

RAPID PLANNING



Federal Ministry
of Education
and Research



SUSTAINABLE INFRASTRUCTURE, ENVIRONMENTAL
AND RESOURCE MANAGEMENT FOR
HIGHLY DYNAMIC METROPOLISES

REGIONAL IMPACT ASSESSMENT OF TRANS-SECTORAL
URBAN PLANNING

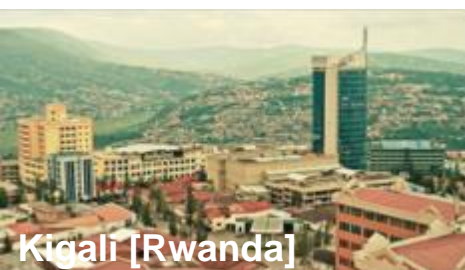
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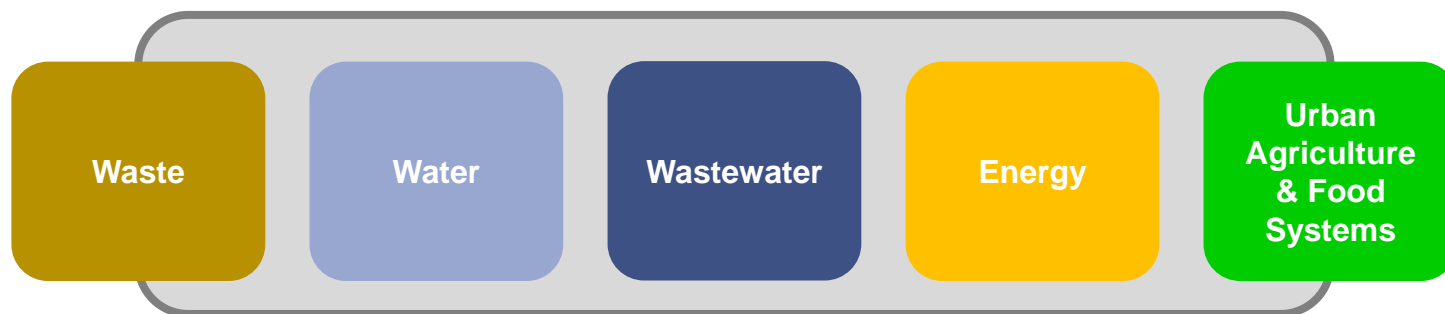
INTRODUCTION: THE RAPID PLANNING PROJECT

- Rapid Planning (RP) is an action-oriented research project
- developed and funded by the German Federal Ministry of Education and Research (BMBF) (2014 - 2019)
- targets urban development and infrastructure supply in four case cities
- 11 German partners and UN-Habitat



OBJECTIVES OF THE RAPID PLANNING PROJECT

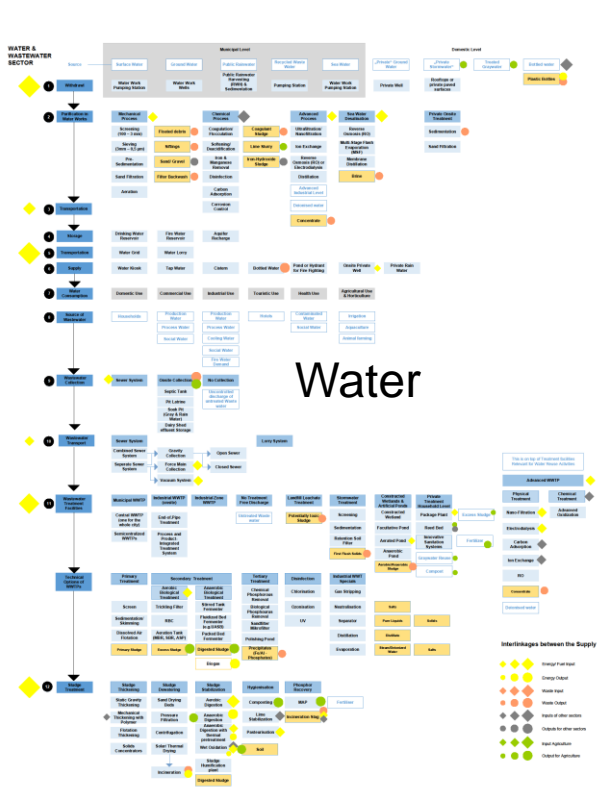
- addresses the sectors **waste, water, wastewater, energy** and **urban agriculture and food systems**
- identifies **interlinkages and synergies** between the sectors
- fosters sustainable urban development through **efficient** and/ or **trans-sectoral planning** and improved management approaches
- main academic objective: development of a **trans-sectoral urban planning methodology** with focus on the provision and improvement of urban basic services



