#### Council for Higher Education Accreditation 2010 Annual Conference/ International Seminar

#### Quality Assurance and Ranking of Higher Education in Asian Pacific and Taiwan

**Presented by** 

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# Outline

- Development of higher education in the global times
- The role of QA agencies in Taiwan higher education
- Programmatic and institutional accreditations By HEEACT
- □ Self-directed Rankings by HEEACT

### Three Major Concerns for Development of Higher Education in Global Times

#### Accessibility

higher education enrollment rate has been increasing in the past decade

#### Affordability

Finance need is not an impediment eligible students to attend a college

#### Accountability

- Enormous resources and talent are available in higher education institutions
- Help students be ready for college, and be equipped to graduate from college

### Meeting Challenges to Higher Education in Asian Pacific Region

- Over expansion of higher education
  - 726 universities and 488 junior colleges in Japan
  - 201 universities in Korea
  - 160 universities in Taiwan
    - Private universities outnumber public universities
- Low birth rate
  - three are below 1.5
- Declining financial governmental support

### Recipe for higher education in Asian Pacific Region

Enhance international academic competitiveness

- Launching several Excellence Programs Brain21 (Korea) / COE (Japan)/ 5 year-50 Billion Program (Taiwan)
- Set up Internal and External Quality Assurance System
  - Establishment of National Accrediting agency
- Establish Quality Culture on Campus
  - Compulsory audit

# Quality assurance in Japan, Korea and Taiwan

#### □ Adopt U.S. models

- Japan: the National Institution for Academic Degrees and University Evaluation (NIAD-EU) established in 2000
  - □ accrediting 99 national universities
- Korea: Korean Council for Universities Education (KCUE) granted its legal status in 1984
  - involving institutional and program accreditation (second cycle)
- Taiwan : Higher education Evaluation & Accreditation Council of Taiwan (HEEACT) set up in 2005, going to complete the first cycle of program accreditation over 4000 programs in 75 4- year comprehensive universities.

# Taiwan, Republic of China

- □ Area : 35,980 sq km
- Population : 26 million
- **Capital : Taipei**
- Taiwan President Ma, the alumni of Harvard University, most top officials got Ph.D. degrees from American /ivy league universities
- □ The best Chinese Treasures Museum

National Palace Museum

Talented but friendly people, powerful IT industry, food and Chinese culture



### Fact Sheet in Taiwan higher Education

1. Number of universities and colleges

Increased by **120%** in the past 10 years with more than 163 institutions

#### 2. Student enrollment

With a total number of 1.3 millions increased 65% with a number of 32,000 Ph.D students, 180,000 graduate students, 1 million undergraduates

3. University Entrance Exam admission rate

More than 98% in 2009

4. Net enrollment in higher education//Gross enrollment

55.3% (total number of 18-22 year-old students studying at a university and a college / school-aged population between 18-21 years old)

5. Gross enrollment rate increased

78.6% (total number of students studying at a university and a college / school-aged population between 18-21 years old)

6. Tuition

1800 USD for National universities / 3300 for private universities

7. GDP average 15,800 USD

# Characteristics of Taiwan Higher Education

- Universal type
- Equity
- Accountable / competitive for governmental support
- Academic freedom
- Limited autonomy

