

# Thai Experience of Undertaking of Learning Outcomes

By National Institute of Educational  
Testing Service (Public Organization): NIETs



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# **VISION**

**To be the world-class  
educational testing service center**



# MISSION

- To organize the system and method of testing and develop instrument for measuring and accessing in accordance with educational standards.
- To organize national education testing and assessment.
- To organize educational testing and provide testing services
- To conduct research studies and disseminate innovative practices in educational testing
- To become a center for educational testing, supporting and providing test results to various organizations.
- To enhance and promote educational measurement and evaluation
- To serve as a center of cooperation in the field of educational measurement and evaluation at national and international levels.



# Monitoring system for assessment of student outcomes in Thailand



Office of the Basic Education Commission



The Office for National Education Standards and Quality Assessment (Public Organization)

Responsibility to perform and service the educational for public under national education plans in various educational level

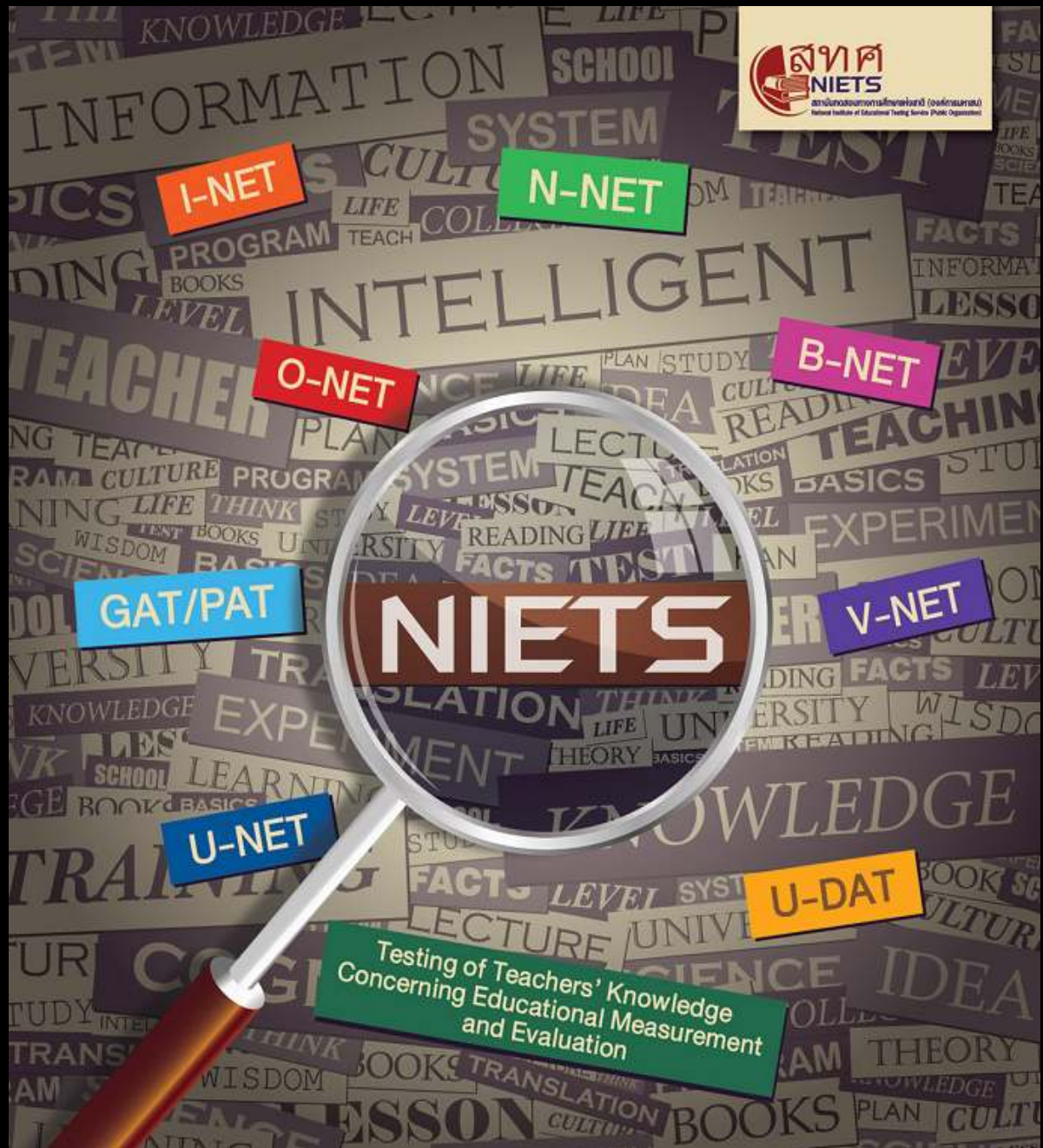
Develop and promote basic education for all school-age population has been studied quality.

