



# Groene Hub Polis Conference November 29

## Parallel Session 3

### Urban Freight Distribution: The new Green Hub Concept in Arnhem Nijmegen

#### Content

- 1 What is going on?
- 2 Some best practices
- 3 Introduction Green Hub
- 4 Lessons learned and Discussion

Arnhem Nijmegen Cityregion

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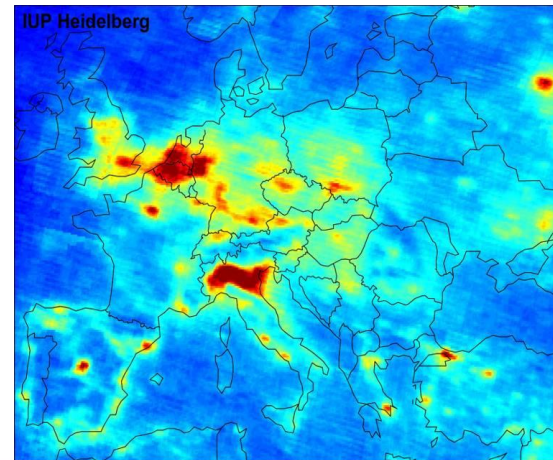
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# 1 What's going on

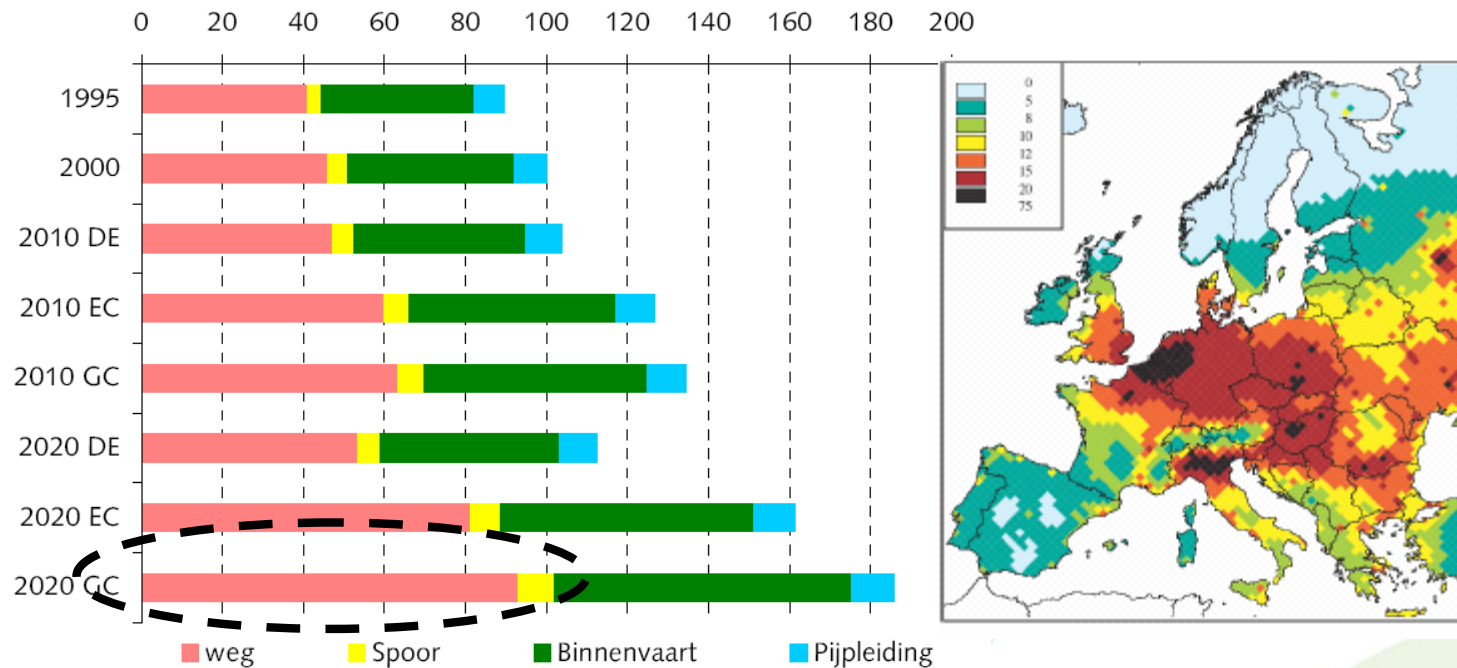
## Bottlenecks are increasing



- Pollution
- Lack of sufficient air quality in major cities
- Congestion
- Attractive cities are undermined



