

Sector strategy of the WSSCC in Environmental Sanitation:

Bellagio Principles and Household Centered Environmental Sanitation Approach

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Environmental Sanitation

- Management of human excreta and wastewater
- Management of municipal solid waste
- Drainage of stormwater

The present situation

- Almost 2.5 billion people do not have access to adequate sanitation facilities
- Less than 50% of the municipal solid wastes are collected
- No one knows how many people are flooded out each year

Definition of Environmental Sanitation

Interventions to reduce peoples' exposure to disease by providing a clean environment

This usually includes disposal of or hygienic management of excreta, refuse, wastewater and stormwater, the control of disease vectors, and the provision of washing facilities for personal and domestic hygiene.

ES involves both behaviours and facilities which work together to form a hygienic environment.

Impact/consequences of inadequate sanitation

- Morbidity and Mortality
- Impact on world's natural supply of freshwater

Why is sanitation not happening ?

Low prestige and recognition

- Lack of political will
- Ineffective promotion and low public awareness
- Poor policy, at all levels
- Poor institutional frameworks
- Inadequate resources

Inappropriate approaches

Challenging conventional thinking

- 'Business as usual' cannot provide services for the poor
- 'Business as usual' is not sustainable even in the industrialised countries
- The under-utilisation of organic residues is economically wasteful
- The pressure on a fragile water resource base require that wastewater and wastes be recycled and used as resource
- Lack of integration between excreta and wastewater management, solid waste management, and storm water drainage