Assessing and Evaluating the overall national achievement of student

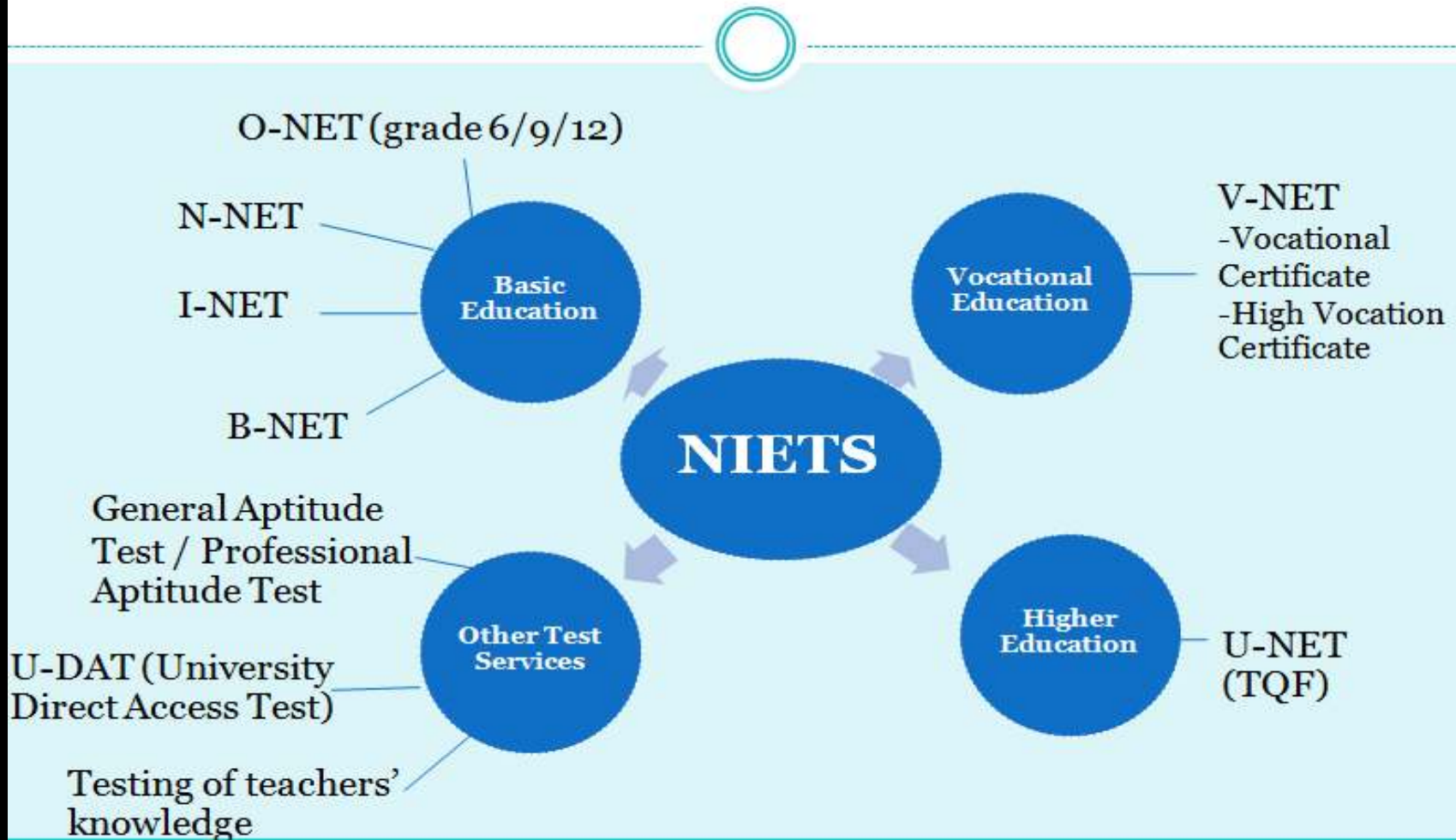
Assessing and Accrediting the Quality of Educational Institutions