major concern a tremendous growth of flow of goods without any real shift

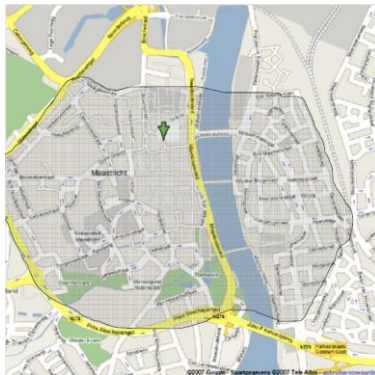


bron: AVV

## Solutions

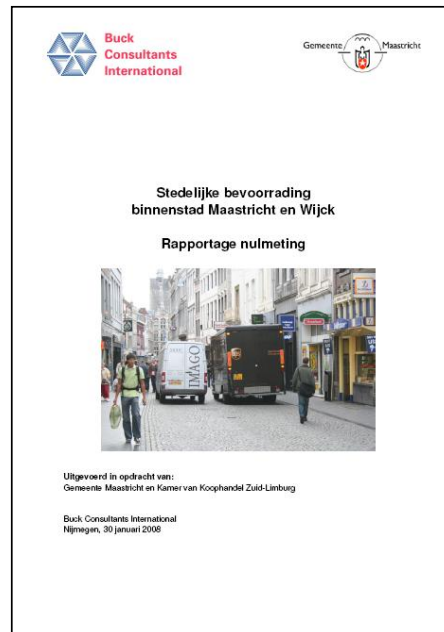
### Creating facts and figures

### Baselines, Profiels of city distribution

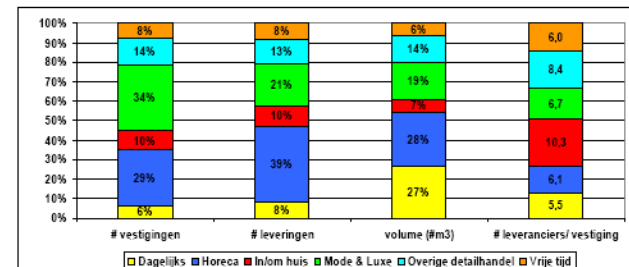


### Stakeholders

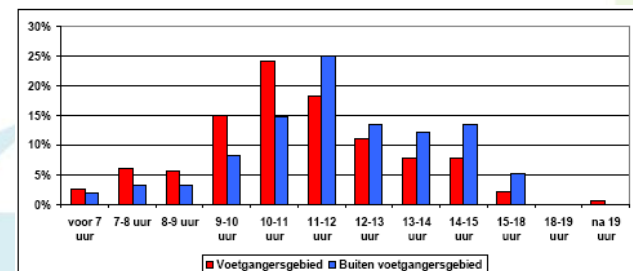
- retail
- transport companies
- shippers
- city council



