

## Datasets



Market locations



Tomato production



Production seasonality



Population



Income per capita



Tuta incidence



Temperature



Market prices



Google Distance Matrix API

Market scope (Voronoi regions)

Market nodes with attributes

## Network Construction

Pairwise distances/  
travel time



Market network

Gravity model

Seasonal flow network

Projected flow network

Structural analyses

Dynamic message passing (SI model)

Origin inference

## Spread Dynamics

Pest risk forecast

Economic impact analysis

## Impact Analysis

Ecoclimatic Indices (EI)

## Establishment Potential using CLIMEX

## Analyses/Validation