# Type and coverage of assessment in Thailand



# National Testing and Examination System



# Test Objectives

objectives	Basic Education					Vocational Education	Higher Education
	O-NET	N-NET	N-NET (8 months)	I-NET	B-NET	V-NET	U-NET
➤ To make use of the test results for quality assurance.	√	√	√	√	√	√	√
➤ To make use of the test results to improve the teaching and learning aspects of the school	√	√	√	√	√	√	√
➤ To make use of the test results to evaluate the students' achievement at the national level.	√	√	√	√	√	√	√
➤ To make use of the test results for other purposes, for example, research purposes.	√	√	√	√	√	√	√
➤ To make use of the test results for exit decision. As of now, 20 percent of the test result is used as one component for exit decision. <b>(For Grade 12 or Matthayom Suksa 6)</b>	√						
➤ To make use of the test result for university admission purpose <b>(For Grade 12 or Matthayom Suksa 6)</b>	√						

# Test Objectives (Cont.)

objectives	Other Test Service		
	GAT/PAT	U-DAT (7 Common Subject Tests)	Evaluation and Assessment testing for Teacher
<ul style="list-style-type: none"> <li>➤ To make use of the test results as a part of the student selection process in               <ul style="list-style-type: none"> <li>- Central University Admissions System</li> <li>- Direct Admission System (depending on the requirements of individual universities).</li> </ul> </li> </ul>	√	-	
<ul style="list-style-type: none"> <li>➤ To make use of the test score as evidence of achievement to apply for a job.</li> </ul>	√	√	
<ul style="list-style-type: none"> <li>➤ To evaluate teacher ability in term of evaluation and assessment knowledge.</li> </ul>			√





# Test Coverage

Tests	Subjects	Grade/Leve
O-NET	8	Grade 6, 9 12
N-NET	5	Primary Education , Lower Secondary Education, Upper Secondary Education
N-NET 8 Month Program	10	Grade 12
I-NET	8	Lower, Intermediate, Upper
B-NET	3	Lower and Upper secondary
V-NET	3	Vocational Certificate and Higher Vocational Certificate
U-NET	Pilot 4 tests	
GAT-PAT	2 sections	Grade 12
U-DAT	7	Grade 12




# Analysis of assessment/examination data

NIETs analyzes its test items and tests by means of both Classical Test Theory and Item Response Theory. Besides this, experts in the fields, academicians and students were invited to criticize and comment on test items. Their criticisms and comments are analyzed and summarized and a report is sent to test item scrutinizing committees in order to improve the test items for later.



