



THE NATIONAL
RESEARCH INSTITUTE
PAPUA NEW GUINEA

The 2017 PNG UPDATE

Situational Analysis of UBE Main Indicators of Gulf, Hela and Southern Highlands Provinces

Name of presenter

DR. KILALA DEVETTE-CHEE

Universal Basic Education Research Program (UBERP) Objectives

1. Report national, provincial, and district performances and progress towards the goal of Universal Basic Education (UBE) using a core set of access, retention and quality indicators on a biannual basis.
2. Investigate factors contributing to poor performance on the one hand, and the catalysts for progress on the other.
3. Work with provinces and districts to identify and contextualize impediments to access, quality and retention, identify effective interventions, develop indicators for measuring outcomes, design plans to address the barriers, and support provinces and districts by documenting changes resulting from the implementation of their strategies.

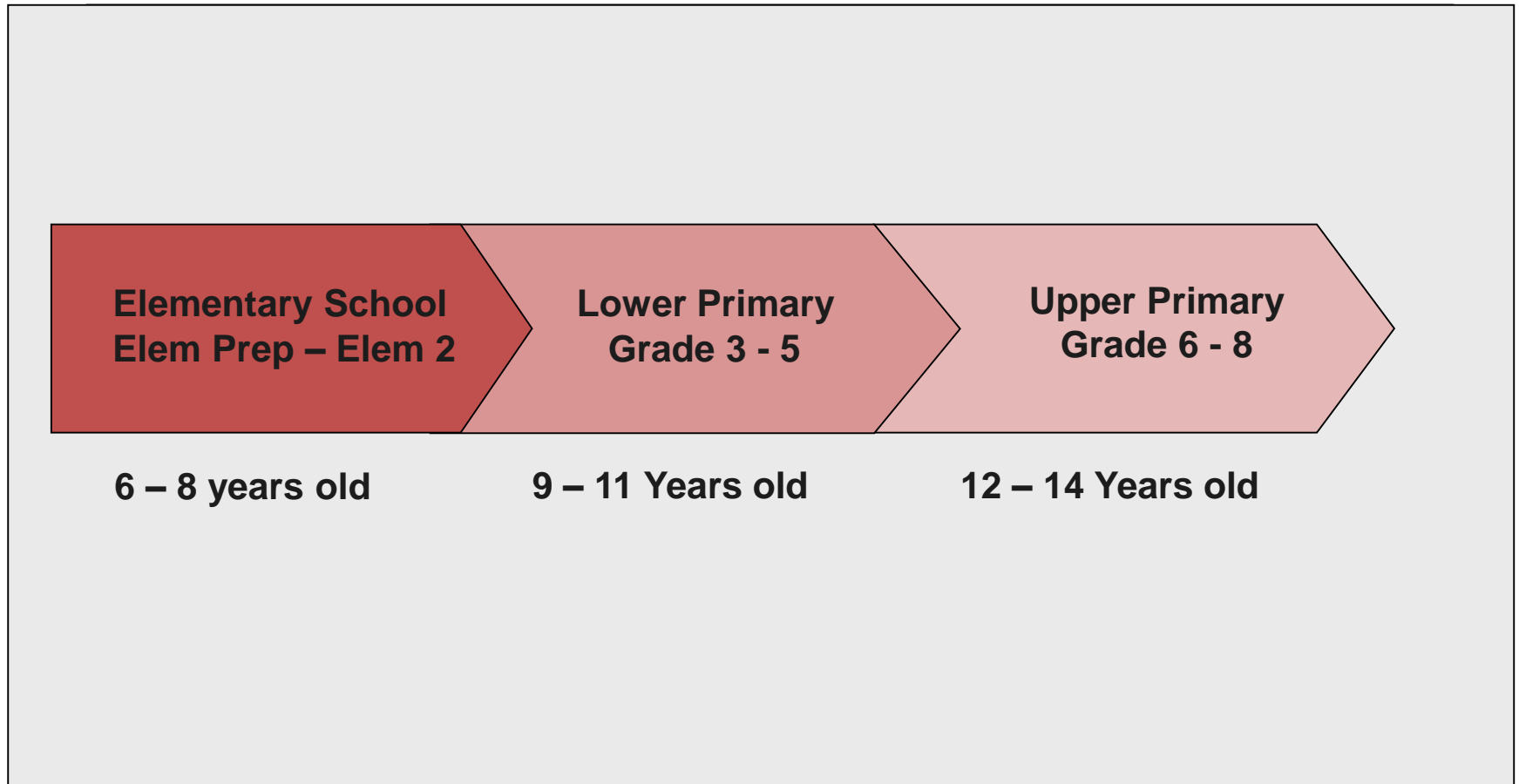
Why- Universal Basic Education

- Ensure that Every Citizen Acquires a Quality Basic Education is an Important National Goal. (2nd MDG).
- It is a Building Block for ones own Personal Development, but also the family, the community and the Country.
- Being Literate and Knowledgeable enables one to improve ones health status, increase income, participate more effectively in democratic processes.

What is Universal Basic Education?

- Basic Education Curriculum is to have all citizens with basic skills of literacy, numeracy and some general knowledge from having a basic education.
- The Number of Years Basic Education vary from country to country. Some four years, some six years, others twelve years.
- In PNG, it is nine years; three years elementary and six years of primary.

