

#### Planning for the food value chain in Kenya



Remco Rolvink



**RVO** 







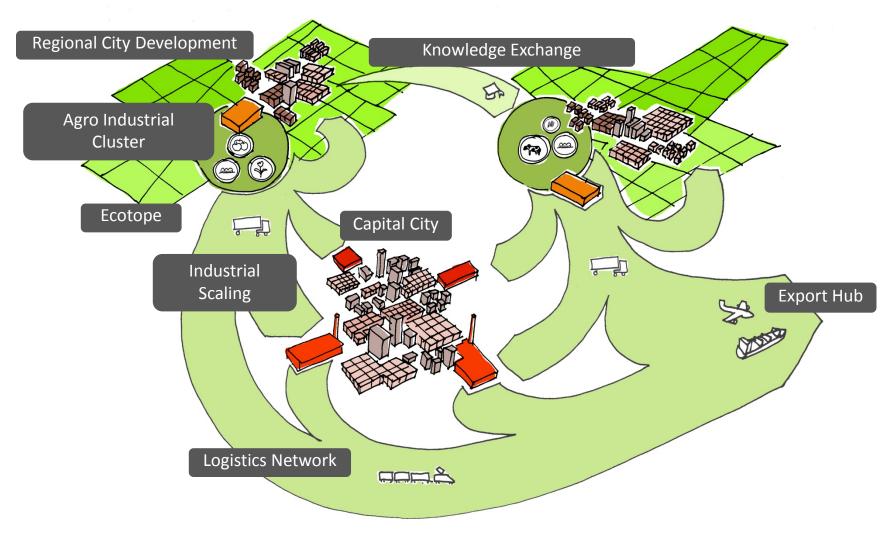


#### WHY RAIN

- Planning is a critical issue with current rapid urbanization
  - Traditional farming under pressure by sprawl
  - Insufficient infrastructure and facilities
- Not fully using agricultural potentials

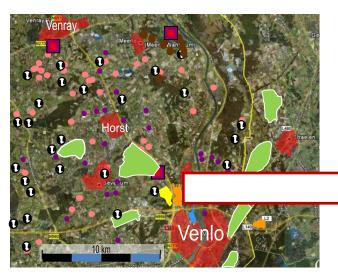
Need for a <u>strengthened urban-rural</u>
 relationship <u>to enhance economy and liveability</u>

# **RAIN CONCEPT**



An Intelligent Network

#### RAIN PROJECT EXAMPLE



- Greenhouse Area
- Consolidation Centre
- (Sub)urban Area
- Isolated Greenhouses
- Large Scale Pig Farm
- Large Scale Chicken Farm
- Large scale Dairy Farm
- Floriade Horticulture Expo
- Harbour
- Industrial Ecology



#### **Consolidation centre Freshpark Venlo**

- 130 ha
- 130 companies
- 1500 jobs / 3000 in the season
- 3th largest logistic area of Holland
- Result of 10-15 years of integrated planning and development