# Key issue for Taiwan society

#### How to maintain our competitiveness in global higher education

### Development of External Quality Assurance -Government role

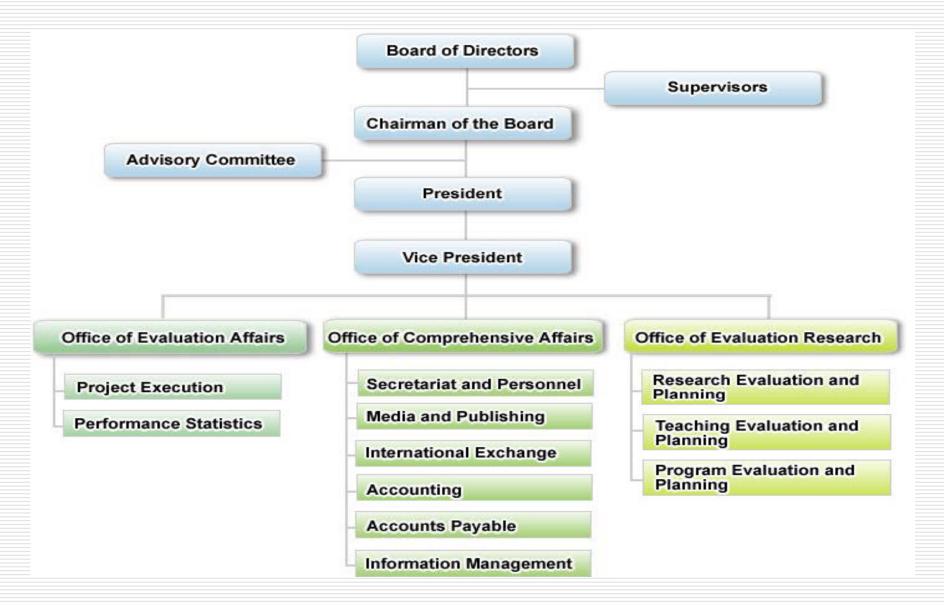
#### University Law of 2005

Taiwan government is entitled to commission external evaluation agencies to assess the academic performance of an institution

#### HEEACT

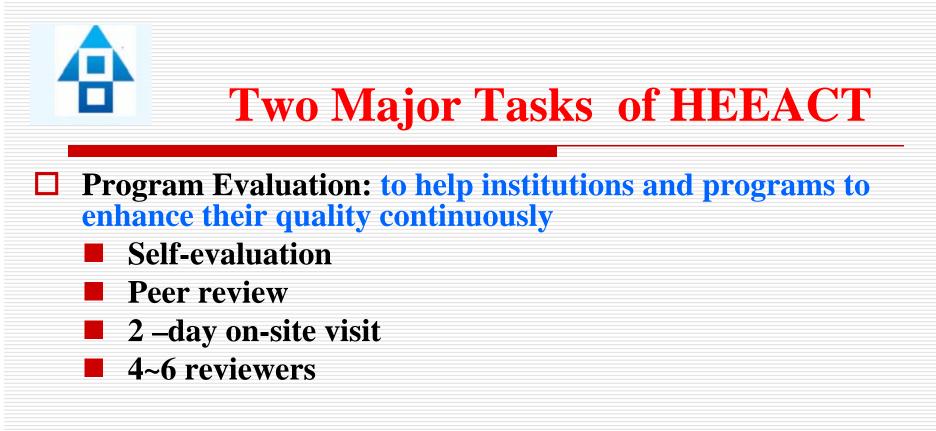
- Endowed in 2005 with mutual funds of the government and 153 institutions in Taiwan
  - 42 full-time staffs and more than 1193 part-time reviewers participated

### Organizational Chart



#### **HEEACT Accreditation Model**

- HEEACT adopted American model of accreditation featuring peer review and on-site visit in the process and procedures of evaluation in order to ensure that the program provides students with a good learning environment
- From centralization to decentralization
  - A decentralized system in higher education evaluation is being formed completely
  - Other local accreditors, including IEET, Taiwan Assessment Association, Chemistry Society in Taiwan, etc.
  - International accreditor, such as AACSB



Various Rankings : to encourage colleges and universities in pursuit of academic excellence based on their strengths

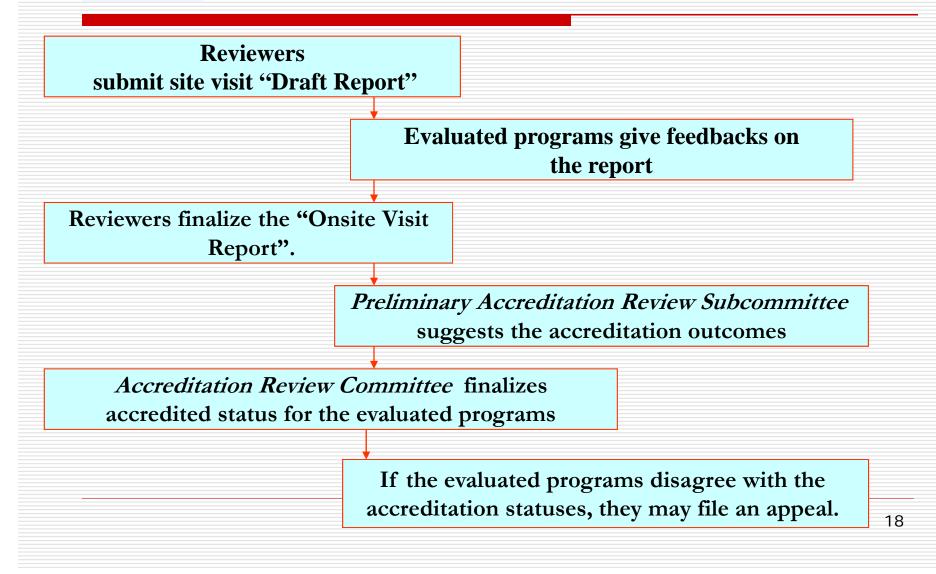
- Benchmarking
  - International competitiveness