NINE YEARS BASIC EDUCATION MODEL IN PAPUA NEW GUINEA



Definition of UBE in PNG

All Children should enter elementary prep at the age of 6 years.

All children should complete the elementary and primary cycles of education that constitute a basic education – this is nine years of basic education;

All children should reach a required standard of literacy and numeracy at the end of these years of education.

KEY UBE Monitoring Indicators

1. ACCESS

- i). Net Admission Rate
- ii). Gross Enrolment Rate
- iii). Net Enrolment Rate

2. RETENTION

- i). Cohort Retention Rate
- ii). Intergrade Retention Rate

3. QUALITY EDUCATION

- i). Basic Education (Grade 8) Examination Results

MONITORING INDICATORS

1. ACCESS

i. Net Admission Rate (NAR)

- Net Admission Rate (What percentage of children aged six are enrolled in Elementary Prep)

ii. Gross Enrolment Rate (GER)

- (All Children enrolled in Elementary Prep to Grade 8 are assumed to be aged 6-14).

MONITORING INDICATORS

1. ACCESS

iii. Net Enrolment Rate (NER)

- (Actual Age of Children aged 6-14) enrolled in Elementary Prep to Grade 8 as a percentage of total population aged 6-14)
- More precise than Gross Enrolment Rate (GER)

MONITORING INDICATORS

2. RETENTION RATES

i. Cohort Retention Rate (CRR)

- CRR indicates the proportion of students completing the final grade as a percentage of the cohort that enrolled in the first grade.

ii. Intergrade Retention Rate

- Similar to retention rate but measures retention between grades. Percentage of children who progressed from one grade to the next.

MONITORING INDICATORS

3. QUALITY

i. Basic Education (Grade 8) Examination Certificate Results

- Sum of score for English, Maths and Combined Subject, whose total is 150.



