MODULE 3

RESTRUCTURING THE TOWNSHIP PHYSICAL ENVIRONMENT

FOCUS OF THE MODULE

 The physical and spatial (locational) characteristics that prevent townships from developing

Levels of intervention:

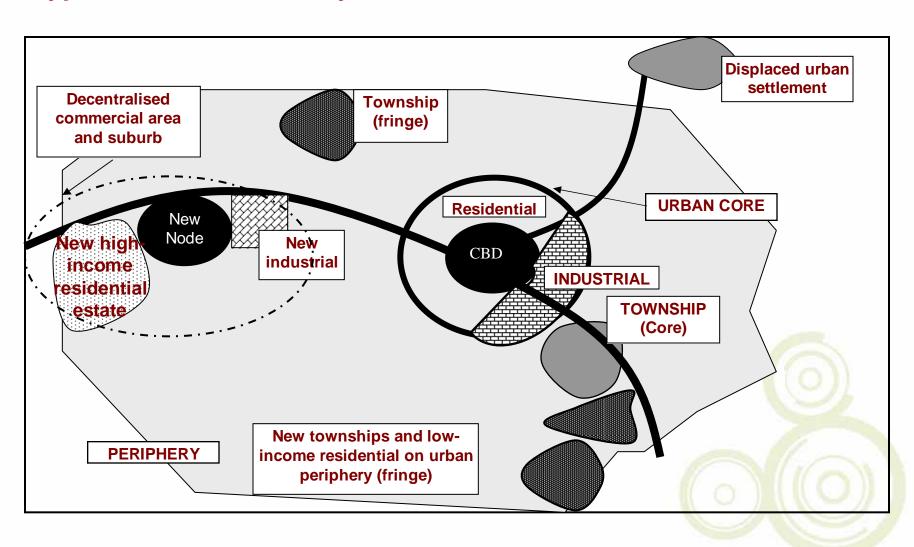
- Things that can be done outside the township to improve its locational advantages relative to the broader economic system
- Things that can be done inside the township to improve the economy of the township as a whole

SOUTH AFRICA'S URBAN SYSTEM

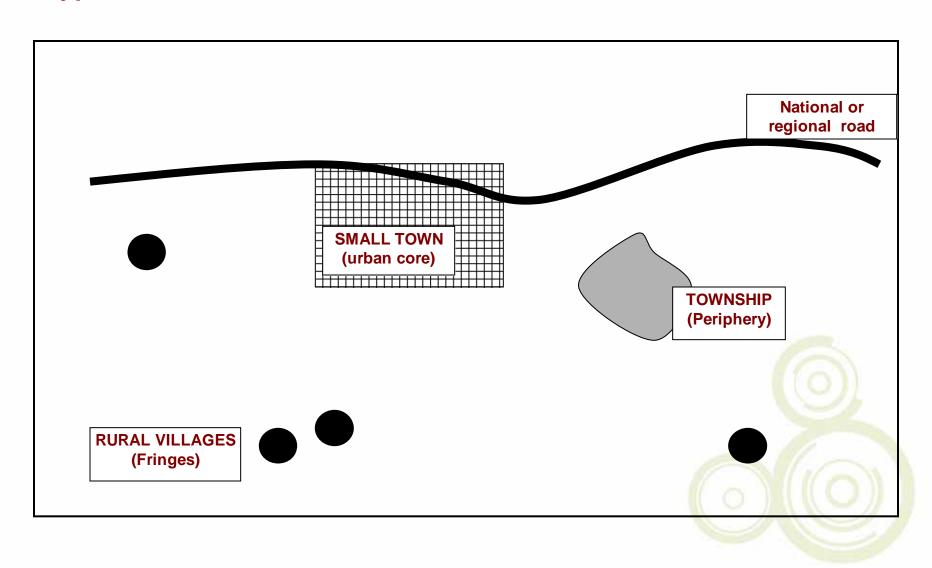
A typical city or town contains a mix of the following elements:

- Core and frame (fringe/periphery)
- Decentralised commercial centres and suburbs
- Industrial areas
- Upper- and middle-income residential neighbourhoods
- Declining residential neighbourhoods
- Townships and their post apartheid additions

Typical elements in a city context



Typical elements in a rural/small town context



IMPROVING SPATIAL ADVANTAGE

Common problems

- Peripheral location initial location far from economic opportunities
- Polarised city growth locational disadvantages reinforced through new growth patterns
- Unidirectional transport flows inefficient, expensive to operate public transport and movement systems
- Poor transport connections between townships and new economic nodes

