













Government of Tuvalu

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Foreword from the Secretary of Education

I am pleased to present the 2016 and 2017 Tuvalu Education Statistical Report. The report details important statistics from Early Childhood Care and Education (ECCE) Centers to Secondary Schools in areas such as Enrolments, Assessment, Teachers Qualifications and Professional Development, and Education Management.

Following the completion of the Achieving Education for All Tuvalu Programme, the Ministry of Education, Youth & Sports (MEYS) now greatly benefits from the many achieved outcomes of its Tuvalu Education Management Information System (TEMIS) component and intends to continue to build upon its successes in light of new priorities from the Tuvalu Education Sector Plan III (TESP III) as well as Te Kakega III (TK III).

This report will shed some light on new issues and opportunities for policy and planning interventions as well as informed educational investments. In addition, the Education Department (EdDep) intends to use the statistics and indicators in this report as well as the granular data that has been collected to further report on both regional (upcoming Regional Education Framework after the Pacific Education Development Framework Review) and global (SDG 4) frameworks. To this end, EdDep has and will continue to work closely with the Secretariat of the Pacific Community (SPC), the Educational Quality and Assessment Programme (EQAP) and the UNESCO Institute of Statistics (UIS).

Dr. Tufoua Panapa

Chief Executive Officer

Ministry of Education, Youth & Sports

Acknowledgements



The Statistical Report is made possible not only through the responsible officers but also through the continuous support of key individuals, schools and organizations. In this connection, I would like to thank all the Principals, Head Teachers, Teachers, Parents, Island Nurses, and all other stakeholders that played a role in providing the necessary data. The data collection was especially challenging for this school year, and your continued cooperation is very much appreciated.

I would also like to acknowledge and express my gratitude to the Pacific Community (SPC) and the Educational Quality & Assessment Programme (EQAP) for their continued technical support with regard to questionnaire development and revision, data entry, data analysis and the publication of this report as well as the UNESCO Institute of Statistics (UIS) Samoa for its advisory support.

Special thanks go out to the former Education Statistician, Mr. Lamese Saamu, for leading 2016 preparations, newly recruited Education Statistician Ms. Sina Tane for organizing the 2017 data collection and the School Leaders' training and Senior Education Officer - ICT Mr. Alapati Taupo for leading the data collection, analysis and publication of the Tuvalu Education Statistical Report.

Meaki Letia

Director of Education

Ministry of Education, Youth & Sports

ABBREVIATION

DFAT Department of Foreign Affairs and Trade

DOE Department of Education

ECCE Early Childhood Care and Education

EdDep Department of Education

Education for All **EFA**

EQAP Education Quality and Assessment Programme

GDP Gross Domestic Product Gross Enrolment Ratio **GER** GIR Gross Intake Rate GPI Gender ParityIndex

MEYS Ministry of Education, Youth and Sports

NER Net Enrolment Ratio NIR Net Intake Rate

NYEE National Year 8 Examination **OBE** Outcome-Based Education

PEDF Pacific Island Education Development Framework

PTR Pupil-Teacher Ratio

SCR Student-Classroom Ratio

SDA Seventh Day Adventist

SDG Sustainable Development Goal Secretariat of the Pacific Community **SPC SPFSC** South Pacific Form Seven Certificate

Tuvalu Education Management Information System **TEMIS**

Tuvalu Education Strategic Plan **TESP** TJC Tuvalu Junior Certificate

Te Kakeega III TK III

TMTI Tuvalu Maritime Training Institute

Tuvalu National Curriculum Policy Framework **TNCPF**

TSSC Tuvalu Senior Secondary Certificate

TVSD Technical and Vocational Education and Training

UIS **UNESCO Institute of Statistics**

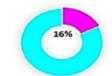
UNESCO United Nations Educational, Scientific and Cultural Organization

UNICEF United Nations International Children's Fund

USP University of the South Pacific

2016 Education statistics at a glance

Government 0 9 1 Non-Government 18 1 1 Students enrolled 696 1733 653 Male 360 904 301 Female 336 829 352 % of female students 48% 48% 54% Teachers 66 115 56 Male 0 31 25 Female 66 84 31 % of female teachers 100% 73% 55% Pupil: teacher ratio 10.5 15.1 12.3 Teachers certified (%) 100% 97% 72% Total classrooms 18 89 27 Pupil: classroom ratio 39 20 26 Gross enrolment rate 105.94% 106.91% 69.99% Male 104.65% 106.60% 60.93% Female 81.13% 95.99% 60.02% Male 81.40% 96.93% 52.23%	VARIABLE	ECCE	PRIMARY	SECONDARY
Non-Government 18	Schools	18	10	2
Students enrolled 696 1733 653 Male 360 904 301 Female 336 829 352 % of female students 48% 48% 54% Teachers 66 115 56 Male 0 31 25 Female 66 84 31 % of female teachers 100% 73% 55% Pupil: teacher ratio 10.5 15.1 12.3 Teachers certified (%) 100% 97% 72% Total classrooms 18 89 27 Pupil: classroom ratio 39 20 26 Gross enrolment rate 105.94% 106.91% 69.99% Male 104.65% 106.60% 60.93% Female 107.35% 107.24% 80.18% Net enrolment rate 81.13% 95.99% 60.02% Male 81.40% 96.93% 52.23% Female 80.83% 94.95% 68.79%	Government	0	9	1
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% of female students 48% 48% 54% Teachers 66 115 56 Male 0 31 25 Female 66 84 31 % of female teachers 100% 73% 55% Pupil: teacher ratio 10.5 15.1 12.3 Teachers certified (%) 100% 97% 72% Total classrooms 18 89 27 Pupil: classroom ratio 39 20 26 Gross enrolment rate 105.94% 106.91% 69.99% Male 104.65% 106.60% 60.93% Female 107.35% 107.24% 80.18% Net enrolment rate 81.13% 95.99% 60.02% Male 81.40% 96.93% 52.23% Female 80.83% 94.95% 68.79% Financial indicator 68.79%	Male	360	904	301
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Female 66 84 31 % of female teachers 100% 73% 55% Pupil: teacher ratio 10.5 15.1 12.3 Teachers certified (%) 100% 97% 72% Total classrooms 18 89 27 Pupil: classroom ratio 39 20 26 Gross enrolment rate 105.94% 106.91% 69.99% Male 104.65% 106.60% 60.93% Female 107.35% 107.24% 80.18% Net enrolment rate 81.13% 95.99% 60.02% Male 81.40% 96.93% 52.23% Female 80.83% 94.95% 68.79%	Teachers	66	115	56
100% 73% 55%	Male	0	31	25
Pupil: teacher ratio 10.5 15.1 12.3 Teachers certified (%) 100% 97% 72% Total classrooms 18 89 27 Pupil: classroom ratio 39 20 26 Gross enrolment rate 105.94% 106.91% 69.99% Male 104.65% 106.60% 60.93% Female 107.35% 107.24% 80.18% Net enrolment rate 81.13% 95.99% 60.02% Male 81.40% 96.93% 52.23% Female 80.83% 94.95% 68.79%	Female	66	84	31
Teachers certified (%) 100% 97% 72% Total classrooms 18 89 27 Pupil: classroom ratio 39 20 26 Gross enrolment rate 105.94% 106.91% 69.99% Male 104.65% 106.60% 60.93% Female 107.35% 107.24% 80.18% Net enrolment rate 81.13% 95.99% 60.02% Male 81.40% 96.93% 52.23% Female 80.83% 94.95% 68.79%	% of female teachers	100%	73%	55%
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Pupil: classroom ratio 39 20 26 Gross enrolment rate 105.94% 106.91% 69.99% Male 104.65% 106.60% 60.93% Female 107.35% 107.24% 80.18% Net enrolment rate 81.13% 95.99% 60.02% Male 81.40% 96.93% 52.23% Female 80.83% 94.95% 68.79%	Teachers certified (%)	100%	97%	72%
Gross enrolment rate 105.94% 106.91% 69.99% Male 104.65% 106.60% 60.93% Female 107.35% 107.24% 80.18% Net enrolment rate 81.13% 95.99% 60.02% Male 81.40% 96.93% 52.23% Female 80.83% 94.95% 68.79% Financial indicator 68.79%	Total classrooms	18	89	27
Male 104.65% 106.60% 60.93% Female 107.35% 107.24% 80.18% Net enrolment rate 81.13% 95.99% 60.02% Male 81.40% 96.93% 52.23% Female 80.83% 94.95% 68.79% Financial indicator	Pupil: classroom ratio	39	20	26
Female 107.35% 107.24% 80.18% Net enrolment rate 81.13% 95.99% 60.02% Male 81.40% 96.93% 52.23% Female 80.83% 94.95% 68.79% Financial indicator	Gross enrolment rate	105.94%	106.91%	69.99%
Net enrolment rate 81.13% 95.99% 60.02% Male 81.40% 96.93% 52.23% Female 80.83% 94.95% 68.79% Financial indicator 68.79% 68.79%	Male	104.65%	106.60%	60.93%
Male 81.40% 96.93% 52.23% Female 80.83% 94.95% 68.79% Financial indicator	Female	107.35%	107.24%	80.18%
Female 80.83% 94.95% 68.79% Financial indicator	Net enrolment rate	81.13%	95.99%	60.02%
Financial indicator	Male	81.40%	96.93%	52.23%
	Female	80.83%	94.95%	68.79%
% of education expenditure by level of education 6% 25% 27%	Financial indicator			
20 of Caucation expenditure by level of Education 0/0 25/0 27/0	% of education expenditure by level of education	6%	25%	27%



Year 1 Net Intake Rate



% of Year 1 students having ECCE experience



Transition Rate from Year 8 to Year 9



Year 8 examination average % passing (NYEE)



Year 10 examination % passing (TJC)



Year 12 examination % passing (TSSC)

2017 Education statistics at a glance

VARIABLE	ECCE	PRIMARY	SECONDARY
Schools	18	10	2
Government	0	9	1
Non-Government	18	1	1
Students enrolled	627	1780	642
Male	307	954	280
Female	320	826	362
% of female students	51%	46%	56%
Teachers	71	110	48
Male	0	33	19
Female	71	77	29
% of female teachers	100%	70%	60%
Pupil: teacher ratio	8.8	16.3	13.4
Teachers certified (%)	100%	86%	62%
Total classrooms	18	89	27
Pupil: classroom ratio	35	20	24
Gross enrolment rate	94.00%	109.94%	71.02%
Male	87.97%	112.63%	57.97%
Female	100.63%	106.99%	85.99%
Net enrolment rate	81.13%	99.38%	58.08%
Male	68.77%	101.06%	48.03%
Female	76.10%	97.54%	69.60%
Financial indicator			
% of education expenditure by level of education	5%	18%	20%



Year 1 Net Intake Rate



% of Year 1 students having ECCE experience



Transition Rate from Year 8 to Year 9



Year 8 examination average % passing (NYEE)



Year 10 examination % passing (TJC)



Year 12 examination % passing (TSSC)

INTRODUCTION

This report has been produced by the Education Department (EdDep) within the Ministry of Education, Youth and Sports (MEYS). EdDep's policy interventions are nested within the Tuvalu Education Strategic Plan (TESP III), a five-year plan for 2016-2020. TESP III was developed with the ultimate target of addressing key policy objectives outlined in the Te Kakeega III (TKIII) National Strategy for Sustainable Development plan for the country (2016 to 2020). The development of the new education strategic plan (TESP III), has a particular focus on three main policy levers: Access, Relevancy and Sustainability.

Furthermore, the indicators included in this report are aligned with the priority outcomes of TESP III and calculated based on UNESCO Institute of Statistics (UIS) technical guidelines and definitions. UNESCO has also supported the development of Education for All (EFA) country assessments, which have taken stock of progress since 2000 and reflected on the future needs and challenges of individual countries. In addition, UNESCO conducted a comprehensive review in February 2015 in Tuvalu to track progress towards achieving the six EFA goals.

Tuvalu contributed to the set of global assessments undertaken by UNESCO to help frame the vision for the post-2015 agenda. This agenda was presented to over 190 Member States attending the 37th session of UNESCO's General Conference. The post-2015 agenda will be a useful resource for countries like Tuvalu as it embarks on evidence-based policy and planning, monitoring, evaluation and reporting of its new sector plan.

Goals, policies and strategies for education

TESP III outlines an overarching vision and the purpose of the educational strategies for the five-year period.

Vision

Quality education for sustainable living for all Mission

Provide and sustain excellence in education for all Key objectives

Strategic activities to achieve the following objectives:

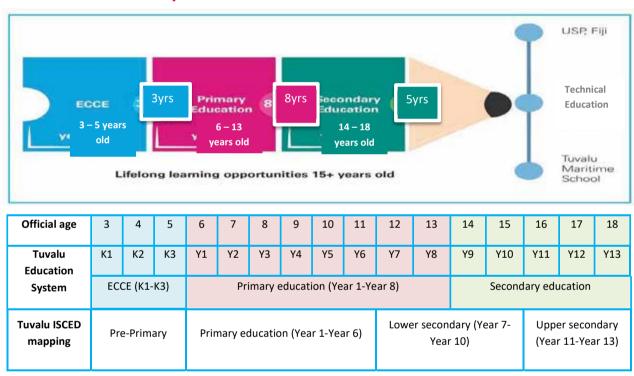
- · All young people in Tuvalu have access and can achieve in a relevant, worthwhile education system
- · Improved relevant learning resources, human resources and sustainable infrastructure development in schools
- · Improved governance, partnership, administration and financing of an efficient and sustainable education system

This report contains indicators, statistics and summary analysis for these key objectives.

Overview of the education sector in Tuvalu

The government in Tuvalu provides free primary education for all. By law, it is compulsory for everyone between the ages of six and 15 to attend school¹. The government funds all tuitions, books and stationery along with infrastructure development and provision of teachers, with support from development partners. Government funding and donor support, combined with Tuvalu's small geographic size, have resulted in accessible primary education for all. Moreover, the 18 ECCE centres are not run by the government but are receiving grants and their teachers' salaries are now paid for through the Education budget. Primary education consists of eight years of schooling (Year 1-8), though Year 9 students were enrolled in primary due to prevention on violence (86 students in total). There are 9 government primary schools, one on each island, and a faith-based (Seventh Day Adventist) primary school in Funafuti. In 2016, there were 3241 pupils (students) enrolled in early childhood care and education (ECCE), primary, secondary and special needs centres, as well as in technical and vocational education and training (TVSD) programmes. ATVSD stream has been added to the primary school curriculum for the past three years to provide an alternative learning programme for students who may not excel academically. The total number of teachers in Tuvalu is 239, spread across all nine islands. Although primary education is officially free, schools ask parents to pay a "school contribution" that ranges between AU\$2 and AU\$5 per term. In addition, parents must provide children with school uniforms.

