





#### Remco Rolvink

Co-founder / Secretary General / Master Planner

remco@dasuda.nl

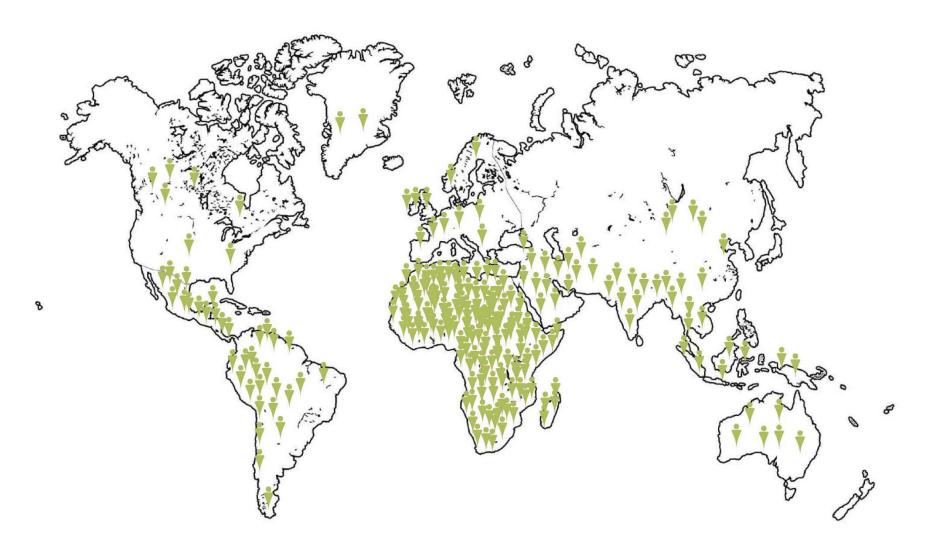








## **GLOBAL POPULATION GROWTH TILL 2050**





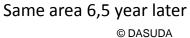
## **URBANIZATION**





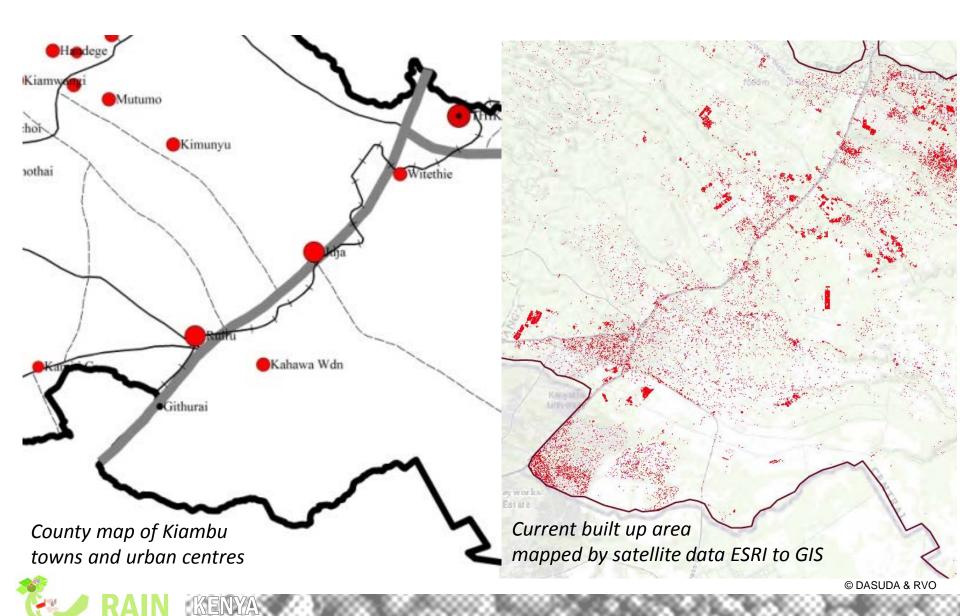
# **40 TO 70 PERSONS PER HOUR**



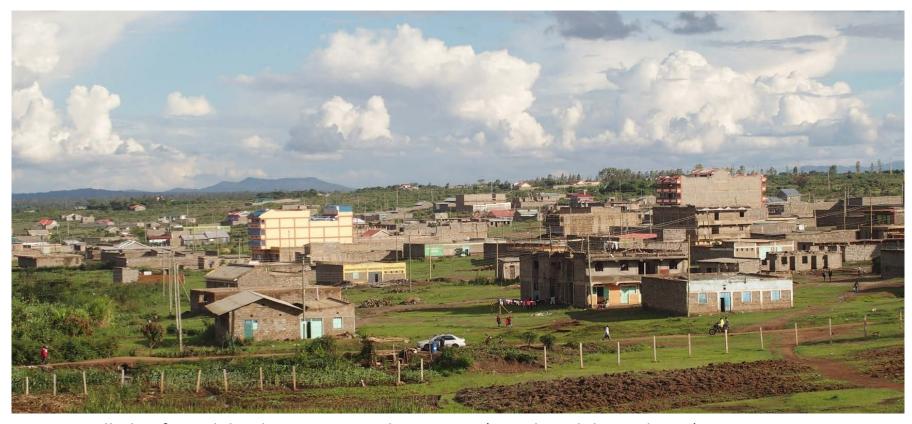




## **CURRENT IDEA OF CITIES & TOWNS**



## REAL URBANISATION SITUATION



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



## **CURRENT TENSION FOOD vs. CITY**

- Expanding <u>urban sprawl invades the agricultural domain</u>
- <u>Land prices are rising</u> and becoming too expensive for farmers to expand their business.