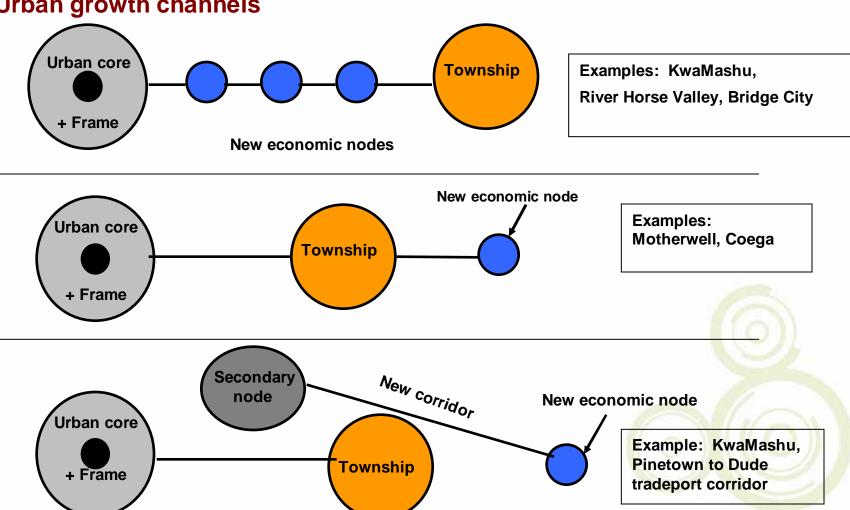
Strategies for improving spatial advantage

- Channel city growth into areas that strengthen township locational advantages
- Attract high-order facilities and activities into nodes adjacent to the township (e.g. Bridge City)
- Improve transport linkages



Strategies for improving spatial advantage

Urban growth channels



IMPROVING THE BUILT ENVIRONMENT AND PUBLIC SPACES

Common problems

- Dispersed and restricted movement within the township
- Low-density built form and overcrowding
- Lack of range and quality of social facilities and public places
- Limited range of economic infrastructure and services
- Limited range of residential choice
- Insecure or unsafe spaces
- Lack of identity and 'sense of place'

Strategies for improving the built environment

Key objectives:

- Enhance ease of movement within a township and between a township and town
- Extend the mix and improve the concentration of land uses and activities
- Improve the capacity of the township land, infrastructure and buildings to adapt to different uses over time

Strategies:

- 1. Identify, plan and promote activity routes
- 2. Establish a hierarchy of nodes associated with activity routes
- 3. Improve the quality of public spaces
- 4. Promote residential infill
- 5. Crime prevention through environmental design

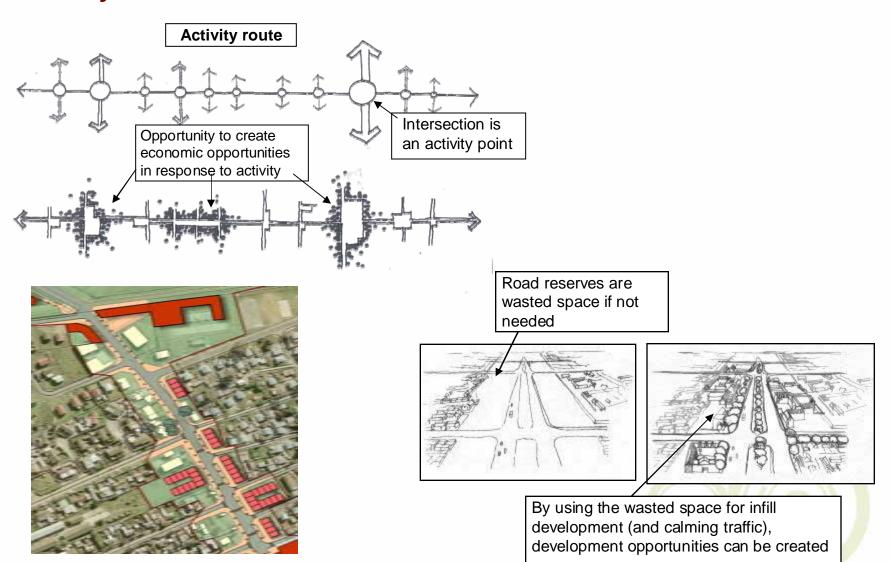
Strategy 1: Identify, plan and promote activity routes

Key objective:

 Integrate townships into the mainstream of city economies, to promote both access to the opportunities that exist in core areas and investment in townships