THE NATIONAL
RESEARCH INSTITUTE
PAPUA NEW GUINEA



GULF PROVINCE

1. ACCESS TO EDUCATION

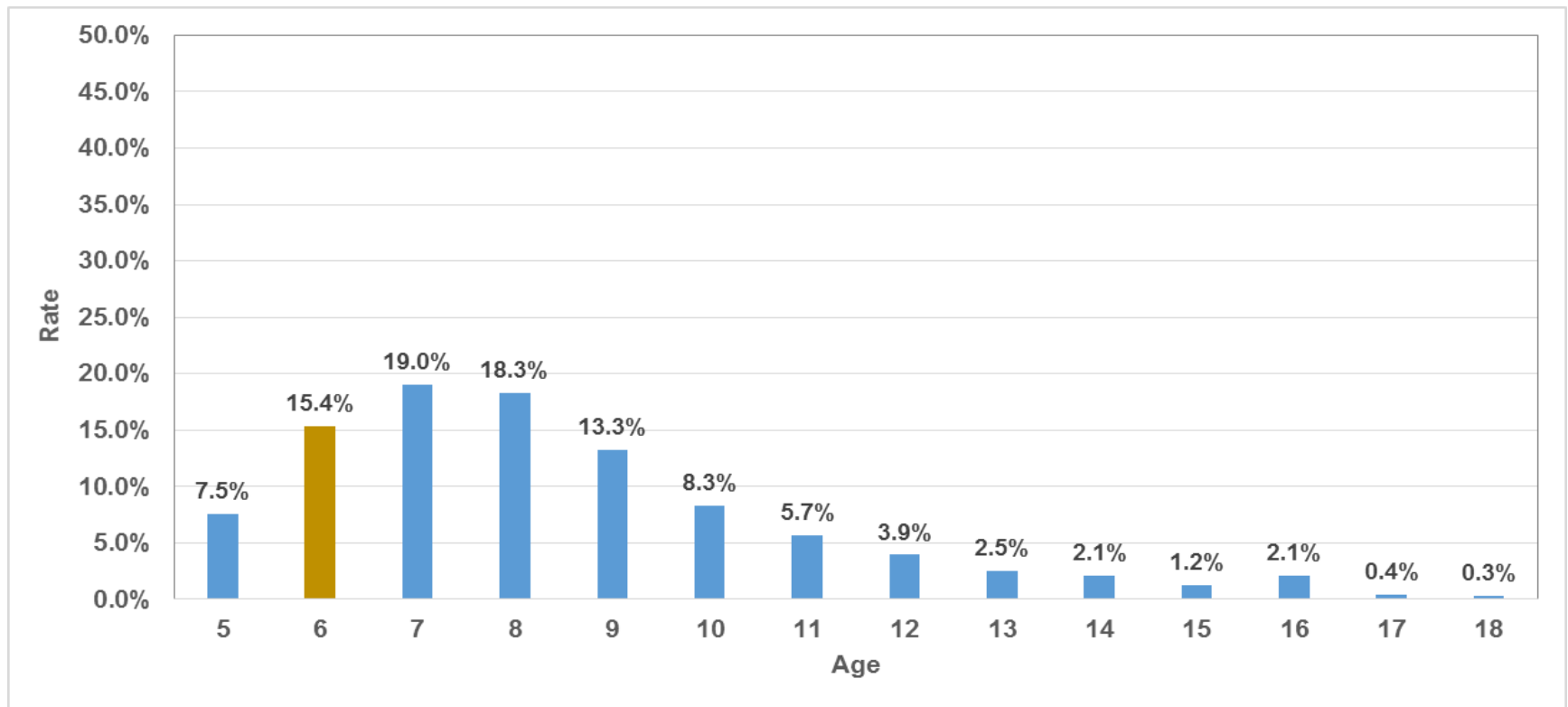
i). Net Admission Rate in Basic Education

District	Net Admission Rate, 2013			Percentage of 6 Year old Children Not in School		
	Male	Female	Total	Male	Female	Total
Kerema	11.3%	11.7%	11.5%	88.7%	88.3%	88.5%
Kikori	13.3%	14.2%	13.7%	86.7%	85.8%	86.3%
Gulf	11.9%	12.5%	12.2%	88.1%	87.5%	87.8%
PNG	31.8%	31.1%	31.5%	68.2%	68.9%	68.5%

Source: Education Statistics EMIS, 2013

1. ACCESS TO EDUCATION

Elementary Prep Age Structure (2013)



