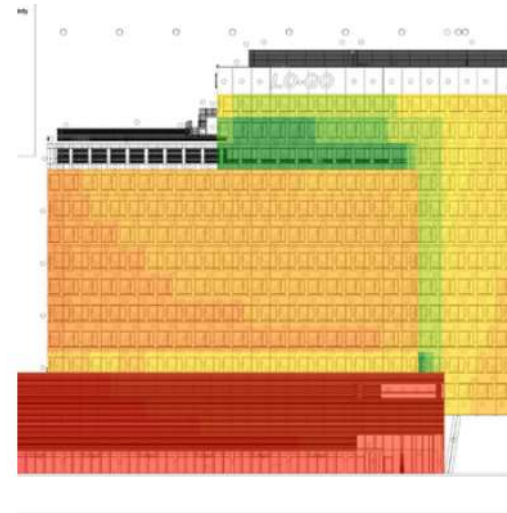
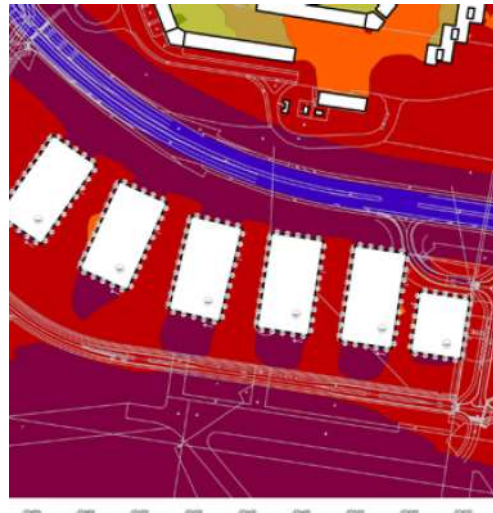




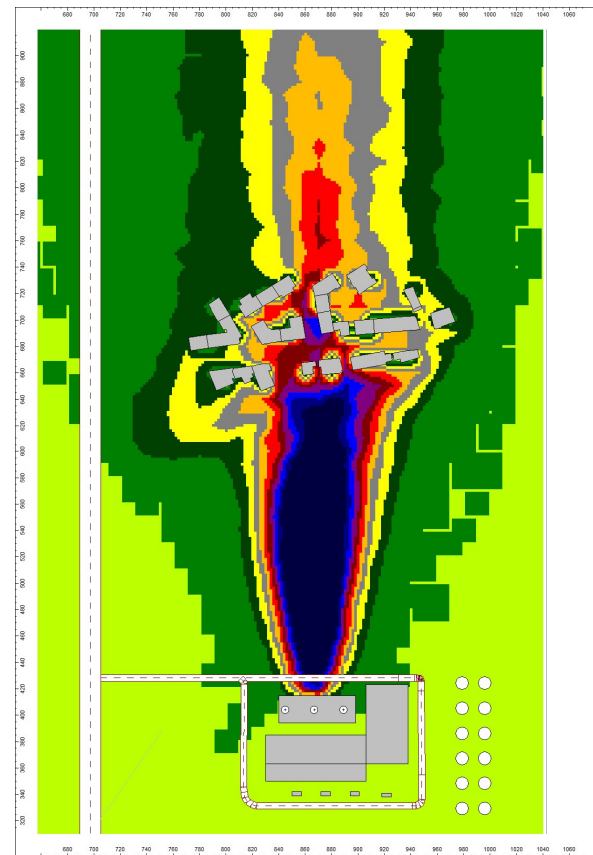
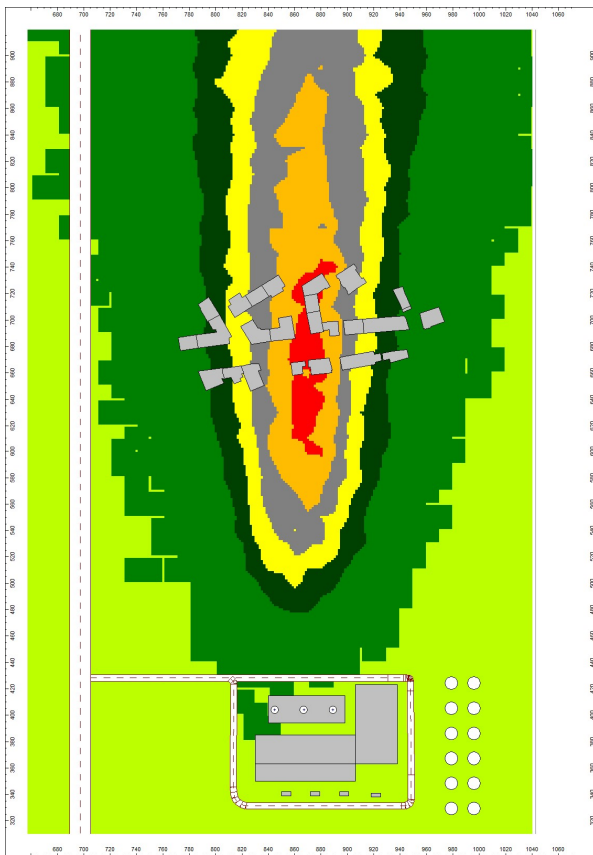
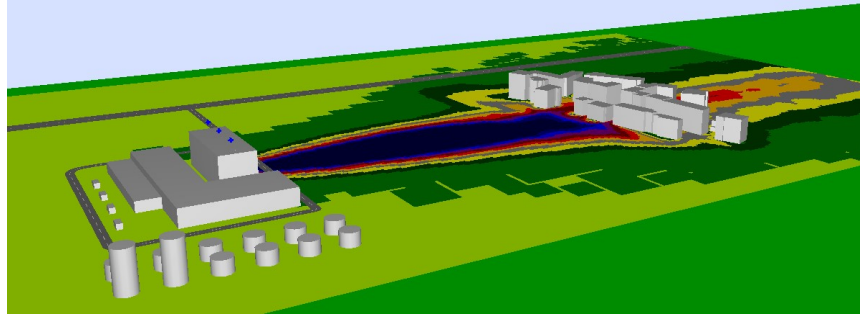
# Windfield Visualization

