

SOLVING THE  
POST-ACUTE MORTALITY  
PUZZLE

# AGENDA

Overview

Matrix

Product

Implementation

Finance

Close

# OVERVIEW

# 2

OVERVIEW

MATRIX

PRODUCT

IMPLEMENTATION

FINANCE

CLOSE

9,0000

OVERVIEW

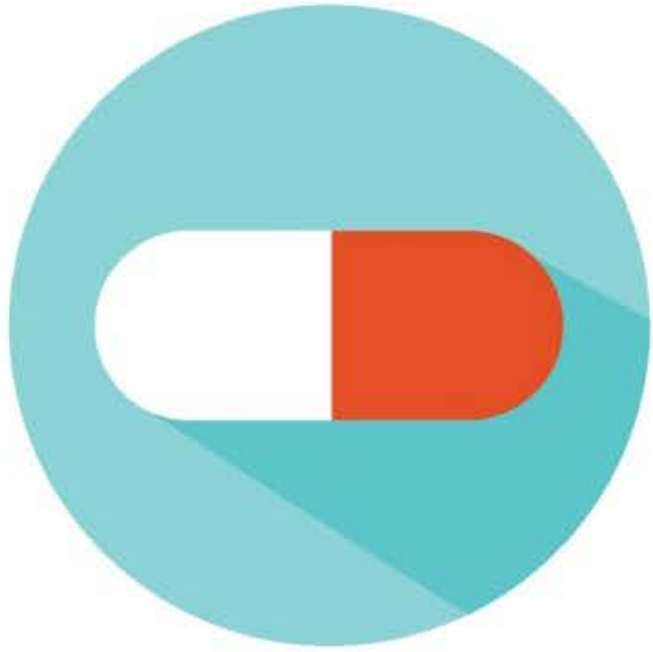
MATRIX

PRODUCT

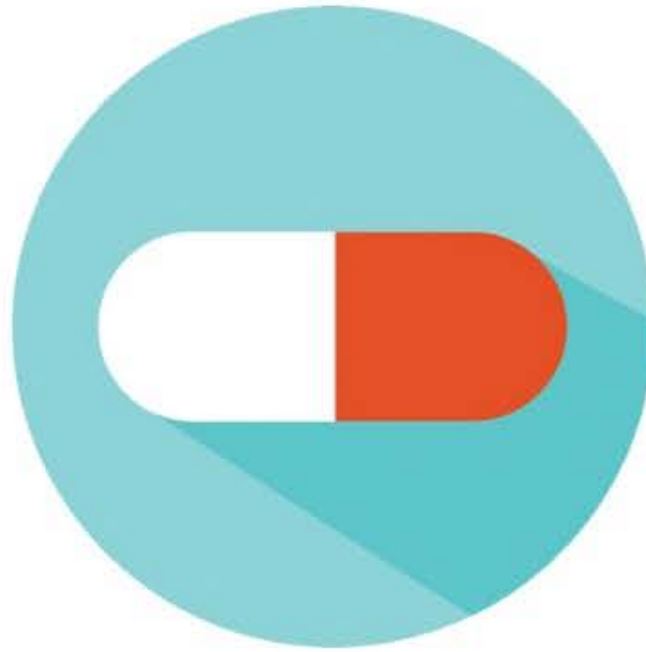
IMPLEMENTATION

FINANCE

CLOSE



OVERVIEW	MATRIX	PRODUCT	IMPLEMENTATION	FINANCE	CLOSE
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### PROS:

- Fast
- Culturally integrated
- Easy to administer

### CONS:

- Antimicrobial resistance
- Cost of drug
- Doesn't address leaky gut issues

OVERVIEW

MATRIX

PRODUCT

IMPLEMENTATION

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CLOSE

Average total price of antibiotic prescription:  
2404 Ksh/person (\$23.15/person)

**3% of poorest family annual income**  
**0.8% of wealthiest family annual income**

OVERVIEW

MATRIX

PRODUCT

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### PROS:

- Individualized care
- Long term solution
- Trustworthy

### CONS:

- Too few doctors
- Patients need transportation
- Requires change of

OVERVIEW

MATRIX

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CLOSE

Urban 20min hospital visit: 21366 Ksh/visit (\$205.74/visit)  
Rural 20min hospital visit: 15691 Ksh/visit (\$151.09/visit)

**22% of poorest family annual income**  
**7% of wealthiest family annual income**

OVERVIEW	MATRIX	PRODUCT	IMPLEMENTATION	FINANCE	CLOSE
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### PROS:

- Long term
- No harmful side effects
- Cheap

### CONS:

- Leaky gut
- Long timeframe
- Doesn't affect viral or bacterial causes

OVERVIEW

MATRIX

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Total annual cost per person: 1460 Ksh/person (\$14.60/person)

2% of poorest family annual income  
0.5% of wealthiest family annual income

OVERVIEW	MATRIX	PRODUCT	IMPLEMENTATION	FINANCE	CLOSE
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MATRIX

	Cost	Accessibility	Cultural Impact	Effectiveness	Sustainability
Option 1	Yellow	Green	Green	Green	Red
Option 2	Yellow	Red	Green	Yellow	Red
Option 3	Green	Yellow	Yellow	Yellow	Green

OVERVIEW	MATRIX	PRODUCT	IMPLEMENTATION	FINANCE	CLOSE
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OVERVIEW	MATRIX	PRODUCT	IMPLEMENTATION	FINANCE	CLOSE
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PRODUCT



## PROBIOTIC POWDER

replenishes  
healthy  
bacteria in  
the gut

## L-GLUTAMINE POWDER

necessary  
for growth  
+ repair of  
gut lining

## DIGESTIVE ENZYMES

essential for  
digestion +  
nutrient  
absorbtion

OVERVIEW

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## ELECTROLYTE POWDER

sodium  
chloride  
potassium  
calcium  
magnesium

OVERVIEW

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**13 ESSENTIAL VITAMINS • ZINC • IRON**