Tuvalu's education system



Secondary education consists of five years of schooling, Year 9 (Forms 3) through year 13 (form 7) (also referred to as Year 9 to 13). The government-run Motufoua Secondary School is a boarding school on Vaitupu. A Non-Government secondary school, Fetuvalu Secondary School (which receives a government grant, yet operates an alternative curriculum and examinations), is located in Funafuti. While schooling in Tuvalu is free, one Kaupule (island council) in Niutao provides loans to parents for student fees to ensure their children attend school.

Education is compulsory until the end of the year the child turns 15, generally two years after primary school. In the past, children failing the national examination in Year 8 (Form 2) were required to repeat

¹The Education Act states that children must commence school at the beginning of the school year during which they reach the age of seven years and end at the end of the school year when they reach 15 years old.

2016 & 2017 STATISTICAL REPORT

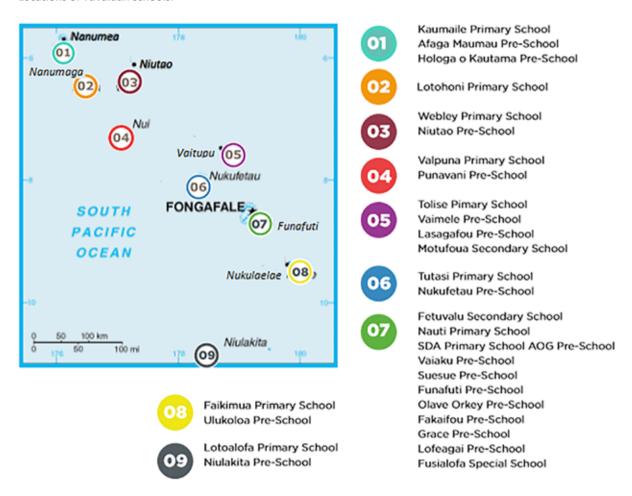
Year 8 (Form 2) and re-sit the examination until they passed or reached the age of 15. With the introduction of the TVSD stream in secondary school education, there is now an alternative learning pathway for these students.

Apart from the recently established TVSD stream in primary school, the Tuvalu Maritime Training Institute (TMTI) is the only other TVSD institution, enrolling 60 young men each year for the one-year course, which provides an opportunity for future employment at sea. The University of the South Pacific (USP) Centre on Funafuti is the only tertiary education institution in Tuvalu. It offers a wide range of courses at the certificate, diploma and degree levels, delivered mainly through distance flexible learning and supplemented by face- to-face tutorials. Along with its usual business, it also houses the classroom taught Augmented Foundation Programme (Year 13 equivalent) - the platform for university entrance and scholarship. In 2012, a new year 13 programme, established by the government and managed by MEYS, commenced on a trial basis, replacing the Augmented Foundation Programme. Also, in 2016, a new Year 13 TVSD stream was introduced in the Public Secondary school of Motufoua.

The education sector absorbs the largest share of the national budget, at 21 percent (AU\$9,599,584 in 2016) while Health and Communication & Transport come next. The proportion of education expenditure spent on salaries has increased for Primary (from 18% in 2015 to 19% in 2016) and Secondary (from 12% in 2015 to 14% in 2016) teachers while it decreased for ECCE teachers (from 9% in 2015 to 6% in 2016).

A high proportion of education expenditure (by government and donors) goes on secondary and tertiary education as opposed to ECCE and primary. ECCE per student expenditure ranges from AU\$156 to AU\$711 per year. At the primary level, per pupil expenditures range from AU\$728 per student to AU\$1,071 per year, double the amount spent on early childhood. Secondary school per pupil expenditure stands at AU\$3,642 in 2016.

Locations of Tuvaluan schools:



The TESP III (2016–2020) strategic outcomes to this report

This report includes indicators relevant to monitoring progress against MEYS policies and the strategic outcomes of TESP III. Additional indicators are included that are relevant to monitoring progress against regional (REF) and international sustainable frameworks (SDG4) and commitments.

TESP III contains three main outcomes, with the subsequent objectives and activities in place to progress towards achieving these. This report contains data from the Tuvalu Education Management Information System (TEMIS), the National Statistics Office, the National Assessment Unit within MEYS and government budget appropriation statistics. The data has been mapped to the relevant "strategic outcomes" of TESP III.

Mapping the TESP III (2016–2020) strategic outcomes to this report

To provide all children in Tuvalu access to a quality flexible relevant and modern curriculum and assessment system that promotes life-long learning and good citizenship

All children especially preschools, children living under difficult circumstances and those with special needs will have equal access to an expanding inclusive, safe quality education and care system.

All young people in Tuvalu have access and achieve in a relevant, worthwhile education system (ACCESS)

Improved quality and efficiency of management through accountability, transparency and governance processes.

A well-qualified, competent, committed and highly motivated workforce that can deliver education services of high quality with integrity and transparency



Improved relevant learning resources, human resources and sustainable infrastructure development in schools (RELEVANCE).

Communities, stakeholders and donors responsive to the education and development needs of students and maintain a culture of working together in genuine partnerships.



Improved governance, partnership, administration and financing of an efficient and sustainable education system (Sustainability)

1. ACCESS AND PARTICIPATION IN EDUCATION

The following tables and summary analysis look at a summary list of indicators used to monitor progress against the TESP III plan and the national monitoring and evaluation (M&E) framework.

1.1 Strategic outcome monitoring and evaluation indicators

M&E indicators related to access and participation in education

Table 1: M&E indicators related to access and participation in education

INDICATORS	2012	2013	2014	2015	2016	2017
Enrolment						
ECCE	736	702	743	698	696	627
Male	381	355	389	356	360	307
Female	355	347	354	342	336	320
Primary	1,826	1,951	1,857	1,729	1,733	1,780
Male	942	1,023	965	895	904	954
Female	884	928	892	834	829	826
Secondary	717	645	727	705	653	642
Male	300	276	330	318	301	280
Female	417	369	397	387	352	362
Special needs Schools	15	16	16	13	18	20
Male	10	11	11	8	11	12
Female	5	5	5	5	7	8
TVSD	66	18	30	0	43	34
Primary	43	18	7	0	7	16
Secondary	23	0	23	0	36	18
Total enrolment Tuvalu	3,360	3,332	3,373	3,145	3,143	3,103
% of new entrants in Year 1 with ECCE experience	N/A	86%	95%	85%	87%	93%
Enrolment rates					<u> </u>	
Gross Enrolment in ECCE	98.53%	108.00%	115.02%	107.72%	105.94%	94.00%
Net Enrolment in ECCE	75.50%	83.23%	88.85%	85.19%	81.13%	72.26%
Gender Parity Index GER ECCE	1.03	1.07	1.00	1.05	1.03	1.14
Gross Enrolment in Primary	103.22%	118.39%	114.07%	106.86%	106.91%	109.94%
Net Enrolment in Primary	90.84%	105.76%	101.35%	94.25%	95.99%	99.38%

INDICATORS	2012	2013	2014	2015	2016	2017
Gender Parity Index GER in Primary 1-8	1.05	1.01	1.03	1.04	1.01	0.95
Gross Enrolment in Secondary	67.26%	63.30%	72.63%	72.31%	69.99%	71.02%
Net Enrolment in Secondary	56.94%	51.91%	59.94%	61.03%	60.02%	58.08%
Gender Parity Index GER in Secondary 9-13	1.55	1.40	1.27	1.32	1.32	1.48
Retention Rates						
Completion rate to Year 8	81.0%	85.0%	91.0%	95.1%	92.80%	92.80%
Transition rate primary–secondary	62.7%	67.0%	69.5%	61.7%	63.70%	65.10%
Repetition rate Year 8	20.2%	13.5%	10.9%	10.0%	10.55%	8.80%
Performance in national examinations (pass rate)						
National Year 8 examination	70%	61%	63%	81%	84%	79%
TJC (Year 10)	31%	32%	44%	36%	28%	31%
TSSC (Year 12)	N/A	40%	34%	83%	47%	40%
SPFSC (Year 13)	49%	65%	95%	29%	47%	75%

1.2 Enrolment and progression through education levels

The indicators in this section describe trends in enrolments across all levels of education (from ECCE to Secondary). Enrolment is a key indicator of the scope of and access to educational opportunities, and functions as a basic descriptor of Tuvalu's education. Changes in enrolment may affect demand for educational resources, such as qualified teachers, physical facilities and funding levels, all of which are required to provide high-quality education for the students of Tuvalu.

The indicators here include information on enrolment rates by level: ECCE, primary, secondary, special needs and technical/vocational skills development. Changes in the number of students enrolled in school can stem from fluctuations in population size or shifts in enrolment rates. The latter may vary in response to changes in compulsory attendance requirements, in the prevalence of migration, in perceptions regarding the value of education (particularly at ECCE and secondary levels) and in the amount of time it takes to complete schooling.

1.2.1 Enrolment trends

The total number of schools in Tuvalu for ECCE and primary and secondary education has remained steady since 2011: there are 18 ECCE Pre schools, 10 primary schools, 2 secondary schools and 1 special needs centre.

Enrolment statistics by island and level show that, nationally, there has been a drop in the total number of primary school students enrolled between 2012 and 2016, mainly in Nukulaelae, Nukufetau and Niulakita islands.

Figure 1: Total number of students enrolled by island and by gender

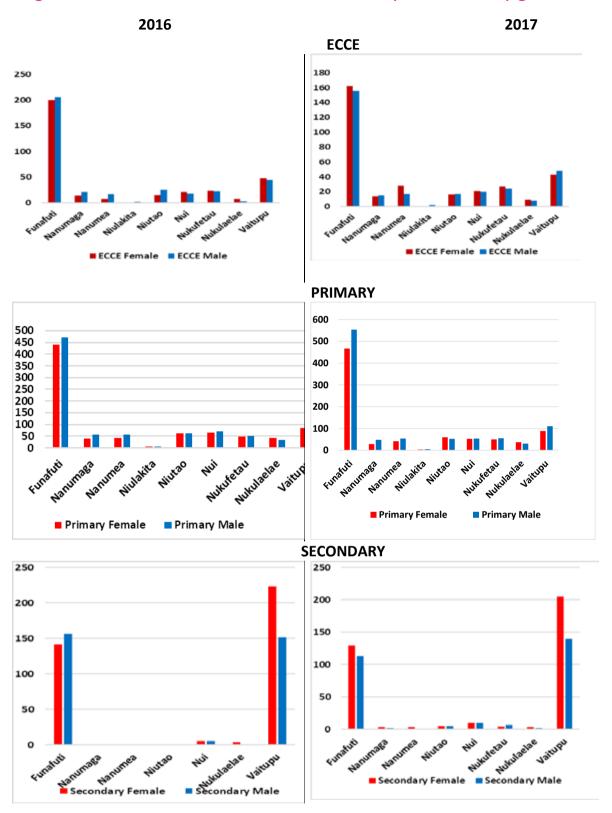


Table 2: Total number of students enrolled by island and by gender, 2016

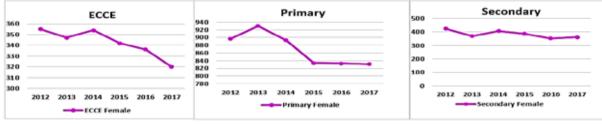
SCHOOL	ISLAND	Students			
		Male	Female	TOTAL	
AOG Pre School	Funafuti	14	17	31	
Fetuvalu Secondary School	Funafuti	116	127	243	
Funafuti Pre School	Funafuti	17	30	47	
Fusialofa Special School	Funafuti	7	11	18	
Gasologa o Kautama Pre School	Funafuti	20	19	39	
Grace Pre School	Funafuti	25	30	55	
Lofeagai Pre School	Funafuti	7	14	21	
Nauti Primary School	Funafuti	405	445	850	
Olave Ockey Pre School	Funafuti	42	32	74	
Seventh Day Adventist Primary School	Funafuti	61	56	117	
Suesue Memorial Pre School	Funafuti	28	18	46	
Vaiaku Pre School	Funafuti	47	45	92	
Nanumaga Pre School	Nanumaga	14	21	35	
Lotohoni Primary School	Nanumaga	41	59	100	
Kaumaile Primary School	Nanumea	43	57	100	
Afaga o Maumau Pre School	Nanumea	1	2	3	
Hologa O Kautama Pre School	Nanumea	6	15	21	
Niulakita Pre School	Niulakita	0	2	2	
Lotoalofa Primary School	Niulakita	5	5	10	
Webley Primary School	Niutao	62	64	126	
Niutao Pre School	Niutao	15	26	41	
Vaipuna Primary School	Nui	71	75	146	
Punavai Pre School	Nui	21	18	39	
Nukufetau Pre School	Nukufetau	24	23	47	
Tutasi Primary School	Nukufetau	47	50	97	
Faikimua Primary School	Nukulaelae	47	35	82	
Ulukoloa Pre School	Nukulaelae	7	3	10	
Lasagafou Pre School	Vaitupu	14	17	31	
Motufoua Secondary School	Vaitupu	212	144	356	
Tolise Primary School	Vaitupu	97	107	204	
Vaimele Pre School	Vaitupu	34	28	62	
TOTAL		1550	1595	3145	

Table 3: Total number of students enrolled by island and by gender, 2017

SCHOOL	ISLAND		Students		
		Male	Female	TOTAL	
AOG Pre School	Funafuti	16	20	36	
Fetuvalu Secondary School	Funafuti	92	93	185	
Funafuti Pre School	Funafuti	18	22	40	
Fusialofa Special School	Funafuti	8	12	20	
Gasologa o Kautama Pre School	Funafuti	13	22	35	
Grace Pre School	Funafuti	24	22	46	
Lofeagai Pre School	Funafuti	10	8	18	
Nauti Primary School	Funafuti	423	482	905	
Olave Ockey Pre School	Funafuti	28	22	50	
Seventh Day Adventist Primary School	Funafuti	81	92	173	
Suesue Memorial Pre School	Funafuti	16	9	25	
Vaiaku Pre School	Funafuti	37	31	68	
Nanumaga Pre School	Nanumaga	14	15	29	
Lotohoni Primary School	Nanumaga	32	50	82	
Kaumaile Primary School	Nanumea	45	55	100	
Afaga o Maumau Pre School	Nanumea	15	9	24	
Hologa O Kautama Pre School	Nanumea	13	8	21	
Niulakita Pre School	Niulakita	0	2	2	
Lotoalofa Primary School	Niulakita	4	5	9	
Webley Primary School	Niutao	65	58	123	
Niutao Pre School	Niutao	16	17	33	
Vaipuna Primary School	Nui	63	64	127	
Punavai Pre School	Nui	21	20	41	
Nukufetau Pre School	Nukufetau	27	24	51	
Tutasi Primary School	Nukufetau	54	62	116	
Faikimua Primary School	Nukulaelae	40	33	73	
Ulukoloa Pre School	Nukulaelae	9	8	17	
Lasagafou Pre School	Vaitupu	12	17	29	
Motufoua Secondary School	Vaitupu	196	130	326	
Tolise Primary School	Vaitupu	98	121	219	
Vaimele Pre School	Vaitupu	31	31	62	
TOTAL		1521	1564	3085	

Figure 2: Female Enrolment by Level And Student Enrolment By Ownership Type (Government Or Non-Government)





ECCE schools in Tuvalu are not run by the National Government but receive grants from the Education Budget since 2016. Based on the information provided on figure 2, school enrolment in government primary and secondary schools showed a downward trend between 2014 and 2016 and then an upward one in 2017 for secondary. As for non-government schools, in the only non-government primary school in Tuvalu (SDA), the number of students increased by 11 percent in 2017. In Fetuvalu Secondary School, the number of students decreased from 116 in 2016 to 92 in 2017. The overall percentage of girls enrolled dropped in ECCE and Primary levels whereas enrolled female students for Secondary remain steady.