Jaroslav Hruškovič

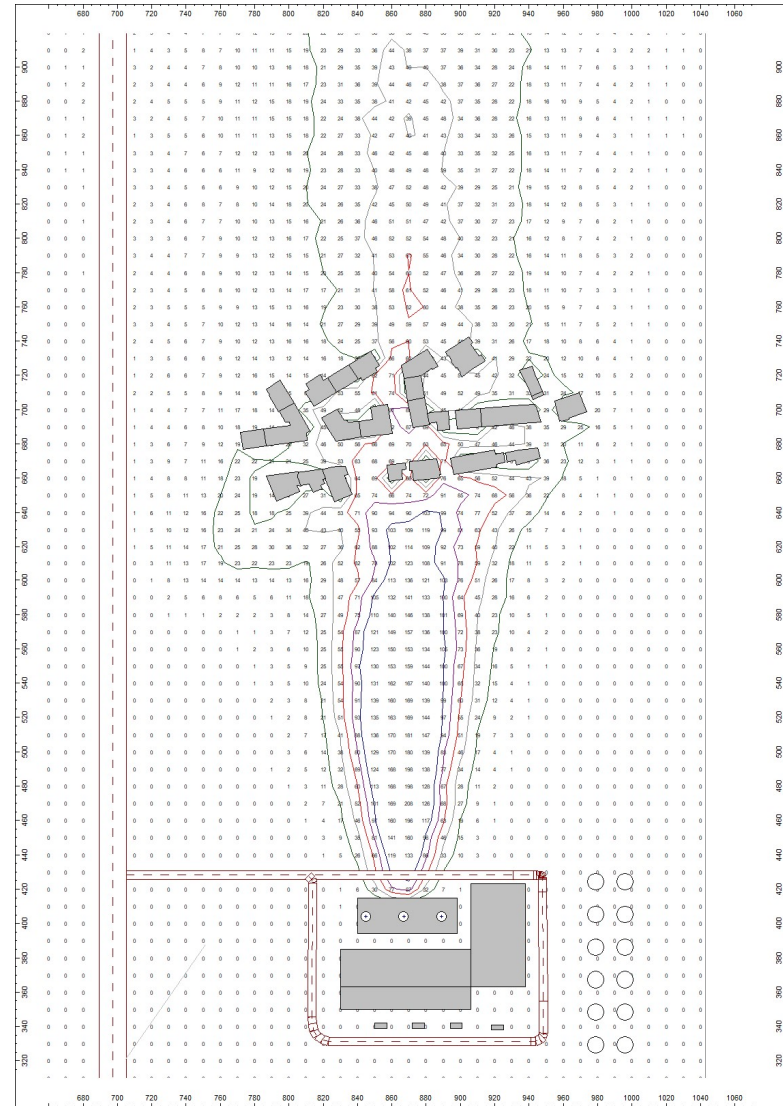
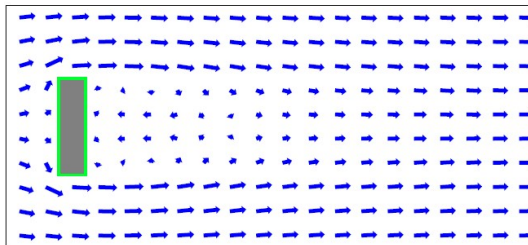
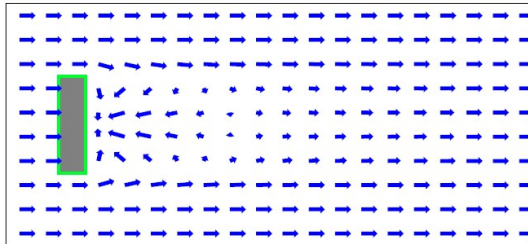
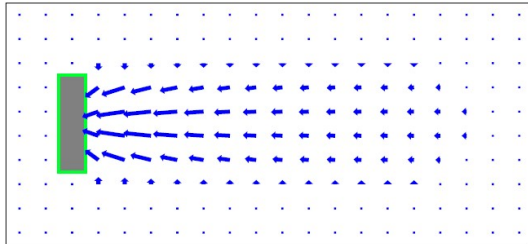
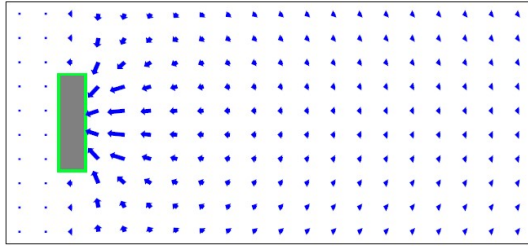
- Noise
- Vibrations
- Air pollution
- Insolation
- Urban climate