Source: Education Statistics EMIS, 2013

1. ACCESS TO EDUCATION

ii). Gross and Net Enrolment Rates in Basic Education

District	Gross Enrolment Rate, 2013			Net Enrolment Rate, 2013		
	Male	Female	Total	Male	Female	Total
Kerema	52.4%	45.9%	49.4%	37.1%	34.2%	35.8%
Kikori	78.8%	70.1%	74.5%	53.4%	49.0%	51.2%
Gulf	60.4%	53.7%	57.2%	42.0%	39.0%	40.6%
PNG	93.0%	88.1%	90.7%	71.1%	69.3%	70.3%

Source: Education Statistics EMIS, 2013

2. RETENTION

i). Cohort Retention Rate (CRR) for Elementary Prep - Grade 8

District	Elementary Prep Enrolment (2005)	Grade 8 Enrolment (2013)	Number Dropped Out	Cohort Retention Rate (%)
Kerema	1475	586	889	39.7%
Kikori	1042	357	685	34.3%
Gulf	2517	943	1574	37.5%
PNG	101106	76715	24391	75.9%

Source: Education Statistics EMIS, 2013

2. RETENTION

ii). Intergrade Retention Rate between 2012 and 2013

District	E2/E1	GR3/E2	GR4/GR3	GR5/GR4	GR6/GR5	GR7/GR6	GR8/GR7
Kerema	81.2%	66.9%	75.4%	72.3%	71.2%	69.7%	70.2%
Kikori	78.4%	67.5%	87.6%	68.2%	63.8%	71.2%	53.4%
Gulf	80.0%	67.1%	80.4%	70.5%	68.1%	70.3%	62.7%

Source: Education Statistics EMIS, 2013

3. QUALITY

i). Grade 8 Students' Performance in the 2013 Basic Education Certificate Examination

District	Written Expression (Scale: 1 - 20)	English Language (Scale: 1 - 50)	Mathematics (Scale: 1 - 50)	Combined Subject (Scale: 1 - 50)
Kerema	8.8	19.9	14.2	19.3
Kikori	9.4	20.0	13.7	19.0
Gulf	9.0	19.9	14.0	19.2
PNG	12.4	25.1	19.6	23.5