Table 4: School enrolment in Funafuti and Outer Islands by education level and sex, 2012-2017

YEAR			ECCE		PR	IMARY		SE	COND	ARY	ALL	LEVELS	
LOCA	TION	M	F	Т	М	F	Т	М	F	Т	M	F	Т
	Funafuti	216	203	419	467	451	918	102	68	170	785	722	1,507
2012	Outer Islands	167	155	322	477	435	912	198	349	547	842	939	1,781
	Total	383	358	741	944	886	1,830	300	417	717	1,627	1,661	3,288
	Funafuti	205	194	399	534	497	1031	66	64	130	805	755	1,560
2013	Outer Islands	151	154	305	495	436	931	239	355	594	885	945	1,830
	Total	356	348	704	1,029	933	1,962	305	419	724	1,690	1,700	3,390
	Funafuti	210	191	401	509	469	978	121	106	227	840	766	1,606
2014	Outer Islands	181	166	347	462	425	887	209	291	500	852	882	1,734
	Total	391	357	748	971	894	1,865	330	397	727	1,692	1,648	3,340
	Funafuti	187	175	362	468	443	911	132	104	236	787	722	1,509
2015	Outer Islands	177	166	343	433	406	839	187	281	468	797	853	1,650
	Total	364	341	705	901	849	1,750	319	385	704	1,584	1,575	3,159
	Funafuti	205	200	405	501	466	967	127	116	243	833	782	1,615
2016	Outer Islands	155	136	291	452	413	865	144	212	356	751	761	1,512
	Total	360	336	696	953	879	1832	271	328	599	1584	1543	3127
	Funafuti	156	162	318	574	504	1078	93	92	185	823	758	1,581
2017	Outer Islands	151	158	309	448	401	849	130	196	326	729	755	1,484
	Total	307	320	627	1022	905	1927	223	288	511	1552	1513	3065

Source: TEMIS 2018.

Based on the information on table 4, nationally and across all education levels, Tuvalu witnessed a 1 percent decrease in total enrolments between 2015 and 2016 (including the TVSD students) and 2 percent decrease between 2016 and 2017. While the Outer Islands witnessed a drop in enrolments, 8% in 2016 and 2% in 2017).

The major drop in secondary enrolment is due to the fact that Year 9 students were enrolled in Primary school in the year 2016 onwards.

Table 5: Enrolment in special needs Centre, by sex, 2012-2017

YEAR		NROLMEN CHOOLS	Т % (% OF STUDENTS MAINSTREAMED INTO GENERAL					
	MALE	FEMALE T	OTAL N	ALE FE	MALE	TOTAL			
2012	10	5	12	0%	0%	0%			
2013	11	5	14	0%	0%	0%			
2014	11	5	16	30%	17%	25%			
2015	9	4	13	33%	0%	23%			
2016	11	7	18	0%	0%	0%			
2017	12	8	20	0%	0%	0%			

Source: MEYS.

There is one special needs centre in Tuvalu on the capital island of Funafuti – Fusialofa. The separate special needs centre caters for all persons with a disability and is not run by the government. It currently has 20 people enrolled, of varying ages (both children and adults) and needs.

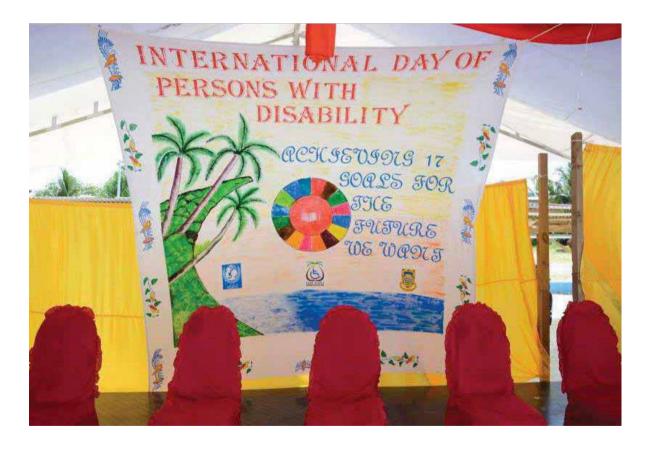


Table 6: Number of students in primary and secondary schools taking TVSD courses, 2012-2017

	PRIMA	ARY SCHOOLS		SECONDARY SCHOOLS			
YEAR	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	
2012	31	12	43	16	7	23	
2013	16	2	18	0	0	0	
2014	6	1	7	9	17	26	
2016	3	4	7	15	21	36	
2017	11	5	16	6	12	18	

Source: TEMIS 2018.

Technical Vocational Education and Training or TVSD is seen as an alternative to the academic programme. TVSD is currently being run in both primary as well secondary schools. A TVSD stream has also been re- introduced in senior primary and secondary school system to cater for students who do not excel academically to provide an alternative learning programme. Community Training Centres (CTC) has been established within primary schools with the help of EdDept and local communities (Kaupule) in each island and is currently being used for TVSD program training. The government provides infrastructure and the Kaupule identifies the skills required by the community and the teacher to teach these skills. There was a massive drop in the enrollments of TVSD in Secondary when compared with former years.

Students who do not qualify NYEE in senior primary and TJCE and TSSC in secondary are re-routed to learn TVSD courses at the CTCs in primary and secondary respectively. These kind of formal setting are dependent largely on community support at primary level, and therefore, its success is largely dependent on community support. The secondary level TVSD courses which are dependent on government support seem to be doing slightly better as the government support is usually consistent with its aim to meet the needs.



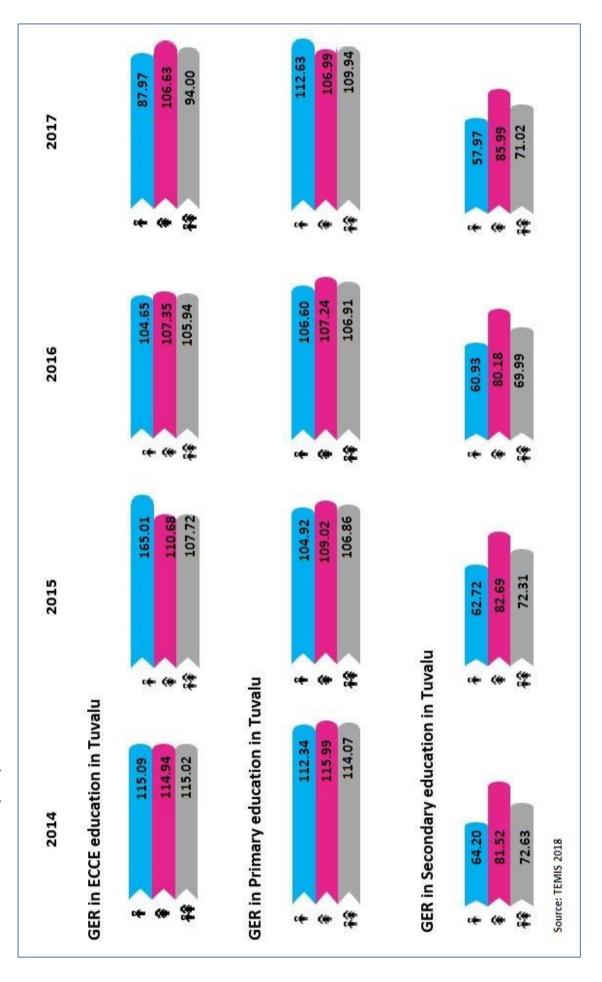
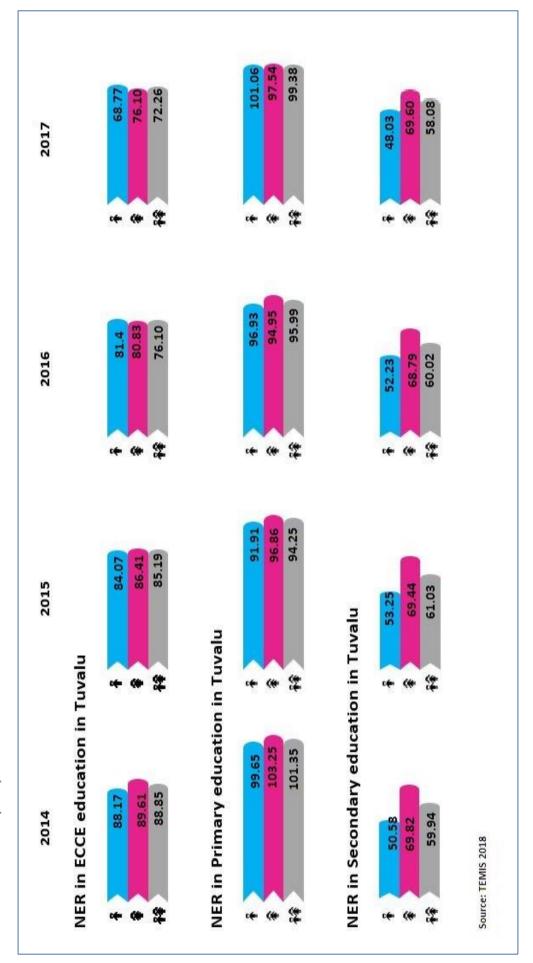


Figure 4: Net enrolment ratio by level of education, 2014–2017

Net Enrolment Ratio (NER) in Tuvalu



Based on the data available on Figure 3, it is noted that the GER in every level remains constant since 2015. As seen on Figure 4, between 2015 and 2016, there has been a raise in the NER of ECCE and Primary levels but also a slight decrease in Secondary level (of 0.6%).

Table 7: Gross and net enrolment ratio in ECCE, 2013-2017

YEAR	SEX	ENROLMENT	OFFICIAL ENROLMENT	POPULATION AGED 3-5	GER (%)	NER (%)	GPI:GER	GPI:NER
	Male	355	298	371	104.41%	80.29%		
2013	Female	347	336	388	111.94%	86.45%		
	Total	702	633	759	108.00%	83.23%	1.07	1.08
	Male	389	395	448	115.09%	88.17%		
2014	Female	354	365	407	114.94%	89.61%		
	Total	743		1.00	1.02			
	Male	356	315	374	105.10%	84.07%		
2015	Female	342	327	379	110.68%	86.41%		
	Total	698	642	753	107.72%	85.19%	1.05	1.03
	Male	360	307	377	104.65%	81.40%		
2016	Female	336	292	361	107.35%	80.83%		
	Total	696	598	737	105.94%	81.13%	1.03	0.99
	Male	307	186	270	87.97%	68.77%		
2017	Female	320	245	322	100.63%	76.10%		
	Total	627	431	592	94.00%	72.26%	1.14	1.11

The GER for ECCE is high, which implies that most young children are enrolled in ECCE programmes. However, the NER is significantly lower, indicating a high proportion of ECCE students enrolled are outside the three- to five-year age group in the centres. This suggests there is a high number of under-aged (under 3 of years of age) and/or over-aged children (more than 5 years old) enrolled in ECCE centres.

Table 8: Gross and net enrolment rate in primary education, by sex, 2013-2017

			OFFICIAL	POPULATION AGE	D			
YEAR	SEX	ENROLMENT	ENROLMENT	6-13	GER (%)	NER (%)	GPI:GER	GPI:NER
	Male	1,023	1260	1206	117.86%	104.49%		
2013	Female	928	1183	1104	118.97%	107.18%		
	Total	1951	2443	2310	118.39%	105.76%	1.01	1.03
	Male	965	1080	1084	112.34%	99.65%		
2014	Female	892	1068	1035	115.99%	103.25%		
	Total	1857	2149	2119	114.07%	101.35%	1.03	1.04
	Male	895	863	939	104.92%	91.91%		
2015	Female	834	881	909	109.02%	96.86%		
	Total	1729	1744	1848	106.86%	94.25%	1.04	1.05
	Male	904	934	964	106.60%	96.93%		
2016	Female	829	844	889	107.24%	94.95%		
	Total	1733	1778	1853	106.91%	95.99%	1.01	0.98
	Male	954	1086	1074	112.63%	101.06%		
2017	Female	826	862	884	106.99%	97.54%		
	Total	1780	1948	1958	109.94%	99.38%	0.95	0.97

In primary education, the GER remained constant between 2015 and 2016. The primary GER is close to 100 percent, meaning the country is able to accommodate all its primary school-age population. It is also important to find out why school enrolment in primary schools is fluctuating over time. For instance, between 2014 and 2015 the enrolment data had reduced. The gap between the GER and the NER for primary education remains large. In 2016, the GER was at 93.3 percent and the NER at 83 percent (Table 7); the difference between the indicators attests to the presence of under and over-aged students (mostly under-aged students) in existing primary schools. The official age for enrolment in the first year of primary school is six years old.

