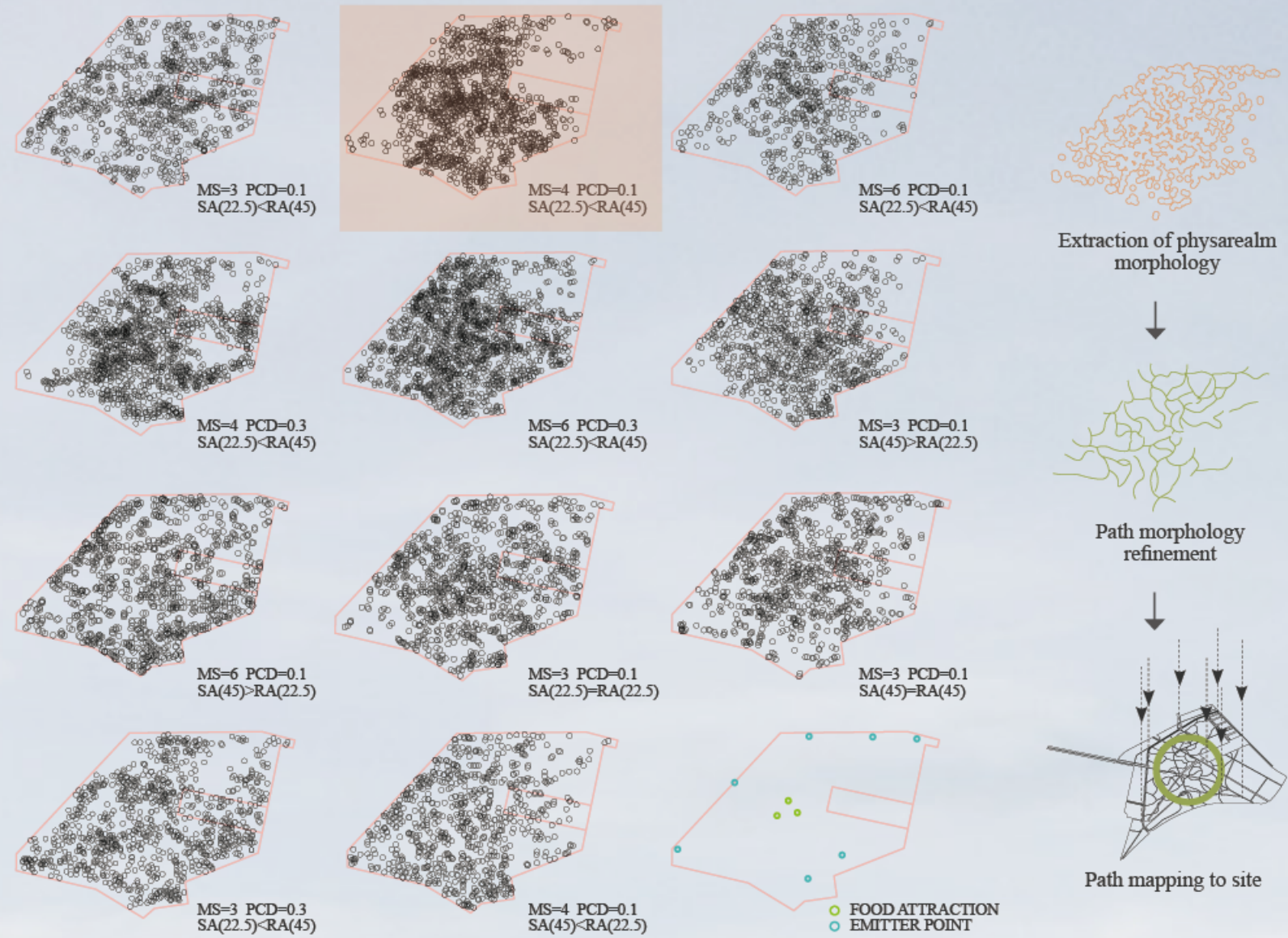


ROAD SYSTEM OPTIMIZATION DEDUCTION BASED ON PHYSAREALM ALGORITHM

The overall road value is based on the Physarealm slime mold algorithm to achieve autonomy. In the value, set the central vertical agricultural building and the main entrance and exit of the site as the food attraction point (Food attraction) and the launch point (Emitter Point) respectively, and use the life dispersion time of 30s to collect and simulate the shape of the flow of people activities on the site block. .