# Air pollution



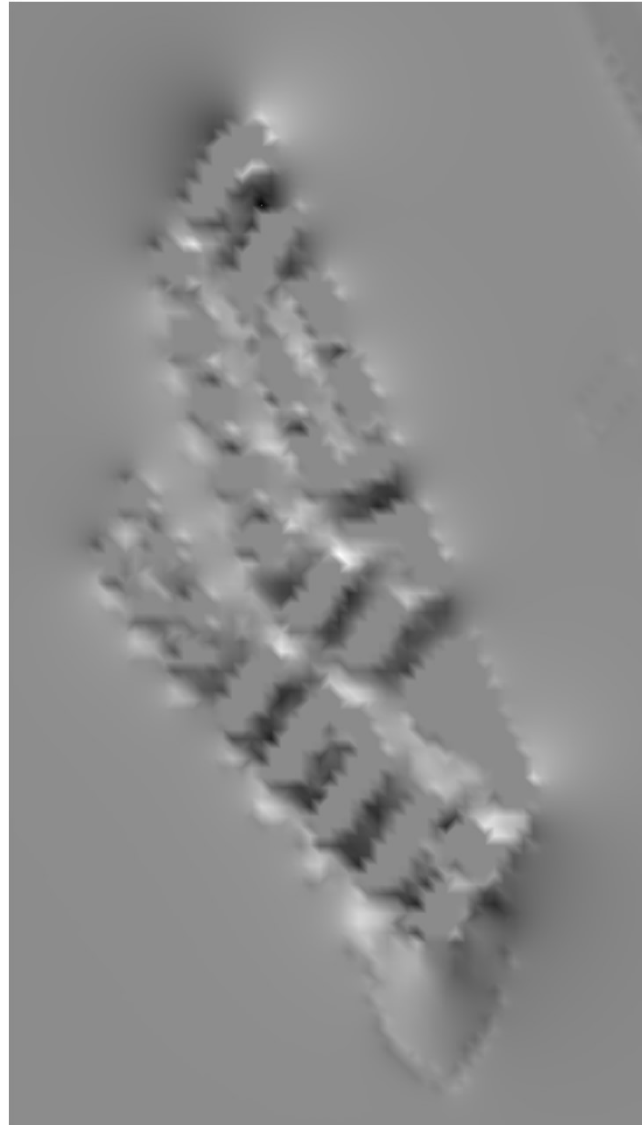
# Calculation

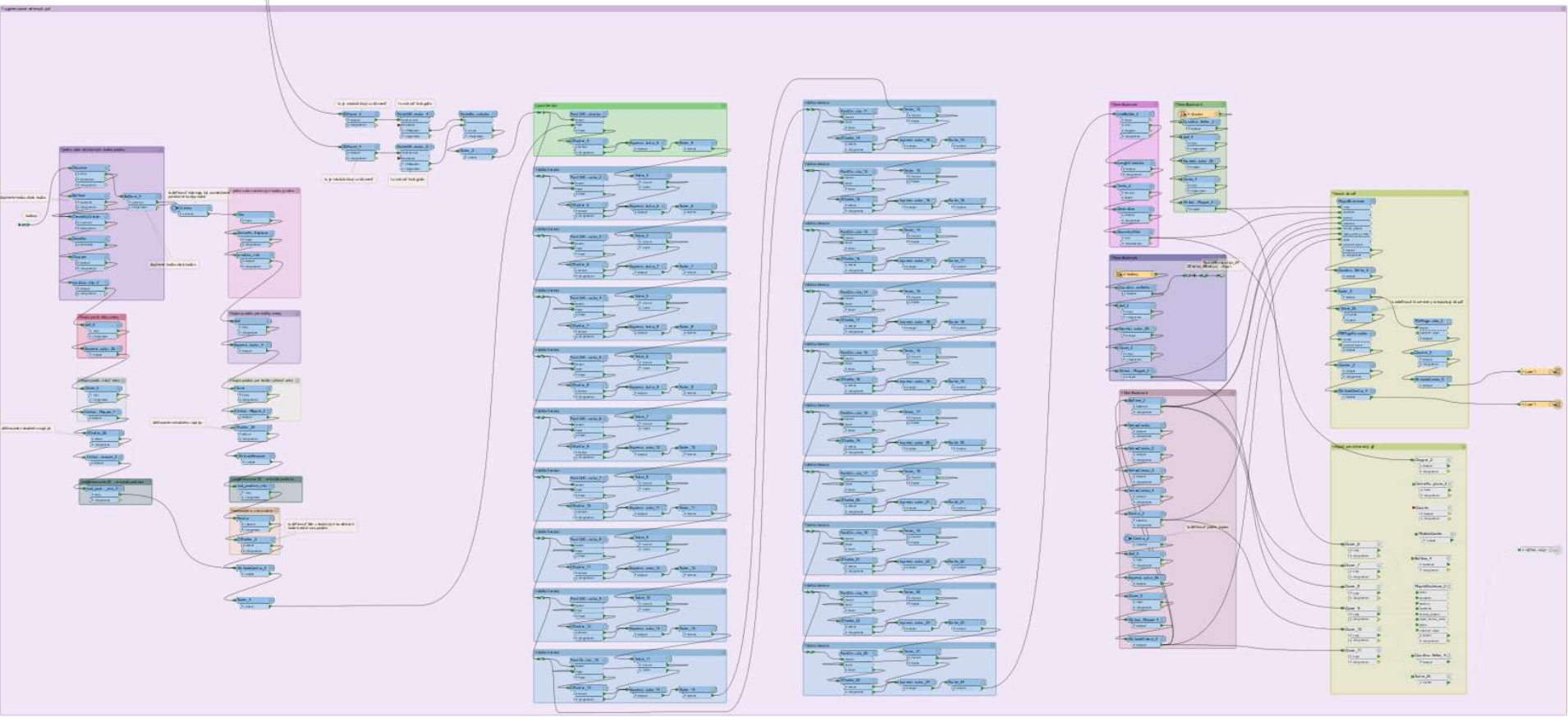
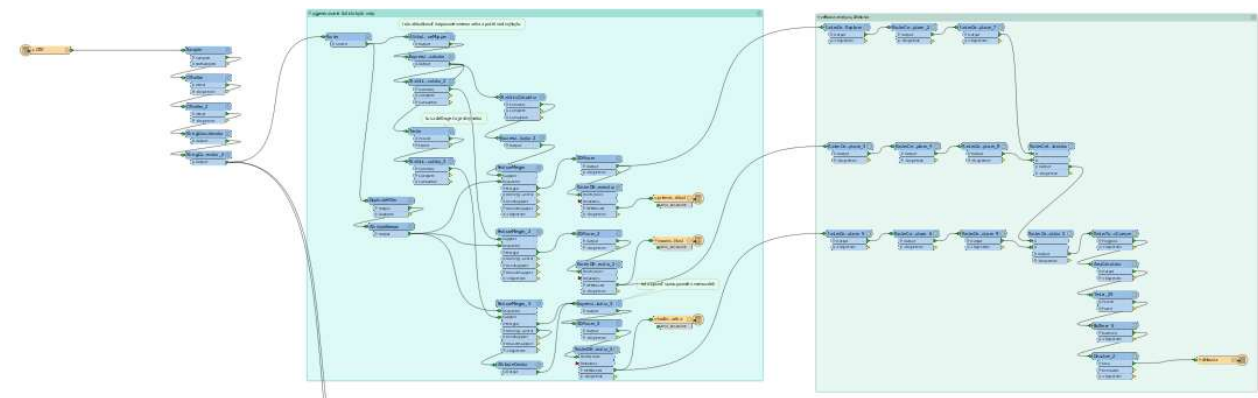