- Larger producing <u>farms move out</u> of the region.
- This has repercussions:
  - Lower availability of food,
  - Higher prices for food,
  - Challenges in quality of food
  - Job loss in agriculture, where we need extra jobs instead.

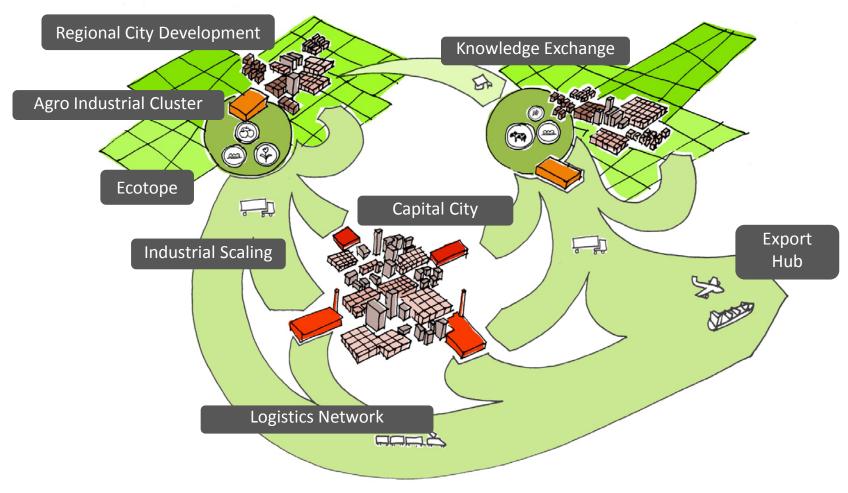


### **WHY RAIN**

- Planning is a critical issue with these effects of <u>rapid</u> <u>urbanization</u>
- Not fully using <u>agricultural potentials</u>
- Lacking secured situation for <u>sustainable investment</u>
- Need to work with local government because:
  - <u>cross-sectoral approach</u> to achieve <u>effective</u> <u>implementation</u>
  - <u>strengthened urban-rural</u> relationship <u>to enhance</u>
    <u>economy and liveability</u>