Symbiosis and Cooperation | Network Cluster Greenport Venlo

# DUTCH APPROACH WITH KENYAN PARTNERS

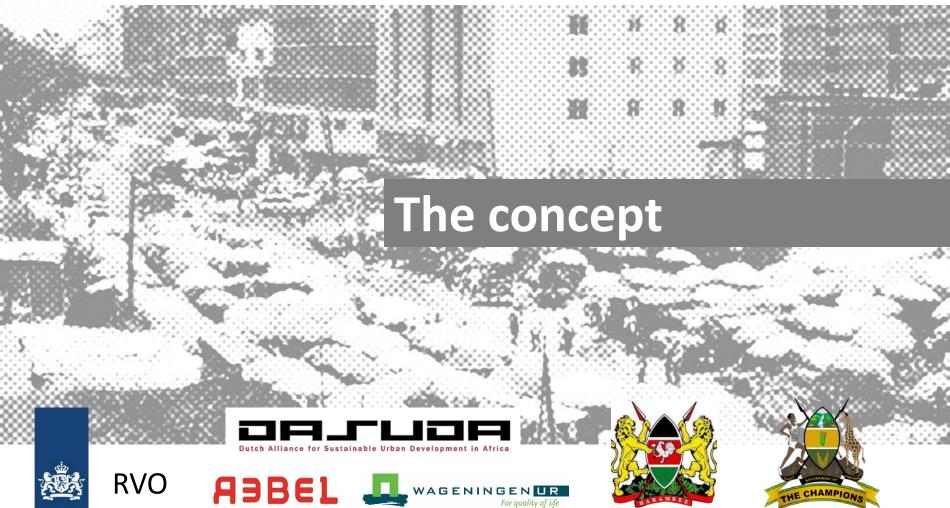


- Project and mutual process
- Link policies, planning and realization

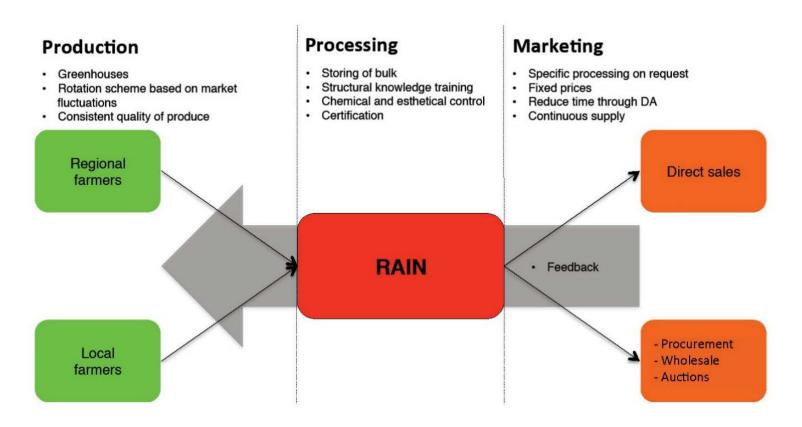


- Participatory process
  between Counties, Dutch
  team and businesses
- Integrating disciplines