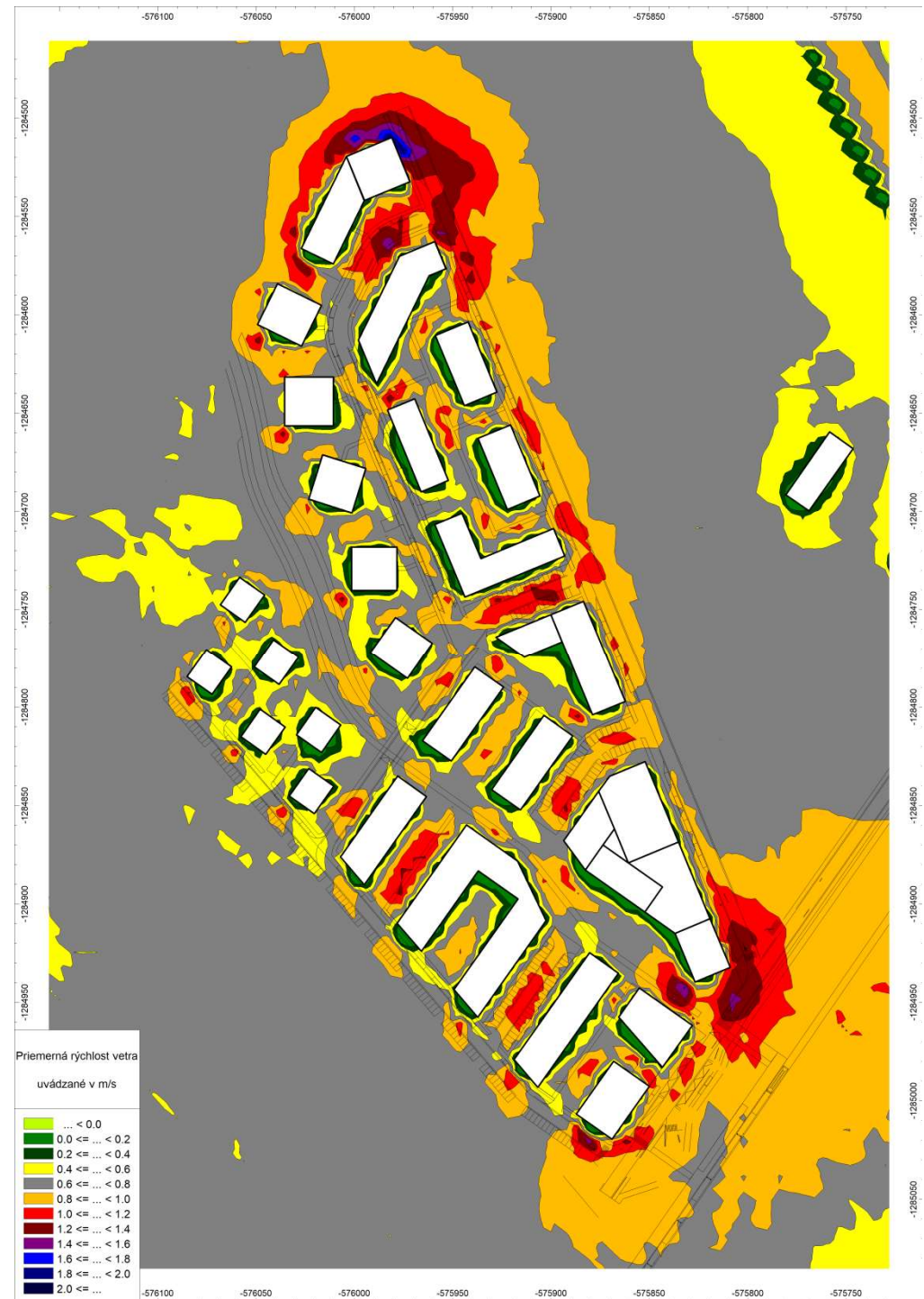
# Windfield

x	y	uref	dref	vx	vy	v
6	6	20	10	-0.0561478	-0.334775	0.339451
6	12	20	10	-0.0561472	-0.334775	0.339451
6	18	20	10	-0.0561465	-0.334775	0.339451
6	24	20	10	-0.0561459	-0.334775	0.339451
6	30	20	10	-0.0561452	-0.334775	0.339451
6	36	20	10	-0.0561447	-0.334775	0.339451
6	42	20	10	-0.0561439	-0.334775	0.33945
6	48	20	10	-0.0561434	-0.334775	0.33945
6	54	20	10	-0.0561425	-0.334775	0.33945
6	60	20	10	-0.056142	-0.334775	0.33945
6	66	20	10	-0.0561411	-0.334775	0.33945
6	72	20	10	-0.0561406	-0.334775	0.33945
6	78	20	10	-0.0561396	-0.334775	0.33945
6	84	20	10	-0.0561391	-0.334775	0.33945
6	90	20	10	-0.056138	-0.334775	0.339449
6	96	20	10	-0.0561375	-0.334775	0.339449
6	102	20	10	-0.0561363	-0.334775	0.339449
6	108	20	10	-0.0561359	-0.334775	0.339449
6	114	20	10	-0.0561344	-0.334775	0.339449
6	120	20	10	-0.056134	-0.334775	0.339449
6	126	20	10	-0.0561325	-0.334775	0.339448
6	132	20	10	-0.0561321	-0.334775	0.339448
6	138	20	10	-0.0561304	-0.334775	0.339448
6	144	20	10	-0.05613	-0.334775	0.339448
6	150	20	10	-0.0561281	-0.334775	0.339447
6	156	20	10	-0.0561277	-0.334775	0.339448
6	162	20	10	-0.0561257	-0.334775	0.339447
6	168	20	10	-0.0561253	-0.334775	0.339447
6	174	20	10	-0.0561231	-0.334775	0.339446
6	180	20	10	-0.0561226	-0.334775	0.339447
6	186	20	10	-0.0561203	-0.334775	0.339446
6	192	20	10	-0.0561198	-0.334775	0.339446
6	198	20	10	-0.0561172	-0.334774	0.339445
6	204	20	10	-0.0561167	-0.334775	0.339446
6	210	20	10	-0.0561139	-0.334774	0.339445
6	216	20	10	-0.0561134	-0.334775	0.339445
6	222	20	10	-0.0561104	-0.334774	0.339444
6	228	20	10	-0.0561099	-0.334775	0.339445
6	234	20	10	-0.0561067	-0.334774	0.339443
6	240	20	10	-0.0561061	-0.334775	0.339444
6	246	20	10	-0.0561026	-0.334774	0.339443
6	252	20	10	-0.056102	-0.334775	0.339443
6	258	20	10	-0.0560983	-0.334774	0.339442



