





Street Level - The Number of Stations in the Streets Directional Distribution - Full Diffusion with around the Outer Ring has Increased Significantly

ompared with 2018, the number of Cainiao courier stations in the towns and cities around the Outer Ring Highway in 2022 increased significantly, with the most significant increases in Dachang Town in Baoshan District and Xinzhuang Town in Minhang District.



Spatial Autocorrelation Analysis - Suburban Gathering

ne some streets in Baoshan District, Jiading District, Songjiang D treets close to the administrative boundary of Shanghai.



Reduced Directionality

Compared with 2018, the service scope of Shanghai's Cainiao courier stations was expanded and the directionality was weakened in 2022; the center of the distribution was located near Hongqiao Street, and the clustering area was roughly distributed in the northeast-southwest.

urier stations in both 2018 and 2022 was characterized by significant clustering. Compared with 2018, the clustering was enhanced in 2022, with high-value clusters forming iading District, Songjiang District and Minhang District around the Outer Ring Highway; low-value clusters mainly appeared in the city center, Huangpu District, and in some



R² = 0.78







Meso scale - Identifying External Influences that are "Fit for Station"

Hypothesis: at the meso-scale, the distribution of Cainiao courier station configuration was related to the external environment with some regularity.

Hypothesis: at the micro-scale, the siting of courier stations was changing towards a more optimal direction.

What micro-environmental features around the courier stations changed as it 'lived' and 'died'?







2018 courier stations 500m buffer zones



2022 courier stations 500m buffer zones





Number of

Number of Number of companies 2018: 5.65 2022: 5.08

Function: Away from companies and businesses and

Space: Relocation to areas with high concentration of

of youth 2018: **1663** 2022: 0.0088 2022: **1967**

Population of middle-aged people of elderly 2018: 5787 2022 7480

🔶 Populatior 2018: 4653 2022: 616



Number of surrounding amenities

towards residential areas

amenities and bus stops



Number of surrounding bus stops - Bus Stops Synergies



Micro-layout Effectiveness Poor synergy Excellent synergy

Average synergy

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Data Source:

- 2018 Cainiao courier stations data: Peking University Open Data Platform | Gaode POI
 2022 Cainiao courier stations data: self-collected during the workshop| Gaode POI
- Housing price data: Chain Home website in November 2021
- Population data: provided by the workshop Amenities data: provided by the workshop