### Shipments

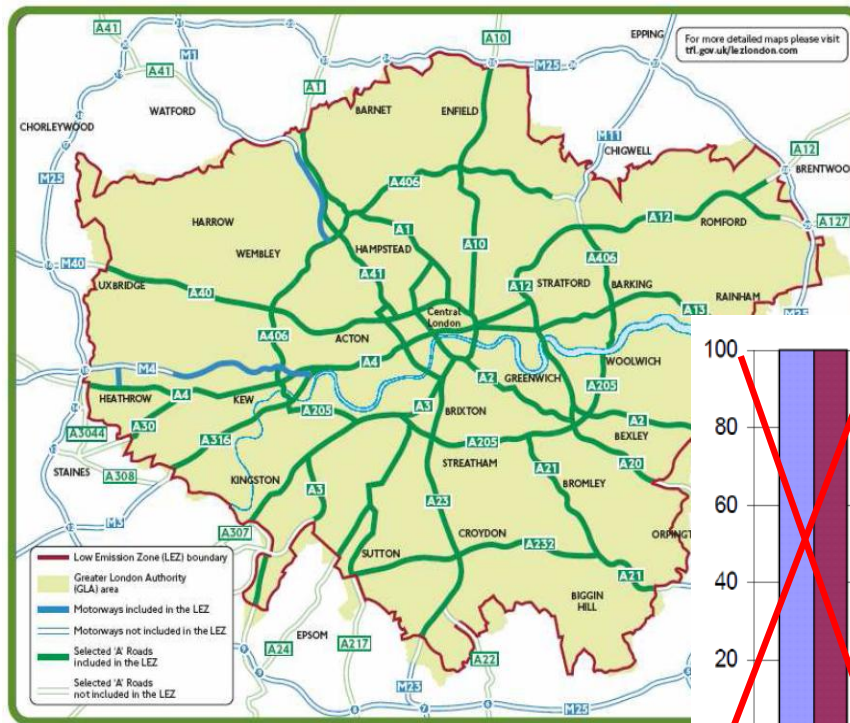


### Time of delivery

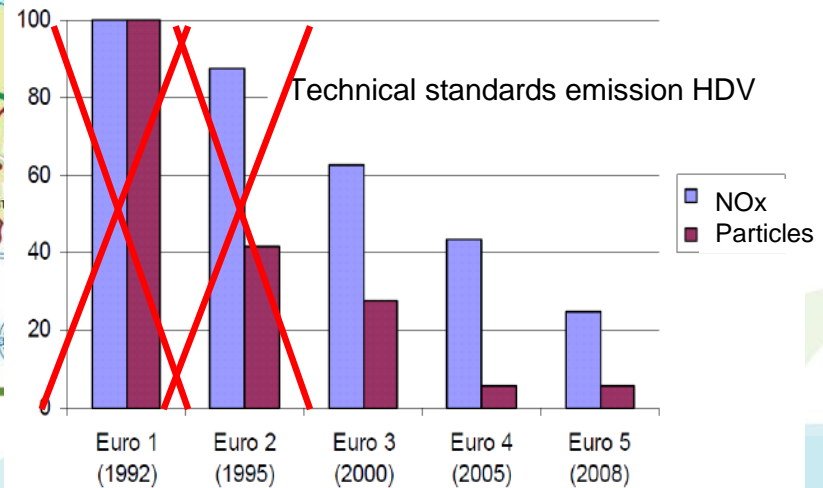
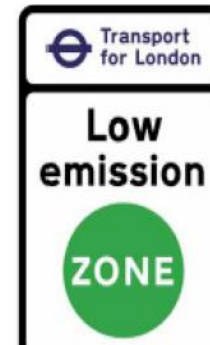