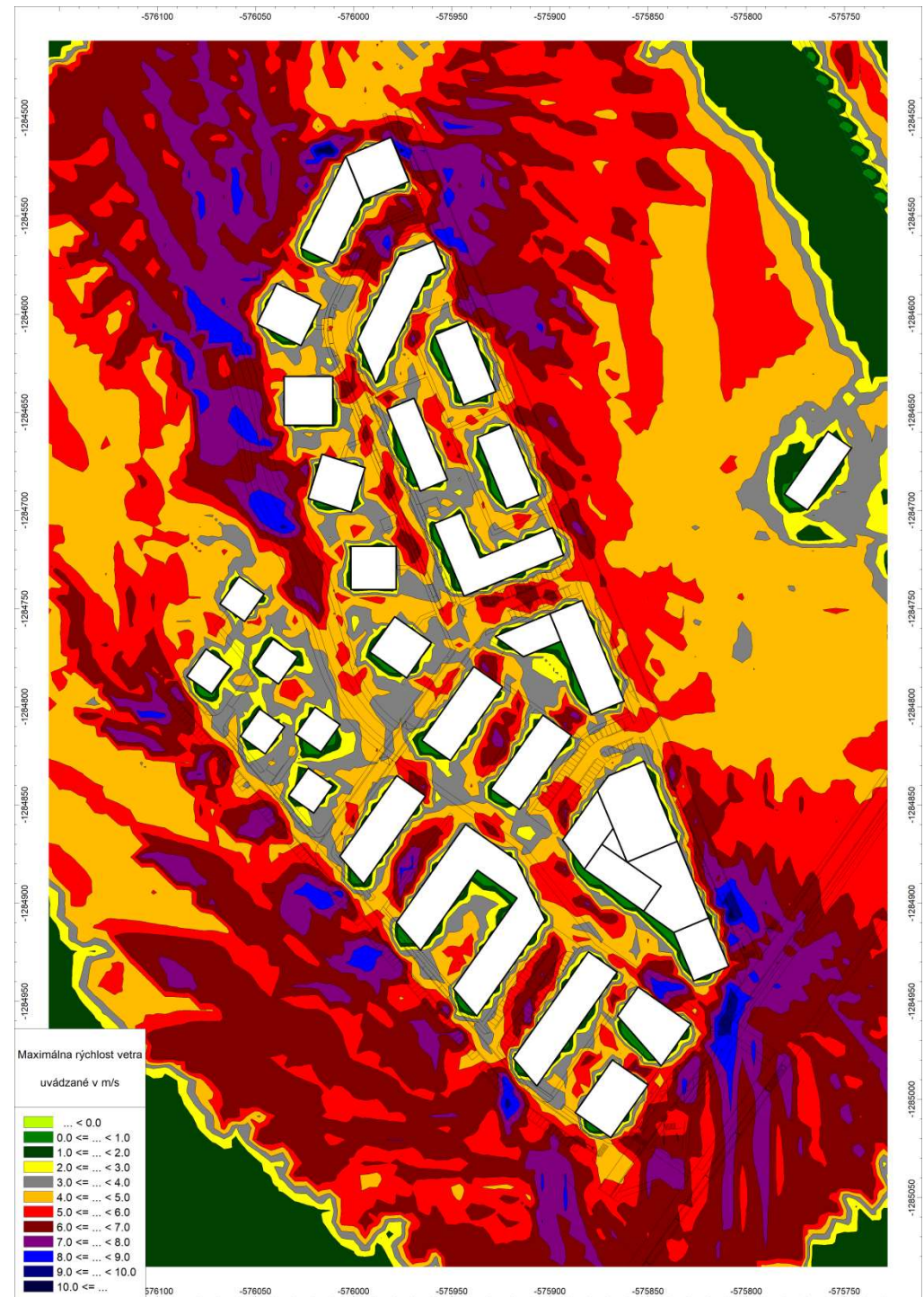


- Year Average windspeed
- Limit  $>1\text{m/s}$



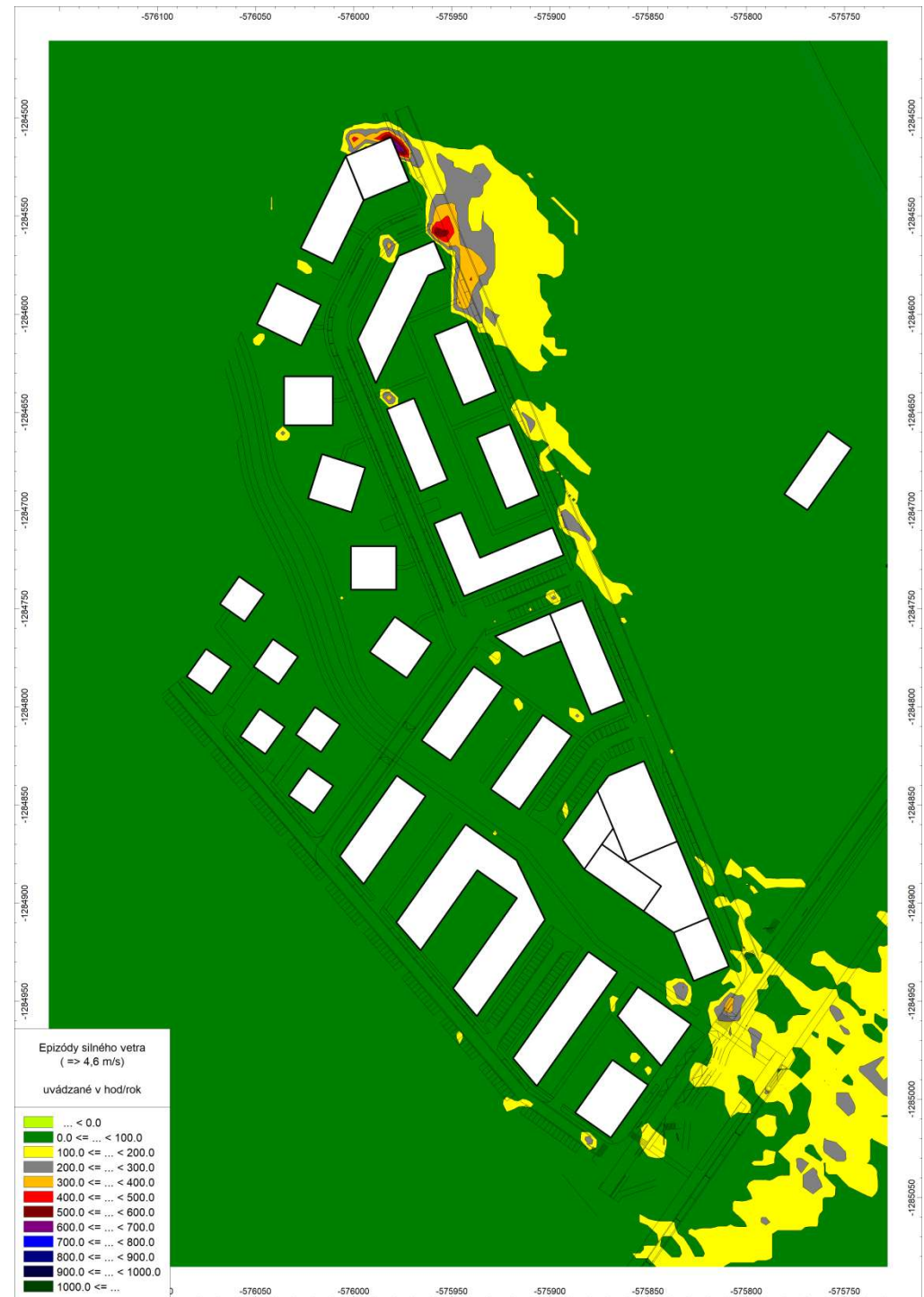


- Maximum windspeed
- Limit  $>10\text{m/s}$

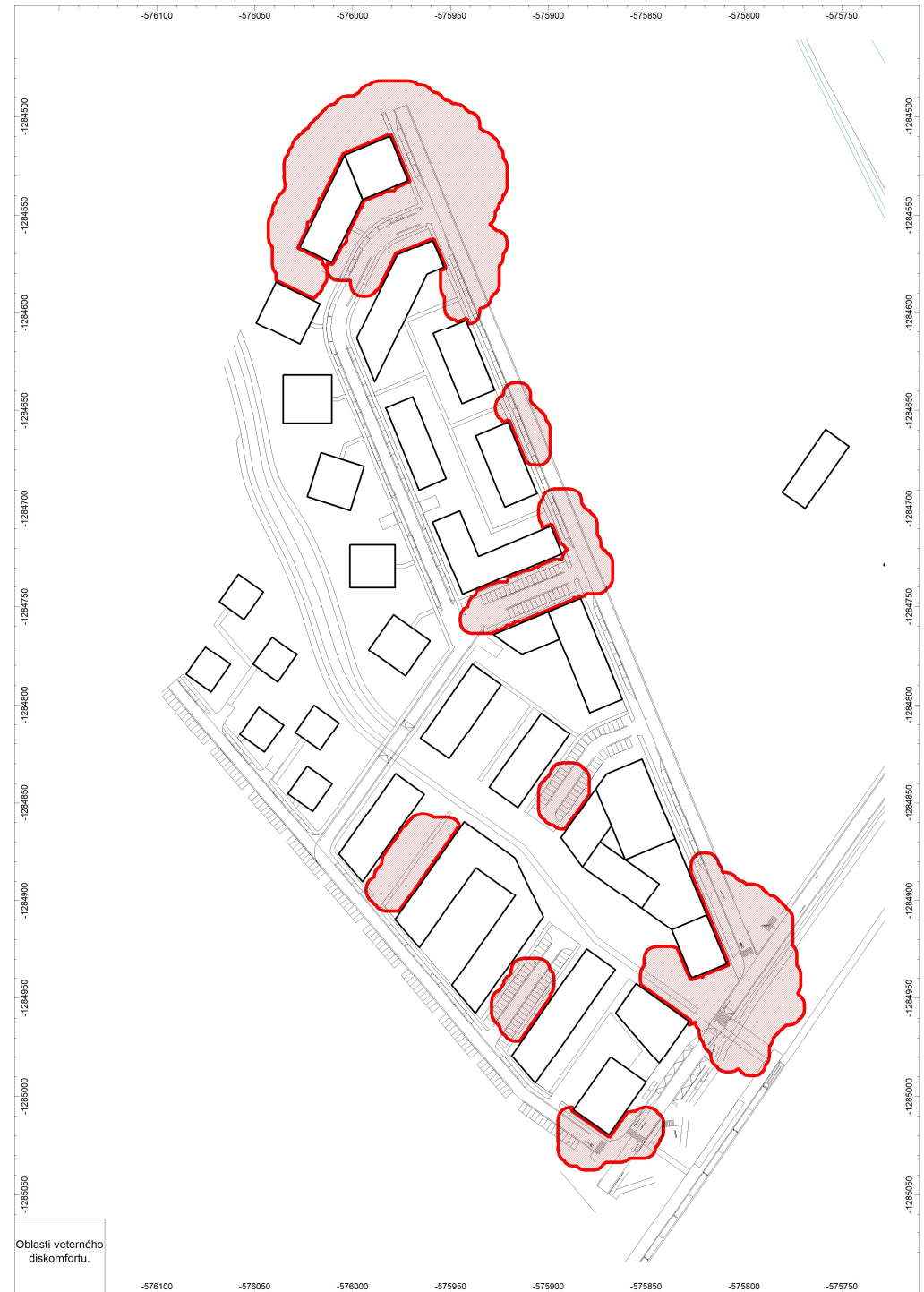




- Annual hours of strong wind
- Limit  $>300$



- Result: zones of discomfort

