Name of the place:				
High biodiversity -	Juchowo forest			
Basic information				
Cadastral zone	Borne Sulinowo commune, West Pomeranian Voivodeship, Poland			
Land register reference	321504_5.0099.15/4			
Owner	Stanisław Karłowski Foundation			
Contact	info@juchowo.org			
Latitude GPS	53.4037729N, 16.2927092E			
Area	8,02 ha			
Altitude	140 m above sea level			
Description of wider rela	tions			
Growing culture	Alder carr and beech-oak forest.			
The nature of the land	Forest, partly waterlogged wooded terrain close to a road to Zamęcie Village.			
Current use	Private, not managed forest	te, not managed forest Comm.:		
Water or water source	On the east side of this terrain there is a water canal which connects the Ciemino swamp and the Ciemino Lake (south side of this terrain) with the Radacz Lake and the Juchowo Lake.			
Territorial relations	Private property of the Stanisław Karłowski Foundation			
Forest management plan (FMP)	Yes	Valid through	n/a	
Age: in %	European black alder (Alnus glutinosa)	25 – 50 years old	x	
	beech (Fagus), oak (Quercus)	50 and more		

Biota – forest cover and its inhabitants			
Vegetation as from reso	ources		state
Phytocenology	18% - Alder carr 82% - fresh forest		
Original natural vegetation	Beech – oak forest waterlogged alder forest		
Potential natural vegetation	oak (Quercus), beech (Fagus), willow (Salix)		
Forest stand: in %	Tree layer:	oak (Quercus), pine (Pinus sylvestris), beech (Fagus),	

		1	,,
		spruce (<i>Picea</i>),	
		common aspen	
		(Populus	
		<i>tremula</i>), alder	
		(Alnus), birch	
		(Betula), willow	
		(Salix), wild cherry	
		(Padus	
		avium)	
	Shrub layer:	beech (Fagus), oak	
		(Quercus),	
		rowan (Sorbus	
		aucuparia),	
		spruce (<i>Picea</i>), hazel	
		(<i>Corylus</i>), bird cherry	
		(Padus)	
	Herb layer (description):	sedges (Carex),	
		common skullcap (Scutellaria	
		`	
		galericulata),	
		poisonberry (Solanum	
		dulcamara), marsh	
		fern (Thelypteris	
		palustris), milk-	
		parsley (Peucedanum	
		palustre), tufted	
		loosestrife	
		(Lysimachia	
		thyrsiflora), yellow	
		loosestrife	
		(Lysimachia vulgaris)	
Fauna – remarkable, kn			state
Vertebrates	common frogs (Rana temporari	a), red squirrels	
	(Sciurus vulgaris), wild boars (S	Sus scrofa), several	
	species of woodpeckers, comm	on blackbird (Turdus	
	merula), white wagtail (Motacilla	a alba), red deer	
	(Cervus elaphus), roe deer (Ca	,	
Insects	ticks (Ixodida), ants (Formicidae		
	(Geotrupes stercorarius)	,,	
	Snails (Gastropoda)		
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Forest as a cultural aspect of the landscape PAST

Culture		
What has influenced the forest so far, is it somehow connected with the culture of the surrounding environment, is it part of the cultural development of the landscape?	 Ditches, drainage, canals nearby Few simple forest paths There have been attempts to transform the forest into a commercial forest In addition, in the 80s of the 20th century there were logging attempts There was a reduction of interference to the minimum level, with the goal of supporting the original tree stand regeneration 	
Civilization		<u> </u>
What is the relationship between the forest and civilization now, how does the civilization reflect on its state and development?	From an economic point of view, wetland forests are worthless. Furthermore, people are reluctant to go on a stroll in this type of forest due to high humidity and density of alders growing there. However, this makes the alders a valuable habitat in terms of biodiversity.	
Story		
Origin of the relation	Before World War II, the Juchowo forest area belonged to Germany. Specifically, the area of Juchowo belonged to one family who managed a large landed estate, which included not only agricultural land but also forest as well. After the war, the Germans left and people from eastern Poland were resettled in the area. The grounds of the manor were taken over by the St. Karlowski Foundation, which is trying to recreate and preserve the natural conditions from before the war. Originally, the Juchowo forest was not used commercially due to its marshy nature, and was a sanctuary for wild animals.	
PRESENT		
Currently, the Juchowo fo over the former Juchowo I water conditions destroye owners' idea is to keep the War II, a sanctuary for will		Notes and questions
Natural side of prese	ent development	
	The trees are not being cut down due to the difficulty in using heavy machinery on wetlands. Biodiversity is increasing due to reduced logging and lack of interest from people in walking there.	
Threats and limits		

	To preserve a high biodiversity wet forest, the management of the neighbouring land is of utmost importance; in particular, there needs to be an emphasis put on water retention in the environment.	
FUTURE		
Juchowo Foundation plar wetlands.	ns to have a high-biodiversity forest and to restore the	Notes and questions
Natural side of pres	ent development	
	No logging, biodiversity will increase	
	Animals will have the space and necessary conditions to live and breed. Fauna will become more diverse, and there will be no damage caused by the use of heavy machinery such as harvesters.	
Threats and limits		1
	Change of land use of the neighbouring land, issues with keeping the water in the forest are possible.	
Intention of the fore	st activities	1
Expectations	The forest will have a high biodiversity.	
What will my forest provide to people	The forest will become a sanctuary for wild animals and people will be able to enjoy high biodiversity.	
Plan – in 10 years	Partial cutting of large-area (to restore stands of) beeches, pines, oaks and others. Regeneration felling (to ensure adequate moisture and diffused light, and to maintain cover for the forest against extreme temperature fluctuations and wind). Late thinning (to prepare the stand for natural regeneration) and agromelioration (to improve the physical properties of the soil).	
Plan – in 50 years	No logging, wild forest, natural forest inventory, monitoring the biodiversity	
Who do we need to	Forestry experts, local authorities, cooperation	
reach the goal?	between the local community and the Foundation	
Proposals and steps		
What	Legend	Who
Forest inventory with the support of forestry and wetland experts	Analyse what can be done to keep the water in the forest and preserve the wet alder forest.	land owner + forester

Preparation of the forest for seedlings	Partial, large-area felling (for the renewal of tree stands) of beeches, pines, oaks and others	landowner
Cutting and planting	Regeneration felling to ensure adequate moisture and diffused light, and to maintain cover for the forest against extreme temperature fluctuations and wind.	landowner, forester
Late thinning	Prepare the stand for natural regeneration.	landowner, forester
Melioration	Minor water retention activities – removal of drainage from the neighbouring land, installation of small water dams on the nearby canal.	land owner, forester
Monitoring	Check if another intervention is needed. In addition, nesting boxes for birds will be hung.	land owner

Monitoring the development		
Time		
27.06.2022	Forest inventory	
2022 / 2023	Regeneration felling	
10.2023	Planting	
03.2024	Introduction of small-scale water retention	
2025	Monitoring	

Inspiration		
Literature		what
Heard around	Juchowo Foundation	
Meetings	08.2021, 10.2022	
Discussions within the	08.2021, 10.2021, 04.2022	
project team		