# Sample of Score Report (Indv.)



สถาบันทดสอบทางการศึกษาแห่งชาติ (องค์การมหาชน)  
National Institute of Educational Testing Service (Public Organization)

**ผลการทดสอบทางการศึกษาระดับชาตินิยมขั้นพื้นฐาน (O-NET)**  
**ชั้นประถมศึกษาปีที่ 6 ปีการศึกษา 2555**

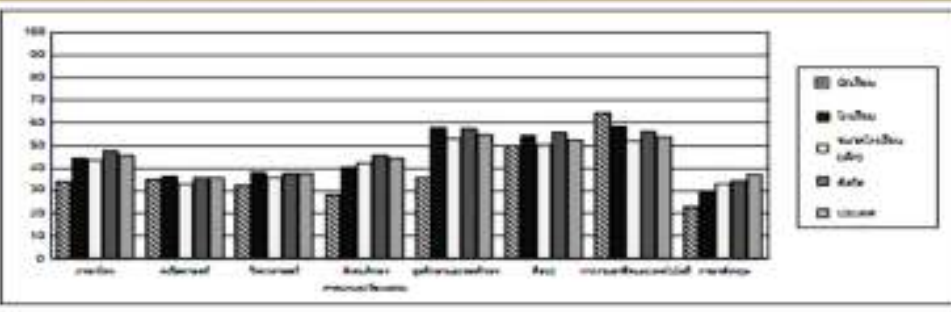
**1. ข้อมูลผู้เข้าสอบ O-NET ปี 6 ปีการศึกษา 2555**

ชื่อ-สกุล :	โรงเรียนที่ไปสอบ :	เลขประจำตัวประชาชน :
โรงเรียน :	ขนาดโรงเรียน : เด็ก	
จังหวัด :	สังกัด :	

**2. คะแนน O-NET**

รหัส วิชา	กลุ่มสาระการเรียนรู้	คะแนน เต็ม	คะแนน O-NET -T-Score	ส่วนเบี่ยงเบนมาตรฐานระดับ มาตรฐาน วิชาเรียน ขนาดโรงเรียน สังกัด ประเทศ				
				คะแนน T-Score	คะแนน วิชาเรียน	ขนาดโรงเรียน	สังกัด	ประเทศ
61	ภาษาไทย	100.00	34.00	42.01	44.45	43.31	47.56	45.68
64	คณิตศาสตร์	100.00	35.00	49.54	36.13	33.17	35.86	35.77
65	วิทยาศาสตร์	100.00	33.00	45.69	36.27	35.69	37.80	37.46
62	สังคมศึกษา ศาสนาและวัฒนธรรม	100.00	28.00	37.34	40.32	41.82	42.90	44.22
66	สุขศึกษาและพลศึกษา	100.00	36.00	37.86	57.81	53.00	57.30	54.84
67	ศิลปะ	100.00	50.00	48.38	54.17	50.14	55.44	52.27
68	การงานอาชีพและเทคโนโลยี	100.00	64.00	56.07	58.27	51.83	56.30	53.86
63	ภาษาอังกฤษ	100.00	22.50	41.64	29.35	33.23	34.60	36.99

**3. กราฟเปรียบเทียบผลคะแนน O-NET ของนักเรียนกับค่าเฉลี่ยของโรงเรียน ขนาดโรงเรียน สังกัด และประเทศ**



**I. Personal Information of Students**  
(Name, School, Province, ID Number etc.)

**II. O-NET Scores**

- code of subject
- name of subject
- Full Scores
- Scores
- T-Score
- Average of scores between level

**III. Comparative Graph**  
(show average of O-NET scores in each school)

Sample of O-NET Report for an Individual Student

# Sample of Score Report (School)

## Sample of an O-net Report for School Use

Each national Education test Score is reported in term of descriptive statistics by strand and by learning standards (school size, school location, education service area office, province, affiliation and national level) as shown in the following table 1,2 and 3 respectively

### Score Report of Ordinary National Educational Test (O-net) Grade 6, Academic Year 2013 Version 2- School Level Statistics, Classify by Learning Standards.

