出國報告(出國類別:其他—會議)

# 參加「運用資訊科技協助 偏遠地區取得學習資源研討會」

服務機關:教育部電子計算機中心

- 姓名職稱:杜愛葆 高級管理師
- 派赴國家:馬來西亞
- 出國期間: 民國 97 年 3 月 26 日至 30 日
- 報告日期:民國 97 年 5 月 5 日

本次主要任務是參加「運用資訊科技協助偏遠地區取得學習資源研討會」,本會 議係由馬來西亞空中大學(Open University Malaysia, OUM)規劃提出,為 APEC 同 意支持進行之「運用資訊科技於貧窮及偏鄉社區計畫」啓動會議(1<sup>st</sup> Kick-Off Workshop on "Capitalising Information Technology for Greater Access Among Poor and Rural Communities")。本計畫重點工作為運用資訊科技建立數位學習之訓練教 材,提供各會員體貧窮及偏鄉社區民眾使用,以縮短弱勢族群及城鄉間之數位落 差。本次啓動會議邀請參與國家簡報各國縮減數位落差推動情形,並初步研商如 何借重各國經驗共同發展資訊科技數位教材。預計至本(97)年底前由各國完成教 材初稿交由計畫主辦單位審核,98年2月於泰國召開計畫結束及成果發表會議。 本次會議中透過各國報告及交流機會,瞭解許多亞太國家如中國、印尼、日本、 菲律賓、泰國、巴布亞紐幾內亞、馬來西亞等地資訊網路教育發展現況,值得作 為未來借鏡與參考。建議未來仍應積極參與後續相關事宜,以增進我國與他國於 資訊教育議題之互動瞭解及國際合作經驗。

<b>`</b>	目的
<u> </u>	過程4
Ξ`	心得與建議事項
匹、	附錄:各國簡報資料······14

#### 一、目的

馬來西亞空中大學(Open University Malaysia, OUM)來函邀請本部電子計算 機中心楊正宏主任參加「運用資訊科技於貧窮及偏鄉社區計畫」啓動會議(1<sup>st</sup> Kick-Off Workshop on "Capitalising Information Technology for Greater Access Among Poor and Rural Communities"),該會議係於 97 年 3 月 27 日至 3 月 29 日於吉隆坡 舉行,為一 APEC 組織支持之正式計畫並由 OUM 規劃辦理,邀請中國、印尼、 日本、菲律賓、泰國、巴布亞紐幾內亞及我國等代表發表各國推動情形報告及經 驗交流。

由於我國近年來推動縮減數位落差工作已展現具體成效,如建置數位機會 中心、偏遠教師遠距培訓、國民電腦補助等,藉此機會可提供許多相關經驗與他 國分享交流,亦可對各國推動概況及趨勢作一瞭解,爲難得之國際交流機會,爰 接受邀請並經楊主任指派本人代表出席,經簽奉核可後前往參加此會議。

## 二、過程

## (一)行程說明

日期	行 程 說 明
97/3/26 (三)	台北至吉隆坡
97/3/27(四)	出席「運用資訊科技於貧窮及偏鄉社區計畫」 啓動會議第 一天議程(開幕式、各國現況簡報)
97/3/28(五)	出席「運用資訊科技於貧窮及偏鄉社區計畫」 啓動會議第 二天議程(各國現況簡報、參訪活動)
97/3/29(六)	出席「運用資訊科技於貧窮及偏鄉社區計畫」 啓動會議第 三天議程(討論及座談、結論報告、閉幕式)
97/3/30(五)	吉隆坡至台北

## (二)詳細議程

Date /	Time	Activities	
Place			
Day 1 -	8.30 am	Registration	
KL	9.00 am	Opening Ceremony	
Thursday,		Ybhg Prof Dr. Abtar Kaur (Project Overseer)	
27 March		Ybhg Prof Tan Sri Anuwar Ali (President/Vice Chancellor,	
2008		OUM)	
		Ybhg Dato' Thomas George (secretary General, Ministry	
		of Human Resources )	
	10.00 - 10.30 am	Tea Break	
	10.30 – 11.30 am <b>Session 1</b>		
		1. Overview and session targets	
		2. Discussion and issues on flow of overall workshop	
	11.30 am - 1.00	Presentation by Experts	
	pm	• Presentation 1: Malaysia (E-communities)	
		• <u>Presentation 2: Chinese Taipei</u>	
	1.00 - 2.00 pm	Lunch	
	2.00 - 3.30 pm	Session 2: Continuation – of presentation by Experts	
		• Presentation 3: China	
		• Presentation 4: <b>PNG</b>	
	3.30 - 4.00 pm	Tea Break	

Date /	Time	Activities
Place	TIIIC	Activities
1 1400	4.00 - 5.30 pm	Presentation 5: Philippines
	4.00 <i>5.50</i> pm	<ul><li>Presentation 5: Thinpplies</li><li>Presentation 6: Japan</li></ul>
Day 2 -	8.30 - 10.00	Session 3:
Day 2 - KL	0.30 - 10.00	
KL Friday,		• Presentation 7: Thailand
• •		Presentation 8: Indonesia
28 March		Presentation 9: Malaysia
2008	10.00 - 10.30 am	Tea Break
	10.30 - 12.00	Visit to OUM
	12.00 - 2.00 pm	Lunch
	3.00 - 5.30 pm	Visit to Vocational Training Centre (VTOC)
Day 3 -	8.30 - 10.30 am	Session 4:
KL		1. Discussion of Post Visit
Saturday,		2. Presentation of 1 <sup>st</sup> draft of sample curriculum materials
29 March		3. Discuss the curriculum and methodologies to be used to
2008		execute the training materials
		4. Create a sample of the intended curriculum materials
	10.30 - 11.00 am	Tea Break
	11.00 am - 1.00	Session 5: Improvement of materials
	pm	
	1.00 - 2.00 pm	Lunch
	2.00 - 4.30 pm	Session 6:
		1. Discuss work schedule & protocol for presentation of
		materials by experts
		2. Discuss plans, deliverables, venue and schedule for 2 <sup>nd</sup>
		meeting
	4.30 - 5.30 pm	Closing ceremony

(三)會議記要

## 第1天(3/27/08)

#### Session 1

- 會議背景及目標說明 本計畫為 APEC 補助之正式計 畫,擬於1年後計畫結束時, 提出 ICT 數位學習教材範本, 提供弱勢地區及族群使用。
- 2. 訓練教材研發說明



- (1) 對象:貧窮及偏鄉地區,尤其希以女性為主要
- (2) 提供訓練單位使用
- (3) 需設計完整訓練內容(含架構,題目)
- (4) 可提供補助經費
- (5) 本次會議結束前討論完成初步架構
- 3. 各國現況簡報 [簡報檔詳附錄]
  - (1) 馬來西亞 (E-communities)
    - 於偏遠地區設置 Telecenter (TC)作為社區服務據點
    - 縮減數位落差有一國家推動策略(National Strategic Framework)
    - 目標對象含兒童、青少年、女性、老人、身心障礙者、土著(原 住民)、城市邊緣人等
    - 研究問題:對社區經濟等方面之影響、服務據點是否成功、永 續經營考量等
    - 推動重點:基礎建設、資訊科技專業人力、內容發展、結合企業等
    - TC 成功因素:基礎建設、經營管理者、推廣行銷、地方領袖投入等
    - 民眾經常使用資源內容:戲劇、音樂、影片、圖片、資訊蒐尋、 聊天室等
    - 民眾資訊需求:社區每日動態、需要等
    - 訓練需求:採由上而下或由下而上方式,以社區需要、本土內 容為主、希富正確性之資訊
  - (2) 台灣
    - 資訊教育推動現況
    - 相關計畫
    - 偏遠地區教師遠距課程培 訓情形
    - 推薦參與本計畫之社區介 紹-山峰 DOC

與會代表回應意見:

▪ 對我國 DOC 中強調之人



- 性主義、人本(Humanism、People-centered)等理念表示肯定
- ▪對 DOC 資源結合退休教師感到興趣
- ■線上培訓課程是否授予學位?
- 我國對偏遠(remote)及鄉下(rural)定義有何差異?