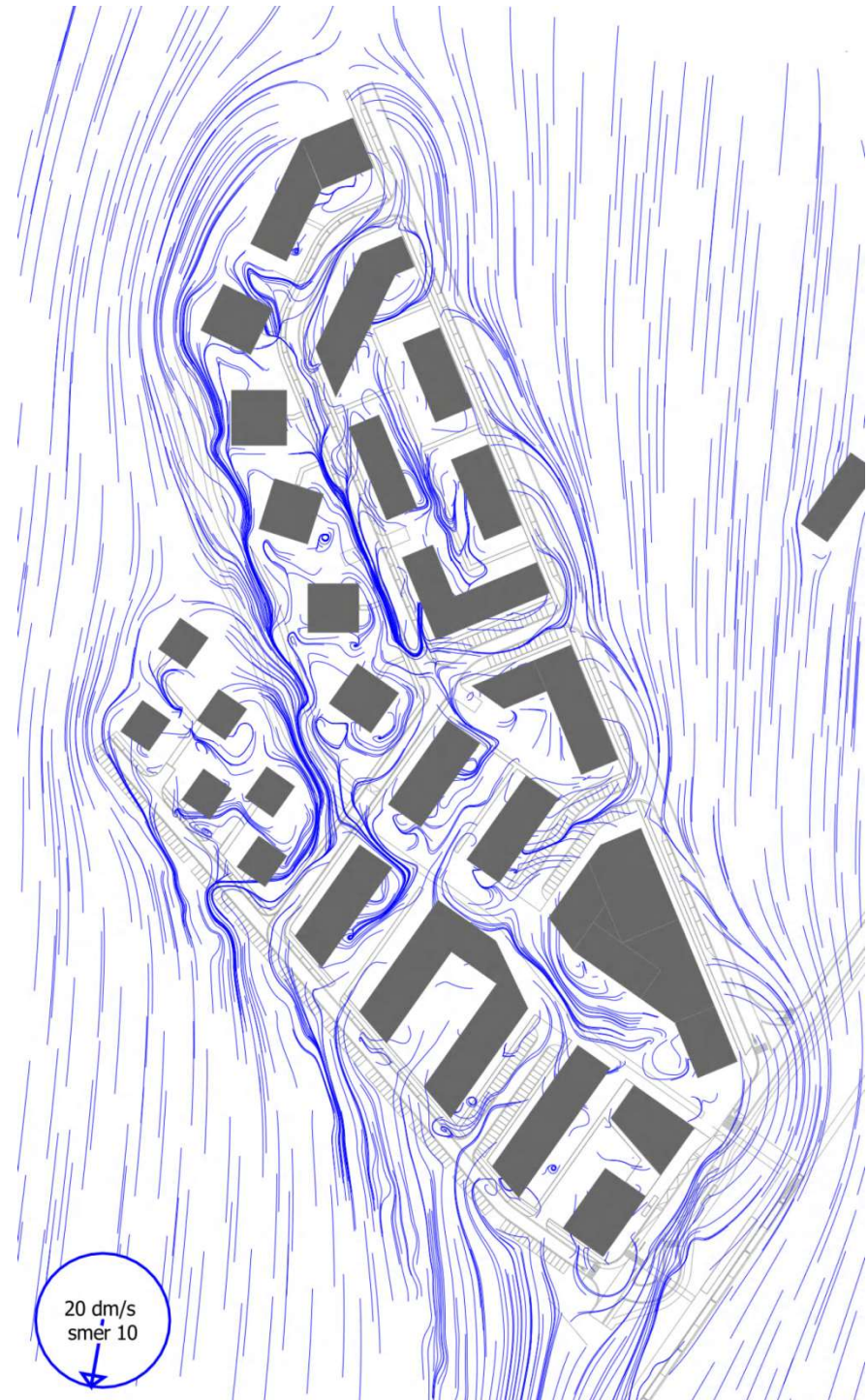


- Additional results:  
streamlines





- Additional results:  
streamlines





- Additional results:  
streamlines

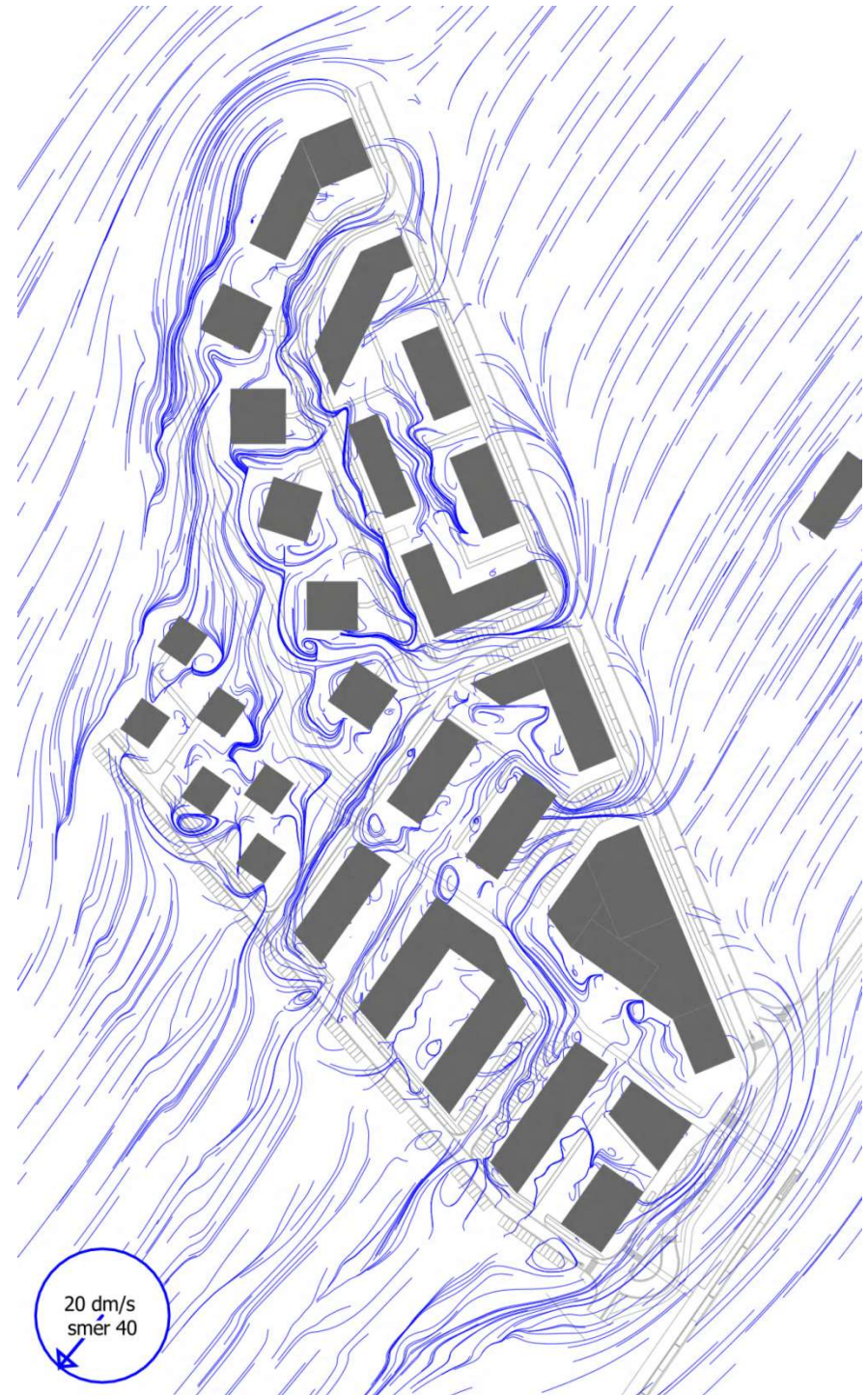


- Additional results:  
streamlines





- Additional results:  
streamlines

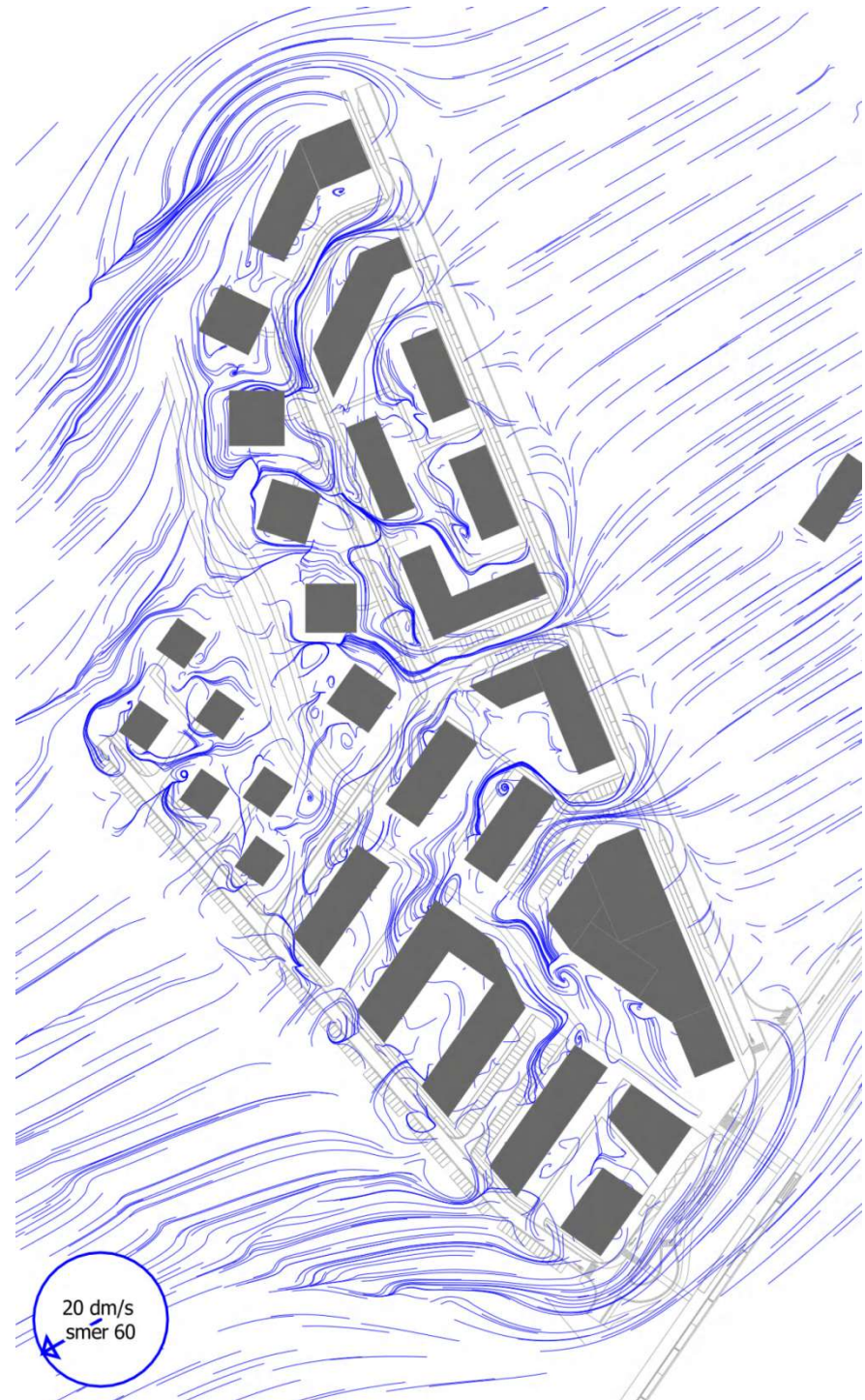


- Additional results:  
