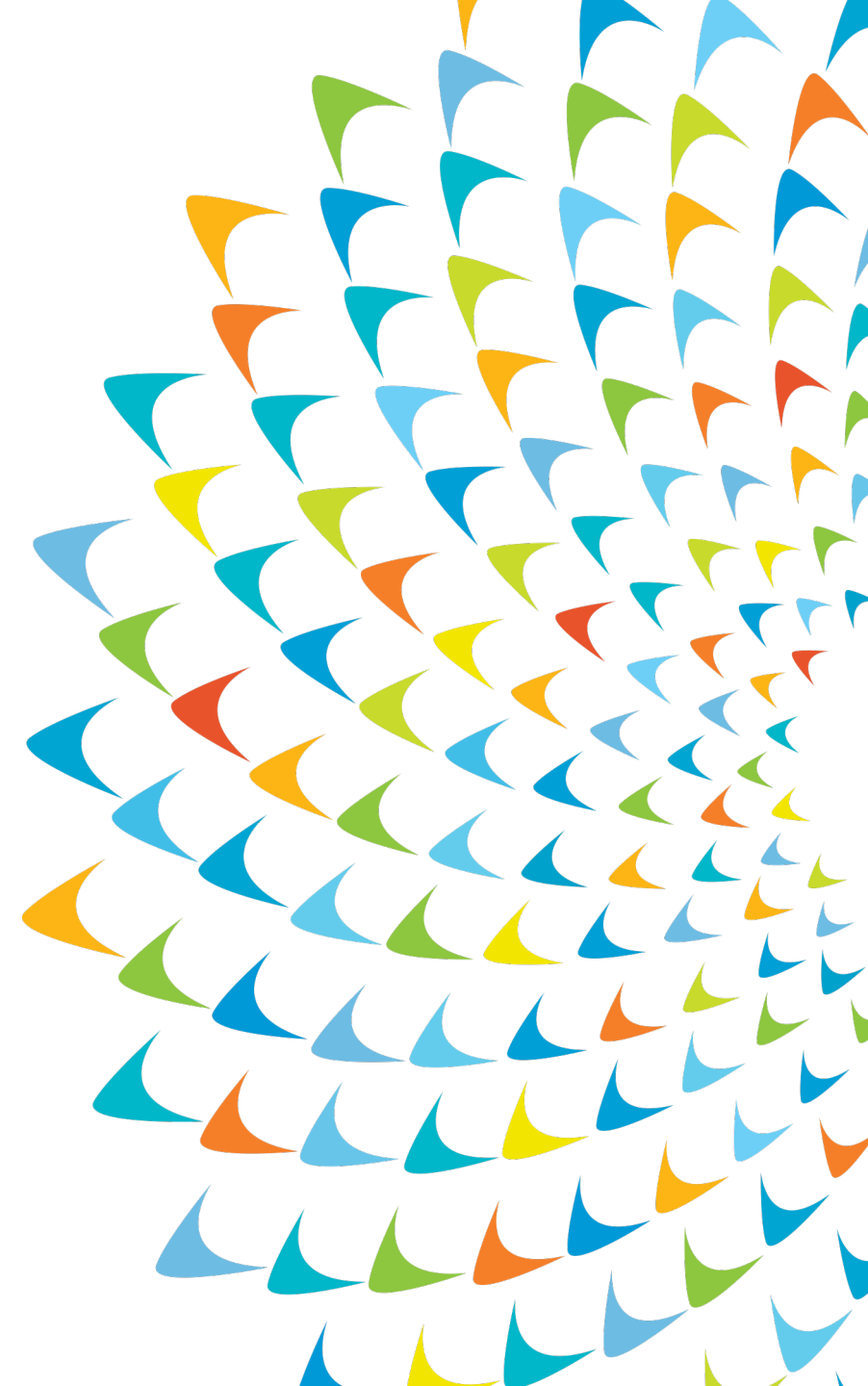




# What is CWIS?

Penny Dutton

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