This project comprises one facet of a cooperative research study, the Food Urbanism Initiative, which addresses the potential for productive urban landscape to play a generative role in the densification of the contemporary city, in Switzerland and elsewhere. The aspect of the project specifically presented here seeks to distill and synthesize design and logistical intelligence produced by partner teams into a computational workflow that automates the analysis of a complexly interrelated set of parameters to project scenarios for urban design that integrate increased residential density, professional and amateur agricultural land, and production space for secondary industries related to agriculture.

Because the partner teams are continually refining or producing new information in parallel with the development of this design engine, adaptability and flexibility are essential to the definition of the project.

Finally, generative urban modeling activates this information through the interrelationships of spatial and programmatic requirements of urbanity.
This project is one facet of a cooperative research study, the Food Urbanism Initiative (FUI), addressing the potential of parameters—to project scenarios for urban design which integrate increased residential density, professional and amateur production space for secondary industries related to agriculture.

PROJECT SUMMARY:

GEOGRAPHIC INFORMATION

• new urban typologies

SURVEY

• popular surveys

BUILT ENVIRONMENT

• demographic data

INFORMATION

• geographic information

DATA

• solar exposure

CRITICAL CARTOGRAPHY

• transit

FOOD URBANISM SCENARIO MODELING

• existing urban initiatives

DM

• public green space

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