

Dataset generation:

The logistics estates generated in the first data set are aggregated in a 1 km² grid (provided by BKG n.d.). In total, logistics areas can be identified in 1,623 of 12,773 grid cells. The other variables are now calculated for the respective grid instead of for the individual estate.

Column description:

Variable description	Abbreviation	Aggregation of variable/ starting point	Data source
Area [ha] of logistics land identified in grid cell	log_land_raster	Sum of grid cell	Own calculation
Population density (inh./km ²)	pop_dens	Population density on municipality level	BKG 2023
Driving distance [km] to next high-order center	dist_hoc	Centroid of grid cell	Leerkamp et al. (2022)
Driving distance [km] to next inland terminal	dist_terminal	Centroid of grid cell	Leerkamp et al. (2022)
Driving distance [km] to next motorway/trunk access	dist_motorway	Centroid of grid cell	Leerkamp et al. (2022)
Driving distance [km] to next high-order center	dist_hoc	Centroid of grid cell	Own calculation based on Bezirksregierung Köln (2021)
Local business tax	local_tax	Municipal level (assignment of grid cell based on centroid)	Destatis (2022)
Existing area [ha] of industrial/commercial land in 2021	land_ind_raster	Sum of industrial/commercial land area in grid cell	Own calculation based on Geobasis NRW (2020)
Employment in NACE-category 49.4 (freight transport by road and removal services) on county level in 2019	494_emp_count_y	County level (assignment of grid cell based on centroid)	IT.NRW (2021)
Employment in NACE-category 52 (warehousing, storage and support activities for transportation) on county level in 2019	52_emp_county	County level (assignment of grid cell based on centroid)	IT.NRW (2021)
Employment in NACE-category 53 (Postal and courier activities) on county level in 2019	53_emp_county	County level (assignment of grid cell based on centroid)	IT.NRW (2021)
Establishments in NACE-category 49.4 (freight transport by road and removal services) on municipal level in 2019	494_est_mun	Municipal level (assignment of grid cell based on centroid)	IT.NRW (2021)
Establishments in NACE-category 52 (warehousing, storage and support activities for transportation) on municipal level in 2019	52_est_mun	Municipal level (assignment of grid cell based on centroid)	IT.NRW (2021)
Establishments in NACE-category 53 (Postal and courier activities) on municipal level in 2019	53_est_mun	Municipal level (assignment of grid cell based on centroid)	IT.NRW (2021)
Employees occupied in warehousing, mail and delivery, cargo handling (all NACE-categories) on county level in 2020	wmc_emp_county	County level (assignment of grid cell based on centroid)	BA (2021)

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