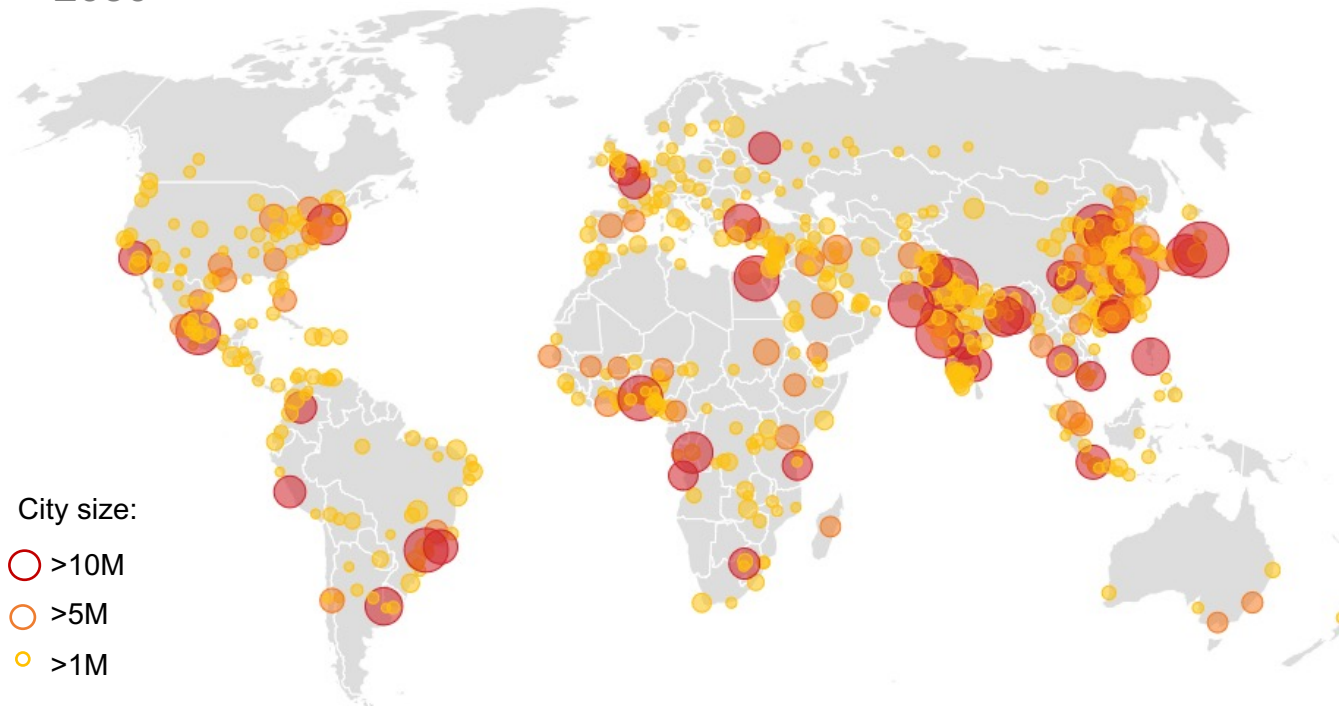




# The Urban Sanitation Challenge

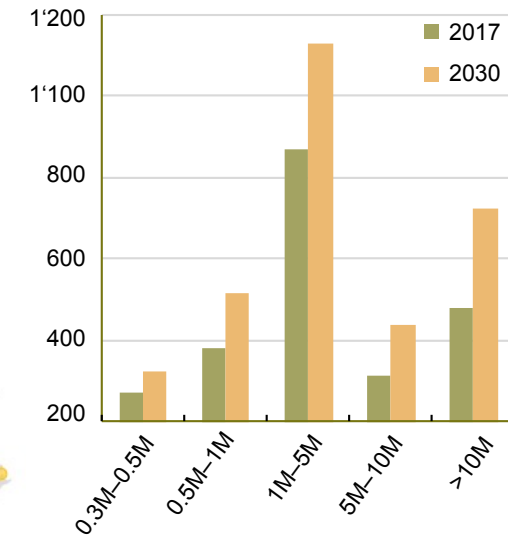
Cities and towns are growing...