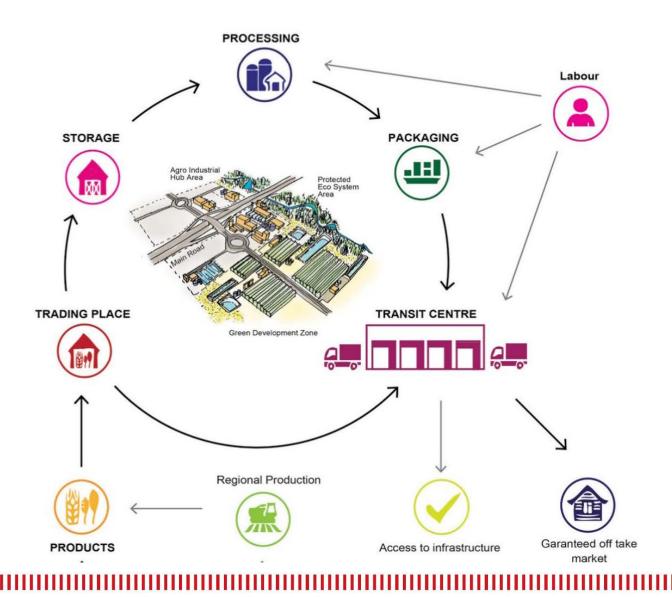


#### MISSING LINK IN SUPPLY CHAIN

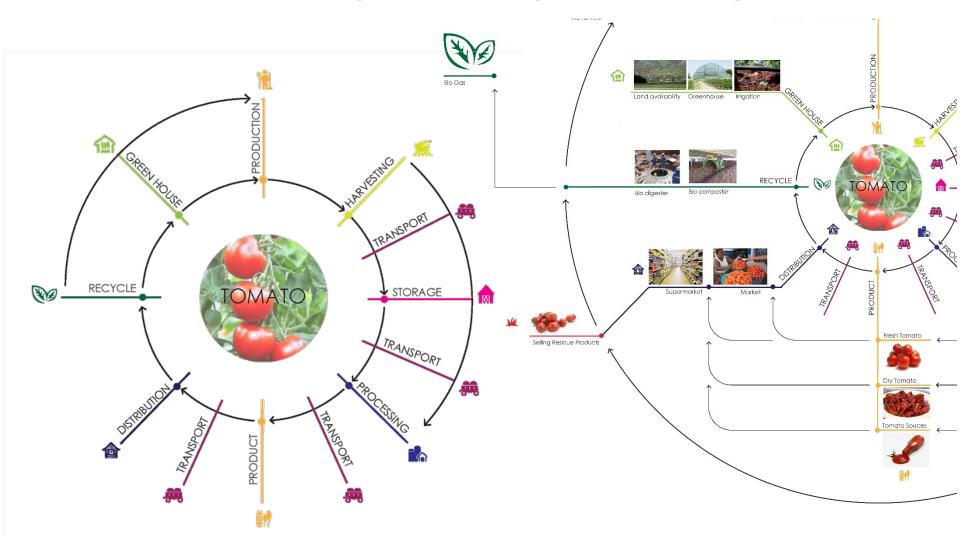


Proposed RAIN supply chain

### **CLUSTER OF AGRO BUSINESSES**



#### RELATED ACTIVITIES IN THE CHAIN



Tomato as indicator crop showcased her in the value chain approach

#### **IDENTITY AND ROLES**

Agro industrial cluster can function as a <u>transit</u>
 <u>hub</u>, <u>processing and packaging facility</u>, <u>trading</u>

 <u>place</u> or <u>full greenport</u>

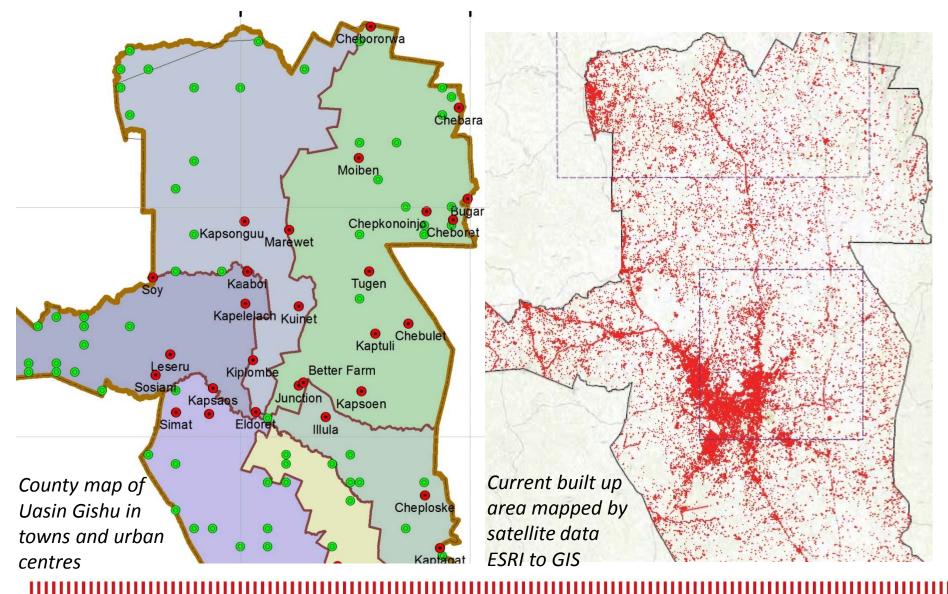
 A <u>business-driven network</u>: trade, retail, growers, etc. with interdepended demands

 A <u>facilitating role for local governments</u>: land availability, water, power and infrastructure