#### Session 2

各國現況簡報(續)

- (3) 中國:(劉美鳳教授, 北京師大)
  - 全國齊心協力改善城鄉不均衡發展現象
  - 資訊教育自 80 年代初期開始推動以適應資訊化社會到來
  - 訂定國家級發展計畫:校校通(2000-2010)、資訊課程納入中小學 必修、建置 CERNET,使用數位衛星系統、電視等
  - 1997 年建立 1000 所實驗學校
  - 2005 年建立資源網(China Basic Education Resources Base),發展 數位教學資源
  - 目前約 80%學校連上 internet
  - 2005 年開始縮短數位落差計畫
  - 1995年起推動教師資訊培訓,2005年訂定教師資訊科技能力標準規範,教師需通過檢測,成立國家教育科技中心
  - 2003年建立教師研習網路,8所師大、CRTVU等加入,3000門
     學位課程
  - 數位落差現況:全國 65%為偏鄉地區學生,資訊教學環境岐異甚大,先進學校可達班班電腦、多媒體教學環境;有的班級每一學生有筆記型電腦;許多中學以上學校有一間以上電腦教室。而有些偏鄉學校連教室都沒有、一班有 100 人以上、3 個人合用一張書桌、多年級合班上課、甚至無電力供應
  - 2003-2007 年投入 16 億改善偏遠地區資訊教育推動(3 種模式)
    - ▶ 教室光碟機(CD-ROMs displaying station)
    - ▶ 衛星接收設備(Educational satellite receiving and playing stations: TV, DVD, CD ROM)
    - ➤ 電腦教室(Computer classroom-for junior highs)共用 PC 設備
  - •目前全國教學電腦人機比為 19.38:1,都會地區約 10:1
  - 2006 年高中/中/小學課程 ICT 課程比例達 100%/90%/20%
  - ■結論
    - > 需訓練教材提供國家教育科技中心使用
    - ▶ 不同之經濟發展環境需不同之需求評估
    - ▶ 建議課程教材可依不同模式及程度發展
- (4) 巴布亞紐幾內亞 (Mr. Aria of Univ. of PNG Open College)
  - ●背景:多語系、多文化、87% 人口居於偏鄉,45% 人口收入低於 平均所得
  - 國家網路頻寬僅 64K 且電力不穩
  - 2002 年起每年約 60,000 名 10-12 年級學生離開學校
  - ■低於15% 學生升學至大專校院
  - 85%中輟生爲偏鄉學生

- UPNG Open college 扮演角色
  - ▶ 於全國各地設置學習中心(study centers)並持續推廣至偏鄉地區
  - ▶ 提供遠距教學課程
  - ▶ 紙本及 CD 模式仍為主要授課媒體
  - ▶ 提供諮詢輔導等支援活動
- 漸應用多媒體教學方式
- 目前訓練對象:新近離校者或中輟生、失業青年、弱勢婦女、NGOs
   及社區工作者、偏鄉教師、公私部門員工、犯人等
- 推薦2個社區接受本計畫培訓: Minj (western island)及 Kainantu (eastern island)
- (5) 菲律賓 (Dr. Torremonia, IT human resources, national computer center-field operation office)
  - 政府部門之努力: 2004 年成立 CICT (Commission of ICT)
    - ➤ ICT 政策制定、規劃、協調、執行
    - ➤ ICT 願景:便利取得、品質、效率、永續性
    - ▶ 社區 e 化中心(Community e-centers)共建置 233 個
    - ICT 計畫: Universal access to ICT PhilCeC initiative (2008-2010),以 2010 年前完成每一自治市均建置1 個社區 e 化中心,由 PhilCeC Academy 負責執行
  - 民間組織 Isis International Manila 介紹
    - ▶ 提出ICT 發展為市場導向之迷思
    - 數位落差根源於社會落差之存在(性別、階級、宗教等)
    - 工作對象以本土女性為主,加強其 ICT 基本知能以促進經濟 自主、政治參與、自我成長等能力
    - ▶ 希望課程特性:易取得、正確、可產生轉化變革
- (6) 日本 (Dr. Makino-Senior Advisor in ICT and Education, JICA-Japan International Cooperation Agency)
  - 日本空中大學:以電視及廣播方式提供學位課程,50個學習中心、面對面助教輔導
  - 83,126 個學生、6296 人修習碩士、男性 35,861 人(43%)
  - JICA 計畫介紹: USP (U. of south pacific)等 12 國參與, 1998 日本 加入協助衛星網路建設,最近升級為 IP-based 衛星網路
  - 需求
    - ▶ 應瞭解地方人士對 ICT 的真正需求在哪裡
    - ▶ 應以地方人力資源來經營 ICT 之推動

- ▶ 以泰國及塞內加爾為例,如何應用圖片、符號等幫助農民學 習
- ICT 基礎建設:寬頻、廣播系統(FM, AM), internet with WiMax, HF radio 等
- ▶ 社區中心
- 問題:訓練者之訓練、對象(貧困農民?)、課程內容、課程研 發者、資訊傳遞方式等

### 第2天(3/28/08)

#### Session 3

- (7) 泰國 (Puwaphat, Head of International Official, Prince of Naradhiwas Univ. Thailand)
  - ■本計畫試辦學校建議由 KhonKaen School 擔任
  - 該校有 1000 位學生、60 位教師
  - 願景
    - ▶ 以"人"爲中心
    - ▶ 以"人的發展"爲目標
    - ▶ 知識分享
    - ▶ 與人協力合作
  - 介紹自由軟體 Ubuntu 使用情形(強調其 African 原意為'Humanity

#### to others'

- (8) 印尼 (Dr. Paulina Pannen)
  - 介紹印尼社經現況:學校數、文盲率、學童就讀率等
  - ■高等教育就讀率為17%
  - ICT 現況: 18,000,000 網路使用者、72,000 村莊中 50%未連線 internet
  - 2006 由 MONE (Ministry of National Education)訂定資訊教育推動政策
  - 國家資訊教育推動委員會(National ICT council)由總統擔任主席
  - 網路: Jardiknas, INHERENT (高等教育)
  - 設置社區通訊中心 Community Telecenter (CTC),定位:

- ▶ "教師診所",提供教師使用 internet
- ▶ Pr-PP:對貧窮者提供數位伙伴關係
- ▶ 問題:教師尚未感到 ICT 帶來的附加價值、電腦為捐贈而得 但已不堪使用
- ■提出2個建議試辦單位
- (9) 馬來西亞(Ministry of Rural and Regional Development 代表)
  - 建立多功能社區 ICT 中心(ICT Center)
    - ▶ 提供偏鄉民眾"一次到位"(one-stop)之 ICT 中心服務
    - ▶ ICT 訓練中心
    - ▶ 2001 年起開始 6 項先導計畫
    - 預計 2007 年前完成 55 項工作計畫
    - ▶ 已建置完成 322 個 ICT 中心
    - 選擇設置之條件含有好的領導人才、1000人以上社區、電力 充足穩定等
    - ▶ 挑戰:維運成本高、基礎設施範圍限制、需有效管理、需社 區支持、ICT 技術快速進步等
    - ▶ 希望有好的商業計畫以增加收益

#### 參訪活動

◆ 馬來西亞空中大學-教學設計技術中心 (Center for

Instructional Design and Technology, CiDT)。該中心 負責研發及編 製各項數位學 習教材提供師 生使用,結合





內容、教學設計專家及多媒體、IT 技術團隊等共同開發高品質之教材, http://cidt.oum.edu.my/

◆ 職訓機會中心(Vocational Training Opportunity Center) - 位於市中心之職業



訓練中心,對象以弱勢婦女為主,教 育其資訊、藝能、家政等謀生技巧, 以培養獨立工作生活之能力。該機構 以自立自養方式經營,亦有獲得企業 部分補助,有許多實際成功案例值得 肯定。

### 第3天(3/29/08)

#### Session 4

◎討論課程內容教材設計方式及綱要

- 教師手冊
  - ▶ 內容範圍
  - ▶ 撰寫方式:先以英文撰寫、由 OUM 審核,再翻譯為本地語言
  - ▶ 2008年底前繳交
- 學生手冊
  - ▶ 目標對象: APEC 計畫要求為女性(APEC project(CBN(Capacity Building Network)-HRDWG)
  - ▶ OUM 可提供內容範例
  - ▶ 需加強英文瞭解程度

◎關鍵成功因素

- ■可增進受訓者之學習效果及效率
- ■改善 ICT 技巧、思考力及創造力
- ■可用 ADDIE 模式(Analyze、Design、Develop、Implement、Evaluate)
- ■提升認知能力
- ■增進生活福祉
- ■當地資訊基礎設施環境之配合
- ■對受訓者產生影響力、從"心"改變
- ■與當地現有執行計畫結合

#### Session 5

- 介紹本計畫獲 APEC 同意執行之背景
- 目標族群之定義
  - ▶ 邊緣人:身心障礙、單親、藥物成癮、老人、原住民、外籍新娘等
  - ▶ 窮人:鄉村部分-農漁民、佃農等
  - ▶ 窮人:城市部分-失業者、無住所者、非法居民、依親生活者等 調(#書↓書書の四)
- 訓練計畫說明
  - ▶ 目的:使其獲得知識獲取之能力
  - ▶ 在本國文件中自行敘明對"鄉鎭"(rural)之定義
  - ▶ 訓練人數不限,可視當地訓練場所可提供幾台 PC 而定
- 教材內容

- ▶ 目標:自我認知、蒐尋資訊、加值服務
- ▶ 初學者學習內容建議:BCC、鍵盤輸入技巧、網際網路入門、基本應用 (文書處理等)、溝通方式 (email, surfing, chat..)
- 配合事項
  - 於6個月內完成初稿(約2~3小時教學內容、英文撰寫、案例以符合當 地特色為主)
  - ▶ 預定 2009 年 2 月於泰國召開期末會議,各國有 2 名額可派員出席,建 議一為 ICT 專家,一為偏鄉(或弱勢)研究專家,共同討論修正各國教材 內容,最後提出一整合版本交 APEC 結案。