2030



Source: The Economist, 4 Feb 2015

Global population in cities (M)



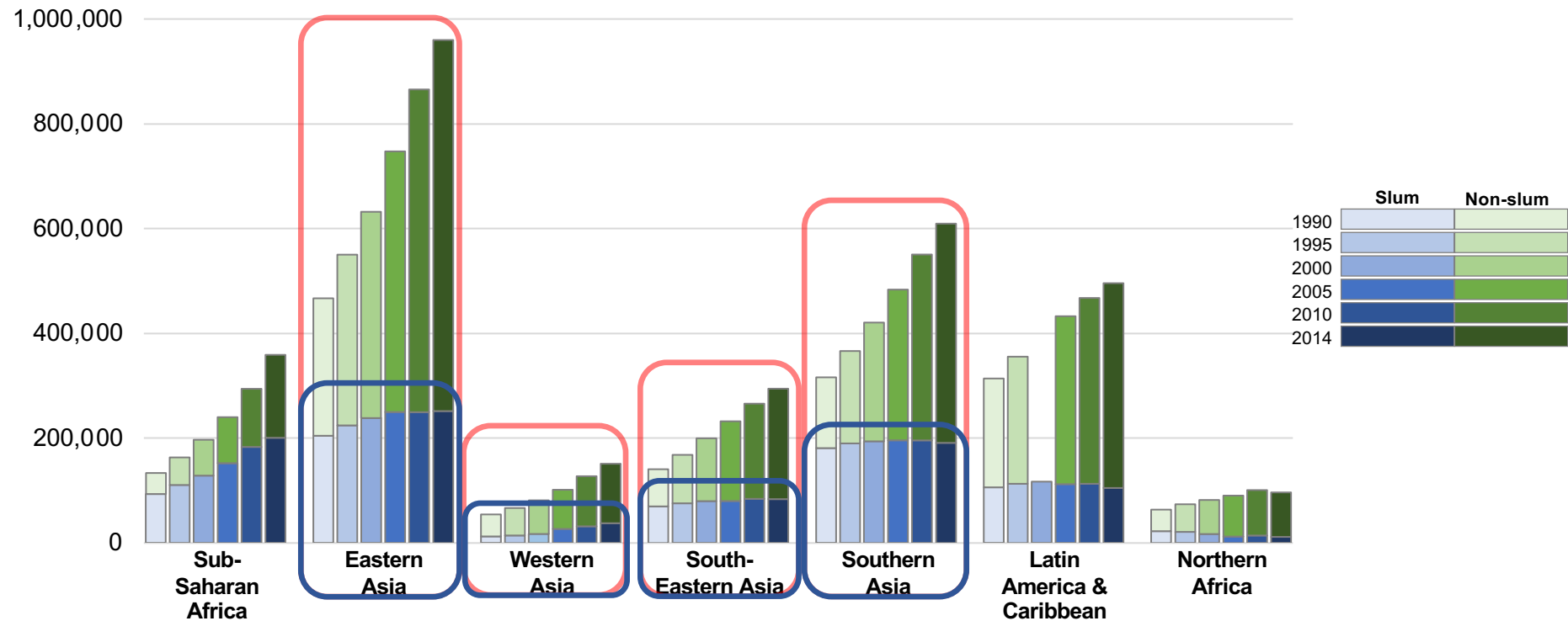
Source: UN, Department of Economic and Social Affairs, Population Division (2014): World Urbanization Prospects

Pacific urban population will double between 2015 and 2040



## ...and informal settlements are growing too

Urban and Slum Populations ('000)



Source: UN-Habitat, World Cities Report, 2016



# Urbanization and Density – Formal and Informal



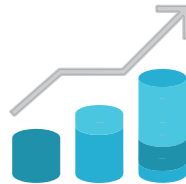
**Suva, Fiji**

# Key Sanitation Challenges in Towns and Cities

Inadequate sanitation services significantly impact:



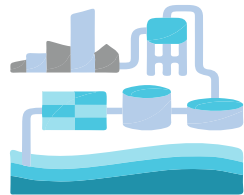
Quality of life  
for all  
residents



City and  
national  
economies



Investment,  
productivity and  
competitiveness



Water  
resources and  
environment



Real estate  
values



Public  
health



# Urbanization and Density – High Rise and Low Rise



**Port Moresby, PNG**

# Challenge of Low-Income Areas

May include



Absence of  
house or land  
tenure



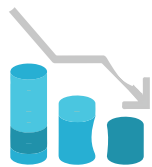
Poor access to  
basic municipal  
services



Non-  
permanent  
materials



High density  
and  
occupancy



Low  
incomes



Multi  
storey



**Mumbai, India**



**Port Moresby, PNG**



# Historical Approach to Urban Sanitation

Cities and development partners have invested in large urban sanitation programs, *but*

- mostly **drainage, wastewater** treatment and **sewerage** systems, with
  - weak poverty targeting
  - little focus on informal areas, onsite sanitation and Fecal Sludge Management
  - Limited involvement of the small-scale private sector

## Outcomes

- **Institutions, regulations** for onsite sanitation and FSM **remain weak**
- **Limited capacity** and resources to operate infrastructure investments
- **Operation and maintenance** of sewers and Waste Water Treatment Plants is poor.