OVERVIEW

MATRIX

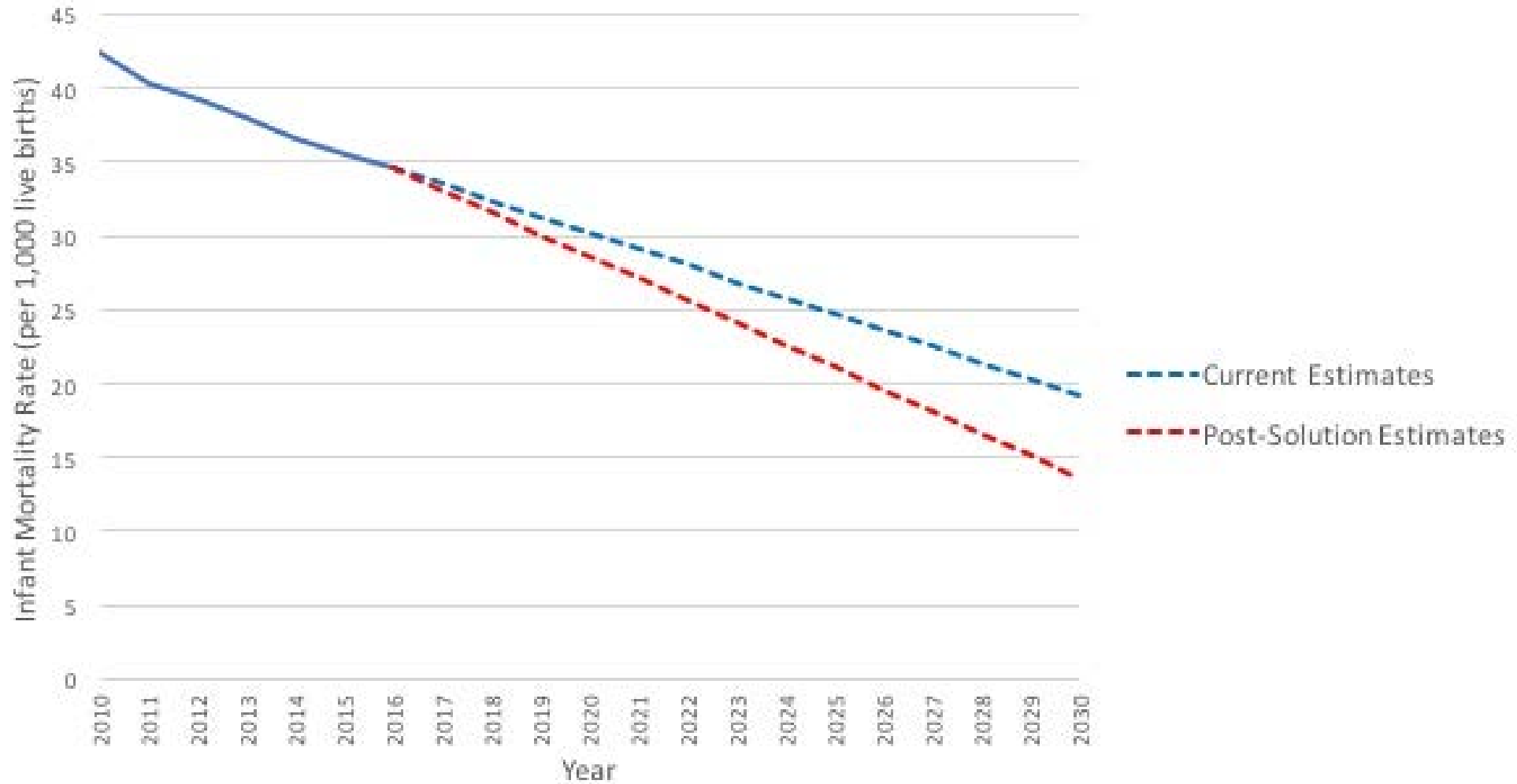
PRODUCT

IMPLEMENTATION

FINANCE

CLOSE

# Infant Mortality Rate Estimates in Kenya



OVERVIEW

MATRIX

PRODUCT

IMPLEMENTATION

FINANCE

CLOSE

IMPLEMENTATION



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OVERVIEW	MATRIX	PRODUCT	IMPLEMENTATION	FINANCE	CLOSE
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OVERVIEW	MATRIX	PRODUCT	IMPLEMENTATION	FINANCE	CLOSE
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MAIZE: 3.7 million tons

WHEAT: 1.9 m

RICE: 0.5 m

2016

OVERVIEW	MATRIX	PRODUCT	IMPLEMENTATION	FINANCE	CLOSE
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# U G A L I

OVERVIEW

MATRIX

PRODUCT

IMPLEMENTATION

FINANCE

CLOSE



# U G A L I

**Cornmeal porridge | Staple food of Kenya | 38% of Kenyans' annual calories**

OVERVIEW	MATRIX	PRODUCT	IMPLEMENTATION	FINANCE	CLOSE
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# NATIONAL CEREALS AND PRODUCE BOARD