#### 三、心得與建議事項

- (一)由本計畫之主題及目標可感受到,目前國際關注之數位落差對象已除 了地理位置之相對偏遠地區外,亦包含貧窮者、城市邊緣人、弱勢婦 女甚至罪犯等,對這些不同的關懷對象應有不同的關懷策略及考量, 以適當縮短數位落差之存在。
- (二)於過程中兩處參訪地點覺得有許多可效法借鏡處,如:CiDT之人力編 制及經費均相當充裕,提供其足以發展高品質數位課程與教材之基 礎,且其保管蒐集(archiving)之規劃亦相當完善,以 digital library 方式 提供流通使用,真正做到跨越時地限制之資訊提供,非常值得參考借 鏡。另 VTOC 幫助青少女們重建生活能力與自信,由她們現身說法中 可感受到新知識帶給她們的新希望、新生活,相當令人感動。雖然該 中心的設備環境仍相當簡陋,畢竟在都市叢林中這樣一塊有理想、充 滿人文關懷的淨土,在志工們時刻不懈努力以赴下,爲青少女們打造 截然不同新人生的精神真的十分令人感佩。
- (三)由各國談及之數位落差經驗中可發現,其實有的嚴重情形遠大於台灣 目前景況,如印尼許多地區文盲率高達 20%,提供教育之方式尙有許 多困難需突破;馬來西亞有些偏遠地區甚至無馬路,必須經由直昇機 輸送物資,遑論教育資源的導入問題;中國大陸有些落後地區學校設 施極度匱乏,最嚴重者無教室可用,或需混年級合班上課,或需3位 學生共用一張課桌等,顯見「縮短數位落差」議題真的需要不同策略 來因應不同的實施需要,值得政策訂定者深思。而我國其實已累積相 當多有關經驗及特色,如能有系統的作一整理應該可以在國際舞台上 有貢獻的空間。
- (四)由此次參與會議過程中深刻感受到英文教育之重要,同樣身為亞洲國家之一員,然而目前馬來西亞、新加坡、菲律賓、印度等均以英語為官方語言,人民從小在幾近母語之教育環境下,均能以英語流暢表達及溝通(姑且不論其國力如何、腔調特殊等等),在國際事物及議題上的確有其優勢,就如計畫主持人爭取 APEC 計畫之過程及活躍程度為例,相信語言無礙之優勢定產生加分作用。就連在吉隆坡各處所遇對象(行政助理、店員、路人、服務生…)也都能以英語溝通服務,令人感覺到國際化都市應有之格局,的確覺得台灣這方面的急起直追相當重要。
- (五)本次簡報中我國提到之人性關懷(people-centered, humanism)等觀點有 引起與會代表之重視及興趣,咸認爲係縮短數位落差議題中相當重要 之一環,希望此重點在我國未來提出之教材草案中充分加以考慮及運 用,成爲對國際社會有幫助的一項貢獻。

## 四、附錄:各國簡報資料

- (一)馬來西亞
- (二)台灣
- (三)中國
- (四)巴布亞紐幾內亞
- (五) 菲律賓
- (六)日本
- (七)泰國
- (八)印尼

### (一)馬來西亞

投影片1

Developing knowledge society and enhancing internet connectivity among the marginalized communities in Malaysia

> Assoc Prof Datin Dr. Norizan Abdul Razak Head Center of Excellence Bridging Digital Divide Malaysia Universiti Kebangsaan Malaysia UKM Bangi 43650 Selangor

投影片2

#### Background of Telecenter (TC) development in Malaysia

- Total of 1945 TC implemented by various ministries and central agencies, private and NGOs, state initiatives and individuals
- Different objectives and deliverables
- Towards producing an ICT literate citizens and narrowing the digital divide among those at the rural and marginalized communities

投影片3

#### UNDER-PRESENTED GROUPS FOR ICT CONNECTIVITY

- Illiterate and neo-literate populations
- Ethnic, marginalized and minority groups
- People with learning difficulties
- People who are physically challenged
- Girl children and women
- People at the remote locations/ rural areas
- Indigeneous groups

#### ICT INITIATIVES IN MALAYSIA

- Knowledge Networking -ICT high potential to digitally link Malaysian in all communities
- Empower society to participate in economic and social progress and access information and knowledge via e-learning and assist Malaysian towards Knowledge and value added society. Enable Malaysian to make informed
- decisions on issues affecting them

#### 投影片5



#### 投影片6

#### **Research** Questions

- What social, economic and cultural benefits will access to ICT bring to the community?
  What characteristics of communities are indicators that TC will succeed?
- Is community participation necessary and in what ways?
- How can the financial and social sustainability of the TC be achieved?
- What needs to be done in terms of applications and information content to maximize the benefits of access to ICT for communities?

#### FRAMEWORK TO EMPOWER COMMUNITY VIA ICT

- To leapfrog from developing agricultural or production based economy to a knowledge based economy requires
- Basic infrastructure
- Pool of ICT skilled manpower
- Content development industry
- Well established regulatory and policy framework Mindset and commitments of society to support and embrace ICT





Picture Video Song

Chat

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C	ONTENT DEVELOPMENT STUDIES (Norizan, 2007)
	Orace of classes (Johnson, rest)     Orace of classes (Johnson, rest)     Orace of classes (Johnson, rest)     Orace of classes     Orace of classes

投影片 11

CONTENT DEVELOPMENT STUDIES (Norizan, 2007)					
	Distance Danabahan Distance Tray Anno Distance Tray Anno Distance Tray any approximate Distance of Annopal Con- Distance of Con- Distance Con-				

投影片 12

#### Training Needs

- Top down and bottom up approach
- Should be based on community needs and also government agenda in educating the public especially on government policy and developing a knowledge society by 2020.
- Provision of lifelong learning materials
- Provision of training programmes leading to certification

#### Training Needs

- Provision of training to assist the community to achieve higher value in terms of
- Productivity and economicallySocially and better lifestyle
- Literacy rate
- Continuing education

#### 投影片 14

#### Training Needs

- Identification of literacy framework
- Standards and online course design meeting the needs and literacy level of the marginalized communities
- Local content for the marginalized groups
- Accuracy of training materials and adequacy of training in terms of time, syllabus and assessment





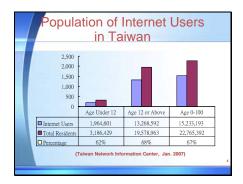
### Outline

- Overview of Current ICT education progress in Taiwan
- Related Projects
- Online Training program for remote area teachers
- Course samples
- Introduction to proposed community

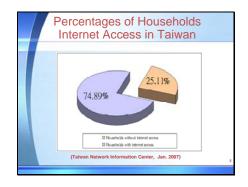
投影片3

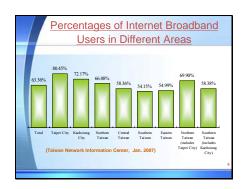


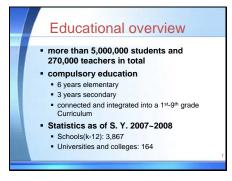
Taiwan, officially named Republic of China (R.O.C), is also known as Ilha Formosa, "the beautiful island". Located in Eastern Asia at 23"30"N, 121"00"E, the main island of Taiwan, totaling to nearly 35,980 sq. km, is the largest land between Japan and the Philippines in the west side of the Pacific Ocean, with the Taiwan Strait separating it from mainland China, about 220 km at its widest point. The climate is subtropical while 24 percent of the land area is arable, with the eastern two-thirds of the land being mostly rugged forest mountains, sharply sloped to gently rolling rich alluvial plains in the west where communities, farming activities, and industries are concentrated. As for demographics, the population totaled 22.7 million as of December 2004; median age: 33.7 years; life expectancy: 77 years; literacy rate: 96.1 percent; and major languages: Mandarin (official), Taiwanese, and Hakka. Turning to government structure, the R.O.C government is a multiparty democratic regime headed by a popularly-elected president and unicameral legislature (the Legislative Yuan). The Executive Yuan (a.k.a. the Cabinet) is the executive branch headed by the Premier, appointed by the President based on recommendations. The capital is Taipei City. Taiwan is a modern industrial strength and economic prosperity, characterized by a dynamic capitalist economy, coupled with gradually decreasing government guidance for investment and foreign trade. Taiwan is famous for demomy govern in a didition to a per capita GDP of USD14,032 in the same year.



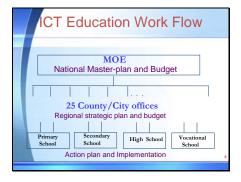
投影片5

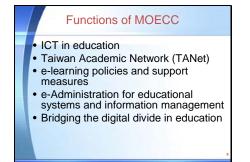






#### 投影片8





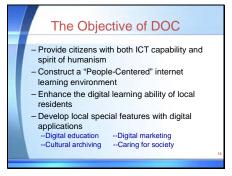
		1998/7/1	1999/6/30
Universit	ty	100%	100%
High Scho	loo	100%	100%
Middle Sch	loor	72%	100%
Elementa		24%	100%

投影片 11

#### **Related Projects**

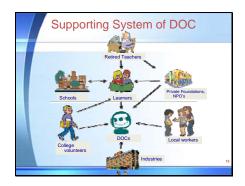
- ICT Education Infrastructure Plan (1997~2007)
- Master Plan for ICT Education
   (2001~2005)
- Challenging 2008 : National Development Project — Building an e- Learning System for All (2002–2007)
- Whitepaper on ICT in Education (2008~2011)

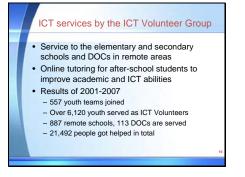




### 投影片 14





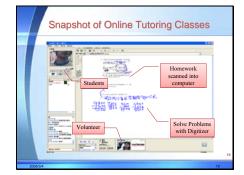


投影片 17

### One Laptop Per Child (OLPC) Program

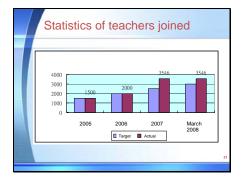
- Purchase low-priced PCs and donate to low-income families with school-aged children
- Provide equal ICT opportunities for students in low-income families
- To improve the ICT literacy and living quality of students and their families
- 8,000 PCs distributed in 2007