Food attraction(FA)=7		Max speed(MS)=3、4、6	
QUANTIFICATION	Population of agents(P)=1500	VARIABLES	Possibility of changing direction(PCD)=0.1、0.3
	Time(T)=30s		Sensor setting(SA&RA)=22.5、45

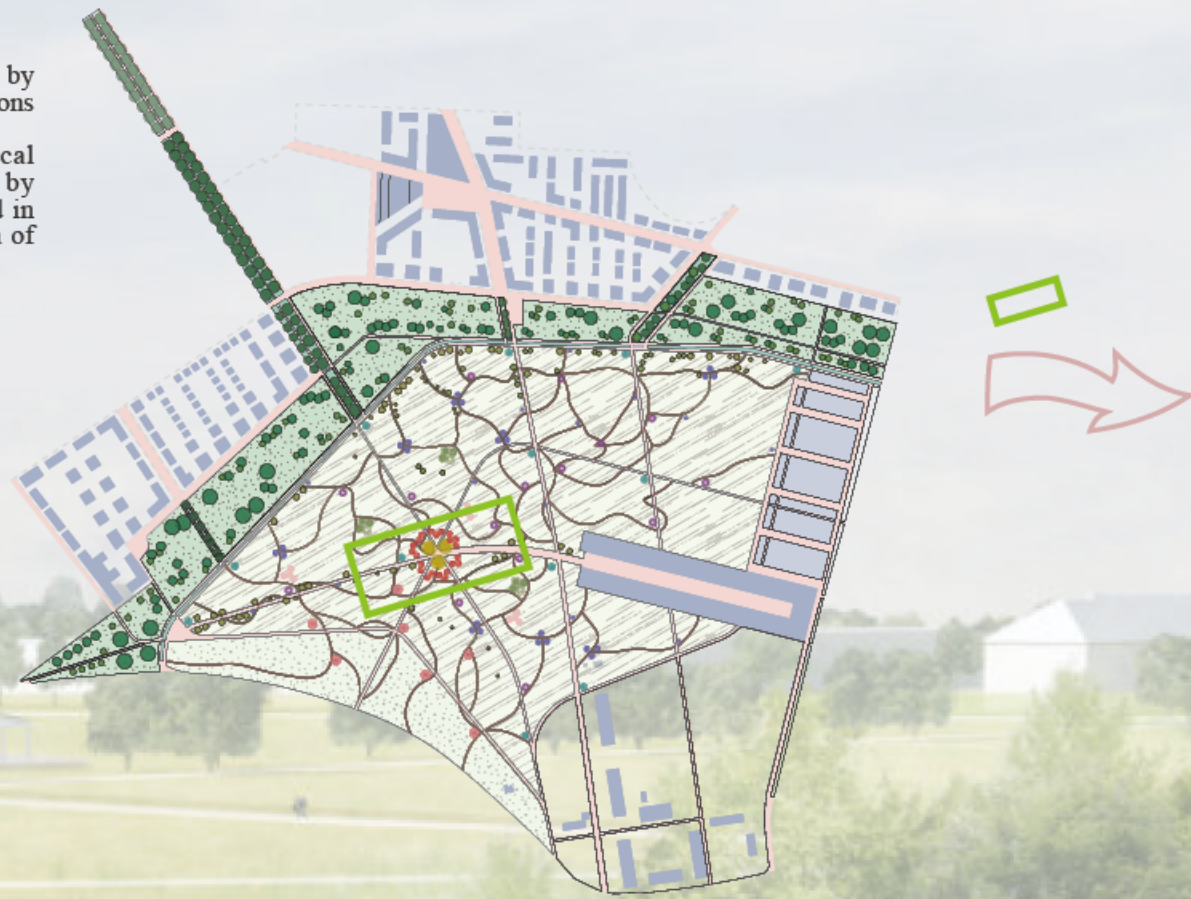


FUNCTION POINT LAYOUT

The unit body is divided into eight types of units by the type of activity to distribute at the node positions of the tertiary road.
In addition to functionally satisfying the local residents, the various units are surrounded by origami in form, and solar panels are arranged in part of the origami area to realize the function of energy conversion.

Legends

- 1.Vertical farm
- 2.scenery platform
- 3.Biological protection platform
- 4.Bicycle station
- 5.Rest station
- 6.Children's entertainment
- 7.lecture center
- 8.Product interaction
- 9.original buildings



STRUCTURAL SCENES



AERIAL VIEW (PART)



The space is assembled through modules according to the needs of the type of activities, and the foldable solar panels are used as the basic unit to attach to different modules to ensure certain solar energy utilization in the site.
The foldable solar panels are distributed in different parts of the building according to the foldability of the 12 deformation, so that the overall module can exist across urban and residential modules.