Leaders in Grain Marketing and Management



**ABH**

*Pharma Inc*  
YOUR DIRECT MANUFACTURING PARTNER

OVERVIEW

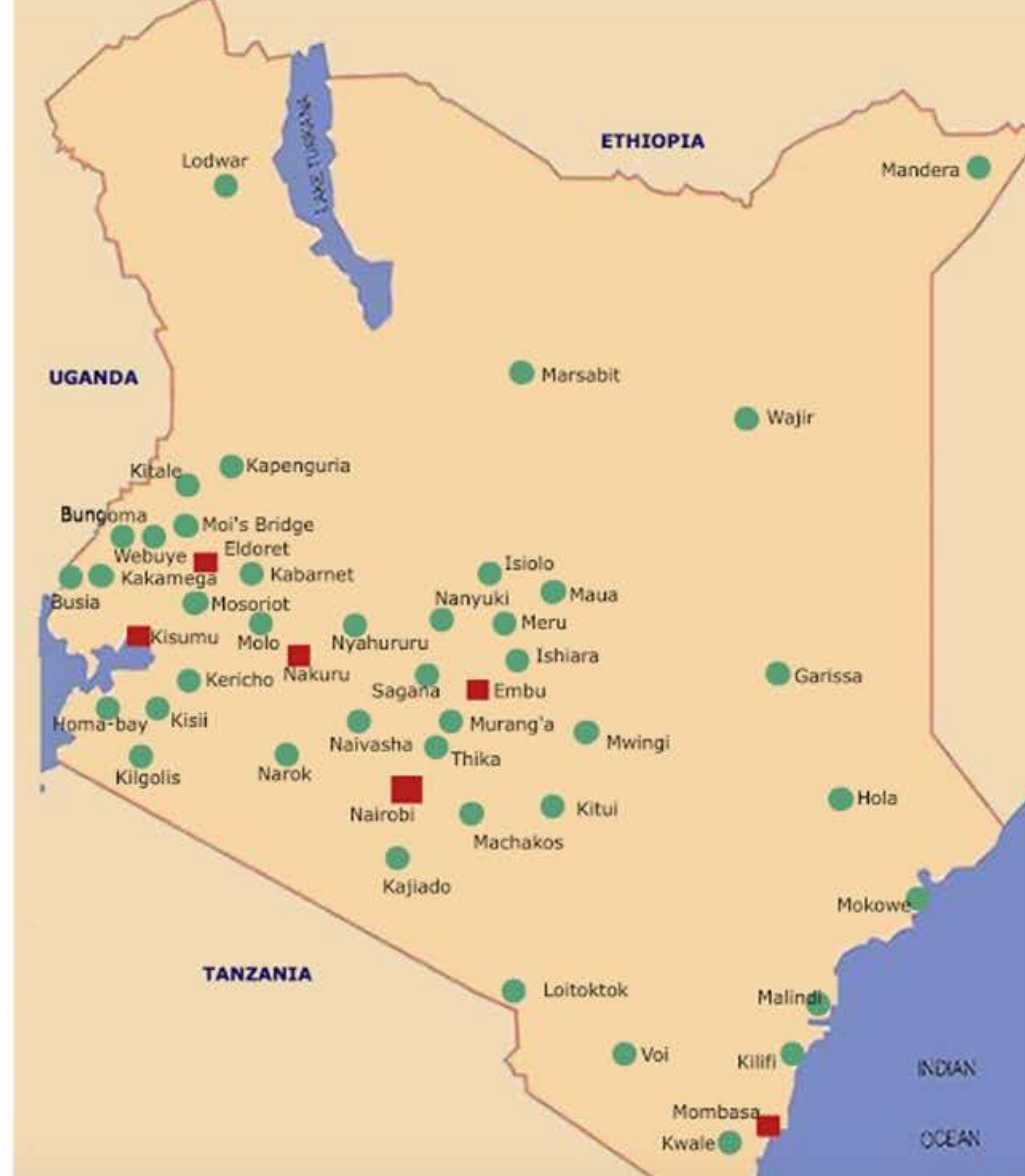
MATRIX

PRODUCT

IMPLEMENTATION

FINANCE

CLOSE



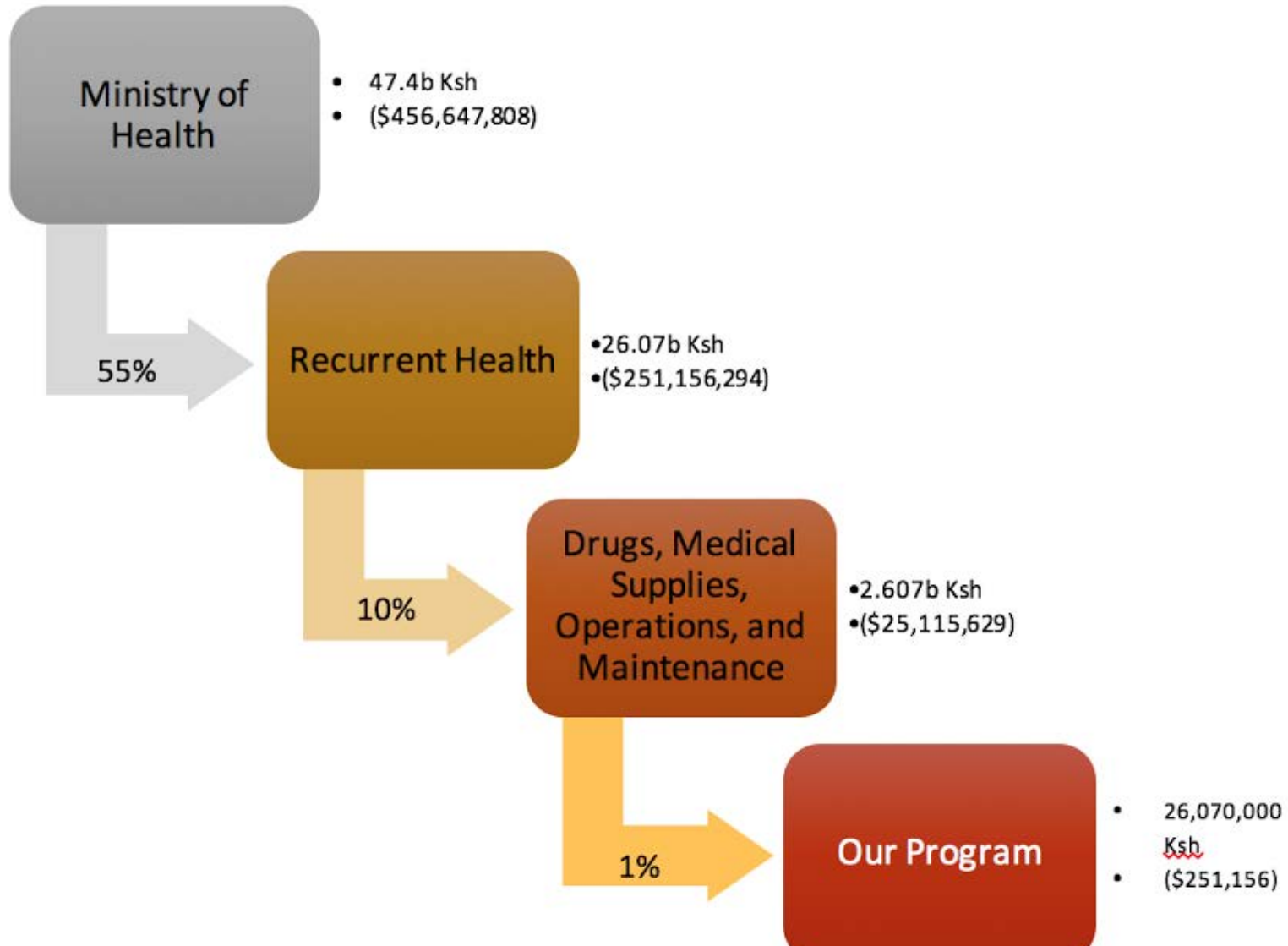
OVERVIEW	MATRIX	PRODUCT	IMPLEMENTATION	FINANCE	CLOSE