- Rationalisation of road reserves
- Redesign of roads within the road reserves
- Landscaping and 'street furniture'
- Improving public transport along activity routes

Activity routes



Strategy 2: Establish a hierarchy of nodes (associated with activity routes)

Features of urban nodes:

- A concentration of activities and land uses (commercial, housing, public space and facilities)
- Best located at points of the highest accessibility
- Should be well serviced by public transport and easy to get to
- The size of a node (planned or existing) depends on its location and accessibility
- The best locations are sought by high threshold businesses or activities

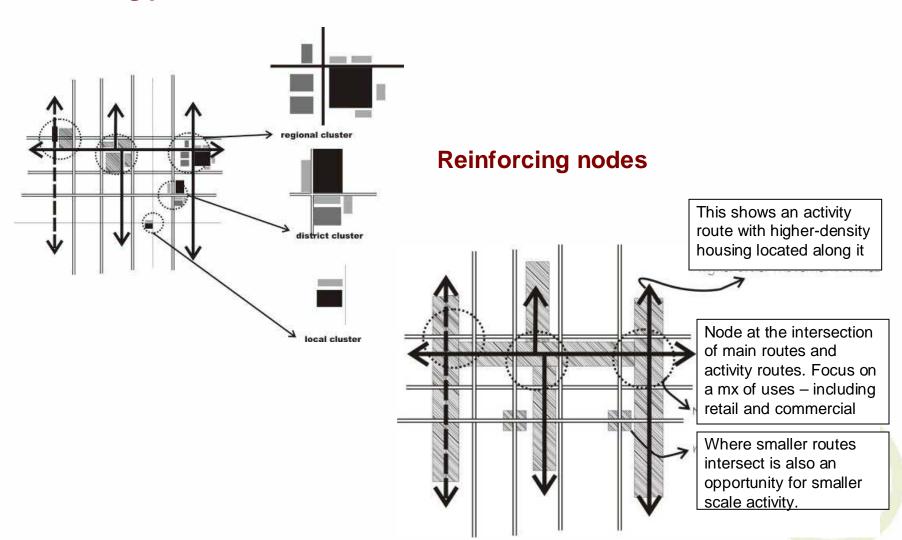
Strategy 2: Establish a hierarchy of nodes (contd)

Key objectives:

- Extend the range and quality of social facilities and public spaces
- Address problems of low-density built form and overcrowding
- Support development of economic infrastructure and services
- Contribute to safer public spaces
- Develop a 'sense of place'
- Encourage variety in built forms

- Transportation-related interventions through the use of modal split points
- Clustering public facilities at activity nodes
- Reinforcing nodes with high-density residential development
- Reinforcing nodes with appropriate economic infrastructure

Clustering public facilities



Strategy 3: Improve the quality of public spaces

Common problems:

- Lack of meaningful investment of new public open spaces
- Inadequate maintenance of existing open spaces

Key objective:

 Urban public spaces (streets, squares, promenades and green spaces) should act as an extension of the housing unit, providing space for social and economic activities

- Establish an integrated open space system
- Establish a hierarchy of public spaces
- Ensure that key design principles of scale and enclosure are applied

Strategy 4: Promote residential land infill

Key objectives:

- Attract and retain middle- and upper-income residents in townships by providing quality and variety of housing
- Create property investment opportunities within the township for residents and enterprises
- Promote community safety by eliminating dead space and promoting surveillance
- Improve thresholds for economic and social services

- Provide a range of housing types
- Release land for development by the private-sector

Strategy 5: Crime prevention through environmental design

Key objectives:

- Design of places and spaces to maximise surveillance
- Redevelopment of unused open spaces with housing and other facilities which enable active use throughout the day
- Maintaining public spaces to create a sense of pride and ownership (e.g. ensuring weeds and rubble are cleared)
- Demolishing or re-using vacant and abandoned facilities

- Urban design interventions that promote passive surveillance
- Promote functional or used spaces vacant or underutilised space should be eliminated
- Install lighting to reduce opportunities for crime
- Promote pedestrian-friendly neighbourhoods

CONCLUSION

- The broad principles discussed in this module would apply to a township in a large metropolitan area as well as a township in a rural location. The nature and scale of the interventions would change, but not the underlying principles.
- There are no quick fixes. Change in the built environment takes time. Urban development practitioners must be patient.
 In this context, a clear and well motivated development framework can act as a guide over time to ensure that decisions continue to reinforce earlier development directions.