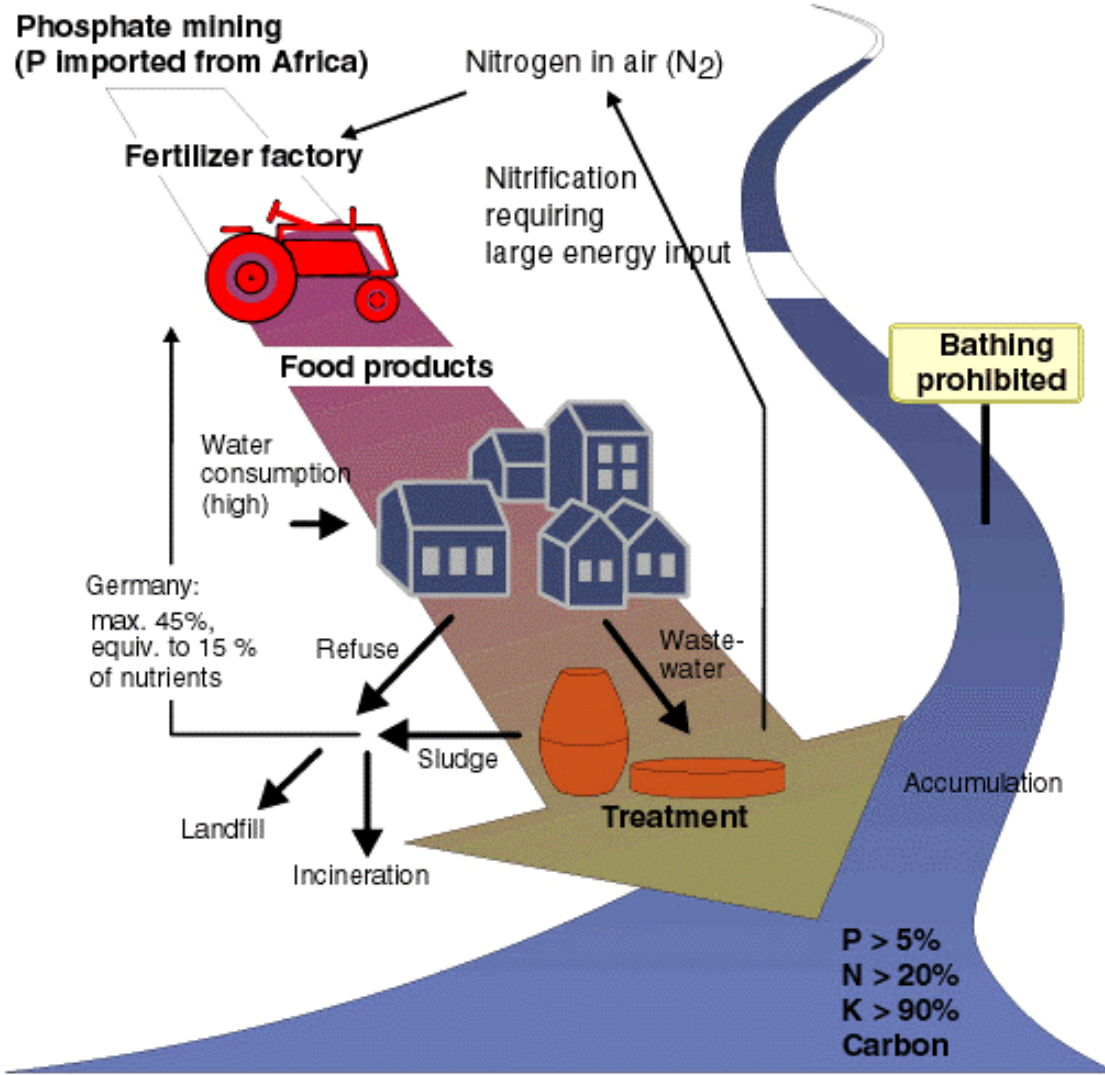
Main objectives of ES

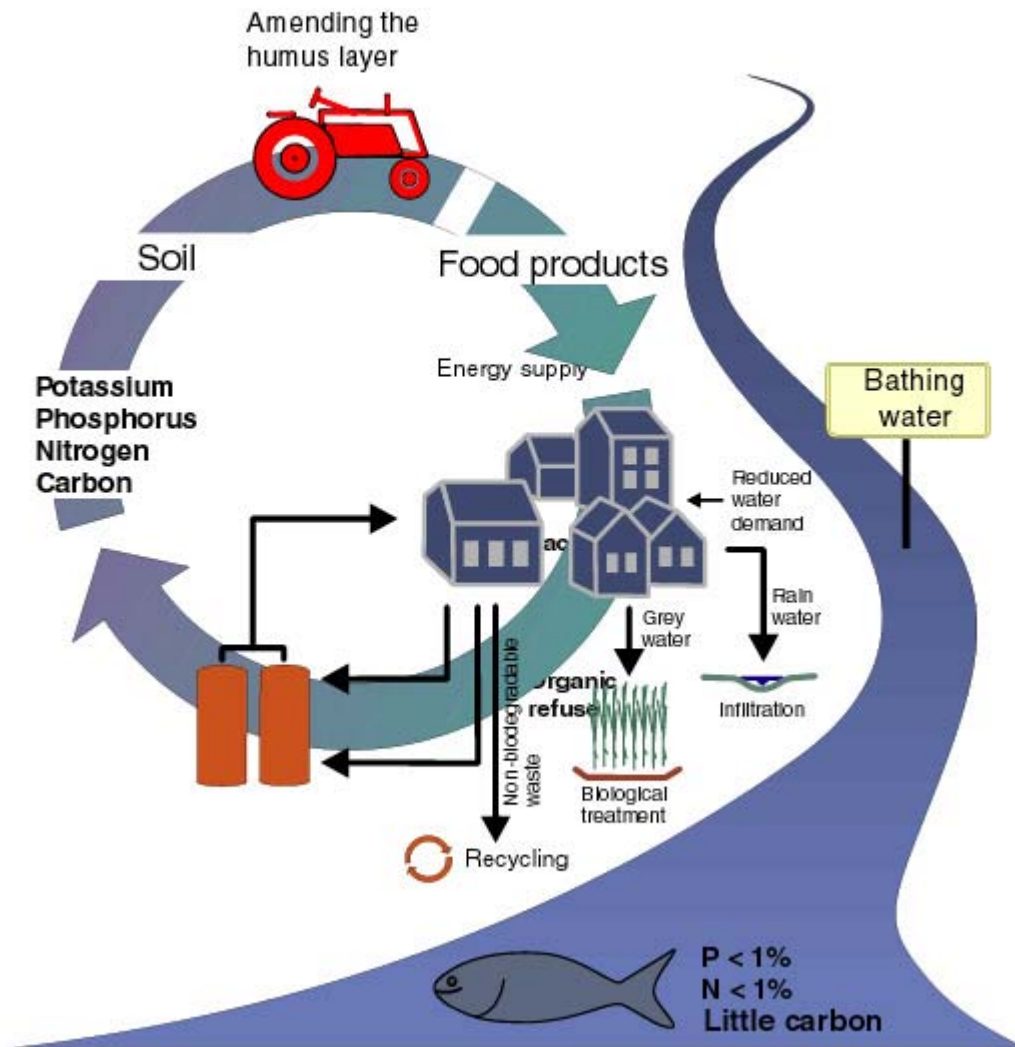
Create and maintain conditions whereby:

- **People lead healthy and productive lives;**
- **The natural environment is protected and enhanced**

Basis for a sustainable ES system

- People and their quality of life should be at the centre of any environmental sanitation system
- Any ES system must be designed in such a way to balance economic with environmental good
- Solutions of ES problems should take place as close as possible to where they occur
- “Wastes”, whether solid or liquid, should be regarded as a resource
- ES systems should be ‘circular’ designed in such a way as to minimise inputs and reduce outputs





Bellagio Principles for Sustainable Environmental Sanitation

- Human dignity, quality of life and environmental security should be at the centre of any Environmental Sanitation System
- Decision-making should involve participation of all stakeholders, especially the consumers and providers of services.

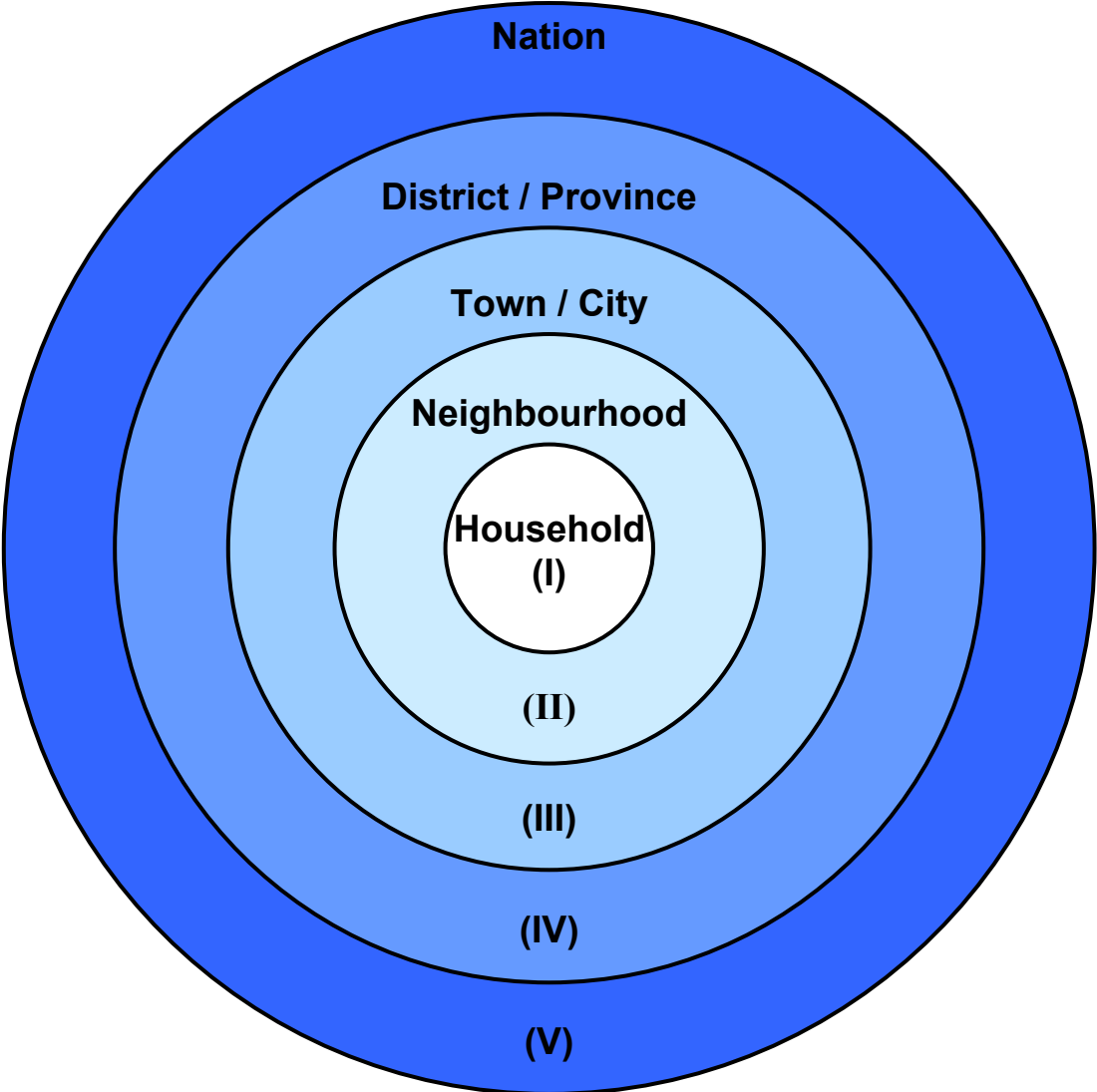
Bellagio Principles for Sustainable Environmental Sanitation (cont.)