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OVERVIEW	MATRIX	PRODUCT	IMPLEMENTATION	FINANCE	CLOSE
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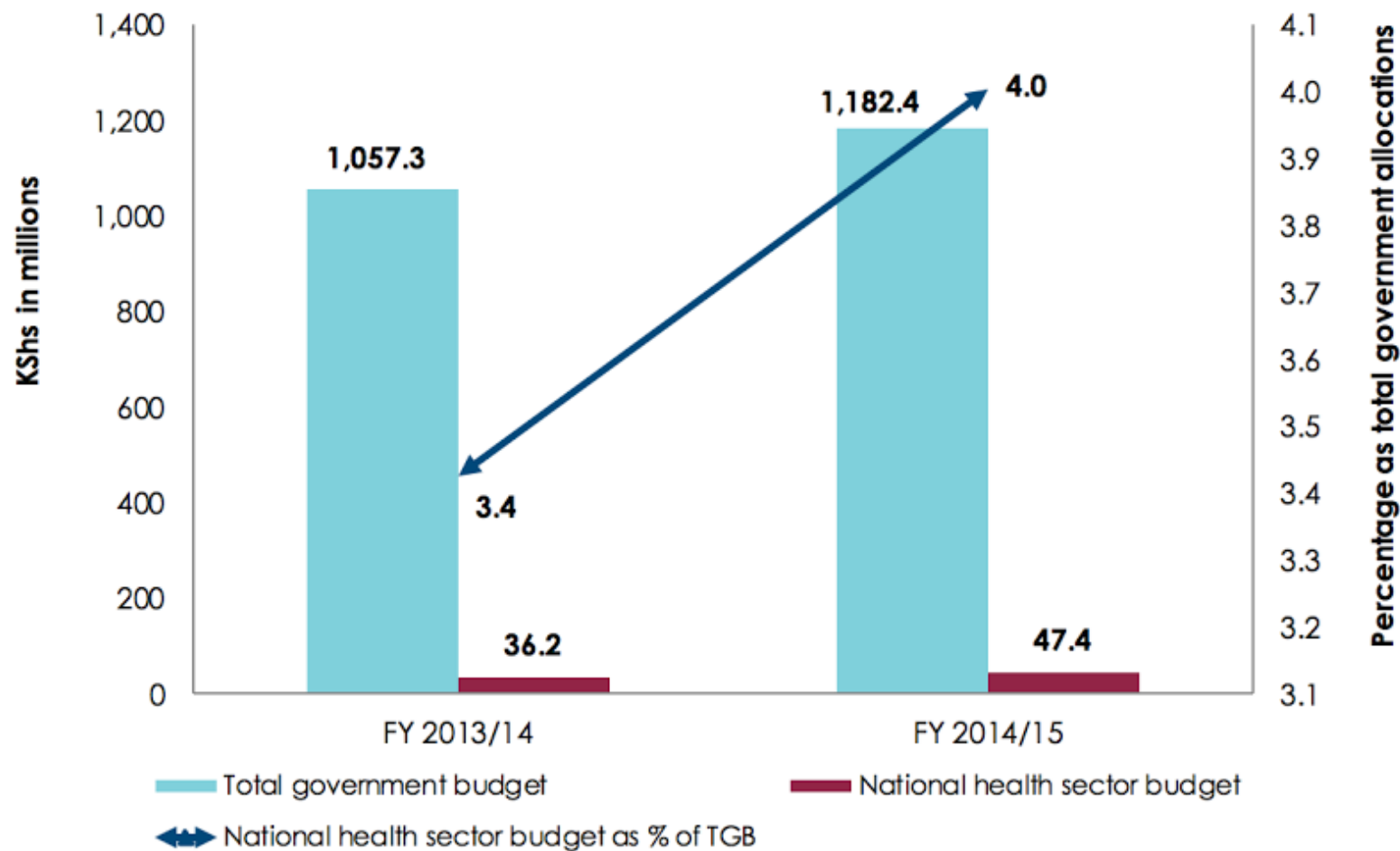
FINANCE





OVERVIEW	MATRIX	PRODUCT	IMPLEMENTATION	FINANCE	CLOSE
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**Figure 1: Health Budget Allocation Pattern (FYs 2013/14–2014/15)**