Tuvalu is working towards the EFA goals and the Sustainable Development Goals (SDG 4), and is attempting to ensure that by 2020 all students (boys and girls) in primary schools will have access to quality education. Given all the efforts to improve access in primary education and to implement universal primary education in Tuvalu, the enrolment data show the average GPI for the GER is at 1.03 which indicates gender parity (reached when GPI is between 0.95 and 1.04). The average GPI for the NER is at 1.00 though (Table 7).

Table 9: Gross and net enrolment rate in secondary education, by sex, 2013-2017

YEAR	SEX	ENROLMENT	OFFICIAL ENROLMENT	POPULATION AGED 14-18	GER (%)	NER (%)	GPI:GER	GPI:NER
	Male	276	63	146	52.98%	42.80%		
2013	Female	369	168	273	74.10%	61.45%		
	Total	645	231	420	(%) (%) GPI:GER GPI:NI 52.98% 42.80%	1.44		
	Male	330	107	212	64.20%	50.58%		
2014	Female	397	226	324	81.52%	69.82%		
	Total		59.94%	1.27	1.38			
	Male	318	106	199	62.72%	53.25%		
2015	Female	387	222	320	82.69%	69.44%		
	Total	705	328	519	72.31%	61.03%	1.32	1.30
	Male	301	96	183	60.93%	52.23%		
2016	Female	352	194	282	80.18%	68.79%		
	Total	653	290	466	69.99%	60.02%	1.32	1.32
	Male	280	78	162	57.97%	48.03%		
2017	Female	362	217	311	85.99%	69.60%		
	Total	642	295	474	71.02%	58.08%	1.48	1.45

Source: TEMIS 2018.

Based on the data available in Table 8, at secondary level, the GER declined from 72.31 percent in 2015 to 69.99 percent in 2016. The gap between GER and NER in secondary education is also significant, meaning there are many under- and over-aged students in the two secondary schools. The official age of secondary school in Tuvalu is between 14 and 18 years.

At secondary level, more girls are enrolled in the two secondary schools. The GPI:GER in Secondary schools is at 1.32 in 2016 including its GPI:NER is also 1.32 (Table 8), meaning more female than male students are going to school but that more males are of the official age.

1.2.3 Intake rates in primary (Year 1)

The intake rate for first year of primary schooling indicates the general level of access to primary education. Data on enrolments in Year 1 show the intake rate for six year olds is low (Table 9). The gross intake rate (GIR) is the total number of new entrants in the first year of primary education, regardless of age, expressed as a percentage of the population at the official primary school entrance age. When the GIR exceeds 100 percent, it means the country is able, in principle, to provide its entire school entrance age access to the first year of primary education.

The net intake rate (NIR) is the total number of new entrants in the first year of primary education who are of the official primary school entrance age, six years old, expressed as a percentage of the population of the same age. The NIR shows the level of access to primary education of the eligible population of primary school entrance age.

Table 10: Gross and net intake rate in primary Year 1, 2012-2017

			OFFICIAL	POPULATION	NIR			
YEAR	SEX	ENROLMENT	ENROLMENT	AGED 6	GIR (%)	(%)	GPI:GIR	GPI:NIR
	Male	139	36	125	111.2%	28.8%		
2012	Female	120	24	111	108.1%	21.6%		
	Total	259	60	236	109.7%	25.4%	0.97	0.75
	Male	148	42	127	116.5%	33.1%		
2013	Female	111	26	114	100.0%	22.8%		
	Total	259	68	241	108.7%	28.2%	0.86	0.69
	Male	119	31	130	96.9%	24.6%		
2014	Female	121	28	117	106.0%	26.5%		
	Total	240	59	247	101.2%	25.5%	1.09	1.08
	Male	132	32	134	99.3%	23.9%		
2015	Female	129	36	122	106.6%	29.5%		
	Total	261	68	256	102.7%	26.6%	1.07	1.23
	Male	108	23	139	77.7%	16.5%		
2016	Female	111	21	128	86.7%	16.4%		
	Total	219	10	267	82.0%	16.5%	1.12	0.99
	Male	111	35	127	114%	28%		
2017	Female	101	16	88	87%	18%		
	Total	212	98	426	201%	23%	0.76	0.64

Source: TEMIS 2018.

The gross intake rate has reached the lower rate of 82% in 2016 while previously that rate was exceeding 100%, being the evidence of late starting ages or sometimes an indication of data reliability issues surrounding age.

The GPI value was above 1 in 2016 which indicates disparity in favour of girls in primary Year 1. The GPI measures progress towards gender parity in education participation or learning opportunities available for girls in relation to those available to boys.

Figure 5: Gross intake rate for Year 1 and its GPI

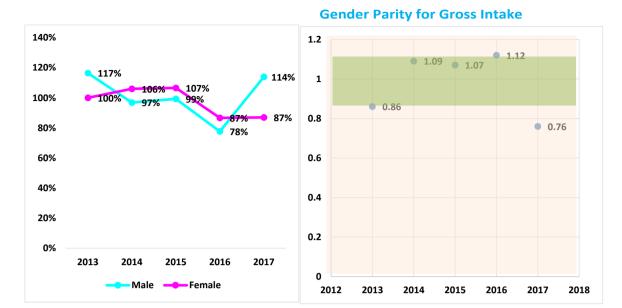
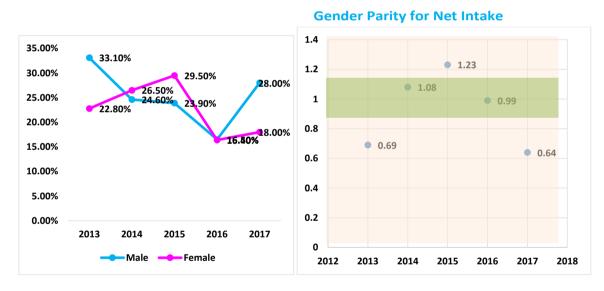


Figure 6: Net intake rate for Year 1 and its GPI



The Mandatory Primary Education Policy may have played a key role in achieving a high GIR in primary Year 1 between 2012 and 2015."This resulted in a high GIR in primary Year 1 from between 2012 and 2015. However, the high GER for ECCE suggests a large number of six year olds were enrolled in ECCE programmes in 2015. This seems to have slightly changed in 2016 since the GIR have significantly decreased by 20% which should be due to the population estimates used.

Based on information in Figure 6, the NIR for Tuvalu is very low (at 16.5 percent in 2016, a 10% decrease compared to 2015). Low NIRs in primary globally may either be the result of low overall participation in the education system or be an indication of a tendency for children to start at an earlier / later age in a particular country. In Tuvalu, it is a factor of an early starting age, as a vast majority of five year olds are enrolled in primary schools (75%)¹.

¹ Children can be 5 years old in January when they enroll as long as they turn 6 by December 31st of that year.

1.2.4 Percent of Year 1 students with ECCE experience

Participation in high-quality ECCE has significant benefits for children and their future learning ability. MEYS in Tuvalu, compared with other Pacific countries, is also putting a great deal of effort into increasing access in primary education through ECCE enrolment. However, the total percentage of Year 1 students who have ECCE experience had slightly increased by 2 percent in 2016 compared with 2015 whereas a 5% increase in ECCE experience is seen in the year 2017 when compared to 2016 (Figure 7). There is no significant difference between the male's and the female's rates in 2017 unlike in 2013.



Figure 7: New entrants in Primary Year 1 with ECCE experience, 2013 – 2017 (%)

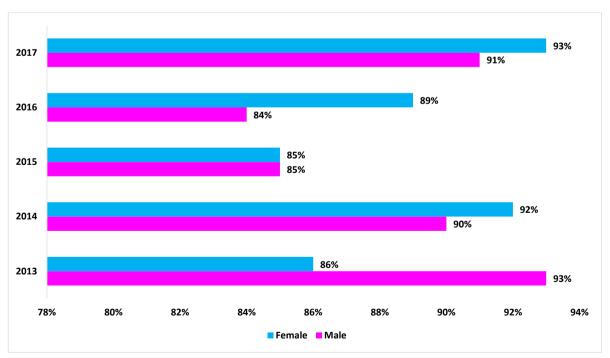


Table 11: New entrants in primary Year 1 who have participated in ECCE programme, by sex and island, 2016

Islands	Y1 students			Н	aving ECCE ex	р	%			
	Male	Female	TOTAL	Male	Female	TOTAL	Male	Female	TOTAL	
Funafuti	55	55	110	40	45	85	73%	82%	77%	
Nanumea	6	6	12	6	6	12	100%	100%	100%	
Niulakita	0	1	1	0	1	1	0%	100%	100%	
Niutao	8	2	10	8	1	9	100%	50%	90%	
Nui	8	10	18	8	10	18	100%	100%	100%	
Nukufetau	6	6	12	5	5	10	83%	83%	83%	
Nukulaelae	2	6	8	2	6	8	100%	100%	100%	
Nanumaga	8	4	12	8	4	12	100%	100%	100%	
Vaitupu	15	21	36	14	21	35	93%	100%	97%	
Total	108	111	219	91	99	190	84%	89%	86.8%	

Table 12: New entrants in primary Year 1 who have participated in ECCE programme, by sex and island, 2017

Islands	Y1 students			Н	aving ECCE ex	р	%			
	Male	Female	TOTAL	Male	Female	TOTAL	Male	Female	TOTAL	
Funafuti	79	57	136	70	51	121	89%	89%	89%	
Nanumea	9	7	16	9	7	16	100%	100%	100%	
Niulakita	1	0	1	1	0	1	100%	0%	100%	
Niutao	6	5	11	6	5	11	100%	100%	100%	
Nui	4	6	10	3	6	9	75%	100%	90%	
Nukufetau	8	5	13	7	4	11	88%	80%	85%	
Nukulaelae	3	5	8	3	5	8	100%	100%	100%	
Nanumaga	6	3	9	6	3	9	100%	100%	100%	
Vaitupu	12	10	22	12	10	22	100%	100%	100%	
Total	128	98	226	116	91	207	91%	93%	92%	

Just like in 2015, Funafuti primary schools in the year 2016 had the lowest percentage of new entrants with ECCE participation in primary Year 1. Females were more likely to have ECCE experience than their male counterparts.



1.3 Strengthening assessment to improve learning and teaching

1.3.1 Outcome-based education and assessment reform

As a result of a 2014 policy directive, Tuvalu has embarked on an outcome-based education (OBE) reform. This process involves restructuring the curriculum, assessment and reporting practices in education to reflect the achievement of high order learning and mastery of specific skills and knowledge.

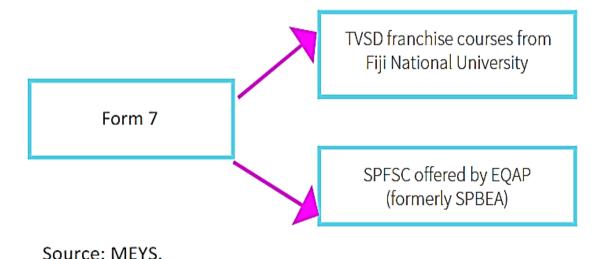
MEYS launched the Tuvalu National Curriculum Policy Framework (TNCPF) in 2013, as a guiding framework for all curriculum requirements, from ECCE to Year 12. The TNCPF proposes an outcome-based curriculum on which the design and development of the syllabi, materials and resources; assessment and reporting; and teacher training and professional development are based. It also recognizes that the learning journey is different for each and that some students may require more support and others less to achieve their desired learning outcomes. In line with the new outcome-based curriculum, assessments have been modified to assess students' learning against the stipulated learning outcomes. This is said to portray the true picture of a student's learning rather than scaled results.

The illustrations below contain the list of the outcome-based subjects offered in Years 7 and 8 as well as Year 10. At the senior secondary level, students can select from a diverse range of 12 subjects: English, Maths, Accounting, Biology, Chemistry, Economics, Geography, History, Design technology, Physics, Computer Studies and Agriculture.

Figure 8: Tuvalu outcome-based education subjects, 2016

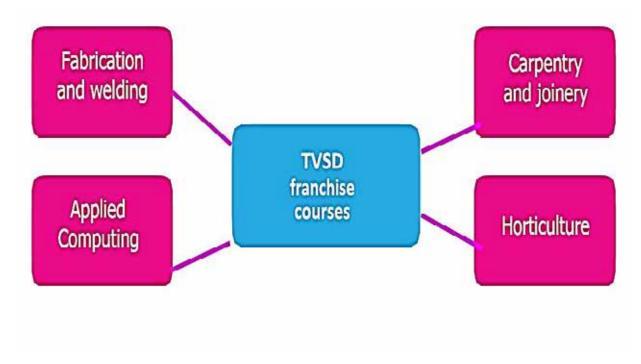


For Form 7 (Year 13), students have an option to choose between two learning pathways: a technical pathway or an academic pathway.



The Franchise programs offered by Fiji National University in 2016 and 2017 to students in Tuvalu are illustrated as follows.

Figure 9: Number of TVSD franchise programmes, 2016



Source: MEYS

1.3.2National assessments in Tuvalu

Currently, Tuvalu has standardized national examinations for the following levels/classes. Subsequent sections of the report discuss these examinations further.