streamlines

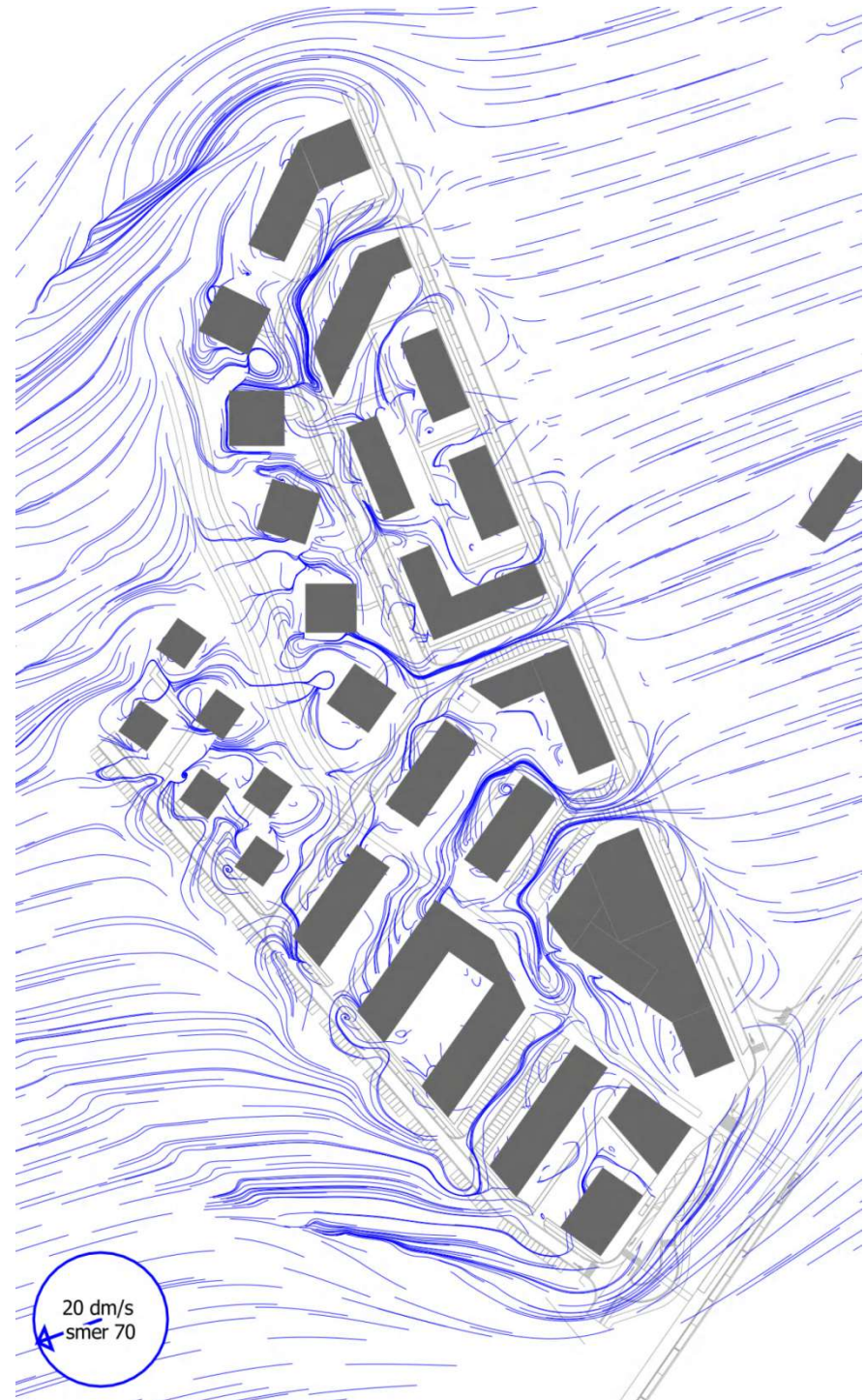




- Additional results:  
streamlines



- Additional results:  
streamlines





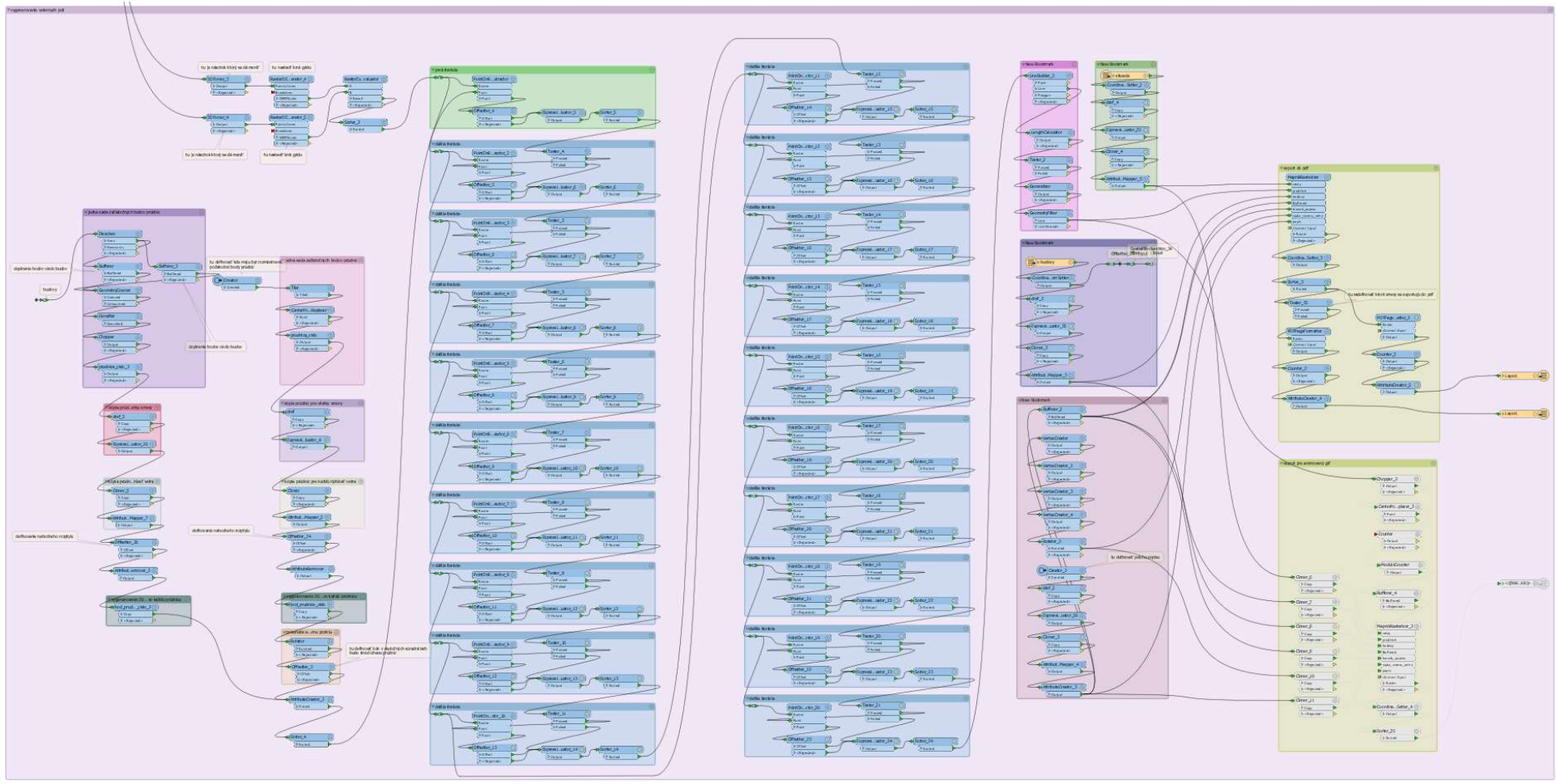
- Additional results:  
streamlines

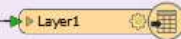
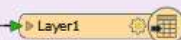