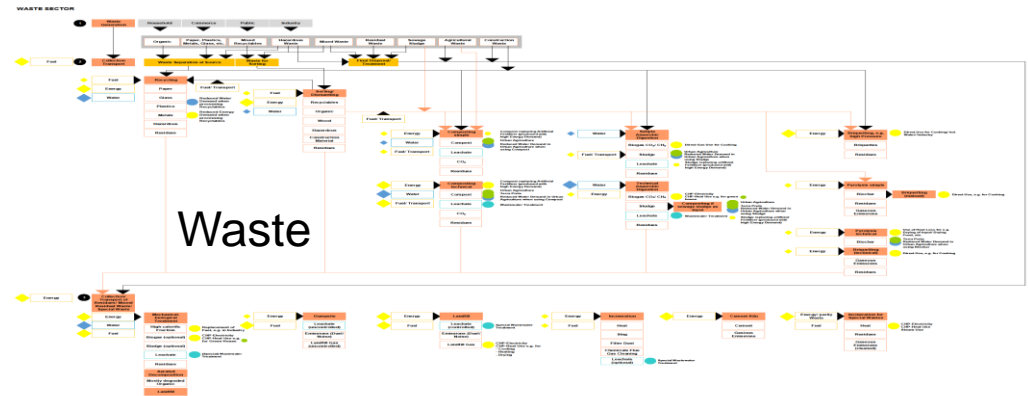
CORE AREAS

- **Data generation, computation and management**
 - methodologies and technologies
- **Support of planning and decision-making**
 - trans-sectoral scenario simulation and strategic pre-planning
 - examination of the legislative framework
 - identification of economically feasible technology options
- **Capacity development**
 - summer schools, capacity development workshops, etc.
- **Empowerment, stakeholder participation & ‘change management’**
 - analysis of the administrative and stakeholder system
 - involvement of all stakeholders in planning and decision-making