Year 8: 50% and better for their aggregate of English plus best 3 subjects

Year 10: 50% and better for their aggregate of English plus best 5 subjects

Year 12: 50% and better for their aggregate of English plus best 3 subjects

Year 13: Have an Achieve pass in English and 3 other subjects

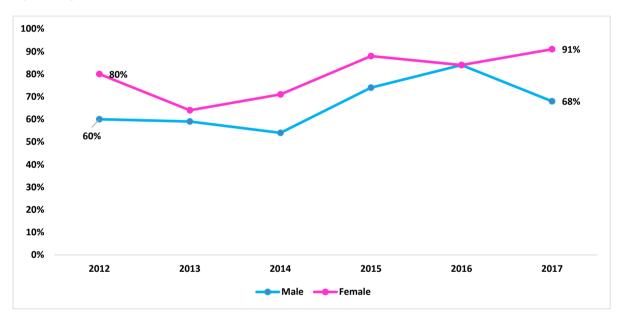
Figure 10: National examination and assessment in Tuvalu



1.3.3 National Year 8 Examination

MEYS, in its efforts to accelerate achievement of the Millennium Development Goals, identified some challenges in the delivery of quality education in Tuvalu. One of the metrics used to analyze these was the low pass rate on the National Year 8 Examination (NYEE). In 2013, EdDep set a target for all schools to aim for a pass percentage of 70 percent or more on the national exam. Students who do not pass the examination are given a chance to repeat/retake it the following year. However, Fetuvalu Secondary School in Funafuti, which is not run by government, does not use NYEE results as an admission criterion for students. Prior to 2013, the NYEE was set by EdDep and assessed externally. However, in 2014, in line with the OBE reform, EdDep introduced a component of internal assessments to bring testing methods more in line with instructions. The change in methodology was to ensure assessment approximated closely with what students needed to know and be able to do, with the assumption that it cannot always be comprehensively and accurately assessed through standardized questions on a time-bound examination. Internal assessment tasks delivered and assessed by the teachers contributed to 10 percent of the final grade, with 90 percent externally assessed through a standardized national examination (NYEE). Furthermore, in 2015, the weight for internal assessments increased to 30 percent to promote assessment of higher order skills through varied tasks.

Figure 11: National Year 8 Examination (NYEE) pass rate, by year and sex, 2012-2017



Source: MEYS

Based on the data available on Figure 11, the country exceeded the MEYS target of a 70 percent pass rate in exams since it reached 84%. The overall pass percentage for all subjects has increased by 3 percent between 2015 (81% of pass rate) and 2016, while that pass rate was at 63 percent in 2014. The pass rate for female students decreased from 88 percent in 2015 to 84 percent in 2016, while the pass rate for male students increased greatly from 74 percent to 84 percent between 2015 and 2016.

Figure 12: National Year 8 Examination pass rate, by school and subject, 2016

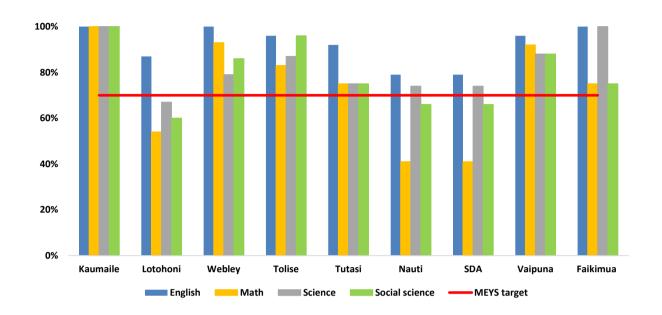
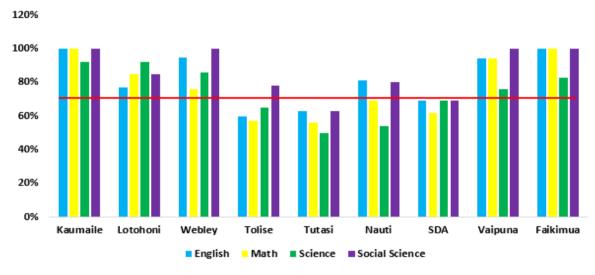


Figure 13: National Year 8 Examination pass rate, by school and subject, 2017



Source: Assessment Unit, MEYS, 2017

Based on the data in Figure 12, the pass rate on average for all schools for Social Science is higher than that for other subjects (65 percent). English, Science and Mathematics continue to be areas that have an average pass rate of between 55 and 60 percent like in 2015.

Table 13: NYEE pass rate, by subject and sex, 2016

ISLAND	ı	ENGLISH			матн		BASIC SCIENCE			SOCIAL SCIENCE		
	М	F	Т	М	F	Т	М	F	Т	М	F	Т
Nanumea	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Nanumaga	90%	80%	87%	50%	60%	54%	60%	80%	67%	50%	80%	60%
Niutao	100%	100%	100%	100%	86%	93%	72%	86%	79%	86%	86%	86%
Vaitupu	100%	94%	96%	100%	74%	83%	88%	87%	87%	100%	94%	96%
Nukufetau	100%	84%	92%	84%	67%	75%	84%	67%	75%	84%	67%	75%
Funafuti	83%	75%	79%	43%	39%	41%	76%	72%	74%	63%	70%	66%
Nui	89%	100%	96%	78%	100%	92%	67%	100%	88%	67%	100%	88%
Nukulaelae	100%	100%	100%	80%	67%	75%	100%	100%	100%	80%	67%	75%

Source: MEYS.

Table 14: NYEE pass rate, by subject and sex, 2017

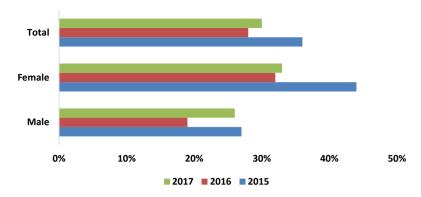
ISLAND		ENGLISH	•		MATH BAS		SIC SCIENCE		soc	SOCIAL SCIENCE		
	М	F	Т	М	F	Т	М	F	Т	М	F	Т
Nanumea	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Nanumaga	57%	83%	69%	71%	100%	85%	86%	100%	92%	57%	100%	77%
Niutao	88%	100%	95%	63%	77%	71%	75%	92%	86%	100%	100%	100%
Vaitupu	47%	88%	61%	40%	88%	57%	40%	88%	57%	60%	100%	74%
Nukufetau	50%	83%	63%	60%	50%	56%	50%	50%	50%	50%	67%	56%
Funafuti	68%	89%	80%	66%	69%	67%	45%	64%	55%	68%	87%	78%
Nui	83%	100%	94%	83%	100%	94%	83%	73%	76%	100%	100%	100%
Nukulaelae	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Niulakita	0%	-	0%	100%	-	100%	100%	-	100%	0%	-	0%

Source: MEYS.

Subject-wise analysis of the 2016 NYEE results by island shows that Nanumea and Nukulaelae have the highest pass percentages for English language, while Nanumea was able to record 100 percent pass rates for math and Social Science. Nanumea and Nukulaelae were able to record 100 percent pass rates for Basic Science. Results show that the examination for Math is the new challenging subject for schools across islands and especially in Funafuti which has the largest population of Year 8 students and scored the lowest pass rate in math

1.3.4 Tuvalu Junior Certificate examination (Year 10), 2015 – 2017

Figure 14: Tuvalu Junior Certificate pass rate, by year and sex



Source: MEYS National Assessment Unit 2018

Table 15: TJC pass rate, by subject, 2012–2017 (%)

YEAR	ENGLISH	MATHS	SCIENCE	S/SCIENCE	COMMERCE	AGRICULTURE	H/ECONOMIC	B/TECHNOLOGY	OVERALL PASS RATE (%)
2012	29	14	31	14	54	31	4	45	31
2013	41	35	27	10	52	56	25	20	32
2014	70	61	37	53	26	75	56	97	44
2015	54	32	29	29	15	56	26	35	36
2016	50	11	8	49	13	17	10	6	28
2017	43	70	36	47	37	34	21	69	31

Source: MEYS National Assessment Unit 2016&2017.

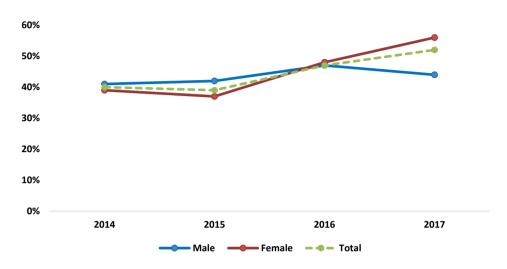
Table 16: TJC pass rate by sex, 2012–2017

	NO. SITTING		NO. PASSING	G	TOTAL	% PAS	SING	TOTAL	TOTAL %
YEAR	Male	Female	Male	Female	PASS	Male	Female	SITTING	PASSING
2012	47	73	14	23	37	30%	32%	120	31%
2013	49	66	7	30	37	14%	45%	115	32%
2014	74	56	13	44	57	18%	79%	130	44%
2015	45	57	12	25	37	27%	44%	102	36%
2016	27	59	5	19	24	19%	32%	86	28%
2017	39	60	11	20	31	28%	33%	99	31%

Source: MEYS National Assessment Unit 2016& 2017.

At Form 4 (or Year 10) level, there are nine subjects set for the Tuvalu Junior Certificate (TJC) national exam. Recent data show that the pass rates for the Year 10 examination has been decreasing in the past three years with male students (19%) achieving significantly less than girls (32%).

Figure 15: Tuvalu Senior Secondary Certificate pass rate, by sex, 2014-2017



Source: MEYS National Assessment Unit 2017

		PASS RATE (YEAR 12)			
SUBJECT	2013	2014	2015	2016	2017
Accounting	58	52	78	13	8
Biology	50	51	84	36	37
Chemistry	46	53	87	45	31
Economics	48	47	83	15	37
English	52	56	85	41	77
Geography	44	43	81	54	59
History	48	43	71	54	53
Maths	42	46	83	20	20
Physics	50	54	88	46	45
Agriculture	59	56	86	74	58
Computer	61	62	87	74	47
Studies					
Design Technology	59	68	88	67	36

Table 17: Tuvalu Senior

Secondary Certificate pass rate per subject, 2013–2017

Source: MEYS National Assessment Unit 2016.

Table 18: Tuvalu Senior Secondary Certificate pass rate, by sex, 2013–2017

YEAR	NO. SA	AT	NO. PAS	S	TOTAL PASS	% PA	SS	TOTAL	OVERALL% SAT PASS
	Female	Male	Female	Male		Female	Male		
2013	66	32	26	13	39	39.4%	40.6%	98	40%
2014	66	40	23	13	36	34.8%	32.5%	106	34%
2015	62	31	23	13	36	37.1%	41.9%	93	39%
2016	46	30	22	14	36	48%	47%	76	47%
2017	41	25	23	11	34	56.2%	44%	66	51.5%

Source: MEYS National Assessment Unit 2016.

The Tuvalu Secondary School Certificate (TSSC) examinations in 2016 resulted in a 47 percent pass rate, implying that 53% of the students did not pass. This is, however, an improvement by a factor of 8% in comparison to the 2015 pass rate with quite a significant increase of 11% for female pass rates alone. A further improvement of 4.7 percent is noted when comparing the overall pass rate in 2016 and 2017.

Based on information available in Table 15 and Table 17, the proportion of students passing both the TJC and the TSSC shows that a little bit more than one in three students will pass TJC and almost half of the students have passed TSSC. The average pass rate for the TJC for the past five years at 34 percent, and that for the TSSC at 40 percent for the past four years. In general, the pass rate for the TJC has lowered for both girls and boys, while over the past four years females have fared slightly better than males in the TSSC. A range of factors has contributed to this, including the elective subjects studied by girls and boys.

1.4 Improving internal efficiency of the education system

While countries like to increase educational participation, higher enrolment is not their only concern. They also seek to ensure that student progress through the education system smoothly, and that they achieve higher levels of education rather than repeating classes or dropping out. Progression from grade to grade at the set standard years of schooling at each grade reflects the internal efficiency of the system, and graduating from that level often signifies that students have met a certain set of standards, whether stated formally or held as a general belief in the minds of the people. Therefore, increasing access to education is often paralleled by improvements in the internal efficiency of education systems. The indicators below are used to determine the internal efficiency of the Tuvalu education system.

1.4.1 Completion of primary education

The primary completion rate is the ratio of the total number of students successfully completing (or graduating from) the last year of primary school in a given year to the total number of children of official graduation age in the population.

Table 19: Completion rate to Year 8, by sex, 2012–2017

YEAR	MALE	FEMALE T	OTAL
2012	75.4%	88.2%	81.0%
2013	84.2%	87.1%	85.6%
2014	89.5%	92.6%	91.0%
2015	93.7%	96.5%	95.1%
2016	83.9%	100.0%	92.8%
2017	75.5%	83.3%	79%

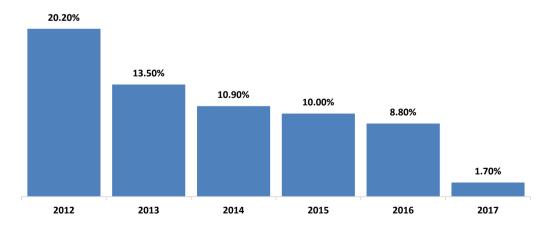
Source: TEMIS 2016.

This indicator is one of the core indicators for the SDG. Over the years, there has been an increasing trend of primary school completion rates, from 81 percent in 2012 to 95.1 percent in 2015 (Table 19). Yet there has been a slight decrease in 2016, mostly due to the rate of males that faced a drop of about 10% compared to 2015. In terms of gender variation, females have seen a higher completion rate than males.

1.4.2 Percentage of repeaters in Year 8

The share of repeaters is given by the total number of pupils who are enrolled in the same level as the previous year, expressed as a percentage of total enrolment in primary education. Progression is not considered smooth when students must repeat one or more years of schooling, or when their participation is interrupted for a period of time. Grade repetition remains an important impediment to efficiency of schooling, and high repetition rates, especially in education systems where demand for education outstrips supply, represent a waste of scarce resources. Traditionally, grade repetition has been used as an indicator of educational inefficiency. Students enrolling in the same grade or year of study a second or further time are classified as repeaters.

Figure 16: Repeaters in Year 8, 2012–2017 (%)



Source TEMIS 2018

MEYS is encouraging automatic promotion in primary schools until Year 8; however, 8.8 percent of students were repeating Year 8 and the NYEE in 2016. Furthermore, the percentage of repeaters in Year 8 has shown a gradual decrease each year since 2012. A difference of 7.1 in repetition rate from year 2016 to 2017 is due to the difference of student intake policy in Fetuvalu Secondary School and the establishment of TVSD in 2017.

1.4.3 Transition from primary to secondary education

This section highlights the number of students advancing from one level of schooling to the next, particularly from primary to secondary. High transition rates indicate a high level of access or transition from one level of education to the next. They also reflect the intake capacity of the next level of education. Inversely, low transition rates can signal problems in the bridging between two cycles or levels of education, because of deficiencies in the examination system or inadequate admission capacity either in the higher cycle or level of education, or both. It could also signal that students are transferring to overseas schools for secondary education. A low transition rate also signifies education wastage, as some students who complete one level of education do not proceed to the next.

