - how far is acceptable?
 - how many is acceptable?
 - where is acceptable?
- Stakeholder:
 - adminstrative level (planners, authorities)
 - local inhabitants
 - land owners /vacation
 - tourism
 - marine associates (fishermen, navigation etc)



Sociological study

- WP 4 meeting in June (Tartu)
 - compilation of survey will be agreed
- Starting survey in summer
 - paper based
 - internet based
 - direct questionnaires for authority representatives
- Expected scientific output:
 - comparative study paper about attitude toward wind energy and offshore wind farms in EST and LAT