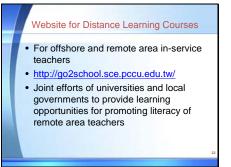




#### 投影片 20







#### 投影片 23

#### Implementation Method

- eLearning courses in 6 categories and 30 course in total
- Studying results sent to local government teachers affiliated
- Studying hours and course credits recorded in teachers training website if meet course requirement

Cou	Irse Titles (1/	(6)	
Category	Title	Hours	
	Introduction to eLearning Design	9	
	Introduction to ICT skills for teaching	15	
ICT in Education	Best practice for ICT in education	12	
	Internet in teaching	15	
	eLearning teaching Design	9	

Cours	se Titles (2/6)		
Category	Title	Hours	
eLeaning fundamentals and	Theory and practice on On-line courses	9	
applications	Open Source Software	15	
	Trend and application of eLearning	12	
	New trend for web 2.0 Concept	12	
			25

投影片 26

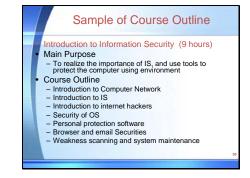
Cour	se Titles (3/6)		
Category	Title	Hours	
IT skills and management	Information Security Overview	9	
	Introduction to MS Office	9	
	Multimedia applications	15	
	Operating System management	15	
	PC maintenance	9	
			26

	Со	urse Titles (4/6)		
	Category	Title	Hours	
	Education	Gender Mainstreaming Concept	6	
	topics	Class management	12	
		Teacher specialties and Multi- culture impact in teaching	6	
		Knowledge management in schools	6	
		Internet literacy for teachers	6	
		Design concept for Multimedia teaching material in folk custom	6	
		Special Education concept	6	27
	_			-

Cours	e Titles (5/6)		
Category	Title	Hours	
Languages	English	12	
	English writing skills	12	
	English stories	12	
	English reading	9	
			28

投影片 29

Сс	ourse Titles (6/6	5)	
Category	Title	Hours	
General topics	Time management and career planning	12	
	Internet and life	6	
	Communication skills	6	
	Traditional Artistic Concept	9	
	Anger Management	9	
			29





投影片 32







投影片 35



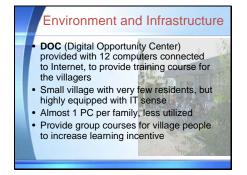




投影片 38

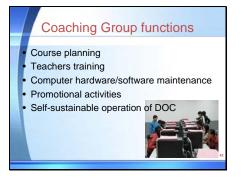






#### 投影片 41







投影片 44

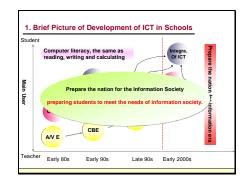
	Contact Info of Coaching Group
	<ul> <li>Person in charge : Mr. H.K. Chang Tel : 886-937-749029 Mail : sanfonscf@yahoo.com.tw</li> </ul>
I	<ul> <li>Contact 1: Ms. S.L. Cheng Tel : 886-5-5829442 Mail : <u>u9023015@yuntech.edu.tw</u></li> </ul>
	<ul> <li>Contact 2 : Ms. H. L. Wang Tel : 886-935-721373 Mail : <u>hlwang@dcc.com.tw</u></li> </ul>
	<ul> <li>Contact 3 : Mr. W.H. Chang Tel : 886-5-5822075 Mail : <u>birdfly@ylc.edu.tw</u></li> </ul>



#### (三)中國 投影片 1 Bridging the Digital Divide ---- China's Experience Dr. Liu Meifeng Prof. School Of Educational Technology Beijing Normal University, P.R.China



投影片3



## Important Landmark

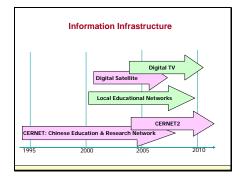
National plan for Popularization of ICT in School Education Issued on Nov.14, 2000, by Ministry of Education

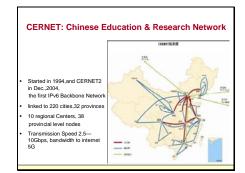
Action Plan for Vitalizing Education for the 21st Century (1999) MOE, with approval of the State Council

Aim: it plans to take five to ten years since 2001 to popularize ICT education in School Education. To promote modernization of education through application of ICT, and to strive for stride-leap development of basic education.

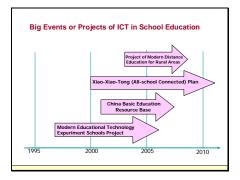
投影片5

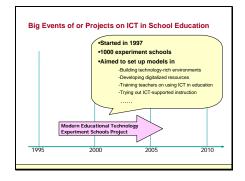


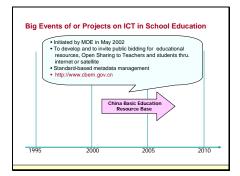




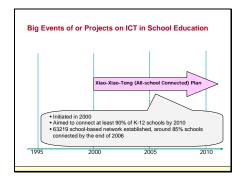




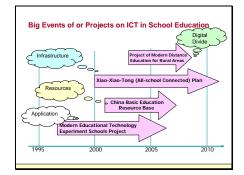




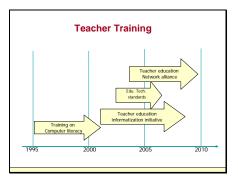


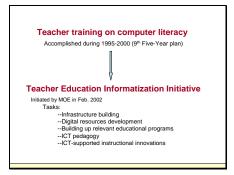




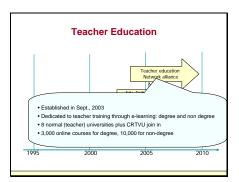




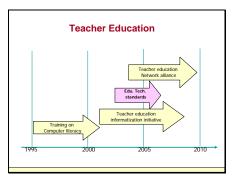








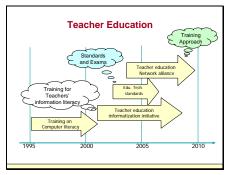




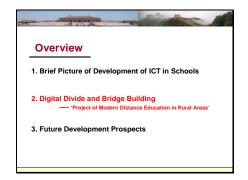
## Educational Technology Standards for Teachers

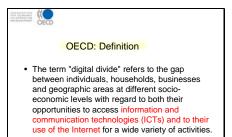
- Initiated by MOE, published in 2004
- Required competencies: 4(14)
   Information awareness & attitudes
   ICT Knowledge & skills

  - Technology application and innovation
- Social responsibility
- Social responsibility
   From 2006, training and examination-taking scaled up to nation-wide from 9 experimental areas in 2005
   By Oct.,2007 · national level training of 1219 skeleton teachers finished · around 400 thousand teacher participated in the training

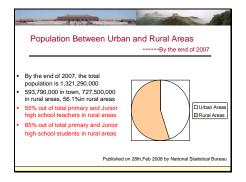


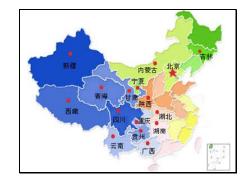
投影片 20

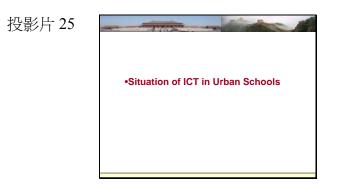








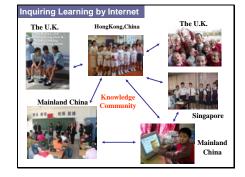


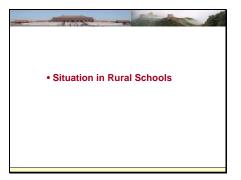


投影片 26
•Every Classroom Has a multimedia platform in Many Schools





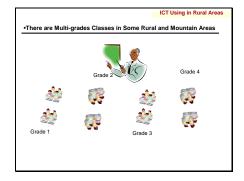








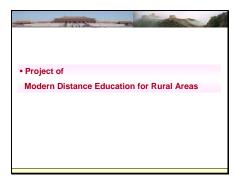


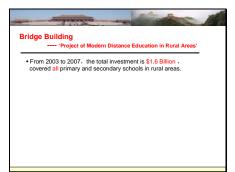


投影片 35

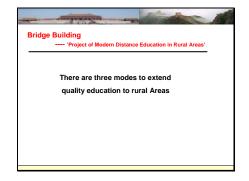
## Measures taken in China

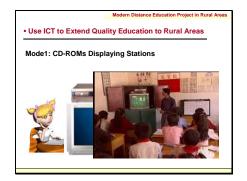
- --- \$1.9 billion for "Project on Compulsory Education in Poor Areas", improving condition for running schools for 522 poor counties Since 1995 --- \$1.4 billion for "Renovating Dangerous Housing for Schools" .