# **Accreditation Standards**

- Program accreditation focuses mainly on teaching quality
  - Providing a good learning environment
    - Self-enhancement instead of cross-campus comparison
  - Stressing input and process indicators rather than outcome ones
- There are five accreditation standards:
  - Goals, features and self-improvement mechanism
  - Curriculum and instruction
  - Student learning and student affairs
  - Research output and professional development Performance of graduates



## **Procedure and Process**



# Accreditation outcomes

#### There are 3 accreditation statuses

- Accredited: have been accredited by the HEEACT
- Accredited conditionally: have been accredited partially and should be reviewed by the HEEACT one year later
  - Failure: not eligible to achieve the HEECACT standards.

# Implication

#### Accreditation final reports

- sent to the Ministry of Education as a reference point in policy-making
- Outcomes are announced in a press conference
- Be published on the HEEACT webite
- □ Validity for accreditation is only 5 years
- Evaluation Exemption
  - applicable to the programs which have been accredited by international accreditation agencies, such as AACSB
  - **Others, like IEET, Chemical Society in Taiwan . National Taiwan Normal University**
- Accreditation of accreditors:
  - **HEEACT will be transformed into** *Council of Higher Education Accreditation in Taiwan to accredit accreditors*

# **Statistics for Accreditation Outcomes in the 2007 and 2008 Academic Year**

| <b>Review status</b> |        |                    | Accre  | dited  | Accredited<br>conditionally |        | Failure  |       |
|----------------------|--------|--------------------|--------|--------|-----------------------------|--------|----------|-------|
| Y                    | ear    | Number of programs | Number | %      | Number                      | %      | Number % |       |
| 20                   | 006    | 362                | 279    | 77%    | 71                          | 19.6%  | 11       | 3%    |
| 2007                 | Spring | 242                | 159    | 65.7%  | 55                          | 22.7%  | 27       | 11.6% |
|                      | Fall   | 264(458*)          | 386*   | 84.3%  | 65*                         | 14.2%  | 7*       | 1.5%  |
| 2008                 | Spring | 231(418*)          | 376*   | 89.95% | 42*                         | 10%    | 0        | 0%    |
|                      | Fall   | 266(455*)          | 425    | 93.41% | 30                          | 6.59%  | 0        | 0%    |
| Т                    | otal   | 1366               |        | 82%    |                             | 14.62% |          | 1.5%  |

# Table : Exemption from HEEACTaccreditation by Type and Number

|                                 | IEET                     | CST                      | NTNU                              | AACSB                         |
|---------------------------------|--------------------------|--------------------------|-----------------------------------|-------------------------------|
| Year<br>starting<br>accrediting | 2004                     | 2004                     | 2006                              | 2003                          |
| Туре                            | Specialized vs. national | Specialized vs. national | Specialized vs. national          | Specialized vs. international |
| Program                         | Engineering              | Chemistry                | Taiwan<br>Culture and<br>Humanity | Business                      |
| Number                          | 249                      | 25                       | 28                                | 67                            |

# 2011 Institutional Accreditation

- Diversification and Features:
  - Emphasize institutional mission and identity
- Governance :
  - Resource integration and sufficient allocation
- **Quality Culture :** 
  - Well-developed internal QA mechanism
- □ Student learning outcomes:
  - will be the focus of the 2011 accreditation
  - but how to evaluate student learning outcomes?
  - understanding/ measure/ faculty involvement / administrative support

# Rankings of Academic Performance

#### Performance-based ranking

- A variety of ranking projects have been conducted
- Only top institutions in the rankings are published to the public