## RAIN CONCEPT: FOCUS ON AGROHUBS



An Intelligent Network

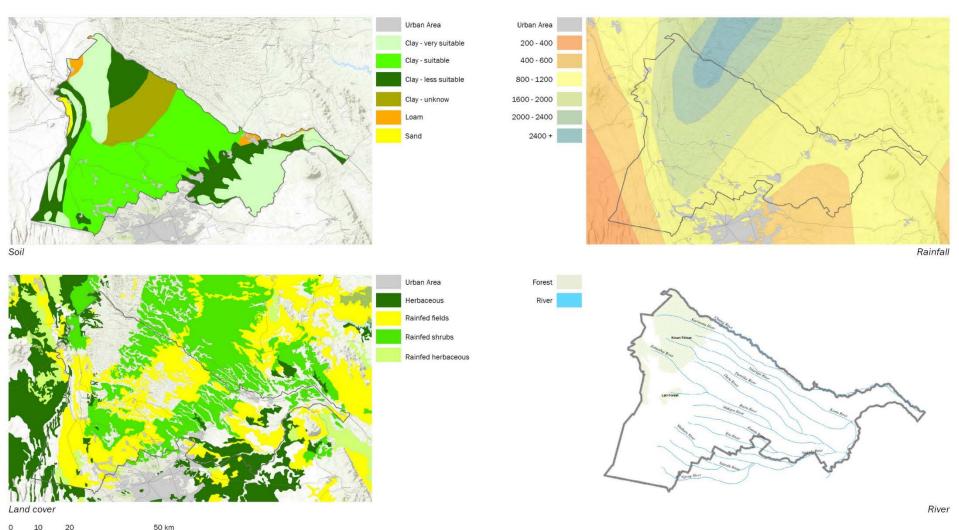


## **APPROACH G2G**

- Analysis and inventory in space and market
- Development process of spatial planning for agro industrial development



# REGIONAL PLANNING, GIS & BIG DATA



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



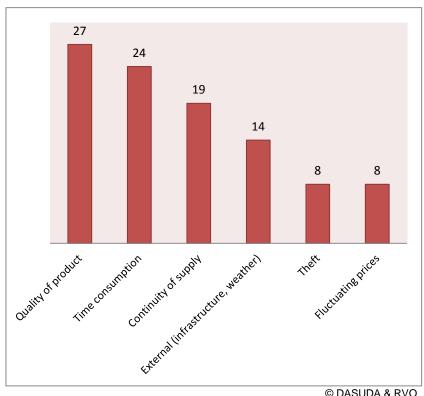
KENYA

## **MARKET ANALYSIS; OFFTAKE PARTIES**

- 1) Lack of a continuous and reliable supply of produce;
- 2) Lack of produce that is consistently high in aesthetic quality and nutrients

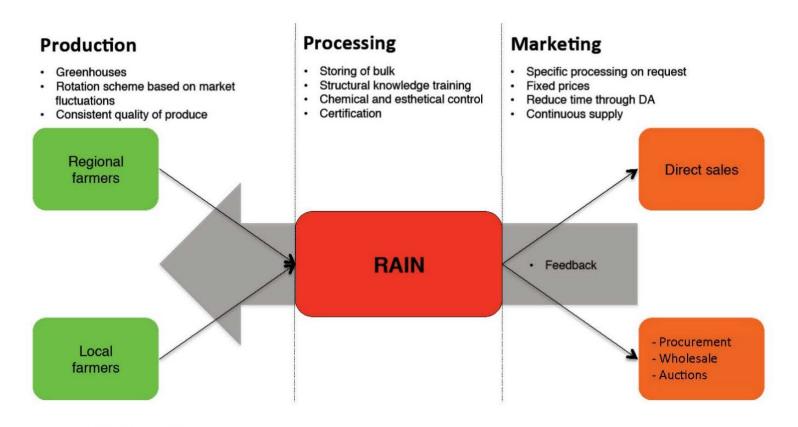
and low in pesticides;

3) Time and financial investments required that are related to procurement;