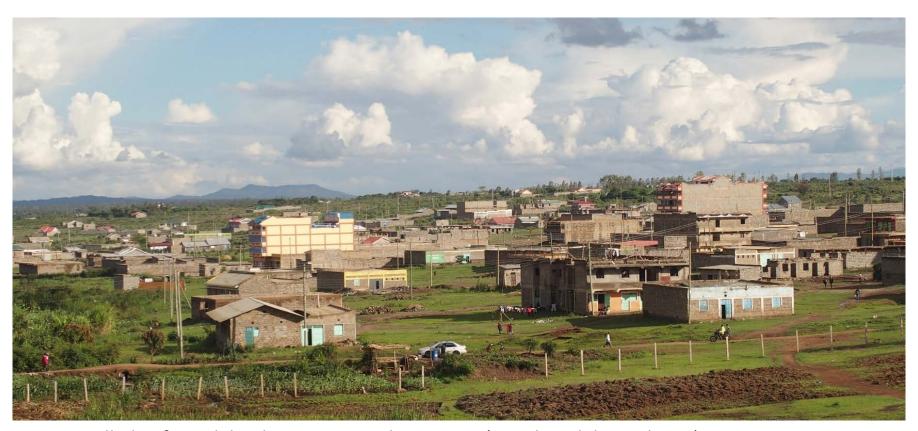




# **CURRENT IDEA OF CITIES**

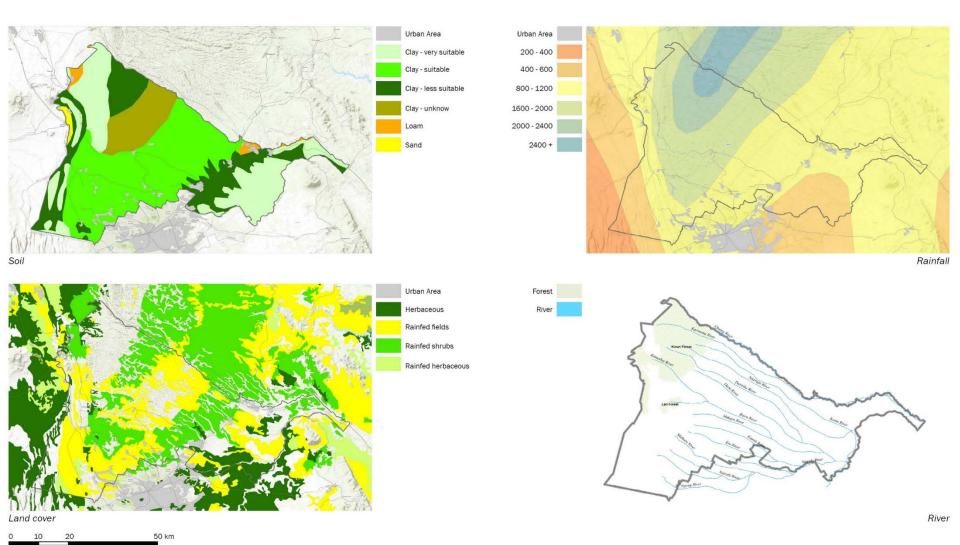


### **REAL URBANISATION SITUATION**



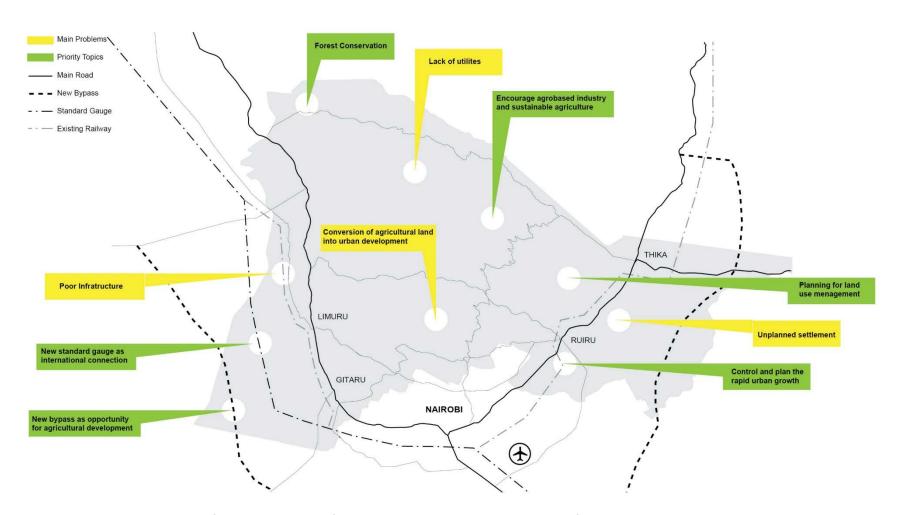
Uncontrolled, informal, land consuming urbanization (Kiambu, Thika Highway)