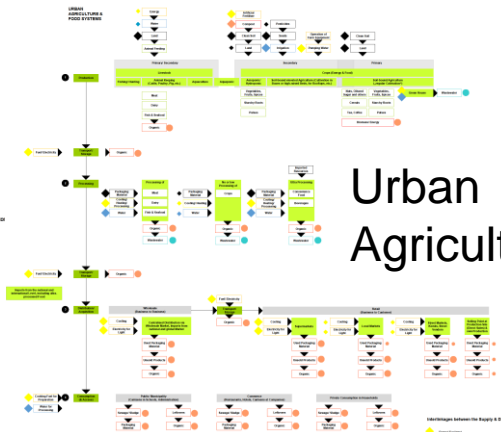
TRANS-SECTORAL INTERLINKAGES



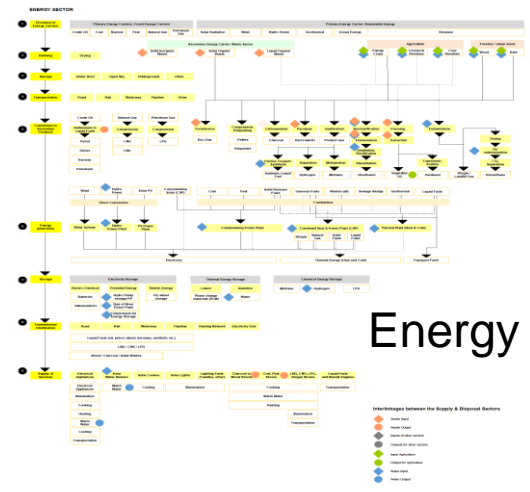
Water



Waste

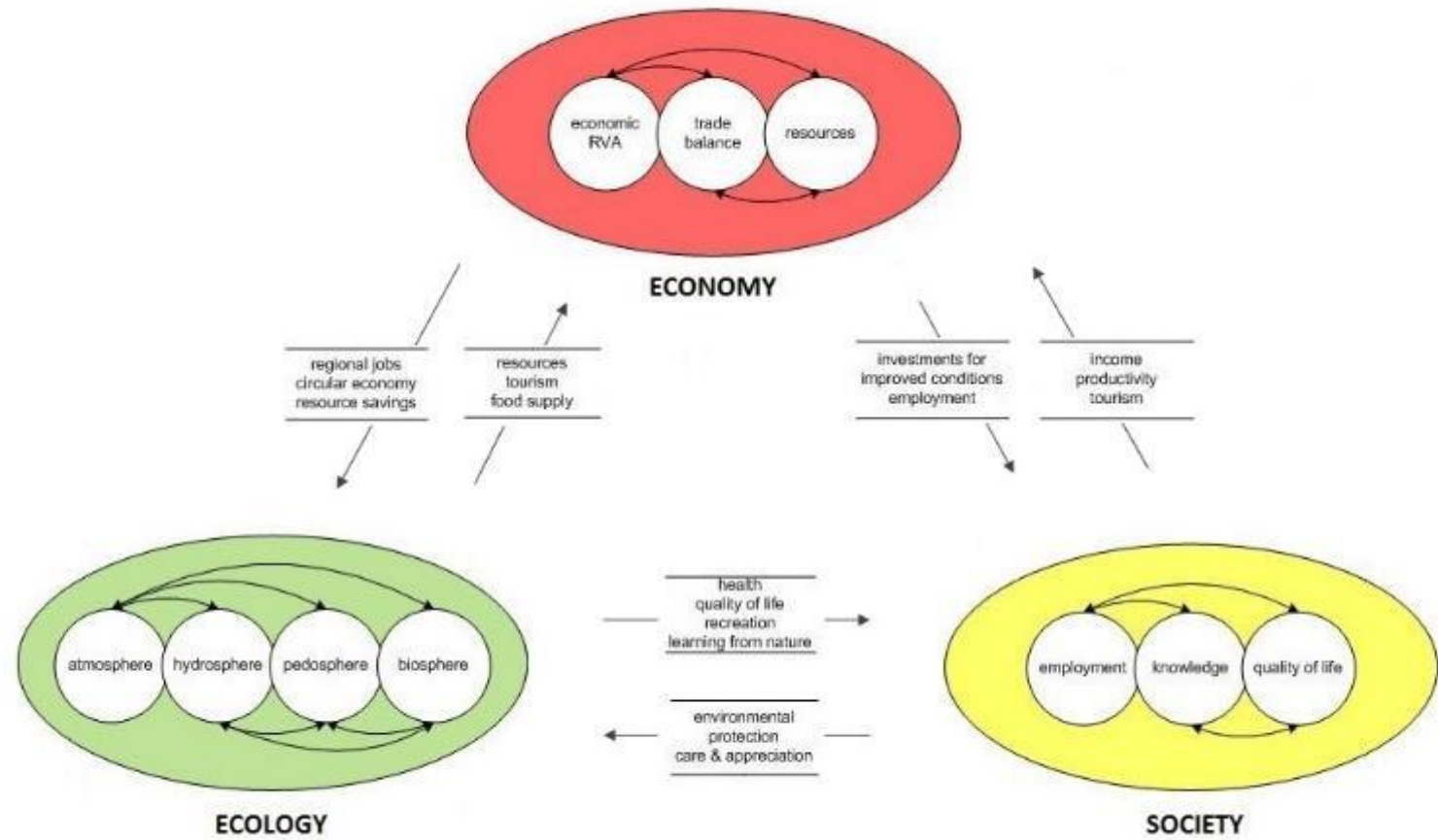


Urban
Agriculture



Energy

REGIONAL IMPACT ASSESSMENT



SYNERGIES OF AGRICULTURE AND WASTE IN DA NANG: USE OF ORGANIC WASTE AS FERTILISER

- **Regional value added:**

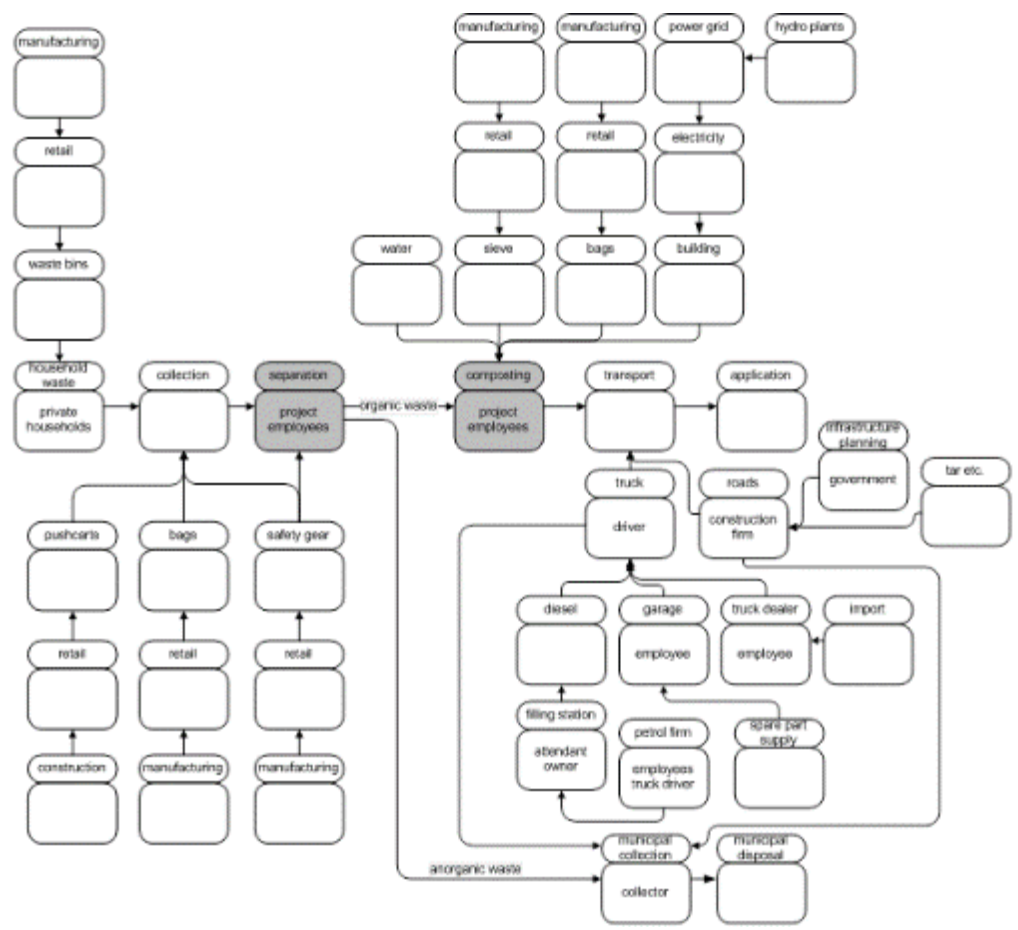
- higher yields=higher incomes
- substitution of expensive, imported mineral fertiliser
- support of organic agriculture
- (self-)supply of poorer people
- increase of organic matter in soil

- **Barriers:**

- lack of knowledge and willingness (age of farmers)
- alternative uses of organic waste (biogas)
- market access/certification/marketing of own products (fertiliser and food)



COMPOST VALUE CHAIN



- Definition of regional part of value chain
- Comparison to a reference scenario
- Determination of value added with selected indicators

REGIONAL IMPACT ASSESSMENT

Economic Indicators

Investment/Value
Added

Vulnerability

Product Quality &
Information

Local Economy

Social Indicators

Quality of Life

Knowledge/Education

Employment

Fair Access/Self-
supply

Ecological Indicators

Atmosphere

Hydrosphere

Pedosphere

Biosphere

Material & Energy
Balance

Animal Welfare



THANK YOU FOR YOUR ATTENTION!

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