Source: Education Statistics EMIS, 2013



**SOUTHERN HIGHLANDS
PROVINCE**

1. ACCESS TO EDUCATION

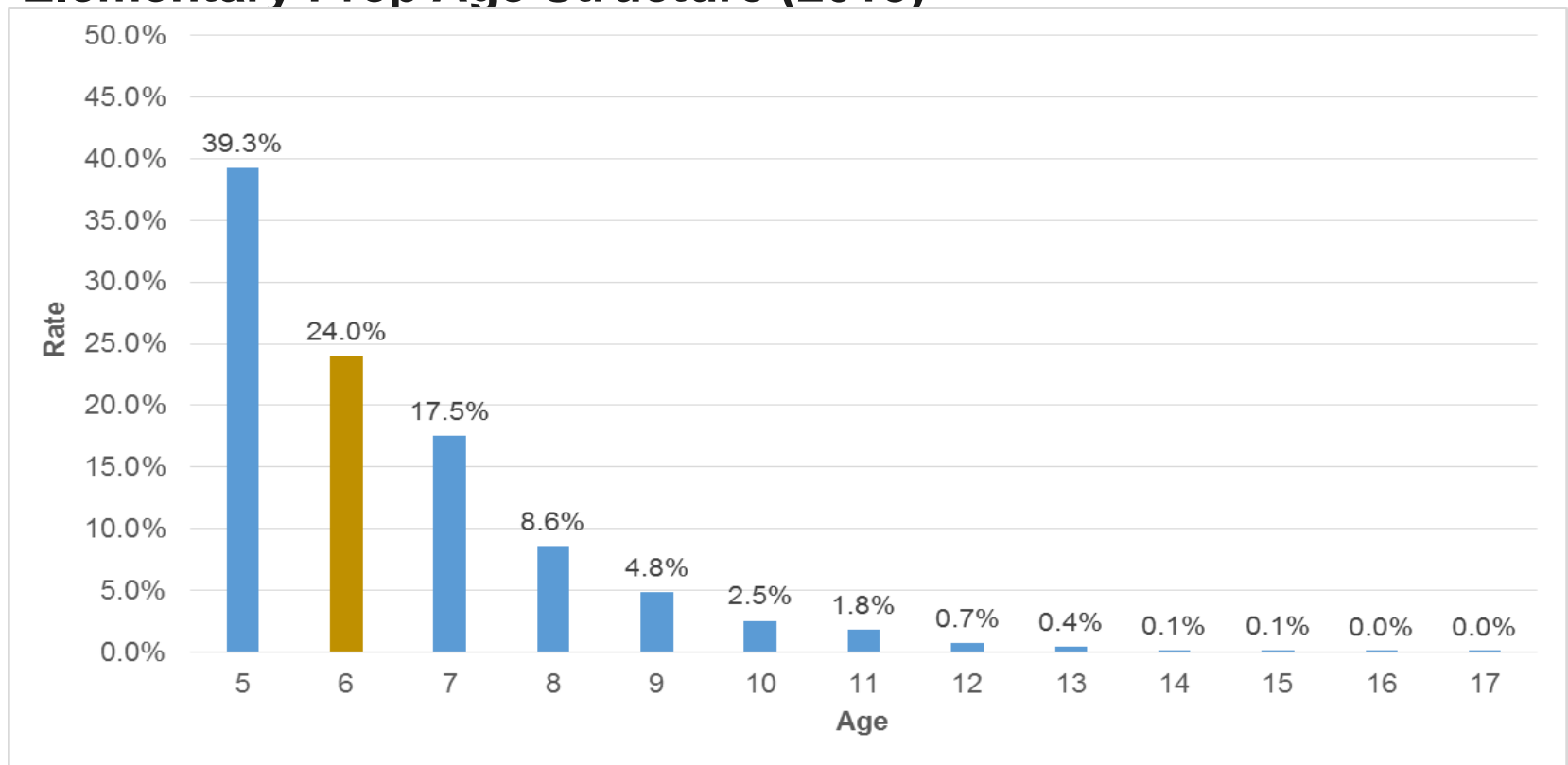
i). Net Admission Rate in Basic Education

District	Net Admission Rate, 2013			Percentage of 6 Year old Children Not in School		
	Male	Female	Total	Male	Female	Total
Ialibu/Pangia	89.4%	82.0%	85.8%	10.6%	18.0%	14.2%
Imbonggu	51.1%	49.9%	50.5%	48.9%	50.1%	49.5%
Kangua/Erave	54.3%	53.8%	54.1%	45.7%	46.2%	45.9%
Mendi/Munihu	37.0%	32.0%	34.5%	63.0%	68.0%	65.5%
Nipa/Kutubu	14.1%	13.6%	13.9%	85.9%	86.4%	86.1%
SHP	40.7%	38.3%	39.6%	59.3%	61.7%	60.4%
PNG	31.8%	31.1%	31.5%	68.2%	68.9%	68.5%

Source: Education Statistics EMIS, 2013

1. ACCESS TO EDUCATION

Elementary Prep Age Structure (2013)