投影片 38

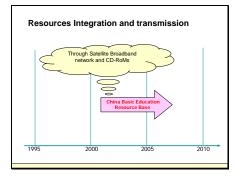






投影片 41







投影片 44





# Support and Service System

Modern Distance Education Project in Rural Areas

## National Educational Technology Center Established

- Call center for distance service
- Technical supporting systemShort message system
- Center of Educational Technology in Each Level

投影片 47

# Bridge Building --Protect of Modern Distance Education in Rural Areas --Product of Modern Distance Education in Rural Areas --Product of Addem Statistics --Product of Addem Addem Addem Addem Addem Addem Statistics --Product of Addem Ad

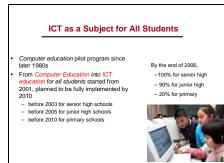


## Other Related Projects

- Li Ka Shing Project
- Beijing Oracle Distance Collaborative Learning Project
- MoE's Modern Distance Education Pilot Project
   Bural Primary and Secondary School Distance Education
- Rural Primary and Secondary School Distance Education Pilot Project
- National Distance Education Project for Poverty
- ReductionUNDP403 Project
- China-Europe Basic Education Project

## 投影片 50

G • Basic Date by the End of 2006 • Average Ratio of Student to Computer • Average Ratio in Urban Areas: • Average Ratio in Town in Countries:	
Basic Date by the End of 2006     Average Ratio of Student to Computer     Average Ratio in Urban Areas:	: 19.38 : 1
<ul> <li>Average Ratio of Student to Computer</li> <li>Average Ratio in Urban Areas:</li> </ul>	
Average Ratio in Urban Areas:	
•	
<ul> <li>Average Ratio in Town in Countries:</li> </ul>	10.66:1
	18.32:1
<ul> <li>Average Ratio in Rural Areas:</li> </ul>	29 :1
1999 Average Ratio of Student to Comput	er: 123 : 1
2001 Average Ratio of Student to Compu	ter: 51:1
2003 Average Ratio of Student to Compu	ter: 35:1





投影片 53



# 投影片 54

## 3. Future Development Prospects

- Emphasis of ICT: Equipment Installing or Application?
- Digital Divide Still Remains: Quality VS Quantity

• Quality of Teachers : Rethinking the effect of training Instructional Design
 ---How to organize cooperative learning
 --- Why, When and how to choose and to use ICT



投影片 56











## 3. Future Development Prospects

Emphasis of ICT: Equipment Installing or Application?
 Digital Divide Still Remains: Quality VS Quantity

Quality of Teachers

投影片 62

## 3. Future Development Prospects

Emphasis of ICT: Equipment Installing or Application?
 Digital Divide Still Remains: Quality VS Quantity

Quality of Teachers

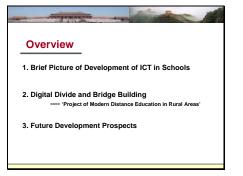
Sustainable Development of ICT Application

- -- Equipment maintenance
- -- Lack of enough equipments
- -- Heavy work load of teachers -- Stimulating system for teachers
- -- Lack of full-time technology coordinator

投影片 63

Closing Remarks
Digital divide still remains and corresponding measures are still necessary; Quality training materials are needed as always
China Educational Technology Center (http://www.neet.edu.cn/) is the agency to execute related projects, and there are established infrastructure in rural areas to receive quality materials in China
Needs assessment should be done in detail first before developing materials in order to meet each economy's needs







# (四)巴布亞紐幾內亞

投影片1



投影片2

## Introduction

st plurastic nation states of the world: l groupings d cultures munity reaches ated regions

al economy where 87% of its population lives in isolated small areas. egment of the population neither has the necessar and skills nor opportunities to participate in cash iteracy rate in rural areas is far below the national

投影片3

c services and in particular the area of informat ion to majority of population in rural areas non ge and Local levels is major hindrance: onal bandwidth capacity is 64k. ernment moving to open up more sky space for width capacity.

he globar nine ociety through approp d ICT mediated delivery or of PNG so that people originally coordinated a

#### Since 2002, estimated average of 60,000 Grade 10 & 12 School Leavers leave High & Secondary Schools each vear-

Less than 15% enter Colleges & Universities. Majority of the 85% that miss out are rural based and have no ways and means of furthering their education etc.

- Local villages Constitute majority of the population.
- Subsistence lifestyles & scattered along mountain ridges, rivers, isolated islands & atolls.
- Direct communication & Accessibility difficult. Limited communication through LLG & PGs.

No access to basic electricity and modern communication & information system etc.

投影片5

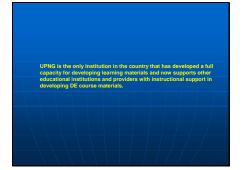
## Local lovel Government Districts -- Government, NGOs, Churches, Community Groups & Some Private Sector Semi-rural of which majority have access to basic electricity and Limited communication services in the form of telephone and postal services. Direct communication & Accessibility possible for most DLGs. Villages within vicinity of LLG HQs have access to basic services. Provincial Government -- Government, NGO & Community Groups & Some private Sector All services provided Villages & LLGs within vicinity of PG HQs have access to services.



The UPNG Open College currently plays a leadership role in addressing some of the current issues and concerns: Through its clusters of Study Centers scattered throughout the country it is bringing education to the population at large. Currently reaching out to geographically disperse rural areas not previously covered. Particular emphasis is to accelerate the building of a PNG knowledge society.

投影片8

	Enhanced capacity in program development, instructional support, infrastructure and support systems.
	More than 100 academics received specialized training in
	writing DE course materials. More are trained annually.
:	5 local Instructional Designers trained and appointed.
	11 Certificate, Diploma & undergraduate Degree programs developed.



Course Materials & Learner Support Systems
The guires provision of self-instructional learning resources for
suby through its network of Scs.
Print mode is the main delivery method.
Learner Support Systems Include
Observation program which is conducted at the beginning of each
and Sc administrative self on a range of issues including
administrative procedures and processee of their academic programs.

投影片 11

#### Course Materials & Learner Support Systems <u>Counseling Mentoring Toterial support</u> which is provided on needs basis mostly provided by qualified industry and community based professionals which include - School Teachers, Lecturers from other educational institutions, professionals/experts from private sector industries, NGO groups, Church workers and other Community based groups who are appointed by the University.

Residentials which are conducted by the offerences, Residentials which are conducted by Academics from the School's who on visits meet with students for several days and give advice on tearning methods including writing assignments and sitting for examinations among other academic activities. Coordination, maintering and tracking of assignments,

Coordination, monitoring and tracking of assignments, exams and other student work materials submitted for assessment which is administered by the UPNGOC in consultation with the Schools.



The UPNG OC has adopted a multimedia approach to instruction.

Given the country's unreliable power supply system and low bandwidth (64k) for communication landline, there is a heavy reliance on print mode supplemented by CD and audio-visual learning materials.

The practical components of the programs use materials and agencies that are locally based and relevant to student's localities

All other related academic activities including research and work attachments use local industries, NGOs, Community based groups and Government agencies.

The UPNG OC through its clusters of OCs, PUCs and FCs covers most of the remote and isolated areas of the country.

投影片 14

		Majo	or S	tak	eho	Idei	rs		

投影片 15

The UPNG OC reaches out to its clients while maintaining close dialogue with its major stakeholders which include: The three levels of Government in PNG - Local, Provincial & NGO & other Community Groups at Community, Local, Provincial & National levels.

Local Private Sector Organizations.

Local Business Community. International Community – COL & other sister OU's

All these agencies are involved in one way or another in the identification, development and offering of the range of Certificate, Diploma and Degree programs.

## UPNG Current Client Base

- The UPNG OC's current client base includes: Fresh School Leavers and dropouts – Grade 10 & Grade 12 to enhance educational opportunities and community skills, Unemployed youths – Grade 10 & 12 to enhance educational opportunities and community skills ,
- opportunities and community skills , Disadvantaged women – enhance educational opportunities and community & professional skills,

# 投影片 17

 NGCIs & Community workers and leaders – Semi-skilled/Skilled to enhance career opportunities and community skills

 School Teachers in isolated and rural communities - requiring supervisory & management skills to enhance career opportunities.

 Government & Private Sector workers in isolated and rural communities - ducational learning to enhance career opportunities.

 Prisoners - educational learning to enhance career communities - ducational opportunities & communities skills.

投影片 18

Background of the intended communities who will receive the final training.



The background of the two communities to receive the final training are: **1. Selected Local Communities in Minj** Minz is one of the Districts of the Western Highlands Province. Population of South Whagi is about 56,000. Minj is about half of this. The administrative headquarter of Minj is Minj. Minz Township is connected to all the modern facilities – electricity, internet connection etc. Nearest city is Mt Hagen, which is also the Capital city of Western Highlands.

投影片 20

Highla	Mt Hagen are connected to the rest of the nds & Northern region by the Highlands highway d and all other means.
Almos	all the local communities that make up about
90% of	the population are rural based.
	f these are connected to Minz town-ship and the city by roads.
Maiorit	y of the local communities are located within



2: Se	elected Local Communities in Kainantu (Aiuyara)
	Kainantu is one of the Districts of the Eastern Highlands Province.
	Aiuyara has population of about 10,000.
	The District headquarter is Kainantu.
	Kainantu Township is connected to all the modern facilities – electricity, internet connection etc.
	Nearest city is Goroka, which is also the Capital city of Eastern Highlands.
	Kainantu is about an hours drive out of Goroka.

投影片 23

Almost all the local communities (approximately 30 villages) that make up about 90% of the population are rural based.
Most of the communities are connected to Kainantu town-ship and
Goroka by roads.
Majority of the local communities are located within approximately
100 kilometers vicinity of Kainantu.
Majority of local communities have direct road connection to Kainantu.
Land is fertile and the economy is rural based. Agricultural practices including Animal Husbandry are on small scale basis utilizing local methods.
The District has huge potential to be one of the major suppliers of
fresh food and vegetables for local consumption and for export purposes.