#### Universities with 5 year-50 Billion Program

| Institution  | Accredited   | Conditionally accredited | failure | Exemption   |  |
|--|--|--------------------------|---------|---|--|
| National Taiwan University台大                               |  |                          |         | unpublished   |  |
| National Cheng Kung University成<br>功                       | 100  | 13                       | 0       | 52( 3Taiwan Chinese<br>Literature /3 Chemistry<br>/46IEET |  |
| National Tsing Hwa University清華                            | 71   | 6                        | 0       | 4 (3 Chemistry / 1Taiwan<br>Chinese Literature            |  |
| National Jiao Tong University交通                            | 55   | 3                        | 0       | 37 (23AACSB/ 14IEET                                       |  |
| National Central University中央                              | 71   | 7                        |         | 20 (3 Chemistry / 17IEET                                  |  |
| National Sun Yat-sen University中山                          |  |                          |         | unpublished   |  |
| National Yangming University陽明                             |  |                          |         | unpublished   |  |
| National Chung Hsing University中<br>興                      | 89   | 1                        |         | 25 (3 Chemistry / 1Taiwan<br>Chinese Literature /21IEET   |  |
| National Chengchi University政治                             | 78   | 3                        | 0       | 30( 3 Taiwan Chinese<br>Literature / 30 AACSB)            |  |
| Chang Gung University長庚                                    | 26   | 2                        | 0       | <b>17 (IEET)</b>  |  |
| National Taiwan University of<br>Science and Technology台科大 | Accredited by Taiwan Evaluation Association (institution graded first<br>rank; Faculties and program :5 Faculties graded first rank;16 programs<br>graded first rank; one program graded second rank ) |                          |         |   |  |

# Ranking projects

- **WOS Papers Ranking (Taiwan)**
- **ESI** Papers Ranking (Taiwan)
- Performance Assessment on University and Industry Collaborations (Taiwan )
- **D** Patent ranking (Taiwan)
- Performance ranking of scientific papers for world universities (Global)
- **College Navigator in Taiwan (Taiwan)**



- Bibliometric ranking published first by HEEACT in 2007
- 2009 edition has been published
- □ Goal : analyze and rank the scientific paper performances of the top 500 universities in the world.

## **Criteria and Indicators**

| Criteria     | Indicators  | Weight |    |
|--------------|---|--------|----|
|              | Number of articles in the last 11 years (1997-2007)                   | 10     |    |
| Productivity | Number of articles in the current years(2007)                         | 10     | 20 |
|              | Number of citations in the last 11 years (1997-2007)                  | 10     |    |
| Impact       | Number of citations in the last 2 years (2006-2007)                   | 10     | 30 |
| I            | Average Number of citations in the last 11 years (1997-2007)          |        |    |
|              | H-index of the last 2 years (2006-2007)                               | 20     |    |
| 11           | Number of highly cited papers(1997-2007)                              |        | 50 |
| excellence   | Number of articles in high-impact journals in the current year (2007) | 15     | 50 |

http://ranking.heeact.edu.tw/en-us/2008/TOP/100

# Ranking outcomes

- institutions in US and UK still play predominant positions in the international higher education landscape.
- only 2 universities in the Asian-Pacific region are ranked within the world's top 30 universities, and both of them are from Japan. (University of Tokyo(14), Kyoto University(28))
- □ 7 Taiwan universities on top 500 in 2009 version

#### Top 10 World Universities (USA) 163 on top 500)

| World rank | Country | National<br>rank | Institutions                           | Scores | Rank<br>(FTE) |
|------------|---------|------------------|--|--------|---------------|
| 1          | USA     | 1                | Harvard University                     | 96.14  | 1             |
| 2          | USA     | 2                | Johns Hopkins University               | 52.67  | 8             |
| 3          | USA     | 3                | Stanford University                    | 51.63  | 2             |
| 4          | USA     | 4                | University of Washington - Seattle     | 48.98  | 10            |
| 5          | USA     | 5                | University of California - Los Angeles | 47.56  | 9             |
| 6          | USA     | 6                | University of Michigan - Ann Arbor     | 45.71  | 11            |
| 7          | USA     | 7                | Massachusetts Institute of Technology  | 44.86  | 3             |
| 8          | USA     | 8                | University of California - Berkeley    | 44.26  | 6             |
| 9          | USA     | 9                | University of Pennsylvania             | 44.03  | 14            |
| _10        | USA     | 10               | Columbia University                    | 42.92  | 15            |
|            |         |                  |  |        | 30            |