# **REGIONAL PLANNING ON BIG DATA**



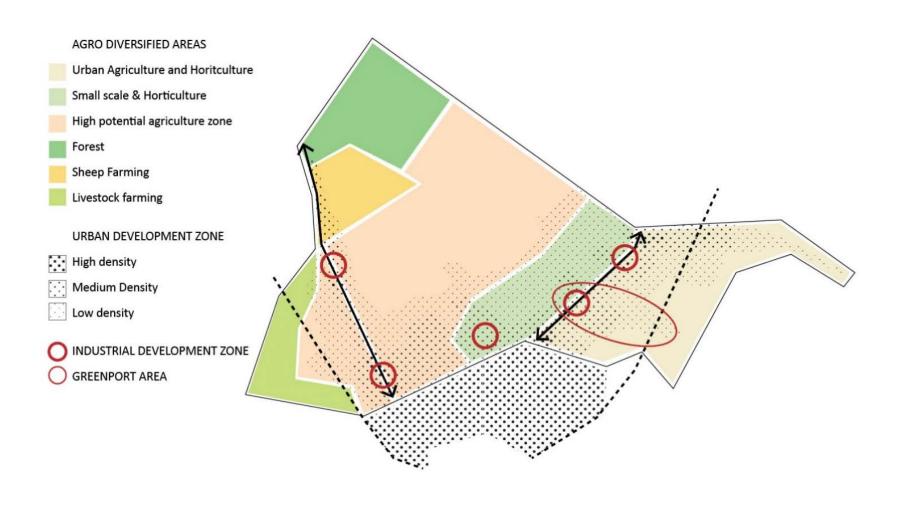
County of Kiambu; GIS data analysis on soil, rain, rivers and land use

# **CHALLENGES AND OPPORTUNITIES**



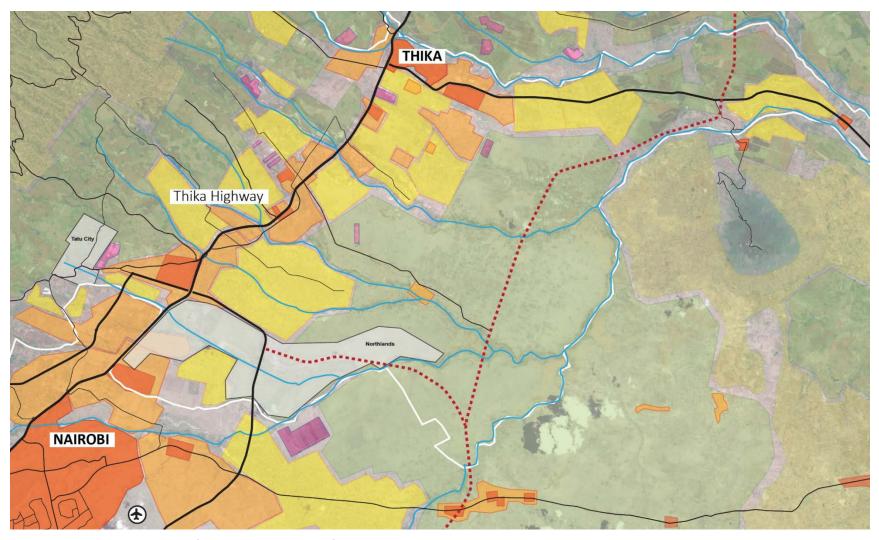
Prioritizing main influences to define best potential locations for Agro Industrial development

#### STRATEGIC PLANNING



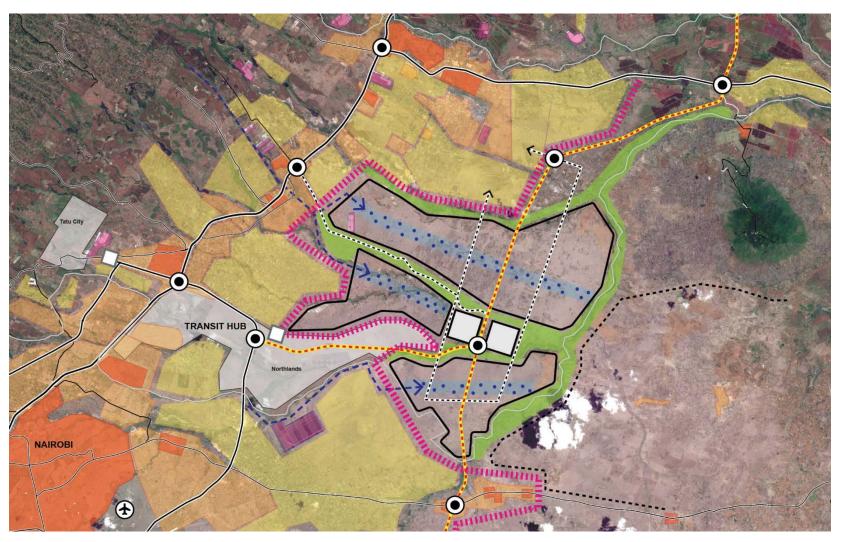
Abstract mapping of main spatial aspects to define focus areas for the subject