投影片 24

Background of the Participating Agencies & their skills and knowledge to execute the intended program



## The participating agencies will include: **1: The UPNC Open College** will play overall coordinating role in executing the program. The Director and staff of the Mt Hagen Open Campus will be responsible for all logistics while the administration and other policy related activities shall be monitored and coordinated via the Office of the Executive Director in consultation with the other participating Agencies. The Mt Hagen Open Campus is located in Mt Hagen City but currently has direct links with Minj and Kainantu.

投影片 26

Staf	f Strengths
Sup	lagen has staff strength of 1x Director, 1x Computer laboratory ervisor, 1 x Administrative Assistant/Officer and 1x secretarial/clerical port staff.
The	Staff strength is complemented by:
	Periodical visits of Academics from each of the mainstream Schools of UPNG who provide academic support and advice on the range of subject areas.
	Locally based Part-Time Tutors and Mentors who provide tutorial & mentoring support on specific subject areas.
	Periodical visits of senior staff from OCHQ & UPNG administration who provide general advice & support.
	The Director and all the visiting academics from the Schools have Masters Degree as their basic educational qualification.
	The Part-time Tutors and Mentors are experienced and senior working professionals in relevant subject areas and other administrative & Technical staff have undergraduate degrees.

投影片 27

## Facilities Available

- The facilities available in Mt Hagen OC include: Computer Laboratory equipped with PCs and network & internet services.
- Office spaces & work rooms for limited number of staff and office equipment.
- All other facilities and services are hired from local institutions depending on needs and requirements.

	Western Highlands Provincial Administration (WHPA)
MC	DA. The MOA define responsibilities:
	For UPNG,
	Those for Western Highlands Provincial Administration and
	Those that are shared.
	Franchise Centers (FCs)
	UPNG also has number of FCs in Western and Eastern Highlands. FCs are:

投影片 29

	Local Churches
	Local Churches
	Other Education Providers both Government & Non-
	Government and
	Private Sector Organizations
FC MO	A's define responsibilities for:
	UPNG
	Those for FCs and Those shared.
Prosific	2 Arrangements
Specific	Anangements
	UPNG OC also has other specific arrangements with
	Institutions and individuals for hire of facilities both in Mt Hagen & Goroka.

投影片 30

3: Other Important Agencies to be Involved

Current UPNG & COL initiative aims to link research organizations and farmers to develop diverse programs to improve the skills base of the target groups – people working in agro based industries, to bring entrepresential skills to farmers, to provide information (such as marketing) and to improve access – to reach the unreached. These provide states and the intervention of the organization of the following Agencies:

National Development Bank [Haus Moni Bilong Yum] The bank was insolvent in 2004. It has now been restructured as an organization, independent of Government, with a new board and new systems. It has made a profil for the last three years. The Bank is operating throughout PNG. It has a charter to help agriculture and small holders. The Bank is aware of the problem of training for small holders.

Department of Agriculture and Livestock

appropriate knowledge and skills to help them not only survive but to improve their vlability. They would like to be included as a partner in the proposed exercise.

DAL was moving down the technology track and were very excited about the web site which had been approved and should work in parallel with the COL/UPNG project.

NARI was established number of years ago with a mandate to help the small and subsistence farmers. Currently involved in research on a range of Agricultural products where they work with local people including farmers, women and Schools in face to face dealings.

# 投影片 32

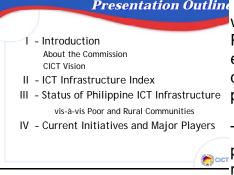
#### Fresh Produce Development Ag

The FPDA is controlled by a board representing the stakeholders, principally DAL and Treasury. There are also representatives from wholesalers, farmers, small holders, PNG Institute of Directors, Women, Dept of National Productivity and Rural Development. The Board meets

FPDA currently provides market information including capacity of farmers to capture good markets. They have developed an extensive network of Village Extension Workers who are trained to train people in their communities. Provincial Department of Agriculture and Livestock

Minj & Mt Hagen – FPDA

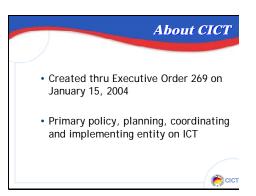




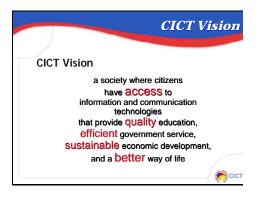
Presentation OutlinePresentation OutlineThe first part of the presentationwill dwell on the status of thePhilippines in terms ofe-governance, how are wedoing for the past years,particularly the year 2005.

The second half of my presentation will be about the measures we are taking in regards to improving our stance in the global e-governance.











ICT Infrastructure Index The e-Government Readiness Survey 2005 assesses more than 50,000 features of the e-government websites of the 191 UN member states to ascertain how ready the Governments around the world are in employing the opportunities offered by ICT to improve the access to, and the use of, ICTs in providing basic social services.

> Web measure index. Assesses the websites of the government to determine if they are employing e-government to the fullest.

Infrastructure. Assesses the proliferation of ICT in government processes and dissemination to the public.

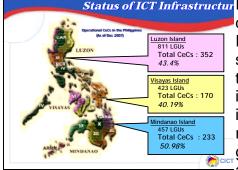
E-participation. Assesses "how relevant and useful the e-participation features of government websites around the world are; and how they are deployed by the governments for promoting participatory decision making.

## Human Capital Index.

Assessment of human skills, based on adult literacy and enrolment ration in schools.

		CT Inf	rasu		re IIIa	<i>lex</i>
Philippine	s and o	ther Asiar	1 Count	tries		
2007 UN e- Readiness Survey	World Ave	Philippines	India	Malaysia	Thailand	Vietnam
Overall e- Readiness Index	0.433	0.500	0.381	0.606	0.503	0.456
Web Measure Index	0.354	0.512	0.478	0.676	0.505	0.445
Infra Index	0.210	0.101	0.044	0.302	0.151	0.108
Human Capital Index	0.742	0.888	0.620	0.839	0.853	0.815
e-Participation Index	0.191	0.273	0.250	0.296	0.296	0.523
e-Readiness Rank (out of 183)	-	66	113	34	64	91

## 投影片7



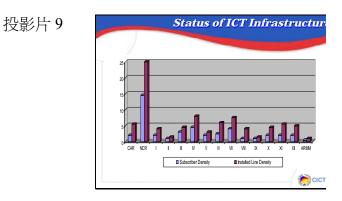
Status of ICT Infrastructur It's a good thing we are actually

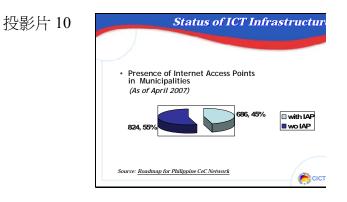
doing well in terms of using our ICT resources in delivering our services to the public. Even though the Philippines were not included in the Top 25 countries, it's a good sign that we are rapidly climbing the ranks. It is good news that in just a span of a year, we have improve

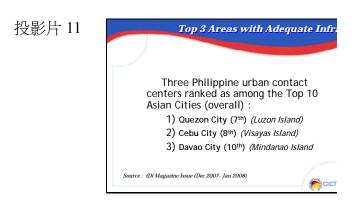
considerably. From Rank 47, we went 6 notches up the ranking ladder.

We have invested considerable resources in e-government, which is now reflected in our good performance level. This will encourage us to make continual efforts to improve our services and handle our resources well.

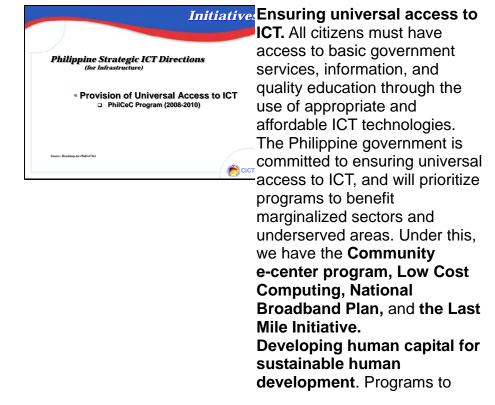
			_
Terret	NTDP (1990)	MTDP (2001-2004)	Status
Target	. ,		
Teledensity (installed	3.8% by 1998	12.7% by 2004	9.1% in 1998
fixed lines)	6.2% by 2004 10% by 2010		8.7% in 2002 7.8% in 2005
	10% by 2010		7.8% IN 2005
PCO service/	PCOs in all	Telecenters in all	45% of municipalities have inter-
Telecenters	municipalities by 2010 and 51% of barangays in	municipalities by 2004; Public telephone service in	access points; 737 telecenters (a Jan 2007) 96% of cities and
	2010	all barangays	municipalities have PCOs as of 2
Cellular	All cities and	100% of provincial capitals,	Network coverage of Smart and
service	municipalities by 2010	cities and major highways	Globe now reached 99.9% and 96 of population, respectively
High Speed		In all cities by 2004	Est. no. of internet subscribers
Broadband Service			(1.4M) and about 7.8 M internet users











develop Human Capital include 1) the ICT Competency and Standards Development, the creation of guidelines and standards to be used and applied in education and training; and 2)the ICT4E, the incorporation of ICT usage in education schema and the determining and accessing infrastructure necessary in all educational levels. Strategic business development to enhance competitiveness in the Global **ICT market.** In here, we define the roles that the private sector and the government. The private sector should remain as the prime mover of the ICT industry while the government play the role of the advocate. Legal and policy agenda for the Philippine sector. The provision of legal and regulatory reforms are necessary to promote the country as a global knowledge player and ICT services provider.