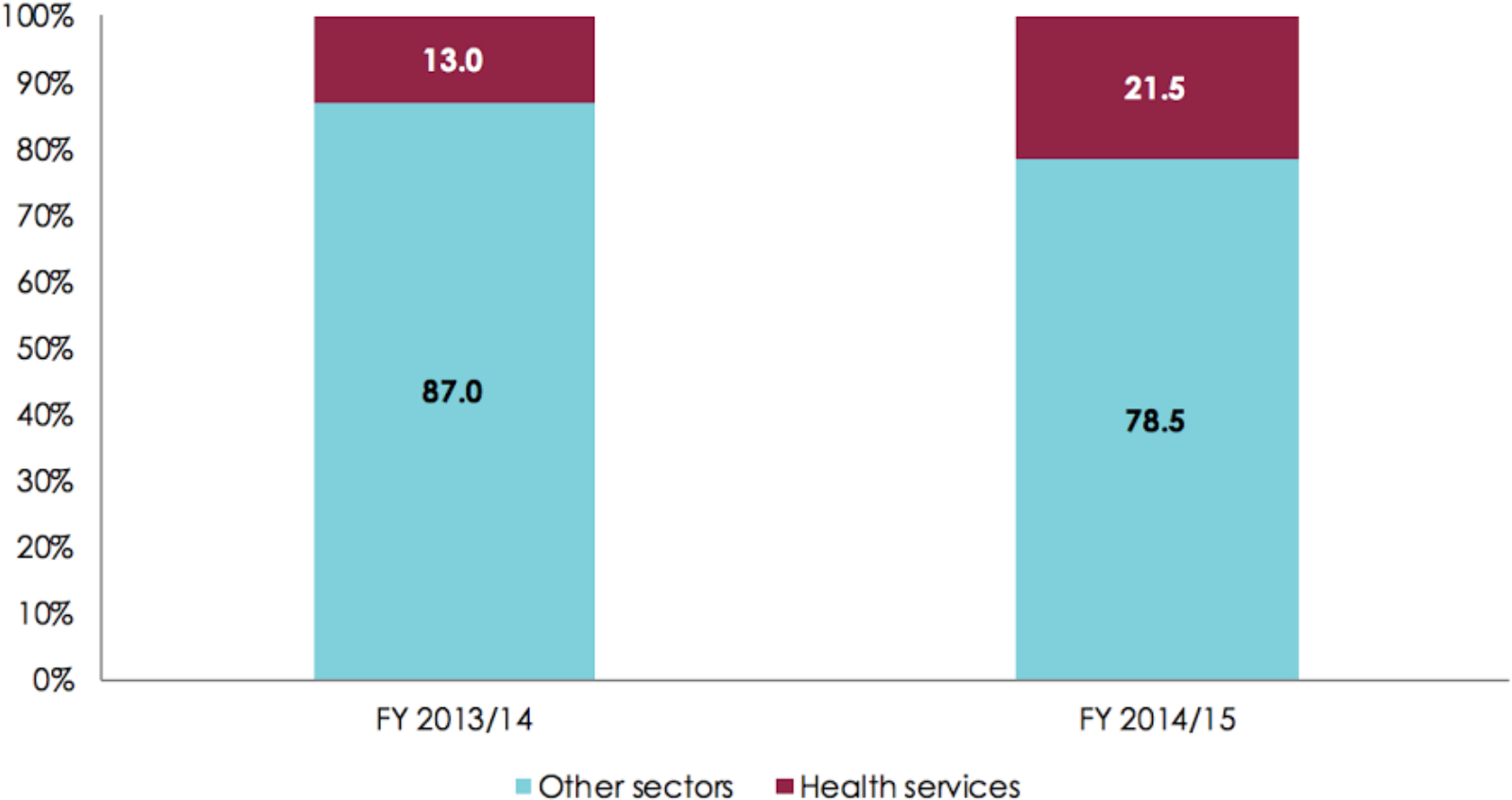


Source: GOK, 2013a; GOK, 2013b; GOK, 2014a; GOK, 2014b

OVERVIEW	MATRIX	PRODUCT	IMPLEMENTATION	FINANCE	CLOSE
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**Figure 5: Health Services Allocations as Percent of County Budgets, FYs 2013/14 and 2014/15**



OVERVIEW	MATRIX	PRODUCT	IMPLEMENTATION	FINANCE	CLOSE
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# 9,000 children ≤ 5 years old die annually

- Costs 1516.94 Ksh (\$14.60) to feed each child annually
- 15,1516.90 Ksh x 9,000 Children = 13,652,460 Ksh to feed children (\$131,000)
- (Cost to feed children) / Total Program budget = % of budget spent on creating treatment
- 13,652,460 Ksh / 26,070,000 Ksh = 0.5236
- 52.36% of budget spent on treatment
- 47.64% cushion for other expenses

OVERVIEW	MATRIX	PRODUCT	IMPLEMENTATION	FINANCE	CLOSE
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Tax  
Break

+

Transportation



47.64%

OVERVIEW	MATRIX	PRODUCT	IMPLEMENTATION	FINANCE	CLOSE
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# APPENDIX

# SLIDE

[Increase in Health Spending](#)

[Budget Surplus](#)

[Supplement Facts](#)

[Development Health Budget](#)

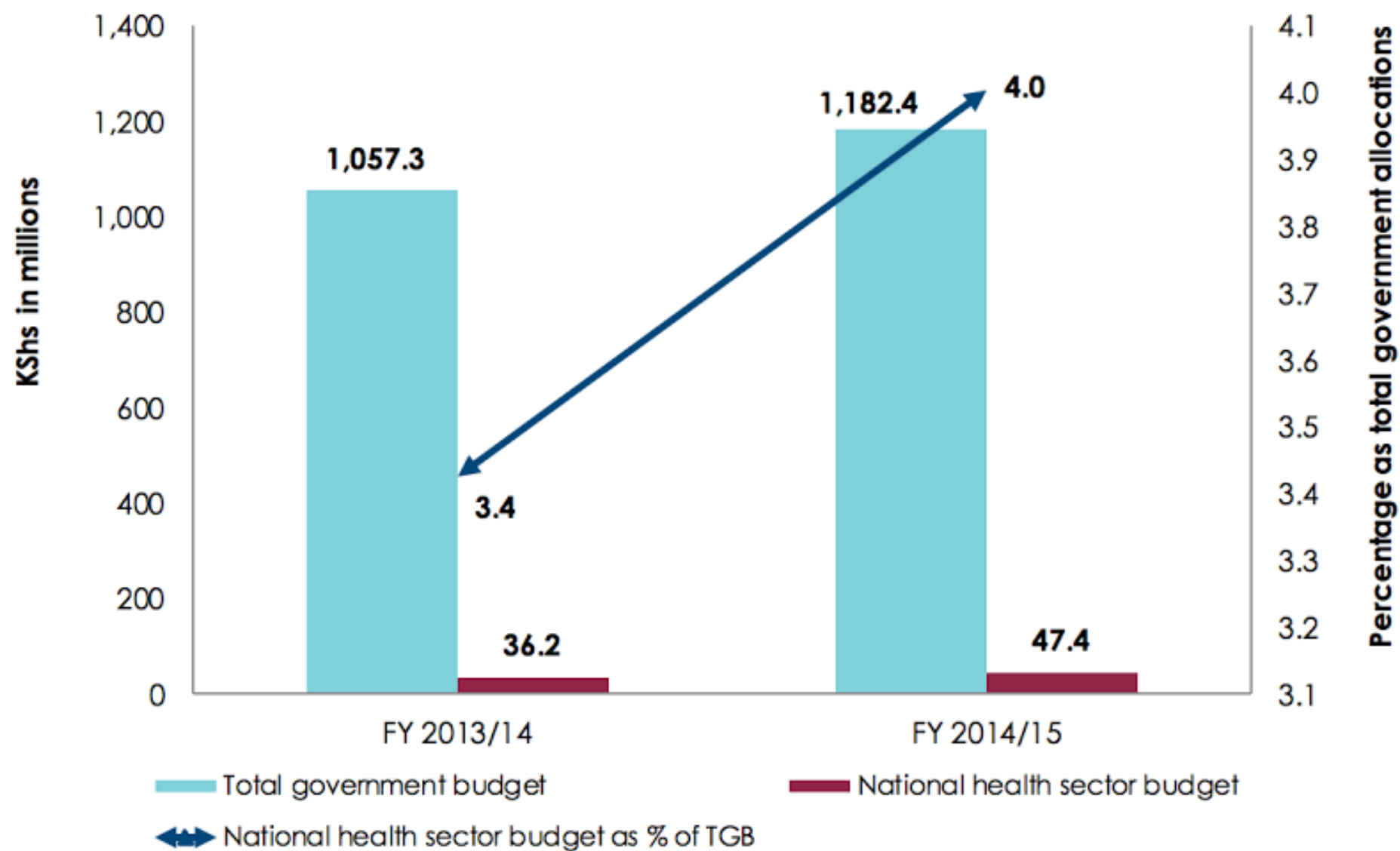
[County Health Care Spending](#)