Source: Education Statistics EMIS, 2013

1. ACCESS TO EDUCATION

ii). Gross and Net Enrolment Rates in Basic Education

District	Gross Enrolment Rate, 2013			Net Enrolment Rate, 2013		
	Male	Female	Total	Male	Female	Total
Ialibu/Pangia	192.5%	171.6%	182.7%	145.9%	134.3%	140.5%
Imbonggu	120.0%	122.4%	121.1%	93.7%	97.1%	95.3%
Kangua/Erave	150.2%	134.4%	143.0%	114.3%	105.0%	110.0%
Mendi/Munihu	76.8%	73.0%	75.0%	61.3%	58.6%	60.0%
Nipa/Kutubu	69.9%	60.8%	65.6%	56.0%	49.3%	52.8%
SHP	104.7%	96.2%	100.7%	81.7%	76.4%	79.2%
PNG	93.0%	88.1%	90.7%	71.1%	69.3%	70.3%

Source: Education Statistics EMIS, 2013

2. RETENTION

i). Cohort Retention Rate for Elementary Prep - Grade 8

District	Elementary Prep Enrolment (2005)	Grade 8 Enrolment (2013)	Number Dropped Out	Cohort Retention Rate
Ialibu/Pangia	1422	1416	6	99.6%
Imbonggu	1346	1388	-42	103.1%
Kangua/Erave	1201	760	441	63.3%
Mendi/Munihu	800	1062	-262	132.8%
Nipa/Kutubu	1173	1258	-85	107.2%
SHP	5942	5884	58	99.0%
PNG	101106	76715	24391	75.9%

Source: Education Statistics EMIS, 2013

2. RETENTION

ii). Intergrade Retention Rate between 2012 and 2013

District	E2/E1	GR3/E2	GR4/GR3	GR5/GR4	GR6/GR5	GR7/GR6	GR8/GR7
lalibu/Pangia	85.7%	74.6%	100.5%	99.6%	91.7%	97.4%	97.5%
Imbonggu	92.1%	63.9%	79.1%	87.4%	103.8%	83.5%	85.3%
Kangua/Erave	63.9%	48.8%	76.0%	70.4%	61.9%	64.5%	65.5%
Mendi/Munihu	75.9%	61.9%	76.3%	88.8%	77.6%	79.1%	76.8%
Nipa/Kutubu	88.8%	78.0%	92.0%	90.8%	94.5%	81.0%	96.4%
SHP	79.2%	64.1%	84.4%	87.0%	84.9%	80.6%	84.9%

Source: Education Statistics EMIS, 2013

3. QUALITY

i). Grade 8 Students' Performance in the 2013 Basic Education

District	Written Expression (Scale: 1 - 20)	English Language (Scale: 1 - 50)	Mathematics (Scale: 1 - 50)	Combined Subject (Scale: 1 - 50)
Ialibu/Pangia	17.3	30.6	26.2	26.5
Imbonggu	18.3	30.1	27.1	27.0
Kagua/Erave	16.9	31.3	29.1	27.7
Mendi/Munihu	19.0	30.4	26.1	27.2
Nipa/Kutubu	18.6	30.9	28.7	28.6
SHP	17.8	30.7	27.2	27.3
PNG	12.4	25.1	19.6	23.5