# Solutions

## Environmental zones



milieuzone

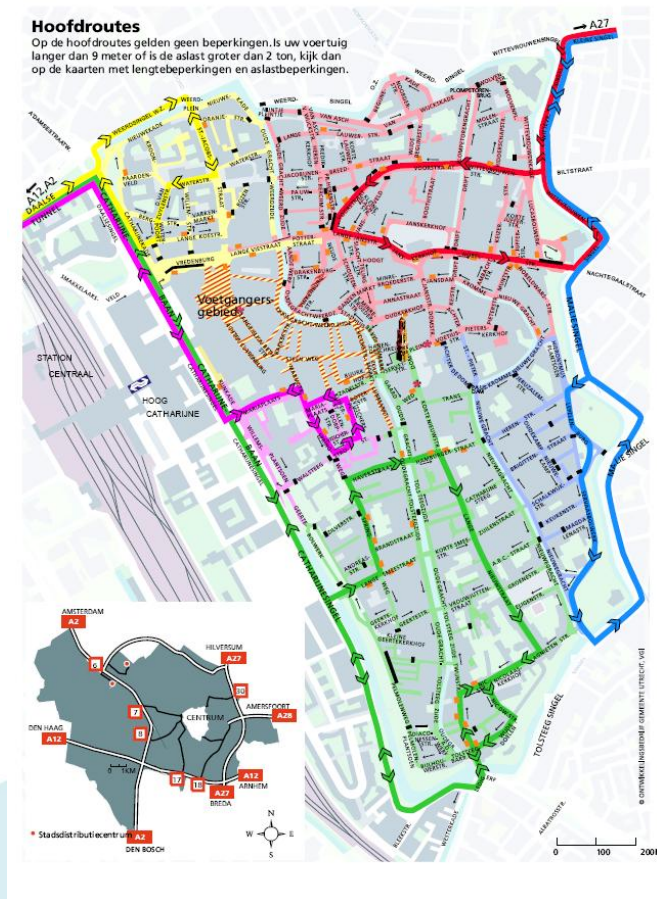




## Solutions

### City regulation and information

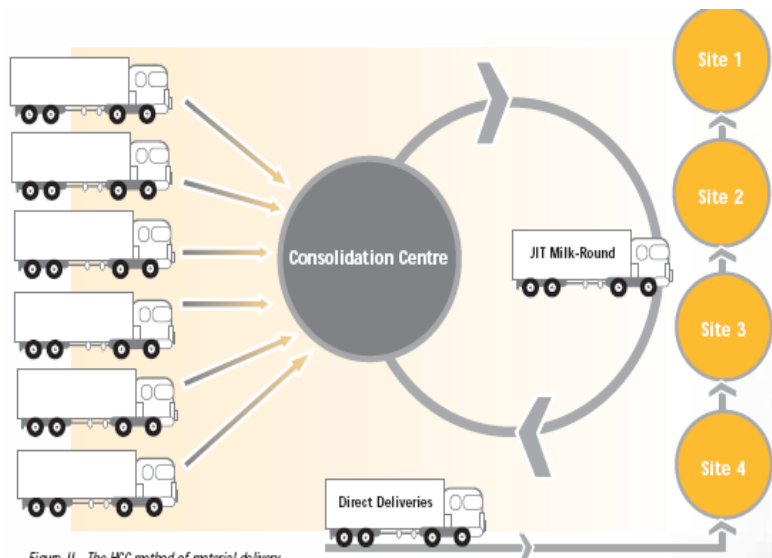
- Transport routing
- Delivery hours



# Solutions

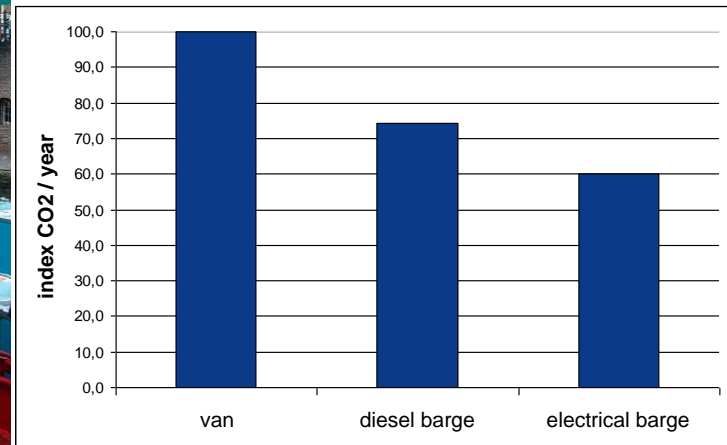
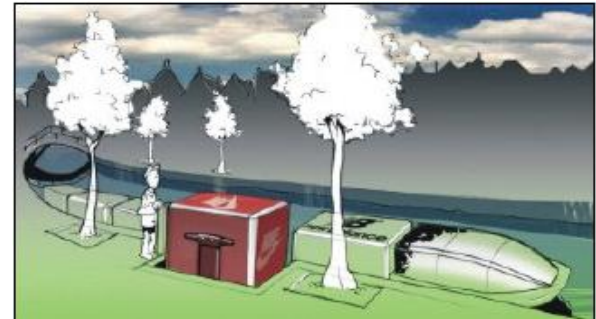
## Smart logistics / last mile concepts

- Consolidation centres



## Solutions last mile concepts

- All electric supply vessel ('beer boat')





## Solutions

### last mile concepts / chain concept

● Cargo hopper



● Lynx



### 3 Introduction Green Hub

- The Green hub concept brings all elements together:
  - All new concepts combined
  - Triple Helix
  - Innovative
  - Combination of last mile within a total chain approach
  - Creating a community
  - Unique project
- Results
  - City region
  - First lean and green community