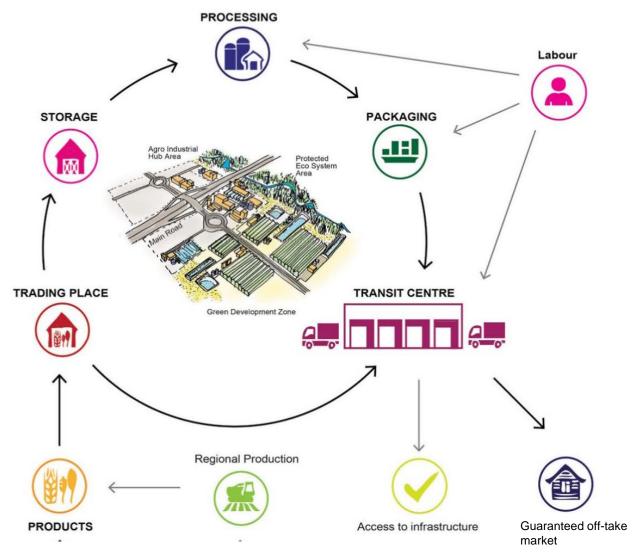
## MISSING LINK IN SUPPLY CHAIN



Proposed RAIN supply chain



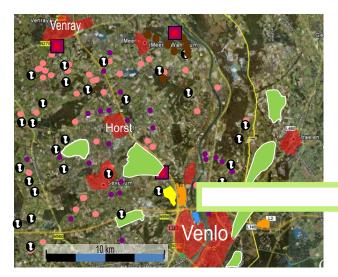
## **CLUSTER OF AGRO BUSINESSES**





KENYA

## 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



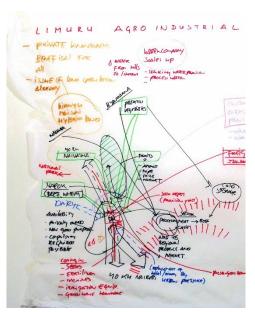
#### **Consolidation centre Freshpark Venlo**

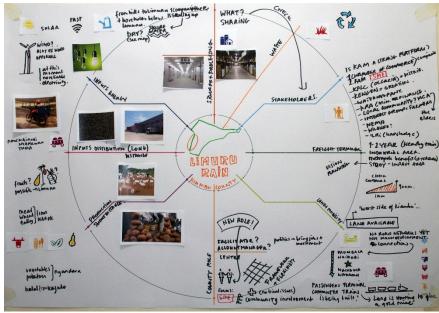
- 130 ha
- 130 companies
- 1500 jobs / 3000 in the season
- 3th largest logistic area of Holland
- Result of 10-15 years of integrated planning and development

Example of an Agro/Food Network Cluster: Greenport Venlo, NL



## **MULTI SECTORAL COLLABORATION SESSIONS**





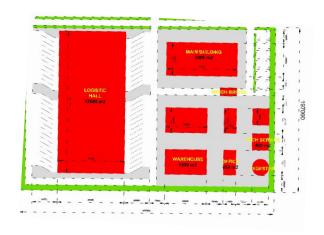


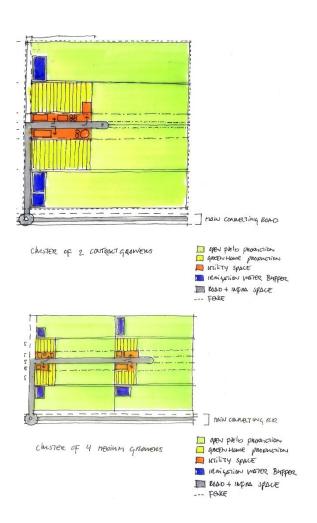
Work sessions on scenarios and site visits on business locations in Kenya and the Netherlands



## **EXAMPLE DESIGN FOR BUSINESS CASE**

- Input aspects of the business case:
  - 250 Ha production area
  - Large and medium sized farms
  - Transit hub as part of Greenport







## **FACILITATING ROLE OF COUNTY**

- Counter at business development centre of the county
- Planning procedure and documents
- Communicate business development with other stakeholders
- Decision procedure
- Implementation phase can start









#### Remco Rolvink

Co-founder / Secretary General / Master Planner

remco@dasuda.nl