Source: Education Statistics EMIS, 2013



THE NATIONAL
RESEARCH INSTITUTE
PAPUA NEW GUINEA

HELA PROVINCE

1. ACCESS TO EDUCATION

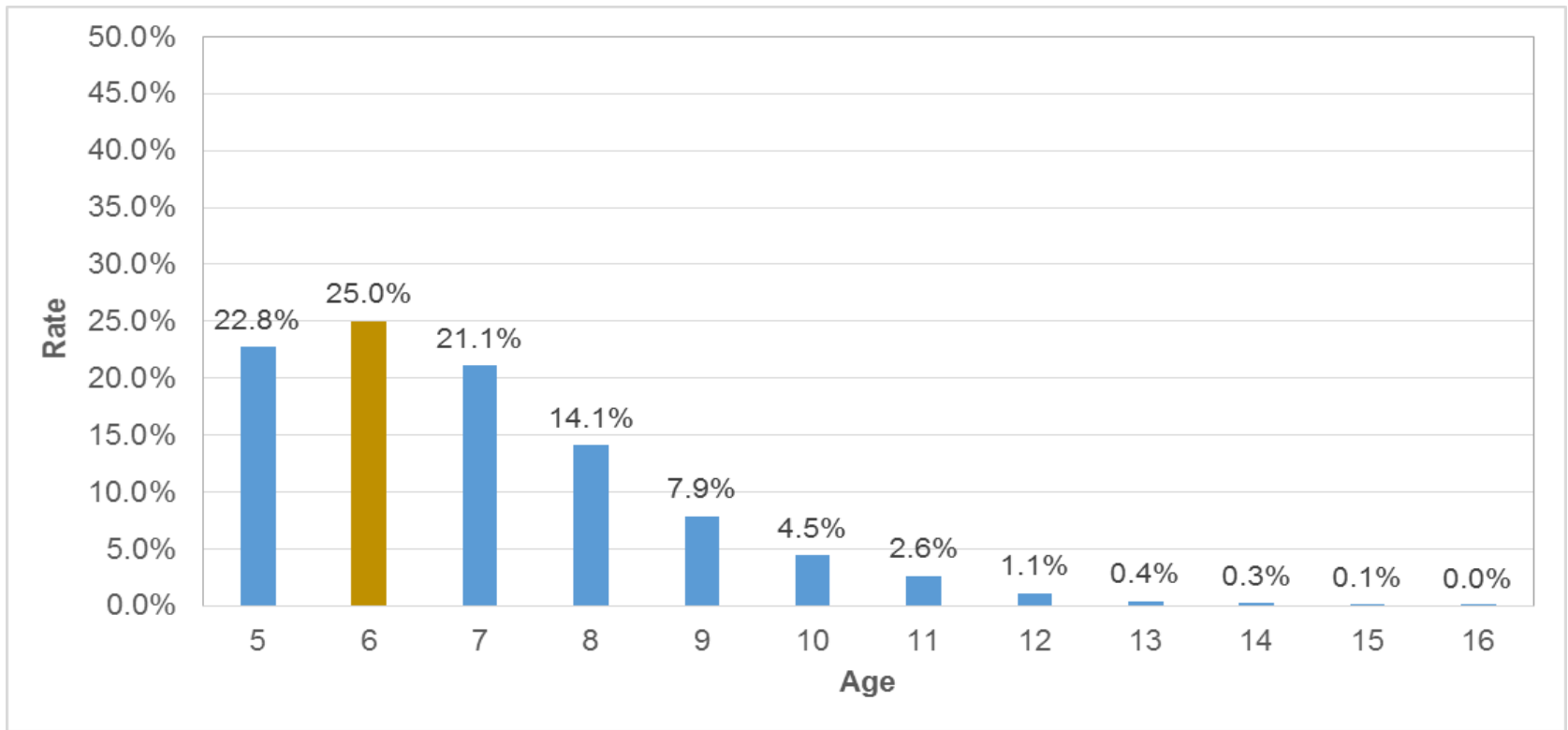
i). Net Admission Rate in Basic Education

District	Net Admission Rate, 2013			Percentage of 6 Year old Children Not in School		
	Male	Female	Total	Male	Female	Total
Komo/Magarima	54.7%	53.9%	54.3%	45.3%	46.1%	45.7%
Koroba/Kopiago	69.8%	64.6%	67.3%	30.2%	35.4%	32.7%
Tari/Pori	30.7%	30.4%	30.5%	69.3%	69.6%	69.5%
Hela	47.0%	45.6%	46.3%	53.0%	54.4%	53.7%
PNG	31.8%	31.1%	31.5%	68.2%	68.9%	68.5%

Source: Education Statistics EMIS, 2013

1. ACCESS TO EDUCATION

Elementary Prep Age Structure (2013)