Table 20: Transition rate from Primary to junior secondary schools, 2013-2017(%)

YEAR	YEAR 8 ENROLMENT			YEAR 9 ENROLMENT TRANSITION RATE (AS A %)						
	Male	Female	Total	Male	Female	Total	Male	Female	Total	
2013	165	127	292	94	93	187	57.0%	73.2%	64.0%	
2014	156	123	279	100	87	187	64.1%	70.7%	67.0%	
2015	139	130	269	71	95	166	51.1%	73.1%	61.7%	
2016	110	108	218	92	99	191	83.64%	91.67%	87.61%	
2017	108	102	210	75	88	163	69.44%	86.27%	77.62%	

Source: TFMIS 2016.

Transition Rate from Primary to Secondary Education defines transition rate as the number of students admitted to the first grade of a higher level of education (Secondary) in a given year expressed as a percentage of the number of pupils students enrolled in the final grade of the lower level of education in the previous year (Primary Year 8). A growing body of research suggest that the capacities of students to successively progress from one grade of primary school to the next can be linked to their preparedness to join primary education in the first place, among other socio-economic and even environmental factors.

The transition rate from primary to secondary level have remained constant just over the 60% mark for the last four years. The gap between male and female transition rates is now negligible in comparison to previous years.

2. **QUALITY OF EDUCATION**

The following tables and summary analysis present a summary list of indicators used to monitor progress against the TESP II plan and the national M&E framework.

2.1 Strategic outcome monitoring and evaluation indicators

Table 18: Strategic M&E indicators related to quality of education

INDICATOR	2012	2013	2014	2015	2016	2017
Teacher profile						
Number of teachers						
ECCE	58	58	59	66	66	71
Primary	94	92	94	111	115	110
Secondary	67	68	70	61	56	48
Special needs school	2	2	3	3	2	3
% of qualified teachers			,			
ECCE	NA	NA	NA	48%	100%	100%
Primary	100%	100%	100%	93%	100%	100%
Secondary	NA	NA	NA	84%	100%	100%
% of certified teachers			,			
ECCE	100%	100%	100%	100%	100%	100%
Primary	100%	100%	100%	100%	97%	86%
Secondary	100%	100%	100%	100%	72%	63%
Teachers attended in-service	teacher training				1	
ECCE	0	0	0	0	0	2
Primary	3	0	3	4	16	20
Secondary	0	2	1	10	1	NA
No. of teachers contracted/p	aid by government		,		,	
Government						
ECCE	0	0	0	66	66	0
Primary	94	92	94	94	110	100
Secondary	67	68	70	59	43	48
Kaupule (island council)					<u> </u>	
ECCE	58	58	59	0	66	71
Primary	0	0	0	8	5	10
Secondary	0	0	0	0	13	0
Voluntary	1			1		· · · · · · · · · · · · · · · · · · ·
ECCE	0	0	0	0	NA	0
Primary	0	8	8	9	NA	0
Secondary	0	0	0	1	NA	0

Table 18B: Strategic M&E indicators related to quality of education ~ Continued

INDICATOR	2012	2013	2014	2015	2016	2017			
Pupil: teacher ratio									
ECCE	NA	13	12	13	11	9			
Primary	NA	19	21	20	16	16			
Secondary	NA	11	11	11	11	13			
Number of vacant teaching positi	ons at the start	of the academ	ic year						
Primary	0	0	5	2	NA	5			
Secondary	0	0	10	14	NA	19			
% of teaching position filled by te	achers from ot	her countries							
Primary	0	0	8	9	NA	9			
Secondary	0	11	11	11	NA	11			
% of teachers leaving the profess	ion prior to reti	rement age							
Primary	0	0	0	1	NA	NA			
% of ECCE teachers fully and partially funded by government									
ECCE	0%	0%	0%	0%	100%	100%			

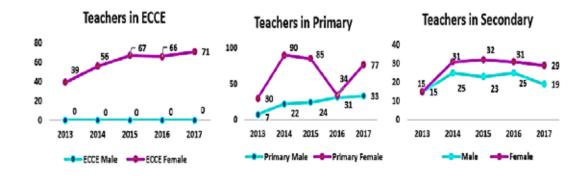
2.2 Teacher trends and qualifications

This section presents information on the availability and quality of teachers across the country. It also tries to determine if teachers have sufficient training, qualifications and preparation to improve the quality of educational provision in the schools of Tuvalu.

In 2016, Tuvalu had 239 full-time teachers (including Fusialofa), of whom 184 are female and 55 are male. There are 66 teachers teaching in ECCE centres, 115 in primary schools, 56 in secondary schools and 2 in the special needs centre of Fusialofa. The number of teachers decreased in primary and secondary level but increased for ECCE and Special School in 2017.

2.2.1 Teacher availability in Tuvalu

Figure 17: Total number of teachers in ECCE, primary and secondary, 2013-2017



Source: TEMIS 2018

Currently, there are only female teachers in the community-managed Pre Schools (ECCE centres) and in primary there are almost three times as many female teachers as male teachers. The number of teachers in ECCE has steadily increased to 71 teachers in 2017, compared with 59 teachers in 2014. At primary level, the total number of female teachers has increased since 2014, but has remained reasonably stable in 2015/16 with an increase to 77 female teachers in 2017. At secondary level, the total number of female teachers has remained constant each year since 2014 but has doubled since 2013 with a slight decrease in 2017.

Table 21: Number of teachers by island and education level, 2016 & 2017

		2016			2017	
ISLAND	ECCE	PRIMARY	SECONDARY	ECCE	PRIMARY	SECONDARY
Nanumea	6	10	Not applicable	5	9	Not applicable
Nanumaga	4	8	Not applicable	4	8	Not applicable
Niutao	4	13	Not applicable	4	11	Not applicable
Nui	5	5	Not applicable	5	9	Not applicable
Vaitupu	5	13	43	8	12	37
Nukufetau	3	10	Not applicable	4	11	Not applicable
Funafuti	29	46	13	38	40	11
Nukulaelae	2	7	Not applicable	2	9	Not applicable
Niulakita	1	3	Not applicable	1	1	Not applicable
Tuvalu	66	115	56	71	110	48

Source: TEMIS 2018.

As seen on Table 21, Funafuti and Vaitupu islands have the highest number of teachers in Tuvalu. The government secondary school of Motufoua has almost 4 times more teachers than the non-government secondary school of Fetuvalu.



2.2.2 Teacher qualification and Education levels

Table 22: Teachers' teaching qualification (%), by education level, 2016

	EC	CE	PRIMA	RY	SECO	NDARY
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE
Certificate in Teaching	0%	89 %	10%	28%	4%	0%
Diploma in Teaching	0%	11%	12%	30 %	13%	7%
Bachelor in Teaching	0%	0%	3%	13 %	26%	48%
Master in Education	0%	0%	1%	4%	2%	0%
Doctorate of Philosophy	0%	0%	0%	0%	0%	0%

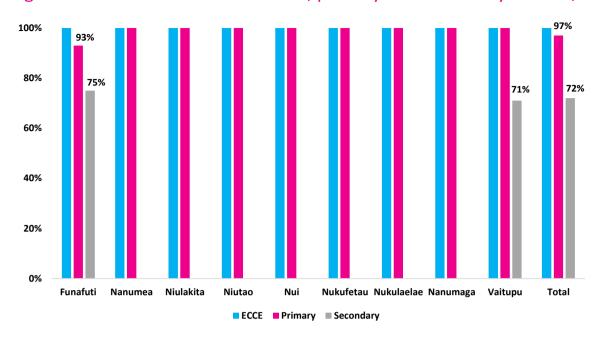
Source: TEMIS 2017

Table 23: Teachers' teaching qualification (%), by education level, 2017

	ECC	Œ	PRIMA	RY	SECONDARY		
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	
Certificate in Teaching	0%	92%	9%	29%	7%	0%	
Diploma in Teaching	0%	7%	12%	23%	3%	13%	
Bachelor in Teaching	0%	1%	1%	12%	30%	33%	
Master in Education	0%	0%	1%	0%	3%	10%	
Doctorate of Philosophy	0%	0%	0%	0%	0%	0%	

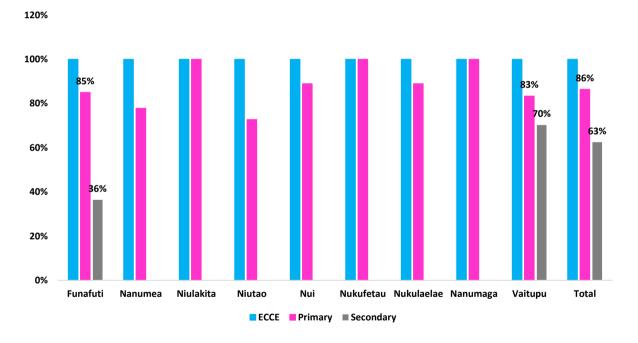
Source: TEMIS 2017

Figure 18: Certified teachers in ECCE, primary and Secondary schools, 2016



Source: TEMIS 2017

Figure 19: Certified teachers in ECCE, Primary and Secondary schools, 2017



Source: TEMIS 2018

A certified teacher in Tuvalu is identified as a teacher who has undertaken specialised post-secondary teacher training and has met the course requirements, with or without other post-secondary qualifications. Thereby, the teacher is certified to teach.

2.3 School organisation

Pupil-teacher ratios (PTRs), while a highly aggregated measure, help indicate the capacity of an education system and assess whether teachers are potentially overburdened or under-utilised. In the latter case, it may thus be possible to accommodate more students without necessarily hiring additional teachers. It should also be noted that several teachers have to prepare multi-level school lessons and cater to different aged students in classes.

A PTR expresses the relationship between the number of students enrolled in a school and the number of "full-time equivalent" teachers the school employs. For example, a PTR of 10:1 indicates that there are 10 students for every fulltime equivalent teaching position. Usually, the number of full-time teachers is a standard measure of teaching capacity in a particular school or island. Because PTRs are a general way to measure teacher workloads and resource allocations in schools, as well as the amount of individual attention a child is likely to receive from teachers, they are often used as broad indicators of the overall quality of a school or an education system as a whole.

EdDep strives to maintain the national PTR of 25:1 for primary schools, 22:1 for secondary schools and 10:1 for ECCE centres. All primary schools are well within the PTR target prescribed by MEYS. However, there is significant variance in PTR ratios between schools on islands. Funafuti generally experiences the highest influx of students from outer-islands throughout the year resulting from short and long-term displacement of families due to reasons such as career and healthcare opportunities.

2.3.1 Pupil-teacher ratio

Table 24: PTR by island in ECCE, Primary and Secondary education, 2016

101.4415	E	CCE	PRIMARY			SECOI	NDARY		
ISLAND	ENROLMENT	TEACHER	PTR	ENROLMENT	TEACHER	PTR	ENROLMENT T	EACHER	PTR
Nanumea	24	6	4	99	10	10	N/A	N/A	N/A
Nanumaga	35	4	10	99	8	12	N/A	N/A	N/A
Niutao	41	4	11	129	13	10	N/A	N/A	N/A
Nui	39	5	8	150	5	30	N/A	N/A	N/A
Vaitupu	93	5	19	203	13	16	342	43	8
Nukufetau	47	3	16	101	10	10	N/A	N/A	N/A
Funafuti	405	36	12	1007	46	22	257	13	20
Nukulaelae	10	2	5	84	7	12	N/A	N/A	N/A
Niulakita	2	1	2	10	3	3	N/A	N/A	N/A
Tuvalu	696	66	11	1,882	115	16	599	56	11

Source: TEMIS 2017.

Table 25: PTR by island in ECCE, Primary and Secondary education, 2017

101.0015	EC	CCE		PRIM	IARY		SECO	NDARY	
ISLAND	ENROLMENT 1	TEACHER	PTR	ENROLMENT 1	TEACHER	PTR	ENROLMENT T	EACHER	PTR
Nanumea	45	5	9	96	9	11	4	-	-
Nanumaga	29	4	7	77	8	10	5	-	-
Niutao	33	4	8	113	11	10	10	-	-
Nui	41	5	8	107	9	12	20	-	-
Vaitupu	91	8	11	200	12	17	345	37	9
Nukufetau	51	4	13	105	11	10	11	-	-
Funafuti	318	38	8	1021	40	26	242	11	22
Nukulaelae	17	2	9	68	9	8	5	-	-
Niulakita	2	1	2	9	1	9	0	-	-
Tuvalu	627	71	9	1,796	110	16	642	48	13

Source: TEMIS 2017.

Based on the data in Table 24, the national PTR for ECCE schools in 2016 was around 1:11 in 2016 and 1:13 in 2017. The PTR for Primary schools in 2016 which are much lower than the national standard PTR for ECCE and primary education of 1:15 and 1:25, respectively. The PTR for Tuvalu is considered low for the Pacific region across all three levels. The PTR by island and level shows that Funafuti's PTR for primary level is the highest for Tuvalu, despite EdDep increasing the number of classrooms and teachers. The PTR is especially low in Nanumea and Niutao, and there is a need for EdDep to revisit its teacher posting policy to ensure a consistent PTR across all schools. Similarly, ECCE centres are well within the prescribed target but there is an extremely low PTR ratio in areas like Nanumea, Nui (and Niulakita given the low number of students).

Table 26: Pupil: qualified teacher ratio, 2016 - 2017

	SCHOOL LEVEL RATIO	TEACHER CERTIFIED	ENROLMENT	STUDENT: CERTIFIEDTEACHER
	ECCE	60	696	12
2016	Primary Year 1-8	100	1740	17
	Secondary Year 9-13	28	691	25
	ECCE	60	627	10
2017	Primary Year 1-8	95	1796	19
	Secondary Year 9-13	30	642	21

The total student: certified teacher ratio (see definition on Figure 18) is at 19:1 in primary schools and 21:1 in secondary schools. Both ratios remain low compared with the standard student: certified teacher ratio for primary and secondary schools.