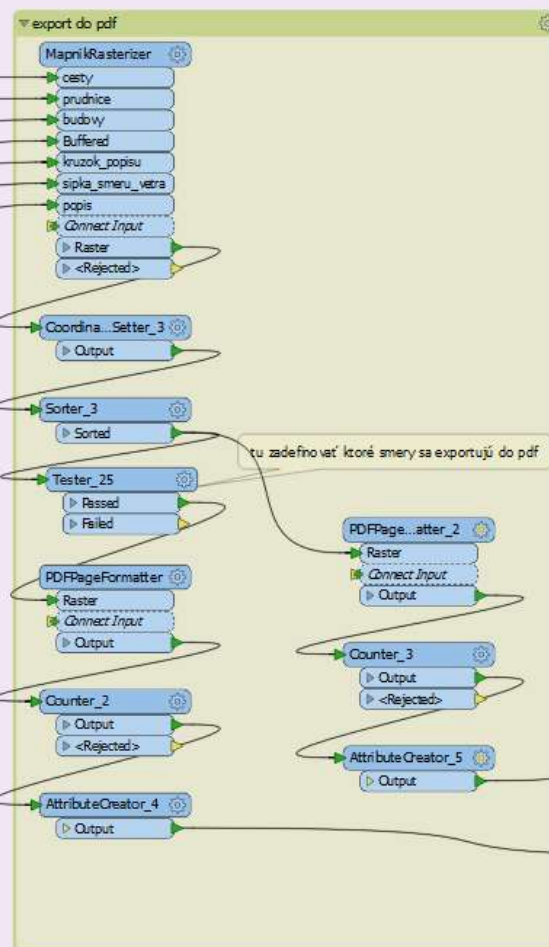
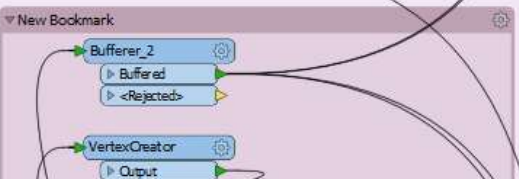
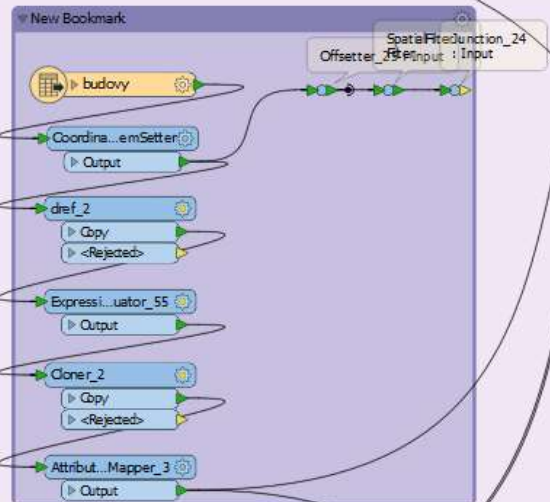
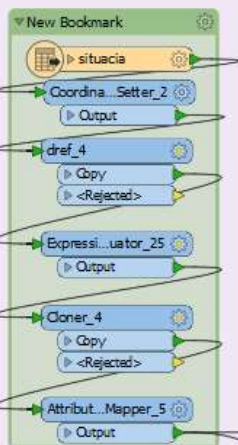
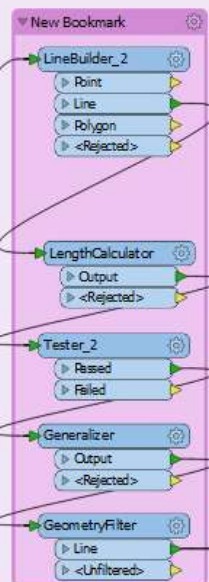


- Additional results:  
streamlines



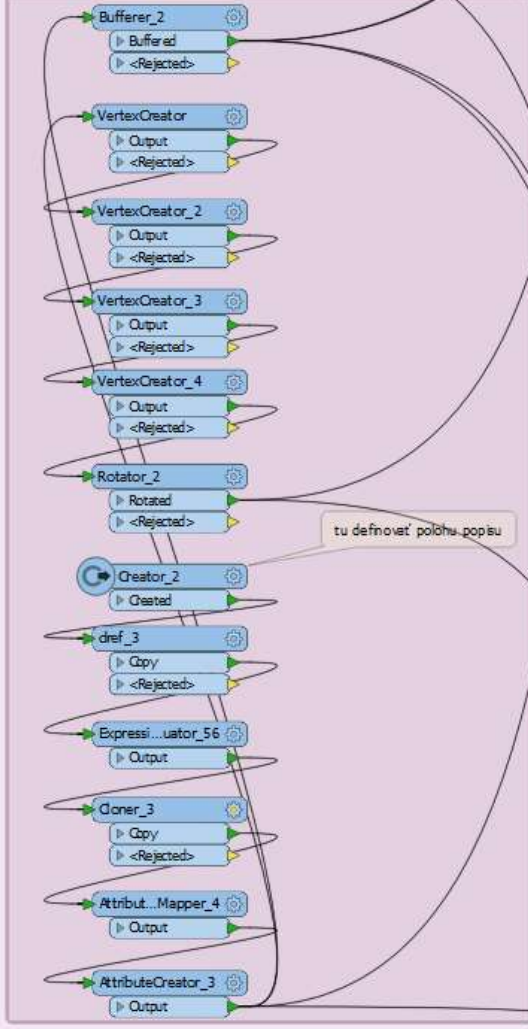






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