# **BASEMAP ANALYSIS**



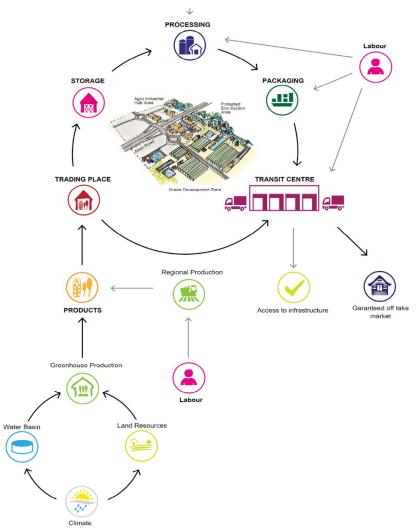
Basemap analysis of urban status of eastern Kiambu area

# STRATEGIC SPATIAL DEVELOPMENT



A strategy for dealing with the rapid urbanisation and marking key areas to steer structure and use

# **GREENPORT:** production+processing





#### CRITICAL ISSUES GREENPORT

Requirements for establishing such a cluster and production site are:

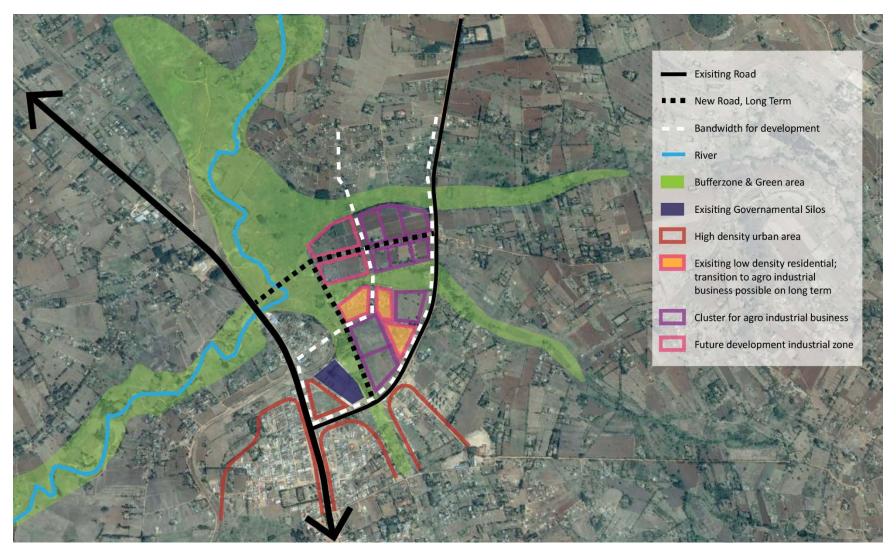
- Robust business cases for the individual functions
- Long term perspective on <u>availability of land</u>
- Accessibility to <u>sufficient quality water</u>
- Skilled growers who want to learn and innovate.
- Greenhouses management and maintenance.

# **BOTTOM UP APPROACH**



Enhancing economic development by mutual interest of participating companies in the cluster

### PLAN FOR AGRO INDUSTRY CLUSTER



Study for a spatial framework for Agro Industrial Cluster in Moi's Bridge

#### **BUSINESS CASE**

- Masterplanning a designated zone for the cluster
- Defining investment & exploitation cost parameters
- Revenues (lease, services)
- Phasing
- <u>Economic Cost Benefit Analysis</u>: Why is this development good for the region and its people?
- Exact choice of <u>consession model</u> based on parties, situation and sectors

In the workshop I would like to explore the ways in which business can be interested for/participate in the implementation stages of this concept.

Thank you.