### Top 10 Canadian Universities (21 on top 500)

| Country | National<br>rank   | Institutions   | Scores   | Rank<br>(FTE)   |
|---------|--|--|--|---|
| Canada  | 1  | University of Toronto  | 42.14  | 13  |
| Canada  | 2  | The University of British Columbia   | 30.47  | 64  |
| Canada  | 3  | McGill University  | 28.30  | 105   |
| Canada  | 4  | University of Montreal   | 22.64  | 62  |
| Canada  | 5  | University of Alberta  | 21.62  | 168   |
| Canada  | 6  | McMaster University  | 20.43  | 41  |
| Canada  | 7  | University of Calgary  | 17.35  | 112   |
| Canada  | 8  | University of Ottawa   | 15.15  | 156   |
| Canada  | 9  | The University of Western Ontario  | 15.08  | 130   |
| Canada  | 10   | Laval University   | 14.96  | 173   |
|         | Canada<br>Canada<br>Canada<br>Canada<br>Canada<br>Canada<br>Canada<br>Canada<br>Canada | CountryrankCanada1Canada2Canada3Canada4Canada5Canada6Canada7Canada8Canada9 | CountryrankInstitutionsCanada1University of TorontoCanada2The University of British ColumbiaCanada3McGill UniversityCanada4University of MontrealCanada5University of AlbertaCanada6McMaster UniversityCanada7University of CalgaryCanada8University of OttawaCanada9The University of Western Ontario | CountryrankInstitutionsScoresCanada1University of Toronto42.14Canada2The University of British Columbia30.47Canada3McGill University28.30Canada4University of Montreal22.64Canada5University of Alberta21.62Canada6McMaster University20.43Canada7University of Calgary17.35Canada8University of Ottawa15.15Canada9The University of Western Ontario15.08 |

### Hong Kong Universities on Top 500

| World<br>rank | Country | National<br>rank | Institutions                                     | Scores | Rank<br>(FTE) |
|---------------|---------|------------------|--|--------|---------------|
| 185           | нк      | 1                | The Univ. of Hong Kong                           | 15.68  | 280           |
| 231           | нк      | 2                | The Chinese Univ. of Hong<br>Kong                | 13.65  | 286           |
| 325           | нк      | 3                | The Hong Kong Univ. of Science<br>and Technology | 10.96  | 294           |
| 420           | нк      | 4                | City Univ. of Hong Kong                          | 8.98   | 372           |
| 470           | нк      | 5                | Hong Kong Polytechnic Univ.                      | 8.12   | 349           |

# Table 7: Ranks of Taiwan's Universities in HEEACTPerformance Ranking for World Universities (2007-2009)

| Taiwan Institutions               | 2007 | 2008 | 2008 Rank by<br>number of<br>faculty | 2009 | 2009 Rank by<br>number of<br>faculty |
|-----------------------------------|------|------|--------------------------------------|------|--------------------------------------|
| National Taiwan University        | 185  | 141  | 114                                  | 102  | 67                                   |
| National Cheng Kung<br>University | 360  | 328  | 204                                  | 307  | 145                                  |
| National Tsing Hua<br>University  | 429  | 366  | 260                                  | 347  | 215                                  |
| National Chiao Tung<br>University | 471  | 463  | 327                                  | 456  | 290                                  |
| National Yang Ming<br>University  | /    | 475  | 385                                  | 493  | 365                                  |
| Chang Gung University             |      |      |                                      | 479  | 380                                  |
| National Central<br>University    |      |      |                                      | 482  | <b>378</b> 3                         |

# College Navigator in Taiwan (just published on 21, Oct, 2009)

Goal

- internationalize Taiwan higher education
- Provide more simplistic information for local students
- Target institutions
  - 69 4-year colleges and universities evaluated by HEEACT from 2006 to 2010.

#### Feature

respect for user's needs in selection of indicators and weightings by their own through the web-based platform. .