Sewerage Construction, Denpasar, Indonesia



Sludge treatment facility, Kediri, Indonesia





# What Needs to Change

## Investments in Urban Sanitation Need to Focus On:



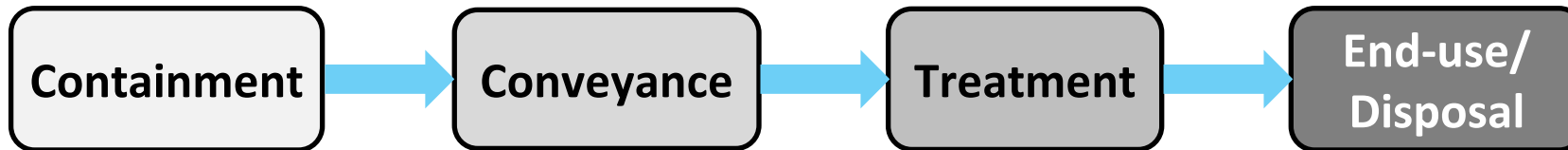
- **All people** achieve safe access to sanitation services



- **Sustainable sanitation services** – financially, environmentally, technically and socially.



- **Holistic sanitation policies, strategies, investments** addressing the whole sanitation service chain:



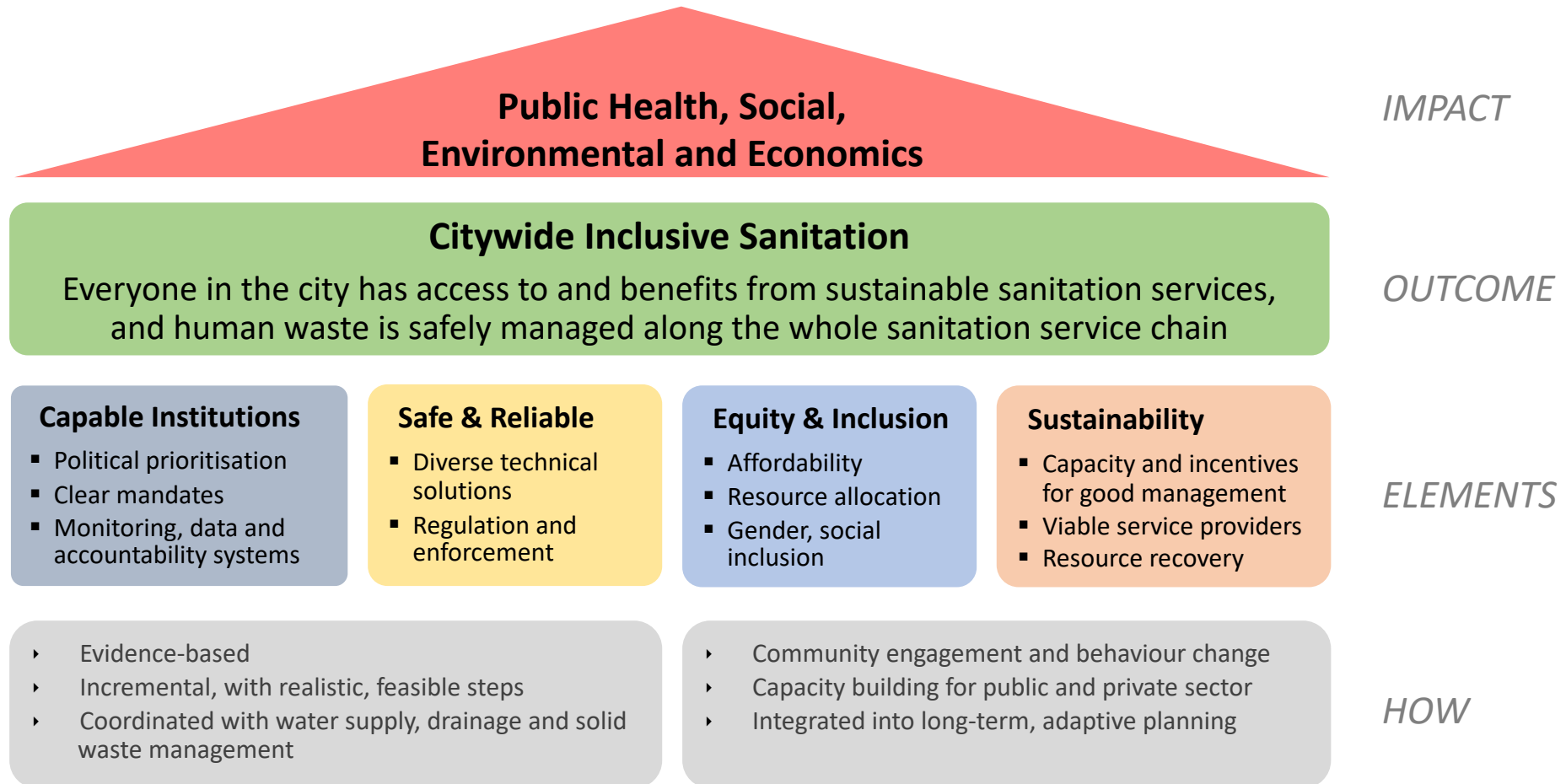
- **Institutional and regulatory change** to develop and new approaches and improve public and private institution's roles