[Infant Mortality Rate Estimates](#)

[Division Ministry of  
Health Funding](#)

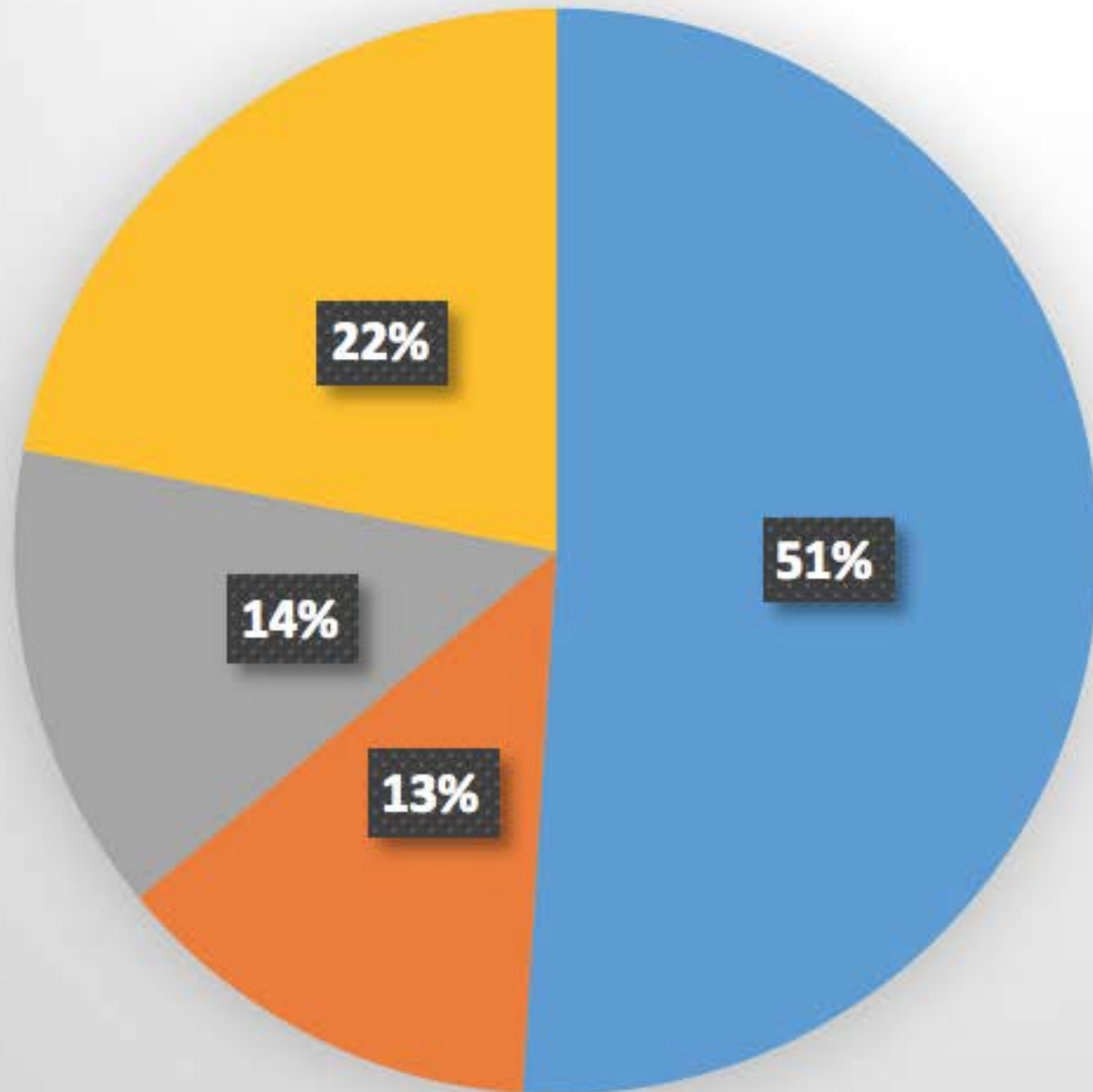
[Recurrent Health Budget](#)

