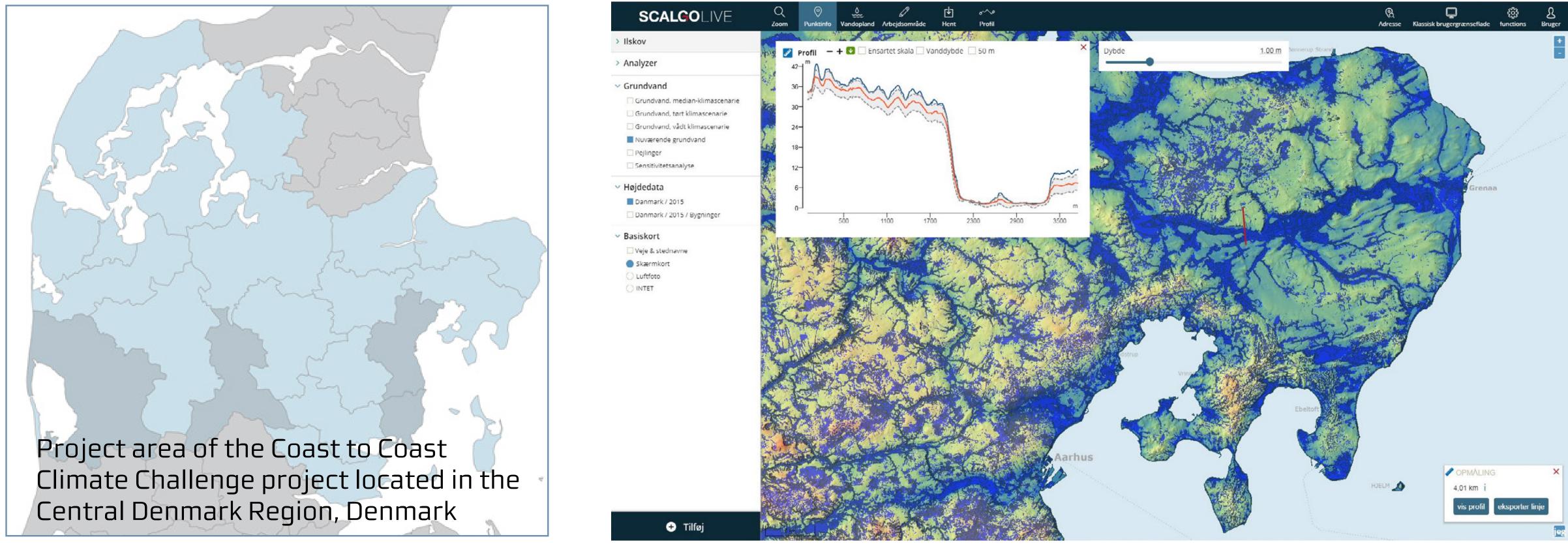
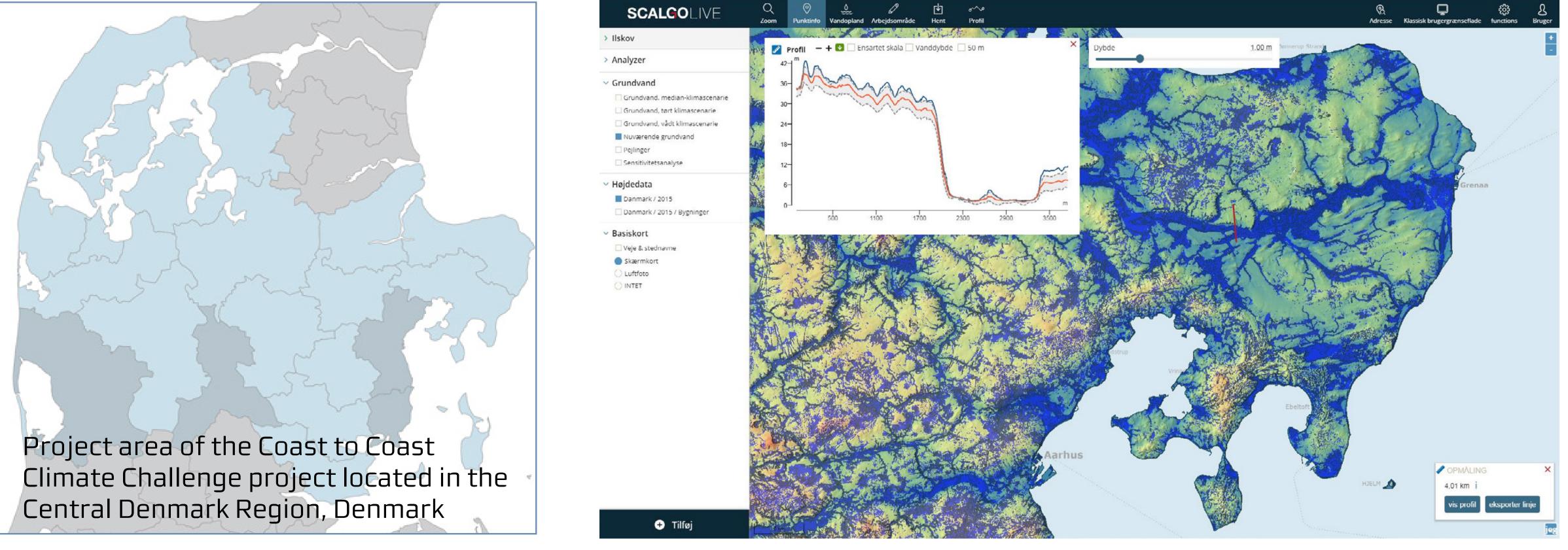




Development of tool to assess shallow groundwater - by use of machine learning





Variables used in machine learning

Groups	Variables	A A A A A A A A A A A A A A A A A A A
Geology	Clay content - a horizon	Mar And Charles Constants
	Clay content - b horizon	
	Clay content - c horizon	
	Clay content - d horizon	
	Quaternary thickness	
	Top clay thickness	
	Drain probability	Vachine learning based on
	Drain categories	Machine learning based on random forest algorithm
	Lowland classification	
	Landscape typology	
	Geo-region	Alle data
	Soil type	
Topography	Elevation model	$X_1 > t_1$
	Elevation model detrend	X_>t, X_>t, X_>t,
	Topographic Wetness Index	$X_2 > t_2$ $X_1 > t_3$
	Saga Wetness Index	
	Upstreams area	
	Inclination	$L_1 \qquad L_2 \qquad L_3 \qquad X_3 > t_4$
	Vertical distance to streams	
Distance to surface water	Vertical distance to streams	
	Horizontal distance to streams	
	Lake, stream, and coast classification	
Precipitation	Precipitation	
Land use	Degree of impervious areas	
	Land use	The And AND A VIII stand
Coordinates	Coordinates (utmx)	
	Coordinates (utmy)	



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