Table 27: Pupil: qualified teacher ratio, 2016 - 2017

	SCHOOL LEVEL	TEACHER QUALIFIED	ENROLMENT	STUDENT: QUALIFIED TEACHER RATIO
	ECCE	60	696	12
2016	Primary Year 1-8	103	1740	17
	Secondary Year 9-13	39	691	18
	ECCE	60	627	10
2017	Primary Year 1-8	110	179 6	16
	Secondary Year 9-13	48	642	13

A qualified teacher in Tuvalu is identified as a teacher who has undertaken some training and/or post-secondary studies but not any specialised teacher training. Despite having qualifications in different fields and a formal tertiary qualification, he/she does not have specific teacher training qualifications.

The number of qualified teachers is slightly higher than the number of certified teachers, which results in a high pupil: qualified teacher ratio for every school level.

2.3.2 Continuing professional development of teachers

Participation in professional development activities has been shown to have a positive impact on teacher practices. Teachers are shown to benefit a great deal from on-the-job training, often called continuous professional development. EdDep has tried to incorporate professional development more systematically, with technical assistance from regional and development partners. Some recent initiatives include competency-based teacher and school leader professional development.

An in-service training is a professional training or staff development effort, where officers are trained after being appointed by the Personnel & Training Department. Such training is only for civil servants and can be taken outside of Tuvalu.

Table 28: Mobility of Teachers, 2015-2016 and 2016-2017

Islands	% of teachers who stayed in the same school in 2016	% of teachers who stayed in the same school in 2017
Nukulaelae	80%	100%
Nanumea	60%	8200%
Nanumaga	100%	77%
Funafuti	74%	95%
Vaitupu	84%	89%
Nukufetau	43%	85%
Nui	54%	80%
Niutao	44%	89%
Niulakita	75%	100%
TOTAL	72%	86%

Source: TEMIS 2016

As seen on Table 28, most teachers in Tuvalu remained in the same schools between 2015 and 2016 (around ¾ of them remained in the same school) which is often the case in small Pacific Island Countries. The same can be seen for the movement of teachers in 2016-2017.

Table 29: Number of teachers who went through in-service training, 2012–2017

	ı	PRIMARY	SECONDARY				
YEAR	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	
2012	2	1	3	N/A	N/A	N/A	
2013	N/A	N/A	N/A	1	1	2	
2014	1	2	3	0	1	1	
2015	2	2	4	4	6	10	
2016	4	12	16	1	0	1	
2017	2	18	20	NA	NA	NA	

Source: MEYS.

Out of the 17 teachers who attended training, only one was secondary and the others were all primary.

2.4. School Infrastructure and Quality

Tuvalu, through its National Minimum Quality Service Standards (MQSS), envisions that all schools are able to have classroom environments that are well maintained and conducive to teaching and learning. It also promotes the use of learner-centred teaching methods to facilitate active learning.

2.4.1. Student: Classroom Ratio

The tables below show the average number of pupils (students) per classroom in ether ECCE, primary or secondary schools in a given school year. This indicator can help MEYS determine if there is sufficient space for children in a given classroom and if it permits efficient use of space by the teachers to enhance the instructional quality in classrooms.

Table 30: Student: Classroom Ratio by Education Level (SCR), 2012–2017

		NATION	AL LEVEL	
YEAR	SCHOOL LEVEL	CLASSROO MS	ENROLMENT	SCR
	ECCE	18	741	41
2012	Primary	89	1,830	21
	Secondary	27	717	27
	Special needs	1	15	15
	ECCE	18	704	39
2013	Primary	89	1,962	22
	Secondary	27	724	27
	Special needs	1	16	16
	ECCE	18	748	42
2014	Primary	89	1,865	21
	Secondary	27	727	28
	Special needs	1	16	16
	ECCE	18	705	39
2015	Primary	89	1,750	20
	Secondary	27	704	34
	Special needs	1	13	13
	ECCE	18	696	39
2016	Primary	89	1,740	20
	Secondary	27	691	26
	Special needs	1	18	18
	ECCE	18	627	35
2017	Primary	89	1796	20
2017	Secondary	27	642	24
Source: TEMIS 2018	Special needs	1	20	20

Source: TEMIS 2018

Table 31: Student: classroom ratio (SCR), 2012-2017

Year		ECCE			Primary			Secondary		
	No of	No of	SCR	No of	No of students	SCR	No of	No of	SCR	
	Classrooms	students		Classrooms			Classrooms	students		
2012	18	741	41	89	1830	21	27	717	27	
2013	18	704	39	89	1962	22	27	724	27	
2014	18	748	42	89	1865	21	27	727	27	
2015	18	705	39	89	1750	20	27	704	26	
2016	18	721	40	89	1882	21	27	599	22	
2017	18	627	34	89	1796	20	27	642	24	

Source: MEYS.

It is difficult to determine the exact size of the current classrooms especially at the island level because of a lack of data available in TEMIS. However, the average student: classroom ratio in ECCE centres is 40 students per classroom. At primary level, there are around 21 students in a classroom, which aligns with the standard norm of approximately 25–30 students per classroom. At secondary level, the student: classroom ratio is 22 students in 2016, with the standard norm being 20–30 students to a classroom. This has significantly dropped from the previous year's SCR of 34.

2.4.2 School Annual Improvement Plans by School-Based Management

MEYS, through a decentralization of education governance reform, has been promoting decision-making at the school level through school-based management initiatives and supporting schools with technical assistance and capacity-building initiatives. School Management Committees have been established and school improvement plans using school grants have been developed for all ECCE centres and primary, secondary and special needs schools in Tuvalu. These plans have been aligned with newly endorsed Minimum Quality Service Standards for schools. The MQSS aim at ensuring children receive the same quality of education across islands. All early childhood and primary schools, including the school for children with special needs, have received small grants to assist them to implement their school improvement plans to meet the standards.

Figure 20: Schools with school annual improvement plans, 2016 and 2017 (%)

ECCE - 100% 10 in 10 (2016)	Primary – 100% or 10 in 10(2016)	Secondary – 50% 1 in 2(2016)
ECCE - 100% 10 in 10 (2017)	Primary – 100% or 10 in 10 (2017)	Secondary – 100% 2 in 2 (2017)

Source: MEYS.

In 2015, 100 percent of ECCE centres and primary schools and 50 percent of secondary schools submitted their school improvement plans to MEYS. School improvement plans have short- medium- and long-term improvements for four key focus areas: students and learning, leadership and management, community and partnership as well as learning environment.

2.4.3 . Water supply

Table 32: Water supply by school in 2016 and 2017

		20	16	20	017
	School Name	Has clean water	No clean water	Has clean water	No clean water
	Suesue Memorial Pre S		Х		X
	Fakaifou Pre S	$\sqrt{}$		V	
	Lofeagai Pre S	$\sqrt{}$		V	
	AOG Pre S	$\sqrt{}$		V	
	Vaiaku Pre S		Х	V	
	Olave Orkey Pre S		Х		X
	Hologa O Kautama Pre S		Х		X
	Afaga o Maumau Pre S		Х		Х
ECCE	Nanumaga Pre S	$\sqrt{}$		V	
ECCE	Vaimele Pre S	NA	NA		Х
	Lasagafou Pre S	NA	NA	V	
	Ulukoloa Pre S	V		V	
	Niulakita Pre S	$\sqrt{}$		V	
	Niutao Pre S	NA	NA		Х
	Punavai Pre S	NA	NA		Х
	Nukufetau Pre S		Х	V	
	Grace Pre S	V		V	
	Funafuti Pre S		Х		Х
	Faikimua Primary School	$\sqrt{}$		V	
	Kaumaile Primary School	V		V	
	Lotohoni Primary School	$\sqrt{}$		V	
	Nauti Primary School		Х		Х
Primary	Seventh Day Adventist Primary School	V		V	
·	Tolise Primary School	V		V	
	Tutasi Primary School	V		V	
	Vaipuna Primary School	V		V	
	Webley Primary School		Х	V	
	Lotoalofa Primary School	V		V	
Special	Fusialofa	V		V	
Secondary	Motufoua Sec S	V		V	
Secondary	Fetuvalu Sec S		Х		Х
	TOTAL	17	10	21	10
	% of schools	63%	37%	68%	32%

Source: TEMIS 2018

On average 63% of schools in Tuvalu have access to drinking water from an improved source at the school; Schools with an improved drinking water source available at the time of the questionnaire will be classified as having 'basic' service. Table 30 above shows which schools are providing fully drinkable water throughout the year in Tuvalu. Around two third of 27 schools (including 8 out of 10 primary schools) have filtered, boiled or purified water in tanks, wells or pipes for the year 2016. Consistent supply of drinkable water was not only an issue for remote islands, but also on Funafuti considering both Fetuvalu and Nauti in Schools seem to be unable to deliver drinkable water. In addition, data suggest that 82% of schools in Tuvalu in 2016 have access to adequate sanitation and 78% of schools having access to handwashing facilities. However, in some cases, reported data do not include the quality of the wash service provided in schools.



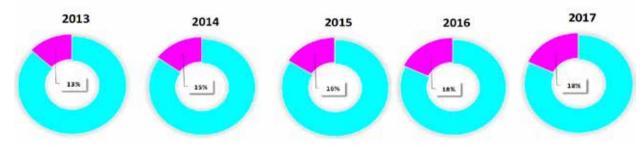
3.1 Strategic outcome monitoring and evaluation indicators

Table 33: Strategic M&E indicators related to management and financing (in AU\$)

INDICATORS	2012	2013	2014	2015	2016	2017		
Budget (%) support to education media communication programmes for schools and communities.	3%	3%	3%	2%	2%	NA		
Number of meetings between EdDep and Kaupule	0	0	1	1	NA	NA		
% of education (recurrent) expenditure as % of total government expenditure	14%	19%	15%	14%	21%	21%		
% of education expenditure as % of GDP	13%	13%	15%	16%	18%	18%		
Education expenditure by level education	cation (in \$AU)							
ECCE	\$114,915	\$109,770	\$124,827	\$464,843	\$512,720	\$644,004		
Primary	\$1,364,36 1	\$1,738,391	\$1,738,39 1	\$1,738,39 1	\$2,014,74 2	\$2,292,76 8		
Secondary	\$1,748,57 6	\$1,674,506	\$2,205,70 3	\$2,156,65 8	\$2,181,62 3	\$2,520,98 2		
Unit cost per student								
ECCE	\$157	\$156	\$167	\$662	\$736.67	\$1,027.12		
Primary	\$728	\$718	\$851	\$993	\$1,157.90	\$1,276.60		
Secondary	\$2,363	\$2,313	\$2,941	\$2,941	\$3,157	\$3,926.76		
% share of funding support by donors	29.90%	9.80%	54.80%	42.90%	23.10%	24.3%		
% share of expenditure on teachers	% share of expenditure on teachers' salaries by level of education, as % of total education budget							
ECCE	1.10%	1.30%	1.30%	8.60%	5.70%	4.32%		
Primary	20%	20%	19%	18%	18.90%	17.32%		
Secondary	16%	16%	16%	12%	14.30%	14.1%		

3.2 Education financing

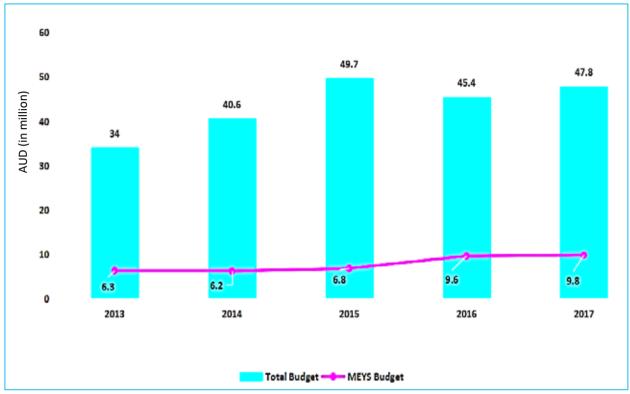
Figure 21: MEYS education expenditure, 2013-2017 (% of GDP)



Source: GDP from IMF 2014 Article IV report. GDP 2013 & 2016 are estimates and 2014/15 is forecast.

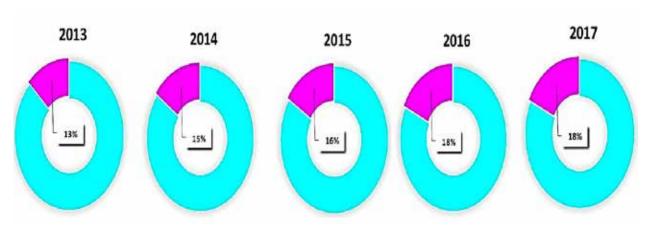
MEYS expenditure, as a percentage of the GDP of Tuvalu, has been steadily increasing year on year and increased by 2 percent in 2016 on the figure from 2015. A higher percentage of GDP spent on education shows a higher government priority for education, but also higher capacity of the government to raise revenues for public spending or to procure funds from international sources, in relation to the size of the country's economy.

Figure 22: MEYS and Tuvalu Government budget, 2013- 2017 (recurrent expenditure in AU\$ million)



Source: MEYS

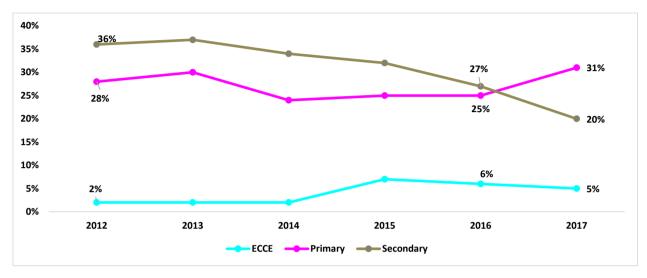
Figure 23: MEYS budget as proportion of Tuvalu government budget, 2013 – 2017



Source: MEYS

Figure 22 and 23 are illustrating the share of education compared with the government budget from the years 2013 to 2017. The MEYS recurrent budget has been constantly increasing since 2014 and more particularly in 2016 that recorded a high raise as shown on Figure 21. The budget allocated to education, youth and sports is the highest of the country; the second highest budget is that of Ministry of Health and that of the Ministry of Communication and Transport. Education is thus an important sector of investment for the country.