- **Waste should be considered a resource, and its management should be holistic and form part of integrated water resources, nutrient flows and waste management processes.**
- **The domain in which environmental sanitation problems are resolved should be kept to the minimum practicable size (household, community, town, district, catchment, city)**

The Household-Centred Environmental Sanitation (HCES) Approach

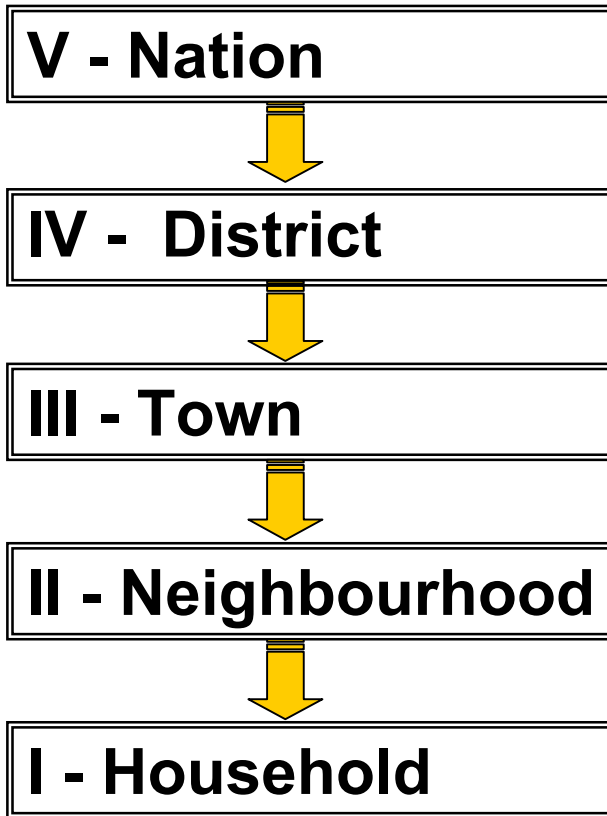
- Household is the focal point of Environmental Sanitation Planning
- Holistic planning of environmental sanitation components
- Circular System of Resource Management
- Solution of ES problems as close as possible to where they originate

The Household-Centred Environmental Sanitation Approach (HCES)