# Element 1 – Green Gas Production



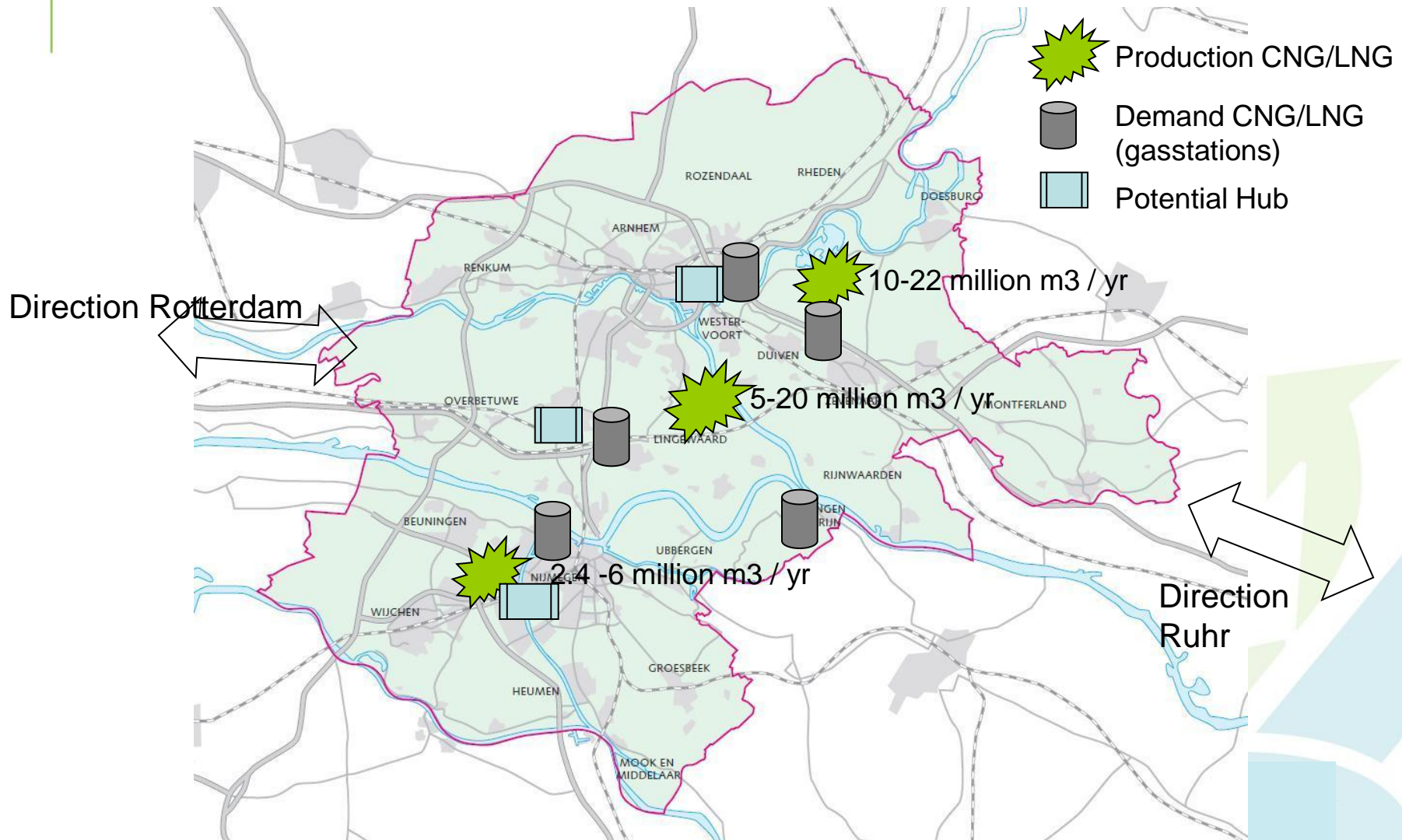


## Element 2 – Creating a massive Demand





# Element 3 Matchmaking Production and Demand



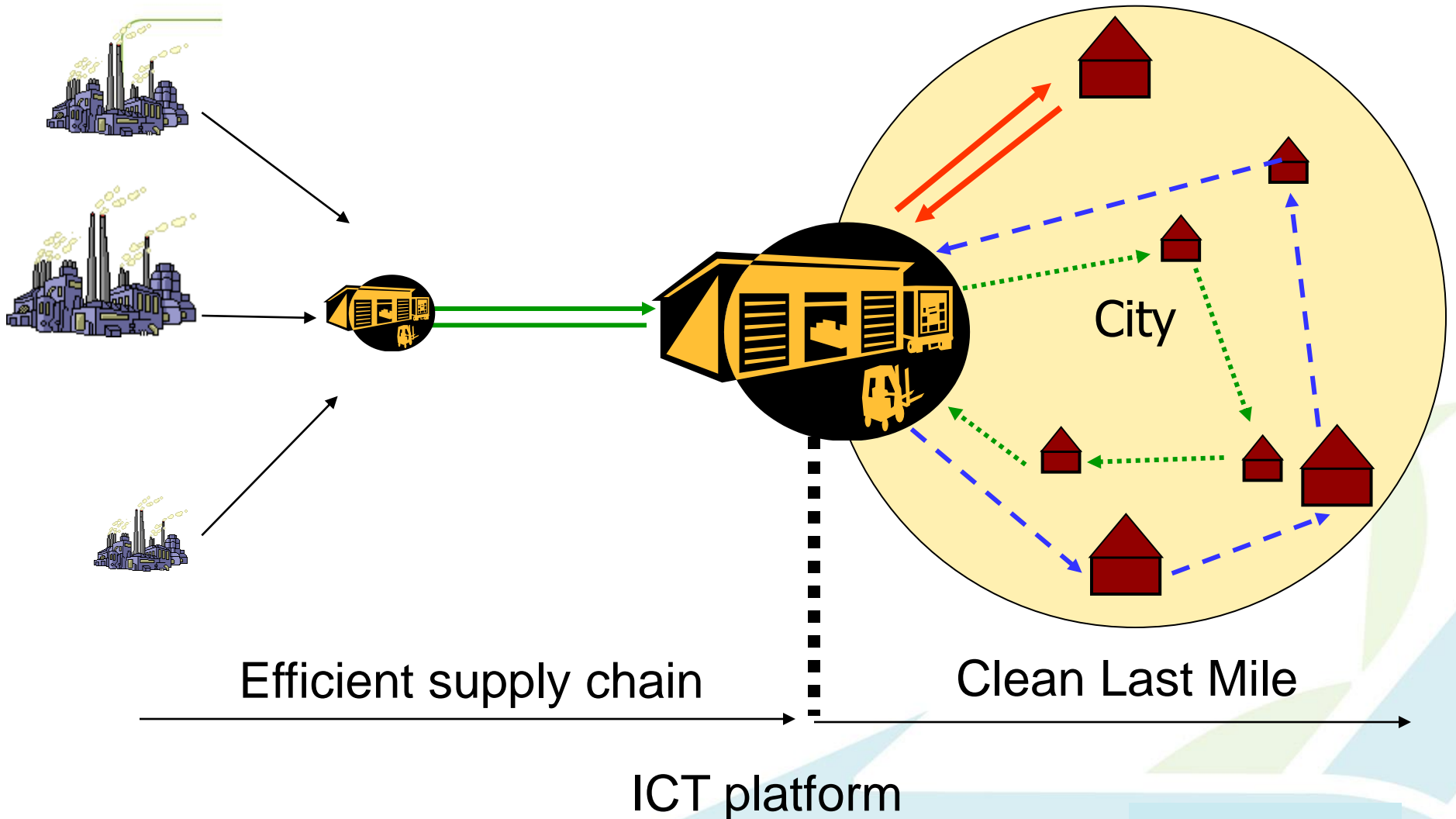
## Element 4: bring together Urban Freight Delivery concept and parties



- All chain elements imbedded:
  - Linx
  - Bicycle transport
  - Clean warehousing



## Element 5: Vision



- Production: 10 billion m<sup>3</sup> green gas within the region
- Demand: Public Transport in region Arnhem Nijmegen on Green Gas instead of Diesel!
- Urban Freight Distribution Delivery cost savings and service levels increased
- Employment: direct 20 indirect 100
- Value adding up to 5 Million Euros



## 4 Lessons learned and discussion

- Lesson learned: **changing governance structures**
  - Think global, act local
  - Work together with trust and respect
  - Calculate your savings and investments
  - Create win win situations
  - Be patient, be wise
  - Don't mix up an innovation and the company that's carrying the innovation
  - Work in a triple helix and understand your responsibilities
- We are still on the move....



## More information: please feel free to contact

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