Figure 24: Share of Education expenditure of total EdDept Expenditure, by level of education (%)



Source: MEYS

In general, the share of expenditure by level of education as a percentage of the total EdDep expenditure has only been increasing for ECCE since 2012 (from 2% to 6%) while the rates of the other two levels of education have been decreasing. From 2015 to 2016, ECCE and Secondary's rates have witnessed a decrease (1% decrease for ECCE and 5% for Secondary) while that of Primary remained steady at 25%. The movement of year 9 students from secondary to primary in year 2016 caused changes in Budget planning for the year 2017.



Tuvalu government administrative building. Fongafale Island. Funafuti Atoll. Tuvalu

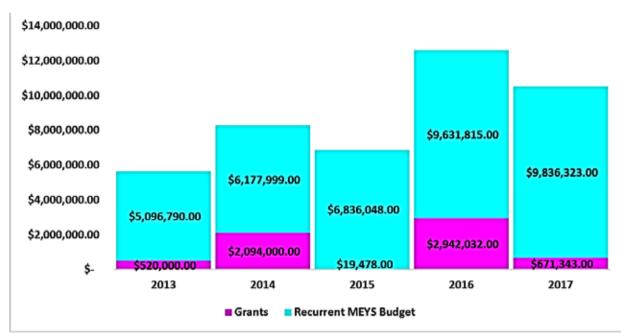
Table 34: Cost of expenditure per student, by education level, 2012-2017 (AU\$)

VEAD		UNIT COST PER ST	TUDENT
YEAR	ECCE	PRIMARY	SECONDARY ²
2012	\$ 156.56	\$ 728.44	\$ 2,362.94
2013	\$ 156.37	\$ 717.51	\$ 2,312.85
2014	\$ 166.88	\$ 850.70	\$ 2,940.94
2015	\$ 662.17	\$ 993.37	\$ 3,067.79
2016	\$736.67	\$1,157.90	\$3,157.20
2017	\$1,027.12	\$1,276.60	\$3,926.76

Source: MEYS.

Cost per child expenditure has increased by at least 15% for all three levels of education from 2015 to 2016 and 2016 to 2017. Given the absorption of ECCE teacher salary into MEYS's expenditure in 2015, ECCE had the lowest increase of 6.9% compared with Secondary, which had the highest increase of more than 19%. A 39% increase in ECCE cost per child from year 2016 to 2017.

Figure 25: MEYS source of funds, recurrent budget and Grants, 2013 - 2017 (AU\$)



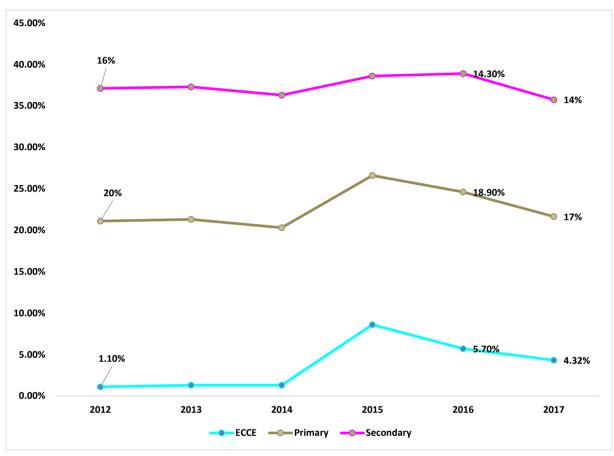
Source: MEYS.

External budget support to Tuvalu has been increasing steadily year on year, through grants from external sources – through both donors and development partners. The Department of Foreign Affairs and Trade (DFAT) continues to be the major donor investing in the education sector in Tuvalu. DFAT helped in two projects for Tuvalu in 2016: Education for All (EFA) and Funafuti Primary School.

² Secondary includes the cost of boarding.

2013 grants does not include DFAT and UNICEF contribution to the education sector in Tuvalu

Figure 26: Teachers' salary by level of education, 2012-2017 (% of total **Education budget)**



Source: MEYS

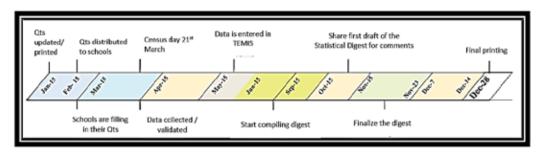
Teachers' salaries as a percentage of the total education budget have been constantly decreasing for all school level teachers since 2015.

Annex 1: Annual school survey methodology

TEMIS survey instrument

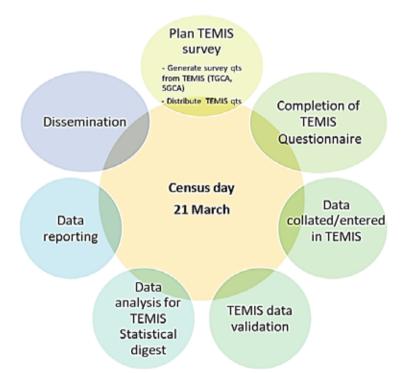
The survey data collection timeframe is between January and March each year. The survey instrument is updated and printed by EdDep in January each year. There are three different survey forms for each level of education (ECCE, primary and secondary).

Annual school survey timeline (end dates for each major activity



TEMIS data collection process

The data collection process for TEMIS covers seven different phases.



The survey questionnaires were printed bv the Education Department (EdDep) and then distributed to all schools in early March. School head teachers and principals take the whole month to complete the questionnaires based on school records. MEYS is then more knowledgeable about the quality of data provided by schools. As a way forward, MEYS developed a data collection procedure manual for all schools in October 2015. DOE conducted data validation exercise in December 2015.

Annex 2: Definitions

Age participation rate: The percentage of enrollments at a specific level for children of a specific age, usually the official age for that level of schooling.

Primary education Year 1 – 8: MEYS defines primary education as consisting of Year 1 to Year 8.

Dropout rate: Proportion of pupils from a cohort enrolled in a given grade at given school years that are no longer enrolled in the following school year.

Dropout: Students who dropped out in 2015 for unknown reasons.

Absent: Number of students absent during TEMIS survey completion.

Transfer in: Number of students who transferred into a school from another school within the country or from another country.

Transfer out: Number of students who transferred out to another school whether within the country or in another country.

Not attending school regularly: Students who enrolled at the beginning of 2015 but were not attending school regularly for unspecified reasons

ECCE: Early childhood care and education focused on age's three to five in Tuvalu.

Gross enrollment ratio: Total enrollment in ECCE, primary or secondary education expressed as a percentage of the total population of children who are of the official age group for that level of education.

Gross intake rate: Total enrollment in a defined school level (e.g. Year 1) as a percentage of the total population of children who are of the official age group for that level of education (e.g. aged six years).

Gender Parity Index: The female value for any indicator is divided by the male value to show the gender parity of the indicator with a value of 100 or very close to it indicating gender parity; a value over 100 indicates a difference in favor of females and a value less than 100 a difference in favor of males.

Junior secondary Year 9-10: MEYS defines the junior secondary cycle of education as Year 9-10.

Net enrollment ratio: Total enrollment of pupils of the official school age group as a percentage of the total population of children who are official age group for that level of schooling.

Net intake rate: Total enrollment of pupils of the official age in a defined school level (e.g. Year 1) as a percentage of the total population of children who are of the official age group for that level of education (e.g. aged six years).

Primary education Year 1 – 8: MEYS defines the primary cycle of education as consisting of Year 1 to Year 8.

Promotion rate: Proportion of pupils from a cohort enrolled in a given grade at a given school year who studies in the next grade in the following school year.

Repeater rate: Total number of pupils who are enrolled in the same grade as in a previous year, expressed as a percentage of the total enrollment to the specified grade.

TEMIS: TEMIS includes statistical data from 3 main data sources: the Annual School Survey, the results of examinations and financial information from MEYS and the Ministry of Finance.

Annex 3: TEMIS survey response rate by island, 2016 and 2017

ISLAND	ECCE	PRIMARY	SECONDARY
Nanumea	100%	100%	
Nanumaga	100%	100%	
Niutao	100%	100%	
Nui	100%	100%	
Vaitupu	100%	100%	100%
Nukufetau	100%	100%	
Funafuti	100%	100%	100%
Nukualaelae	100%	100%	
Niulakita	100%	100%	
Total	100%	100%	100%

Source: MEYS.

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Annex 4: Enrolment by school, by island and education level, 2014–2017

	F	45	100	0	29	82	0	33	123	0	41	127	0	91	219	326	51	116	0	318	1078	185	17	73	0	2	6	0	3,065	
	u.	28	45	0	14	32	0	16	65	0	21	63	0	43	86	130	27	54	0	162	504	95	6	40	0	0	4	0	1,447	
2017	Σ	17	55	0	15	50	0	17	58	0	20	64	0	48	121	196	24	62	0	156	574	93	8	33	0	2	5	0	1,618	
	F	24	100	0	35	100	0	41	126	0	39	146	0	93	204	356	47	97	0	405	296	243	10	82	0	2	10	0	3,127	
	u.	7	43	0	14	41	0	15	62	0	21	71	0	48	97	212	24	47	0	200	466	116	7	47	0	0	5	0	1,543	
2016	Σ	17	57	0	21	59	0	26	64	0	18	75	0	45	107	144	23	50	0	205	501	127	3	35	0	2	5	0	1,584	
	-	43	87	0	38	103	0	46	118	0	43	133	0	104	182	468	42	119	0	362	911	236	24	85	0	3	12	0	3,159	
	u.	20	36	0	13	45	0	16	63	0	24	63	0	57	82	281	20	64	0	175	443	104	15	48	0	1	2	0	1,575	
2015	Σ	23	51	0	25	58	0	30	55	0	19	70	0	47	100	187	22	55	0	187	468	132	6	37	0	2	7	0	1,584	
	, H	51	106	0	42	125	0	46	162	0	46	139	0	68	174	200	37	66	0	401	978	227	27	89	0	6	14	0	3,340	
	u.	24	44	0	14	48	0	19	92	0	23	99	0	44	9/	291	21	53	0	191	469	106	17	41	0	4	2	0	1,648	
2014	Σ	27	62	0	28	77	0	27	70	0	23	73	0	45	86	209	16	46	0	210	509	121	10	27	0	2	6	0	1,692	
2014	LEVEL	ECCE	Primary	Secondary	ECCE	Primary	Secondary	ECCE	Primary	Secondary	ECCE	Primary	Secondary	ECCE	Primary	Secondary	ECCE	Primary	Secondary	ECCE	Primary	Secondary	ECCE	Primary	Secondary	ECCE	Primary	Secondary		.16.
	ISLAND	Nanumea			Nanumaga			Niutao			Nui			Vaitupu			Nukufetau			Funafuti			Nukulaelae			Niulakita			Total	Source: TEMIS 2016.

Annex 5: Age / Grade table for all schools, 2016

YEAR 13																	29	21	6	2		61	11	29	21
																	, 4	. •					` '	. 4	, ,
YEAR 12															2	80	38	9	1			127	7	82	38
YEAR 11															80	62	18	1	4			165	23	80	62
YEAR 10													က	72	61	7	2					145	6	75	61
YEAR 9												1	71	98	25	33			1			187	29	72	98
YEAR 8										1	3	126	82	13	2	1						228	16	130	82
YEAR 7									1	Т	153	20	2									207	2	155	50
YEAR 6									4	133	71	6										217	6	137	71
YEAR 5	1							2	157	53	2		1									216	က	159	53
YEAR 4						1	4	151	99	2												227	ιO	156	99
YEAR 3						2	155	09	က	1	1											222	5	157	09
YEAR 2					1	184	69	5				1										260	9	185	69
YEAR 1			П	2	166	44	2		1													219	9	169	44
ECCE	3	158	228	252	9/	3	1															721	4	158	556
AGE	NA	2	٣	4	2	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	> 20	TOTAL	Over the official age	Under the official age	Official-aged

Annex 6: Age / Grade table for all schools, 2017

NA	AGE	ECCE	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 8	YEAR 9	YEAR 10	YEAR 11	YEAR 12	YEAR 13
12 1	٨	0													
180 180 <td>5</td> <td>12</td> <td></td>	5	12													
202 2 3 4	3	180													
22 2.18 2	4	205													
8 218 25 1 2 1 2 1 2 4 2 4	5	222	2												
1 3 256 1 2 4	9	8	218	2											
1 3 247 2 4	7	1	3	226	П										
1 1	8		П	m	247	2									
1 1 2 207 2 3 4	6	1	П		2	216	9								
1 1 5 12 3 1 4 1 4 4 4 4 4 105 3 7 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 4 4 4 4 4 4 4 4 4 4 4	10					2	207	2							
4 4 3 200 1 4 15 3 7 4 15 3 7 4 15 3 7 4 15 3 7 4 15 3 7 4 15 3 7 4 15 3 7 4 15 3 7 4 15 3 4 15 3 4 15 3 4 15 4 4 15 4 4 4 14 114	11						5	212	3						
4 4 195 3 4 16 4 16 4 16 4 16 4 16 4 16 145 4 17 4 17 4 17 14 114 <th< td=""><td>12</td><td></td><td></td><td></td><td></td><td></td><td></td><td>က</td><td>200</td><td>1</td><td></td><td></td><td></td><td></td><td></td></th<>	12							က	200	1					
4 4 4 16 16 16 145 146 14 1 4 1 4 1 4 1 4 114 114 1 4 4 1 4 4 3 4 3 4 3 4 3 4 3 4 3 4 3 <	13								4	195	33				
4 4 4 14 14 14 14 14 14 14 114 114 114 11 11 4 11 4 11 4 11 4 11 4 11 4 11 4 11 4 11 4 11 4	14									16	145				
4 4	15										14	114	1		
4 4	16											36	102	1	
4 4 4 4 37 4	17											10	32	75	1
4 4 4 4 4 4 4 4 4 4 4 5 6 5 6 7 6 7 6 7 6 7 6 7	18											2	4	37	42
4 4	19												7	5	6
629 225 231 250 220 218 217 207 212 162 162 141 119 119 10 0 <td< td=""><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>3</td></td<>	20													1	3
629 225 231 250 218 217 207 212 162 162 141 119 119 10 0	> 20														2
10 0)TAL	629	225	231	250	220	218	217	207	212	162	162	141	119	57
12 2 0	ne official age	10	0	0	0	0	0	0	0	16	0	0	2	9	14
607 223 231 250 218 217 207 196 159 162 139 113	he official age	12	2	0	0	0	0	0	0	0	က	0	0	0	0
	al-aged	209	223	231	250	220	218	217	207	196	159	162	139	113	43