### Model of Criteria

- users will be able to rank
  - **rank module:** 
    - the institutions they are interested in by region, type, size and program.
    - select any institutions directly
  - more detailed information on universities such as founding year, mission, and total enrollment, number of programs, and website, accreditation status, government funding, application, room and board, tuition will be listed for user's references on the ranking outcomes.

| Tier                       | Content  | Number |
|----------------------------|--|--------|
| Criteria                   | academic survey, student quality, faculty resources , library<br>acquisitions, research grant, research output, teaching<br>quality , learning output, international outlook etc.  | 11     |
| Indicator                  | enrollment rate, proportion of graduate students, graduation<br>rate, proportion of faculty members above assistant<br>professors, proportion of professors with a highest<br>degree, proportion of full-time faculty, student/ faculty<br>ratio, total expenditure per student, number of articles<br>published in SCI/ SSCI/ AHCI per faculty, National<br>Science Foundation grants per faculty, proportion of<br>international students, proportion of international<br>faculty, library expenditure per student, number of<br>patents awarded per faculty, etc. | 24     |
| Preference                 | location, size, type, program/ discipline, etc.  | 5      |
| General<br>informati<br>on | history, enrollment, number of programs, and website, room<br>and board, student service, accreditation status,<br>governmental grants, scholarship, tuition, student clubs,<br>accommodation, etc.  | 16     |

#### | Chinese |

### **College Navigator in Taiwan**

**Online Users** 

#### Introduction

Criteria & Indicators

Statistics

Users' Manual

FAQ

About Us

Links

#### Higher Education Evaluation & Accreditation Council of Taiwan service@heeact.edu.tw





#### Make a smart move with <u>CNT</u> Make your dreams come true



Are you interested in studying in Taiwan? Would you like to get more information about the academic performance of Taiwan universities and colleges? The leading independent guide to Taiwan higher education will guide you step by step through a well-developed model of measures with more than 11 criteria. 25 indicators and 20 basic information including

#### Y Latest News

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YOUR RANKING

Exporting your results

Users are allowed to save their results as .xls file.





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Assign a weight to each indicator(at least 10%), so that the total will add up to 100 percent.

| 20  | %                          |
|-----|----------------------------|
| 10  | %                          |
| 15  | %                          |
| 12  | %                          |
| 23  | %                          |
| 20  | %                          |
| 100 | %                          |
|     | 10<br>15<br>12<br>23<br>20 |





**Online Users** 

Y Latest News

#### Exporting your results

Users are allowed to save their results as .xls or .csv files.



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Sciences)

Biomedicine

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rd arrow, the indictor is in the top 30% of all institutions)

ideward arrow, the indictor is between 31% and 69% of all institutions)

rard arrow, the indictor is in the bottom 30% of all institutions)

re not submitted in the form requested by HEEACT)

| Rank | Institution                                  | Academic<br>survey | Enrollment rate | Number of<br>national<br>academic<br>awards by<br>students | Proportion of<br>graduate<br>students | Faculty-student<br>ratio |
|------|--|--------------------|-----------------|--|---------------------------------------|--------------------------|
| 1    | National Taiwan University                   | T                  | <b>1</b>        | <b>1</b>   | <b>1</b>                              | <b>1</b>                 |
| 2    | National Tsing Hua University                | t                  | <b>1</b>        | t  | <b>1</b>                              | <b>1</b>                 |
| 3    | National Taiwan Normal<br>University         | t                  | <b>1</b>        | t  | T                                     | Ť                        |
| 4    | National Chiao Tung University<br>of Science | t                  | .↓              | t  | <b>1</b>                              | ⇒                        |
| 5    | National Central University                  | t                  | ⇒               | t  | t                                     | <b>1</b>                 |
| 6    | National Chengchi University                 | <b>1</b>           | <b>1</b>        | ⇒  | t                                     | ⇒                        |