- **Accountable systems and incentives** to monitor service performance and enable evidence-based strategic changes to optimize performance



# What is Citywide Inclusive Sanitation?





# In summary: Citywide Inclusive Sanitation ...

- ✓ Is based on evidence of how, why and where sanitation *services* are failing, or succeeding
- ✓ Includes all citizens, rich and poor, all genders and abilities, formal and informal settlements
- ✓ Addresses the entire sanitation service chain
- ✓ Involves mix of sewerred and non-sewerred services
- ✓ Coordinates sanitation with solid waste management, drainage, water supply, land-use management and housing
- ✓ builds institutional capacity, accountability and financing mechanisms for sustaining services

## and it is **NOT**:

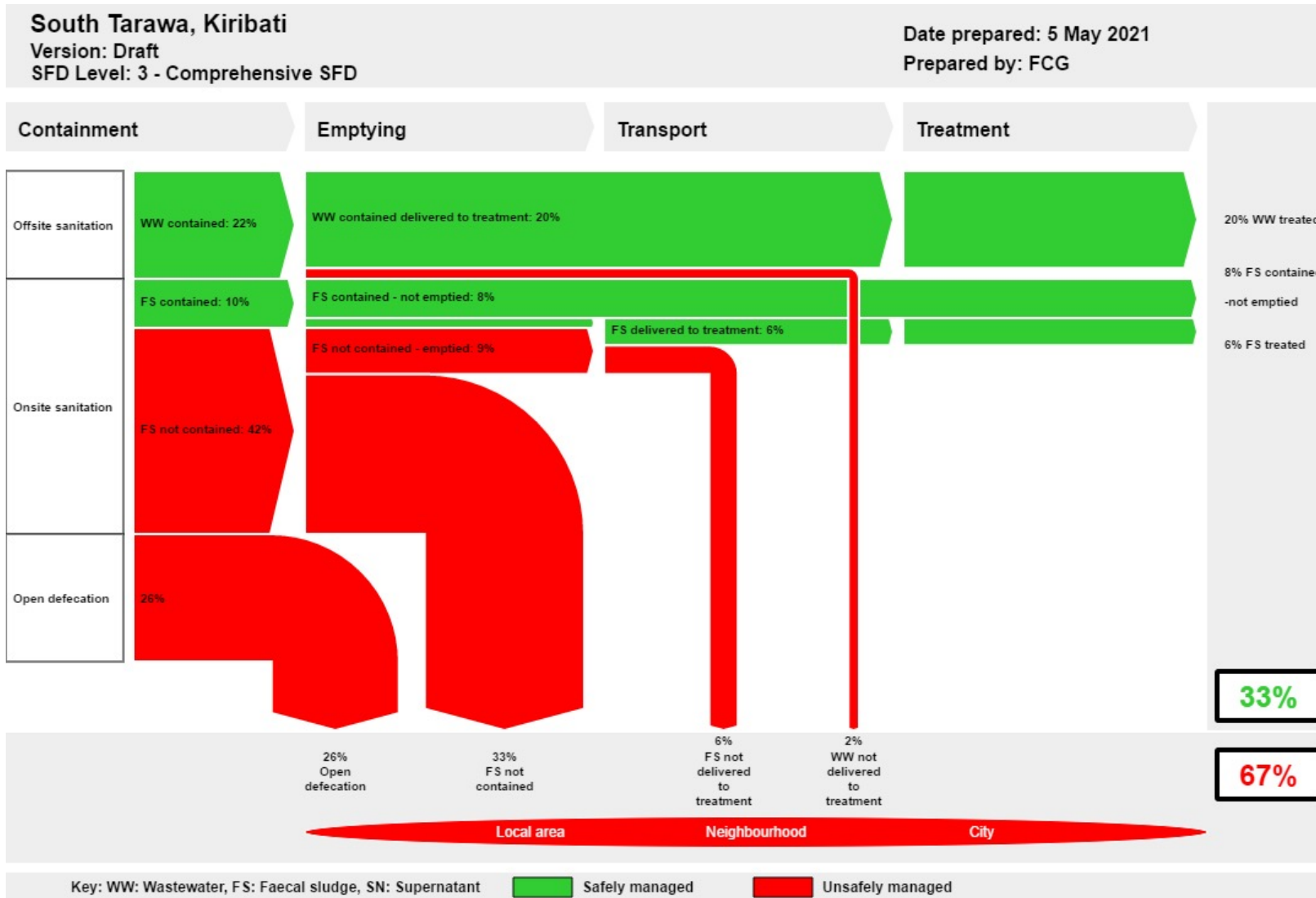
- ✗ Based on **assumptions** about what is needed
- ✗ Focused only on building **infrastructure**
- ✗ **Only** FSM, or on-site sanitation, or sewerage
- ✗ **Only** sanitation projects for slums