**Figure 1: Health Budget Allocation Pattern (FYs 2013/14–2014/15)**



Source: GOK, 2013a; GOK, 2013b; GOK, 2014a; GOK, 2014b

# Development Health Budget

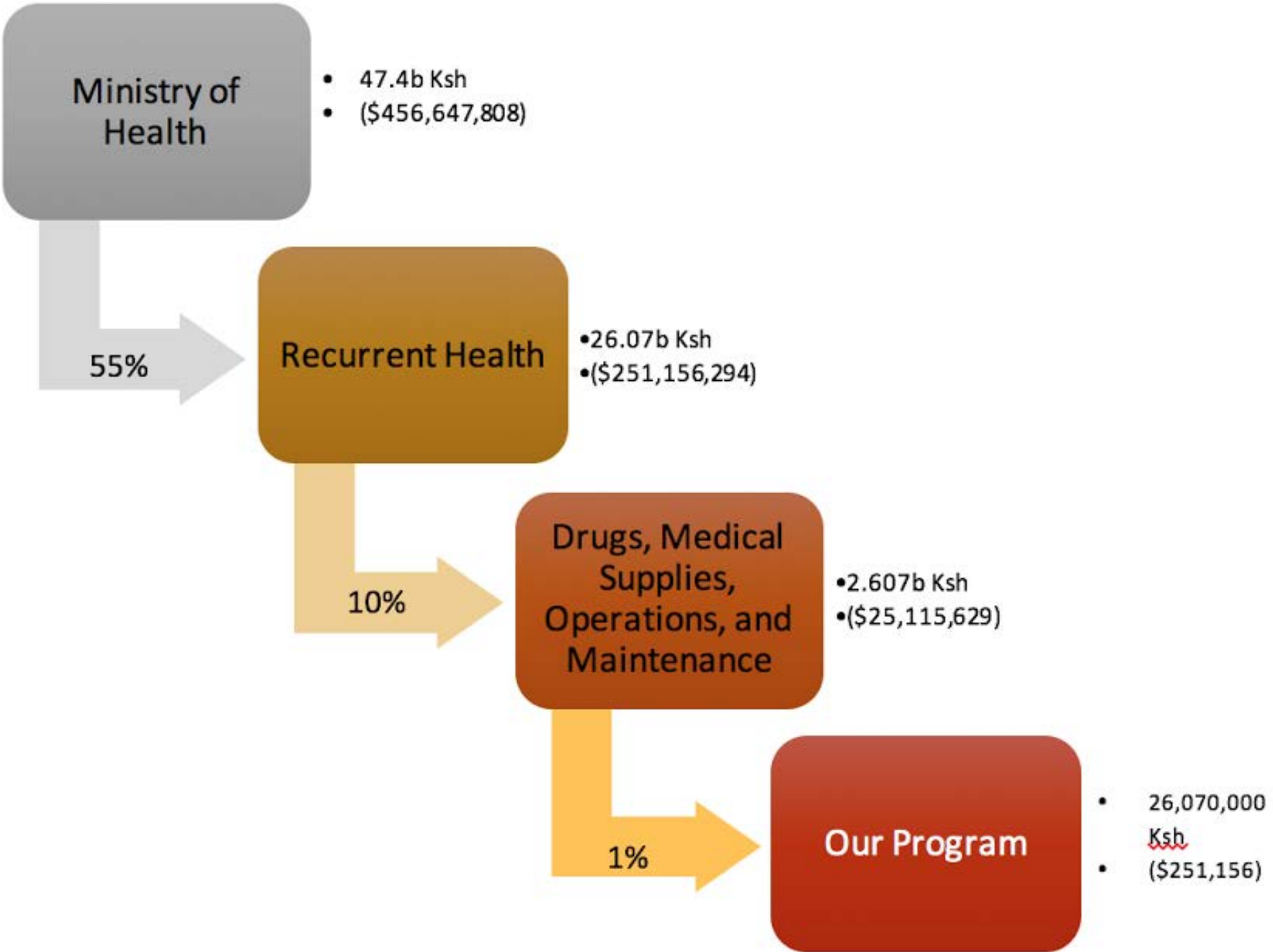


■ Construction of Facilities

■ Vehicles including Ambulances

■ Medical Equipment

■ Patient Rehabilitation



Tax  
Break

+

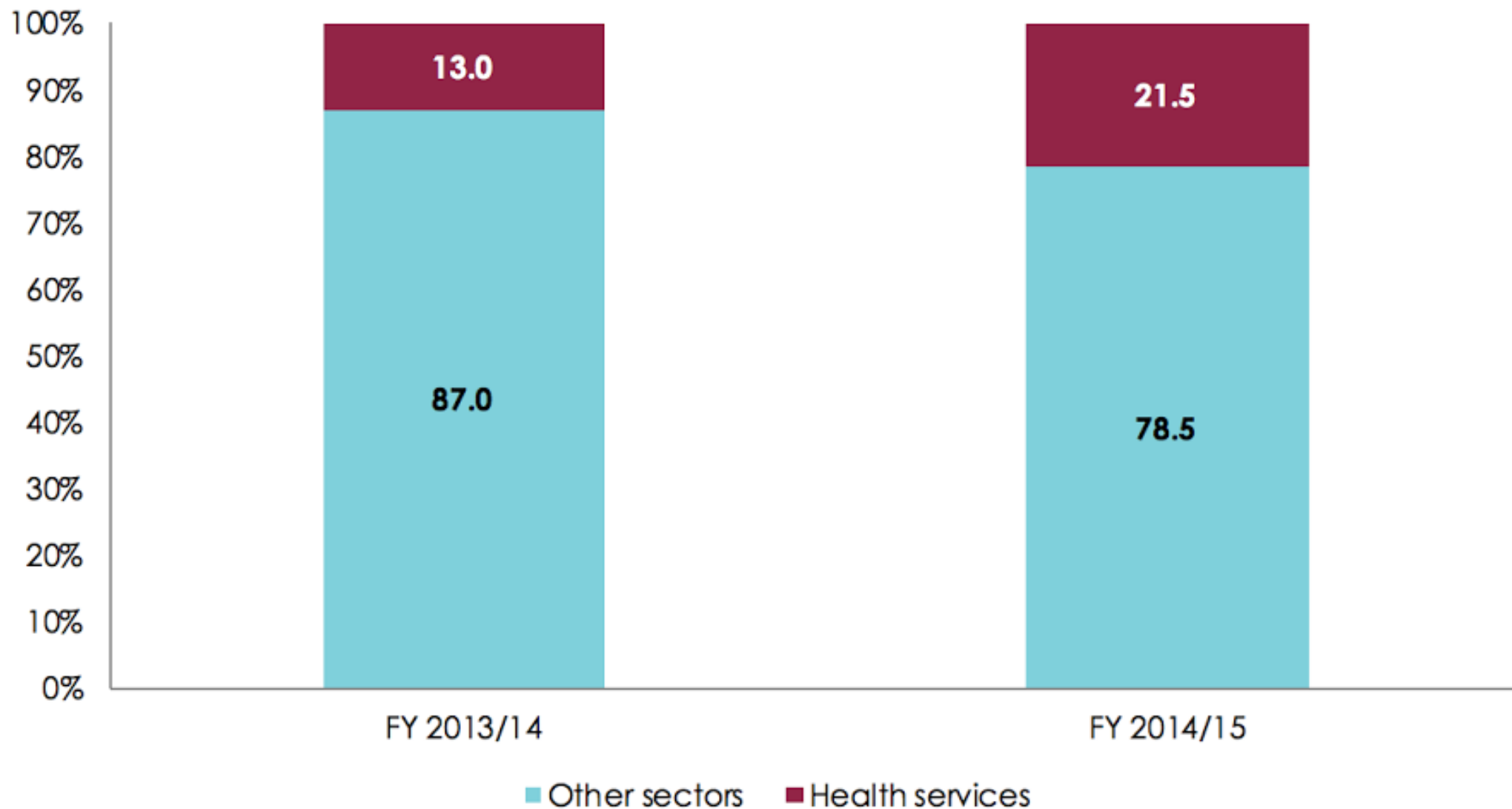
Transportation



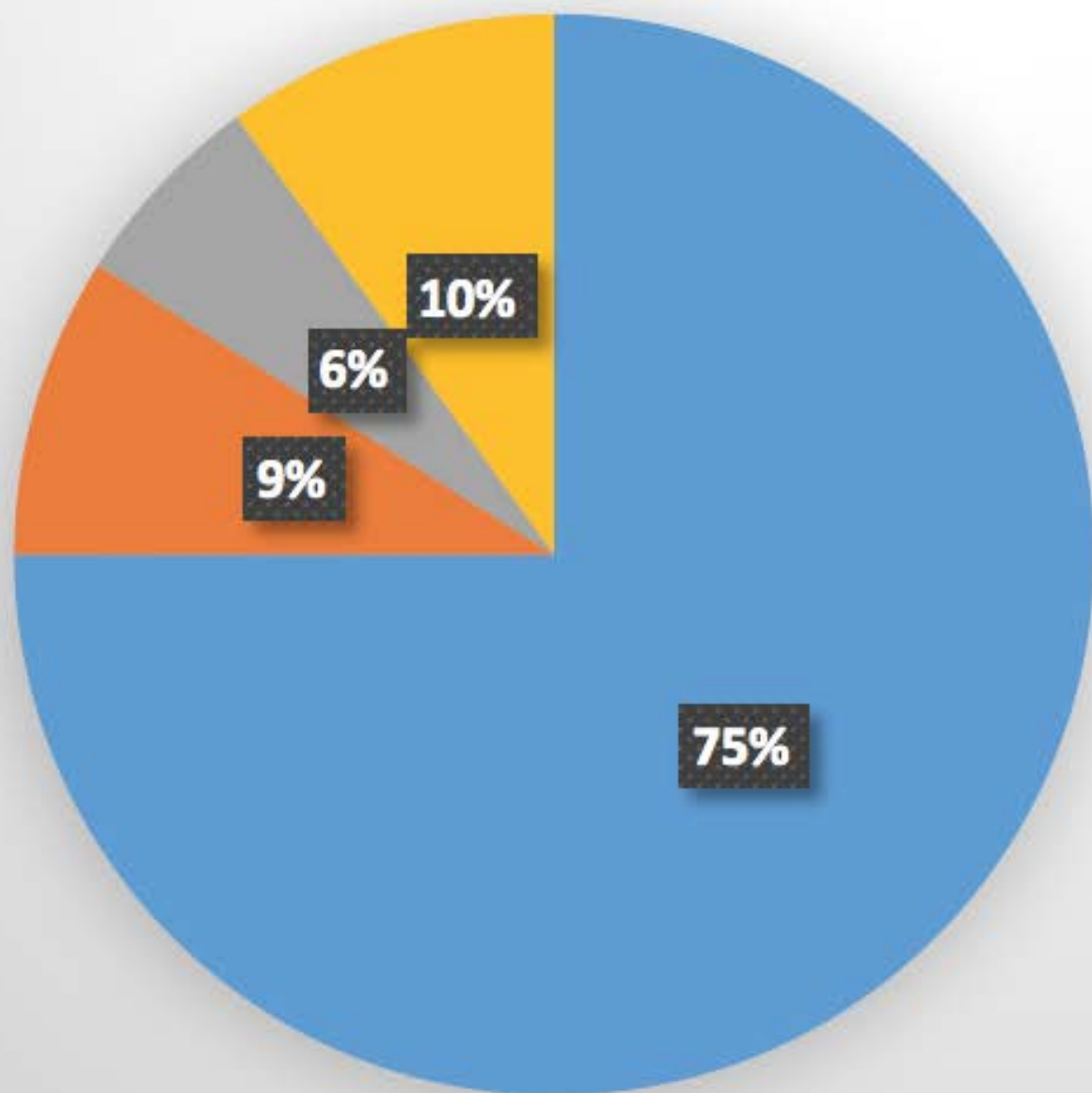
47.64%



**Figure 5: Health Services Allocations as Percent of County Budgets, FYs 2013/14 and 2014/15**



# Recurrent Health Budget



■ Semiautonomous Government Agencies

■ Headquarters and Hospital Staff

■ Internship Programme

■ Drugs, Medical Supplies, Operations, and Maintenance

Legend Entr

# Supplement Facts

Serving Size 1 Tablet

Serving Per Container 180

% Daily Values for  
Children 1 through  
5 Years of Age .

Calories	10	
Total Carbohydrates	3g	2%*
Total Sugars	3g	†
Probiotic Proprietary Blend	50 billion cfu	†
Digestive Enzyme Blend	100 mg	†
L-Glutamine	1000 mg	†
Vitamin A	1,300 IU	100%
Vitamin C	25 mg	107%
Vitamin D	600 IU	100%
Vitamin E	10 IU	100%
Thiamine	0.5 mg	100%
Riboflavin	0.5 mg	105%
Niacin	8 mg	111%
Pantothenic Acid	3 mg	100%
Vitamin B6	0.5 mg	100%
Biotin	12 mcg	107%
Folate	200mcg	100%
Vitamin B-12	1 mcg	107%
Zinc	5 mg	107%
Iron	10 mg	100%
Sodium	300mg	80%
Chloride	500mg	75%
Potassium	200mg	50%
Calcium	200mg	50%
Magnesium	100mg	50%

\*Percent Daily Values are based on a 1000 calorie diet

† Daily Value not established

# Infant Mortality Rate Estimates in Kenya