投影片 14

Vision

"A community e-center in every

municipality"

The Community e-Center is a self sustaining shared facility providing affordable access to ICT-based services and relevant content. It serves as conduit

for efficient delivery of government and other services and a potent tool for empowerment and participation of unserved and underserved

communities in development.

## Initiatives Ensuring universal access to

ICT. All citizens must have access to basic government services, information, and quality education through the use of appropriate and affordable ICT technologies. The Philippine government is committed to ensuring universal 👸 cic access to ICT, and will prioritize programs to benefit marginalized sectors and underserved areas. Under this, we have the Community e-center program, Low Cost **Computing**, National Broadband Plan, and the Last Mile Initiative. Developing human capital for

sustainable human development. Programs to develop Human Capital include 1) the ICT Competency and Standards Development, the creation of guidelines and standards to be used and applied in education and training; and 2)the ICT4E, the incorporation of ICT usage in education schema and the determining and accessing infrastructure necessary in all educational levels. Strategic business development to enhance competitiveness in the Global ICT market. In here, we define the roles that the private sector

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## 投影片 15

# GOALS

- 1. To provide connectivity to ALL municipalities of the Philippines
- 2. To identify, develop and provide access to content responsive to knowledge needs of the target customers
- 3. To ensure availability of competent CeC
- knowledge workers
- 4. To provide systems support to sustain management and operation of CeCs

CIC:

Mile Initiative. Developing human capital for sustainable human development. Programs to develop Human Capital include 1) the ICT Competency and Standards Development, the creation of guidelines and standards to be used and applied in education and training; and 2)the ICT4E, the incorporation of ICT usage in education schema and the determining and accessing infrastructure necessary in all educational levels. Strategic business development to enhance competitiveness in the Global ICT market. In here, we define the roles that the private sector and the government. The private sector should remain as the prime mover of the ICT industry while the government play the role of the advocate. Legal and policy agenda for the Philippine sector. The provision of legal and regulatory reforms are necessary to promote the country as a global knowledge

投影片 16

PhilCeC Network

"A learning and collaborative community of

CeC stakeholders that will contribute to the achievement of the Philippine CeC Program

vision and delivery of the mission thereby ensuring responsive, efficient, valuable, and sustainable CeCs."

# Initiatives Ensuring universal access to

provider.

player and ICT services

ICT. All citizens must have access to basic government services, information, and quality education through the use of appropriate and affordable ICT technologies. The Philippine government is committed to ensuring universal access to ICT, and will prioritize programs to benefit marginalized sectors and underserved areas. Under this, we have the Community e-center program, Low Cost

👸 cic

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## Initiatives Ensuring universal access to

💏 cic

PhilCeC Academy

A consortium of ICT4D and CeC-related capacity building and content development institutions who collaborate towards the timely delivery of relevant, useful and good capacity building programs for CeC knowledge workers. ICT. All citizens must have access to basic government services, information, and quality education through the use of appropriate and affordable ICT technologies. The Philippine government is committed to ensuring universal access to ICT, and will prioritize programs to benefit marginalized sectors and underserved areas. Under this, we have the Community e-center program, Low Cost **Computing, National** Broadband Plan, and the Last Mile Initiative. Developing human capital for sustainable human development. Programs to develop Human Capital include 1) the ICT Competency and Standards Development, the creation of guidelines and standards to be used and applied in education and training; and 2)the ICT4E, the incorporation of ICT usage in education schema and the determining and accessing infrastructure necessary in all educational levels. Strategic business development to enhance competitiveness in the Global ICT market. In here, we define the roles that the private sector and the government. The private sector should remain as the prime mover of the ICT industry while the government play the role of the advocate. Legal and policy agenda for the Philippine sector. The provision of legal and regulatory reforms are necessary to promote the country as a global knowledge player and ICT services

## provider.







People's Communications for Development – Sharing of Philippine Findings

1<sup>st</sup> Workshop on: Capitalising Information Technology for Greater Access Among Poor and Rural Communities Isis International Manila 27-29 March 2008

投影片2

#### **Premises & Assumptions**

- Social divides or inequalities pre-exist the "digital divide" (e.g. inequities by class, gender, race, religion).
- ICT-development is market-driven.
   The use & development of ICTs take
- The use & development of ICTs take places in unique cultural, political, & economic contexts.
- The value of ICT is in its utility or non-utility.

# 投影片3

#### Framing the Information Society

- We see development not only as modernisation but also the protection of human rights & the promotion of peoples' freedoms.
- We are moving away from a technodeterministic interpretation of ICTs to an interactionist model wherein ICTs interact with the cultural, political, & economic landscape.

#### Focusing on Grassroots Women

Poor women are among the most marginalised. We do not know how poor women communicate. We want to know poor women's interests, concerns, and realities. We want to put the conditions that silence poor women in the development agenda.

## 投影片5

#### **Overview of Research**

 This 5-country study supported by IDRC examines how NGOs or intermediary groups use new & traditional ICTs to effectively empower grassroots women in 3 Asian countries (India, Philippines, Thailand) & 2 Pacific countries (Fiji & Papua New Guinea).

# 投影片6

#### Overview of Research

The general objectives of the study are : (1) to know the ICT environment and infrastructure in each country; (2) to determine actual ICT usage by intermediary groups in empowering grassroots women; (3) to know intermediary organisations' notions of empowerment and how these relate to perceived effectiveness of ICTs; & (4) to know grassroots women's notions of empowerment and how these relate to perceived effectiveness of ICTs.

### Research Methodology

- Applied Qualitative Research Key Informant Interviews (81 Intermediary Groups form the five countries)
- Review of Related Literature
- Focus Group Discussion (one organisation was chosen per country)

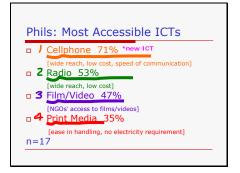
投影片8

#### Focus of Presentation

- USAGE Top ICTs used by intermediary groups in reaching grassroots women
   ACCESSIBILITY Most and Least Accessible ICTs for reaching grassroots women

- EFFECTIVENESS Most and Least Effective ICTs for reaching grassroots women
- Their notion of empowerment
- $\hfill\square$  When is information empowering to them

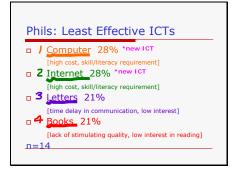
- Phils: Top 5 ICTs Used □ J Film/Video 90% ■ 2 Radio 80% **3** Computer–powerpoint 70% \*new ICT □ 4 Theater 70% □ 5 Cellphone 65% \*new ICT
  - n=20



投影片 11







# 投影片 14

#### What is Empowerment?

Economic independence

- Political participation
- Community Organising
- Solidarity Building
- Individual Agency
- Societal Transformation

# 投影片 15

# When is Information Empowering?

- Accessible
- Accurate
- Transformative
- Based on interactive dialogue
- Useful



# (六)日本 投影片1

## l<sup>st</sup> Kick-off workshop "Capitalising IT for Greater Access among Poor and Rural Communities

Osamu Makino Senior Advisor in ICT and Education Japan International Cooperation Agency March 27-28, 2008

# 投影片2

## Contents

- Japan's distance education
- Case study
- the South Pacific, Thailand, and Senegal

Osamu Makino, JICA

- ICT infrastructure
- CurriculumConclusion

3/27/2008

3/27/2008

#### Conclusion

投影片3

## Distance education in Japan

- The Open University of Japan is a typical distance education system. It provides degree programs and master programs throughout Japan via TV and radio broadcast.
- Various age groups are studying at home and 50 study centers located all over Japan. At the centers, face-to-face tutorial guidance, consultation, library service, self study reviewing of recorded programs, examinations are conducted.

Osamu Makino, JICA

#### OUJ

- Recently, 83,126 students, of which 6,296 are taking master degree programs. Among the total number, male is 35,861 (43.1%) and female 47,265 (56.9%), and teen-ager is 5.7%, under thirty 18.1%, under forty 24.9%, under fifty 8,631 11.8%, under sixty 19.3%, and above sixty's 15.3%.
- Master courses include the fields of Environment, Business Management, Education, etc.

4

Osamu Makino, JICA

投影片5

## JICA projects

- The University of the South Pacific
- Allama Iqbal Open University, Pakistan
- Multimedia University, Malaysia
- Distance education by TV program, PNG

Osamu Makino, JICA

• etc.

3/27/2008

3/27/2008

投影片6

## Distance Education in The South Pacific

- In the South Pacific, the University of the South Pacific, whose main campus is in Fiji, has taken important roles of the distance learning for the Region. USP was established in 1968 as international organization, with 12 member countries in the Region.
- In addition to ordinary face-to-face education, unique distance education has been given to students in the Region. Currently, the University has four faculties, Art and Law, Science and Technology, Business and Economics, and Islands and Oceans.