School Code	School Name
Subordinate	Province
School Size	Location

Subject : Thai (61)

Level	The number of students	Max.	Min.	Mean	S.D.	Median	Mode
School	119	86.00	20.00	57.90	13.21	58.00	54.00
Province	72,547	100.00	4.00	51.42	15.22	52.00	50.00
Subordinate	156,195	100.00	0.00	50.71	15.40	50.00	50.00
National	773,016	100.00	45.68	45.68	14.61	46.00	42.00

Learning Standard	Total Score	Statistic							
		School Level		Province Level		Subordinate Level		National Level	
		$\bar{X}$	S.D.	$\bar{X}$	S.D.	$\bar{X}$	S.D.	$\bar{X}$	S.D.
Standard TH 1.1	100.00	63.87	21.40	54.96	21.89	21.89	22.26	48.89	22.28
Standard TH 2.1	100.00	77.52	17.04	70.82	23.90	23.90	24.26	63.17	25.02
Standard TH 3.1	100.00	63.72	23.05	49.69	25.16	25.16	25.33	42.52	25.06
Standard TH 4.1	100.00	45.80	18.90	44.79	19.92	19.92	19.89	39.80	18.85
Standard TH 5.1	100.00	44.64	25.60	40.06	24.61	24.61	24.67	36.81	23.76



# Partnership and Collaboration

## MOU

MOU Between **NIETs** and **(HANBAN)** Confucius Institute Headquarters

- to exchange information about the language test.
- to facilitate to training to HANBAN headquarters.
- Finding academic funds from both NIETs and HANBAN
- to facilitate exchange visits and study.
- cooperation in the administration of the test HANBAN in Thailand.
- to explore the Chinese market in Test by NIETs.

MOU between **The Regents of the University of Minnesota** on behalf of its College of Education and Human Development and **NIETs**

- personnel exchanges
- possible joint activities include the exchange. scientists and technical staff
- held jointly Seminar
- exchange publications
- student exchange

# Partnership and Collaboration

## connection

Country	Institute
Korea	<ul style="list-style-type: none"><li>- National Assessment of Educational Achievement (NAEA)</li><li>- Korea Institute for Curriculum and Evaluation (KICE)</li><li>- Korean Council for University Education (KCUE)</li></ul>
Switzerland	<ul style="list-style-type: none"><li>- Benedict Education Group</li><li>- ETH Zurich - The Swiss Federal Institute of Technology</li><li>- EDK - The Swiss Conference of Cantonal Ministers of Education</li></ul>
Japan	<ul style="list-style-type: none"><li>- National Center for University Entrance Examinations (NCUEE)</li><li>- 4th Educational IT Solution Expo (EDIX)</li></ul>
Australia	Australian Council for Educational Research (ACER)
Taiwan	Ministry of Examination
USA	ETS

# Issues

**1. We have the law to support but not enough to achieve the goal: Political will, Policy and participation.**

**2. Developing the concept of the test : Content based, standard based and literacy based (PISA like).**

**3. Item Writer Capacity Building**

- Item Writers
- Master of Item Writers
- Editor or Item Reviewers

**Generally, outsourcing major for public organization but it's not suitable for testing organization.**



# Challenges

1. **Special Project: “O-NET ITEM BANK”**
2. **Cognitive and Non-Cognitive Assessment in accordance with educational standards**
3. **University National Education Test (U-NET)**  
(Communicative English / Communicative Thai / Critical Thinking / Media and Technology Literacy )
4. **Developing the National Testing in accordance with international standards (PISA like).**





National Institute of Educational Testing Service (Public Organization)

INTELLIGENCE  
SCIENCE LIFE IDEA CULTURE  
PLAN BASICS LECTURE REAL  
PROGRAM SYSTEM TEACH BOOKS  
**NIETS**  
TRANSLATION THEORY READING  
EXPERIMENT LIFE UNIVERSITY  
LEARNING SCHOOL KNOWLEDGE  
FACT STUDY LEVEL SYSTEM  
LECTURE



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