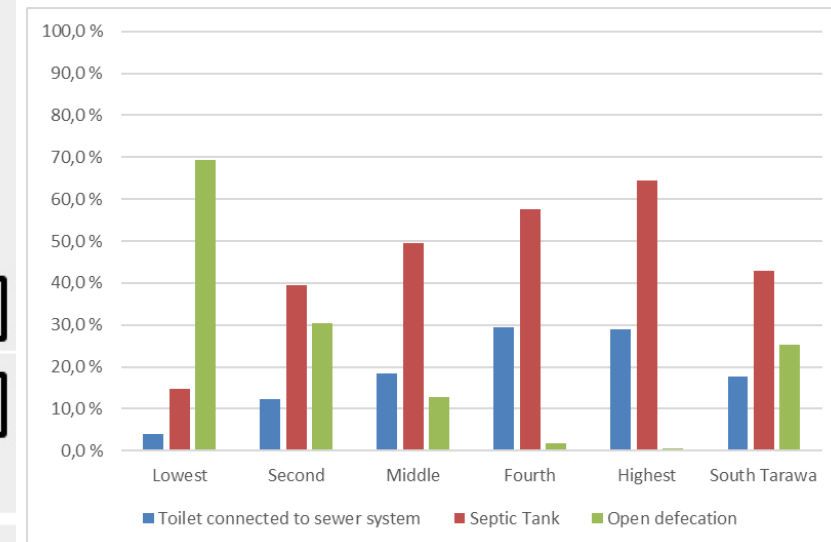
An aerial photograph of a tropical coastline. The image shows a long, narrow strip of land with a dense line of green vegetation and palm trees. The land is bordered by a shallow turquoise lagoon on one side and a deep blue ocean on the other. The water transitions from a light turquoise near the shore to a deep navy blue further out. The sky is filled with large, white, fluffy clouds. The overall scene is serene and picturesque.

# CWIS in South Tarawa

# CWIS in South Tarawa, Kiribati



- **Sanitation Road Map Addendum** – plan for sanitation for all of South Tarawa
- **South Tarawa Sanitation Project** – selected areas, financed by World Bank





# CWIS in South Tarawa

## **Inclusive and Accessible**

- Toilets for poor
- Accessible communal facilities
- Affordable sanitation services

## **Sanitation Mix**

- Sewerage – increasing connections
- On site sanitation – septic tanks, pit latrines, communal facilities

## **Institutional capacity**

- Strengthen utility capacity for O&M, desludging equipment
- Financing O&M, tariffs, subsidies
- Management of communal facilities

## **Monitoring**