Source: Education Statistics EMIS, 2013

1. ACCESS TO EDUCATION

ii). Gross and Net Enrolment Rates in Basic Education

District	Gross Enrolment Rate, 2013			Net Enrolment Rate, 2013		
	Male	Female	Total	Male	Female	Total
Komo/Magarima	145.4%	122.3%	134.4%	105.8%	94.5%	100.4%
Koroba/Kopiago	214.4%	175.8%	195.8%	163.8%	139.6%	152.1%
Tari/Pori	79.4%	72.3%	76.0%	56.7%	53.5%	55.2%
Hela	132.2%	112.7%	122.8%	97.4%	86.9%	92.4%
PNG	93.0%	88.1%	90.7%	71.1%	69.3%	70.3%

Source: Education Statistics EMIS, 2013

2. RETENTION

i). Cohort Retention Rate for Elementary Prep - Grade 8

District	Elementary Prep Enrolment (2005)	Grade 8 Enrolment (2013)	Number Dropped Out	Cohort Retention Rate
Komo/Magarima	1399	902	497	64.5%
Koroba/Kopiago	845	703	142	83.2%
Tari/Pori	1144	661	483	57.8%
Hela	3388	2266	1122	66.9%
PNG	101106	76715	24391	75.9%

Source: Education Statistics EMIS, 2013

2. RETENTION

ii). Intergrade Retention Rate between 2012 and 2013

District	E2/E1	GR3/E2	GR4/GR3	GR5/GR4	GR6/GR5	GR7/GR6	GR8/GR7
Komo/Magarima	67.9%	59.6%	100.2%	88.3%	81.9%	76.0%	76.8%
Koroba/Kopiago	98.4%	71.2%	79.9%	92.1%	96.7%	79.4%	72.2%
Tari/Pori	90.7%	64.4%	79.4%	78.3%	87.9%	67.2%	83.9%
Hela	83.4%	64.4%	87.3%	87.1%	88.2%	74.7%	77.2%

Source: Education Statistics EMIS, 2013

3. QUALITY

i). Grade 8 Students' Performance in the 2013 Basic Education Certificate Examination.

District	Written Expression (Scale: 1 - 20)	English Language (Scale: 1 - 50)	Mathematics (Scale: 1 - 50)	Combined Subject (Scale: 1 - 50)
Komo/Magarima	17.3	31.3	28.2	28.7
Koroba/Kopiago	15.9	31.0	27.8	27.0
Tari/Pori	17.5	29.7	22.7	25.0
Hela	16.9	30.7	26.2	26.9
PNG	12.4	25.1	19.6	23.5

Source: Education Statistics EMIS, 2013

WAY FORWARD

1. FOLLOW UP ON THE INDICATORS

- i). Follow up on some questionable indicators
- ii). Understand the reasons for variations

2. PROMOTE INTERVENTIONS

Policy Intervention Areas

1. Improve Access.
2. Improve Retention
3. Improve Quality of Learning

Universal Basic Education Tree

Universal Basic Education

Access Improved

Expansion of Elementary School Infrastructure

Expansion of Primary School Infrastructure

Construction of Primary School Teacher Housing

Provision of Access to Basic Education Over-age Children

Retention Enhanced

Provision of Grants and Fee Abolition

Advocacy and Raising Awareness on Basic Education

Provision of Adequate Water and Sanitation Facilities in All Schools

Quality of Education Improved

Pre-Service Basic Education Teacher Training

In-Service Basic Education Teacher Training

Provision of Education Materials

Library Development and Maintenance

Maintenance of Elementary and Primary Schools

IF ALL DISTRICTS ACHIEVE UBE THEN PNG WILL HAVE ACHIEVED UBE

1. Net admission rate	100%
2. Net enrolment rate	100%
3. Cohort retention rate	100%
4. Student learning outcomes	100%



THE NATIONAL
RESEARCH INSTITUTE
PAPUA NEW GUINEA

THANK YOU

Email: kilala.devette-chee@pngnri.org