Export to Excel Questionnaire

Close Window

|  | National Taiwan University   |  |  |  |  |
|--|--|--|--|--|--|
|  | No. 1, Sec. 4, Roosevelt Road, Taipei, 10617 Taiwan(R.O.C)   |  |  |  |  |
|  | Year founded: 1945   |  |  |  |  |
|  | Campus setting: 1,354,304 square meters  |  |  |  |  |
|  | <b>Total enrollment:</b> 32,716<br>Number of undergraduates: 17,615<br>Number of graduates: 15,101 |  |  |  |  |
|  | Website: http://www.ntu.edu.tw/english/  |  |  |  |  |
|  | Directions: Detail   |  |  |  |  |
| Programs/ Degrees Offered                    |  |  |  |  |  |
| Undergraduate degree: 59                     | Master degree: 100   |  |  |  |  |
| Ph.D. degree: 88                             | Master Programs for working students: 26   |  |  |  |  |
| Financial Aid / Accreditation Outcomes       |  |  |  |  |  |
| 5 Year -5 Billion Research Project in        | n 2008: 30 million dollars   |  |  |  |  |
| 2007 Scholarship: 556,479,315 dolla          | rs   |  |  |  |  |
| 2007 Endowment: 127,055,434 dolla            | rs ( <u>Detail</u> )   |  |  |  |  |
| 2007 equipment budgets: 963,242,9            | 992 dollars  |  |  |  |  |
| Other Information                            |  |  |  |  |  |
| Application: Detail                          |  |  |  |  |  |
| Tuition and Fees:                            |  |  |  |  |  |
| Outstanding Alumni: Detail                   |  |  |  |  |  |
| Num. of Student Studying Abroad: 169         |  |  |  |  |  |
| Num. of English Taught Courses: 785          |  |  |  |  |  |
| Campus Housing: Yes/ \$NT 3500~9300 (Detail) |  |  |  |  |  |
| Num. of Student Clubs: 566 (Detail)          |  |  |  |  |  |
| Close window                                 |  |  |  |  |  |

| van - Survey - Microsoft Internet Explorer     |                                      |
|--|--------------------------------------|
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#### College Navigator in Taiwan - Survey

|  | Strongly<br>disagree |   | Neutral | Agree      | Strongly<br>agree |
|--|----------------------|---|---------|------------|-------------------|
| Q1. Definitions of indicators are clearly stated.                                      | •                    | 0 | •       | ullet      | ullet             |
| Q2. Selection of indicator number is reasonable. (between 2-11)                        | 0                    | 0 | 0       | $\circ$    | $\circ$           |
| Q3. Presentation of ranking outcome is clear and understandable.                       | •                    | 0 | •       | •          | •                 |
| Q4. Presentation of basic information for each institution is clear and understandable | 0                    | 0 | 0       | $\circ$    | $\circ$           |
| Q5. Information provided is useful for me to select a school to study.                 | •                    | 0 | •       | •          | •                 |
| Q6. It is pretty convenient for me to operate this ranking tool.                       | 0                    | 0 | 0       | 0          | $\bigcirc$        |
| Q7. Speed of this system is moderate and doesn't take me too much time.                | •                    | • | 0       | •          | •                 |
| Q8. Functions in the system are highly stable.   | 0                    | 0 | 0       | $\bigcirc$ | $\bigcirc$        |
| Q9. Web pages are presented clearly.   | 0                    | 0 | 0       | $\bigcirc$ | ullet             |
| Q10. Contrast of color is nice and comfortable.  | 0                    | 0 | 0       | $\bigcirc$ | $\bigcirc$        |
| Q11. Information on the web-pages is easily read.                                      | •                    | 0 | 0       | ullet      | ullet             |
| Other comments:  |                      |   |         |            |                   |
|  | <u>~</u>             |   |         |            |                   |
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# Table : Top 10 indicators by the numberof usage times

| Indicators                                     | Usage times |
|--|-------------|
| Academic survey                                | 8073        |
| Expenditure per student                        | 6729        |
| Enrollment rate                                | 5848        |
| Faculty-student ratio                          | 5223        |
| Average proportion of graduated students       | 5209        |
| Number of national academic awards by students | 3807        |
| Total holdings per student                     | 3802        |
| Total NSC grants per faculty                   | 3404        |
| Proportion of full-time faculty                | 3139        |
| Proportion of professors with Ph.D.            | 3039        |

# Good things to share with

- □ Transparency
- □ Independence
- Professionalism
- □ Taking care of public demand

## Role of Accrediting Agencies in Taiwan Perspective

- □ Implementing different types of accreditations
- Developing multi-dimensional evaluation tools, including ranking, accountability, TQM, etc.
- Enhancing objectivities
- Healthier relationship between accreditors and institutions

# Conclusion

### **For Accreditor**

- As a quality proxy for institutions
  - Development of various tools for quality assessment
- Self enhancement
  - **Reviewers' training**
  - □ International partnership and collaboration
- International accreditation
  - Mutual recognition
- For higher education institution
  - As a knowledge innovator for society
  - Market -driven force
  - Quality culture
  - International competitiveness

### **Questions and Comments**

# Higher Education Evaluation & Accreditation Council of Taiwan

http://www.heeact.edu.tw/