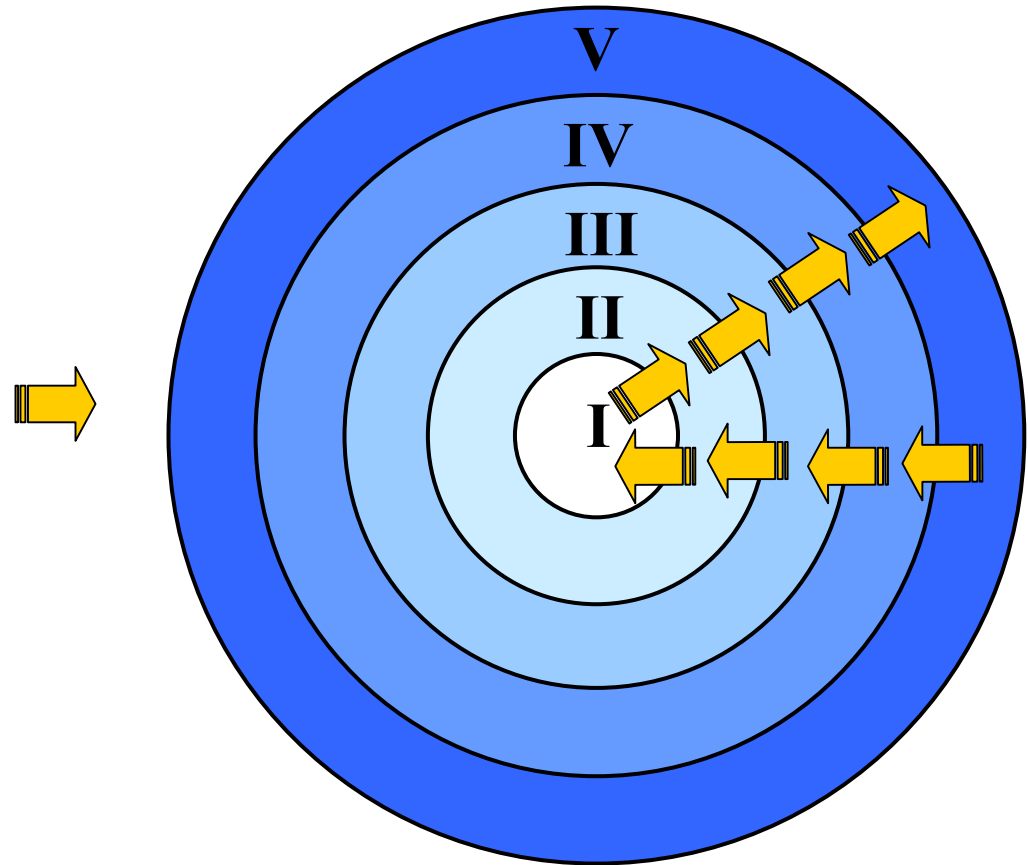


Decision Making in

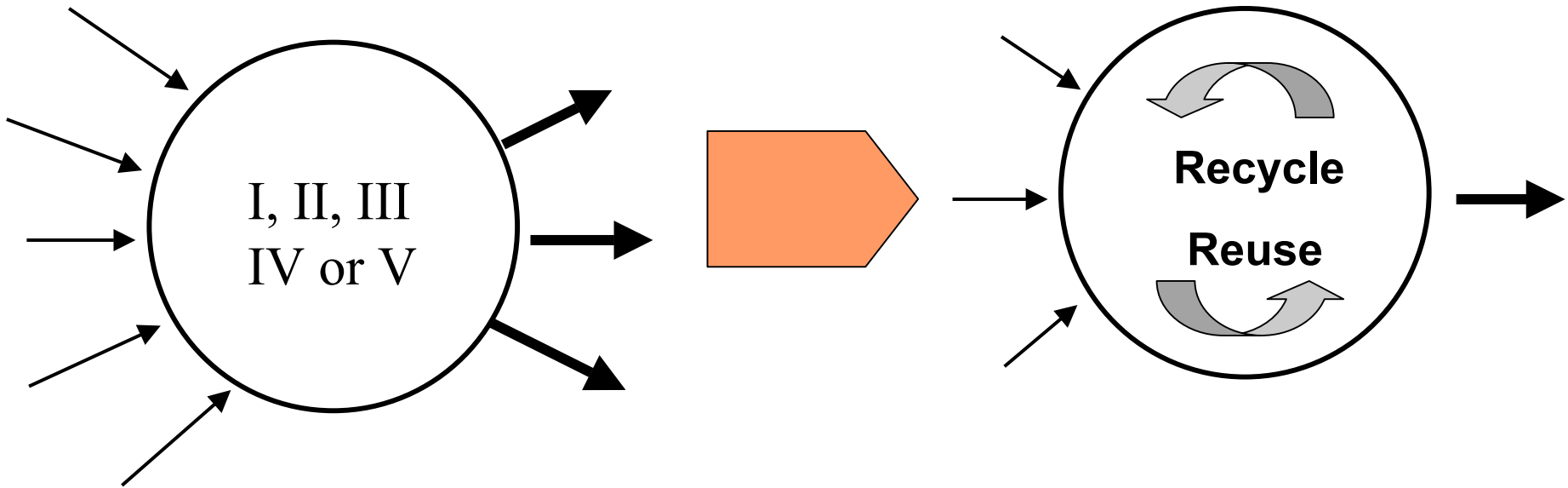
the Past



the Future



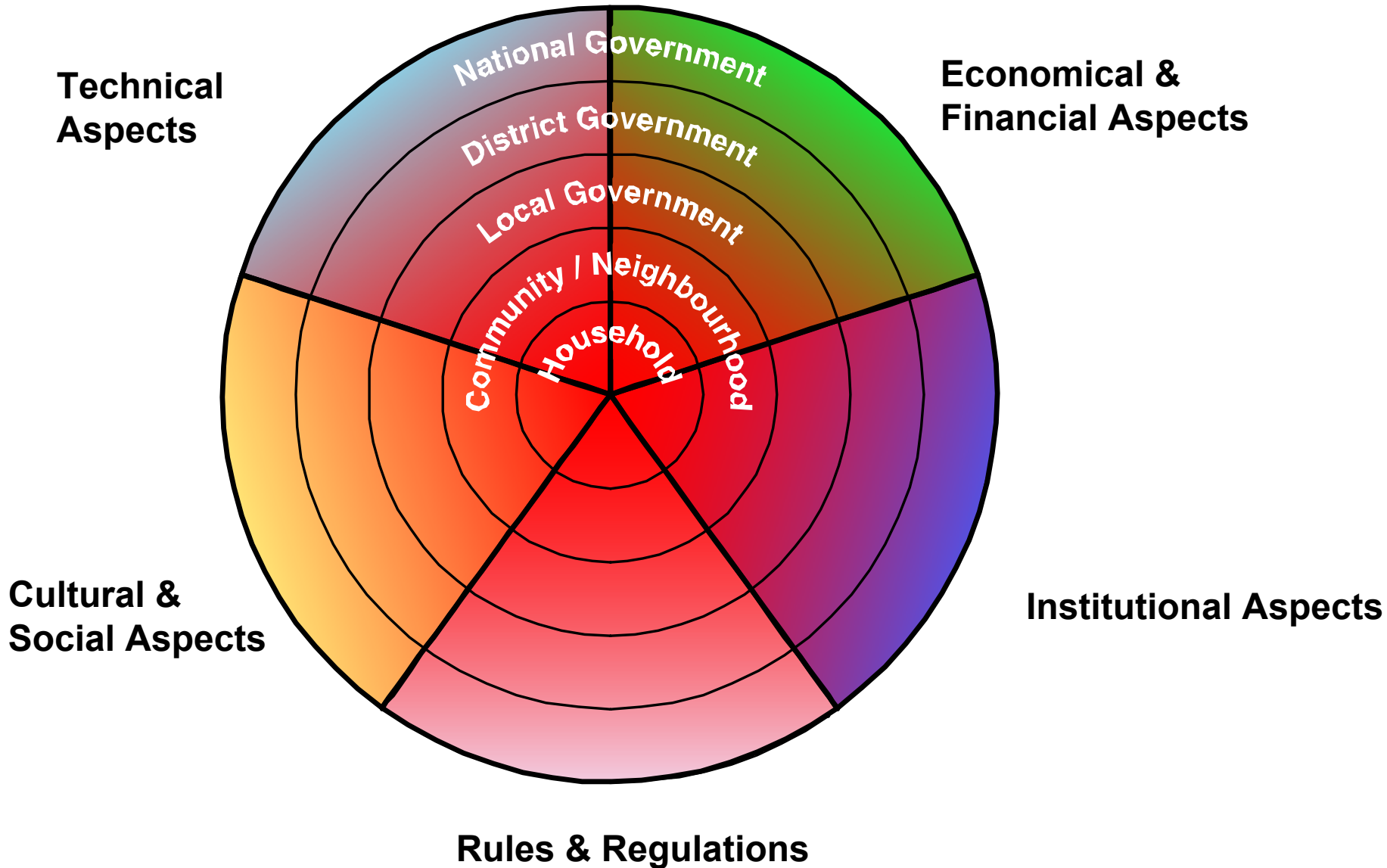
Principle Of Minimising Waste Transfer Across Circle Boundaries



Advantages of the HCES approach

- The approach balances human and environmental needs and is likely to be more sustainable than any model currently in use
- The basic concept and approach of the model is applicable in industrialised as well as developing countries

Various Aspects of the Household-Centered Environmental Sanitation Model



Future strategy of the WSSCC

- **Advocacy & communications**
WASH Campaign
- **Hygiene promotion**
Working Group
- **Environmental sanitation**
Development of tools for the implementation of people centred approaches to environmental sanitation

Thank you for your attention !