3/27/2008 Osamu Makino, JICA

## USP

- · The conventional methods of distance education system were post and HF radio communications, which were slow and low efficient.
- In 1998, Japan provided the University with the satellite network infrastructure (USP-Net) as grant aid, collaborating with Australia and New Zealand.

Osamu Makino, JICA

投影片8

#### USP-Net

- The USP-Net links all campuses in member countries with audio/visual two-way communications. Since then, the USP distance education system had been enormously improved with the USP-Net.
- · From July 2002 for 3 years, JICA implemented technical cooperation project providing experts for staff development.
- Recently, the USP upgraded it to IP-based satellite system by their efforts for the maximum utilization of the allocated bandwidth with the latest technology. Osamu Makino, JICA

3/27/2008

3/27/2008

投影片9

#### Current issues in the Pacific

- Issues related to ICT in the Region are how to deliver many kinds of information to various groups, such as schoolteachers, medical staff, local government officials, and ordinary people living in remote islands where there is no electricity, no telephone, and access is difficult.
- Few people and poor productivity in the islands are typical features. Therefore, telecom providers are reluctant to expand their network to the islands. •

3/27/2008 Osamu Makino, JICA 9

## Thailand

Law and regulations

3/27/2008

3/27/2008

- Telecommunications business act 2001 was stipulated.
- · Frequency management is still difficult issue in the circumstance that new technology is introduced into telecomm and broadcast industry. Specifications of communications infrastructure are also carefully examined.

Osamu Makino, JICA

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投影片 11

## Thailand

- ICT stimulates new business chances in communities. OTOP (One Tambon One Product) is good example in Thailand.
- The poor in urban community, the elderly and the disable should be focused in ICT.

Osamu Makino, JICA

# 投影片 12

# Rural community Project in Thailand The purpose of the project is to connect rural villages and access to the people. This is to respond to social needs, local government support, medical services, schoolteacher training, etc., but economical feasibility is not assured due to little economic activity. The sites of projects are North of Chiang Rai, near the boarder with Myanmar. The mountainous environments of the sites are critical to the deployment of physical communication network for both radio and fiber connections. Therefore, latest radio communications system, WiMax is attempted to introduce.

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# NEEDS

- Local real needs for ICT should be sought. Why local people need ICT?
- · Local human resource to operate ICT is to be considered

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投影片 14

## Senegal (1)

#### Illiterate's training

3/27/2008

3/27/2008

- This programme is based on Multimedia Cyber Centre development in Senegal. A centre is composed of a local radio and a cyber centre.
- It costs about USD 48,000 for 10 PCs. The programme is mainly financed by UNESCO & Switzerland and planned to establish 50 CMC in 3 years.
- ITU is the technical partner with 3 pilot projects: Senegal, Mali & Angola. Osamu Makino, JICA

# 投影片 15

## Senegal (2)

- Until now, 20 CMC have been established in case of Senegal. The difficulty is related to the radio component since it's not easy to get radio frequency (safety & political inquiry is needed). Furthermore, radio component is the most costly.
- As for the cyber component, the difficulty is due to the fact that SONATEL (the only fix phone operator) doesn't have access to all villages. So that among 20 established CMC, some are operating but for others, the equipment is used only locally with operation software (Word, etc...).

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## Senegal (3)

- With REVA programme (Back to Agriculture), the goal is to use ICT to teach farmers cultivation techniques (how, when, how long to grow potatoes, type of soils needed, etc...).
- With this programme, no word is used for teaching but rather images (for example rice image will allow accessing to information about how to grow rice and the symbolical traditional farming tool of each ethnic group will allow listening the course in that language).

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投影片 17

#### ICT infrastructure necessary for distance education and training

3/27/2008

- Trunk lines Fiber optics, Microwave link, Satellite link,
  Broadcast transmitter (FM, AM), Internet with WiMax, Internet with HF radio
- Community Centers
- Community Centers PC (100 dollar, used PC), Electric Power (Solar, Small scale hydro generator),
  Training for trainers, maintenance facilities, management,
- Finance
- Universal Service Fund, NGO

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投影片 18

### Target group: Poor farmers

- · Target group: The poor in remote community · Agriculture extension officers are dramatically reduced and not functioning well as results of government structural adjustment aiming at small government. • The number of poor farmers is not reducing.
- One of the reasons may be that they cannot receive appropriate and timely information for their productive daily works, which the extension officers provided before.

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## Information needed to disseminate to farmers (1) · Knowledge and skills in Agriculture

- · Sustainable agriculture, new agriculture products, organic farming, tools, pesticides, fertilizer, etc.
- Natural environment

3/27/2008

Soil, Erosion, Forest conservation, River, Lake · Life improvement Disease, Health (especially mother and child), Hygiene, Sanitation, Nutrition, Cooking methods,

Osamu Makino, JICA

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21

投影片 20

#### Information needed to disseminate to farmers (2)

- •
- Weather Daily and long-term weather information Distribution, agribusiness, products processing In addition to the knowledge and skills related to production, farmers has to know to add values about distribution and processing. .
- Documentation
- Documentation How to access and to formulate proposals to NGO or donors
   Finance How to apply financing
   Local languages and visual pictures are to be used in the training materials.

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投影片 21

# Conclusion

- Following items to be made clear,
- Target group or beneficiaries
- · Information in the curricula
- Curriculum developer (contents designers and field experts) • How to deliver the information (ICT expert)
- ...

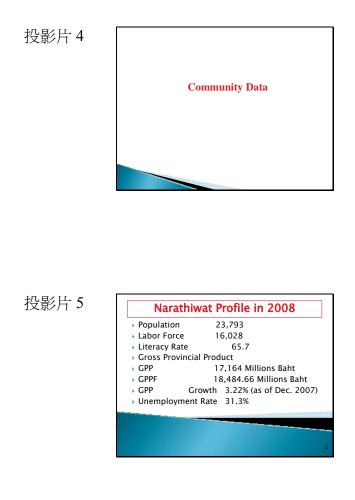
3/27/2008

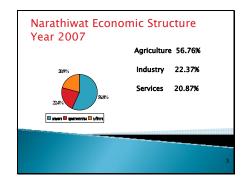
Osamu Makino, JICA

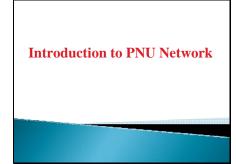




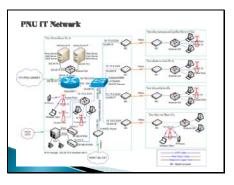








投影片8



# 投影片9

#### What is Ubuntu? (1/3)

- Ubuntu is a <u>community</u> developed operating system that is perfect for laptops, <u>desktops</u> and <u>servers</u>. Whether you use it at home, at school or at work Ubuntu contains all the applications you'll ever need, from word processing and email applications, to web server software and programming tools.
- Ubuntu is and always will be free of charge. You do not pay any licensing fees. You can download, use and share Ubuntu with your friends, famore abool or business for absolutely.

#### What is Ubunto? (2/3)

- Ubuntu issue a new desktop and server release every six months. That means you'll always have the the latest and greatest applications that the open source world has to offer.
- Ubuntu is designed with security in mind. You get free security updates for at least 18 months on the desktop and server. With the Long Term Support (LTS) version you get three years support on the desktop, and five years on the server. There is no extra fee for the LTS version, we make survey best work available to

# 投影片 11

#### What is Ubunto? (3/3)

- Everything you need on one CD, which provides a complete working environment. Additional software is available online.
- The graphical installer enables you to get up and running quickly and easily. A standard installation should take less than 25 minutes.
- Once installed your system is immediately readyto-use. On the <u>desktop</u> you have a full set of productivity, internet, drawing and graphics appliestions, and games.

# 投影片 12

## What does Ubunto mean?

 Ubuntu is an African word meaning 'Humanity to others', or 'I am what I am because of who we all are'. The Ubuntu distribution Ubuntu to the software work
 Accessories Control & Video Control & Video
 Sond & Video
 Addmmove



投影片 14

#### Ubuntu Desktep Edition (2/2)

- A complete office
   Word processor for anything from writing a quick letter to producing an entire book.productivity suite
   Spreadsheet a tool to calculate, analyse, and present your data in numerical reports or charts.
- **Presentation -** an easy, and powerful tool for creating effective multimedia presentations.
- System Requirements Ubuntu is available for PC, 64-Bit and Mac architectures. CDs require at least 256 MB of RAM. Install requires at least 4 GB of disk space.

# 投影片 15

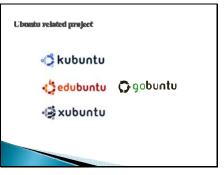
#### Ubantu Server Edition. (1/2)

- The Server Edition built on the solid foundation of Debian which is known for its robust server installations has a strong heritage for reliable performance and predictable evolution.
   Integrated and secure platform
   As your business grows, so does your network. More applications need to be deployed and more servers are required. Ubuntu Server Edition offers support for several common configurations, and simplifies common Linux server deployment processes. It provides a well-integrated platform enabling you to quickly and easily deploy a new server with any of the standard internet services: mail, web, DNS, file serving or database management. A key lesson from its Debian heritage is that of security by default. But builts are server the essential software needed

#### Ubnatu Server Edition (2/2)

- Lower Total cost of ownership with automatic LAMP installation
  - In around 15 minutes, the time it takes to install Ubuntu Server Edition, you can have a LAMP (Linux, Apache, MySQL and PHP) server up and ready to go. This feature, exclusive to Ubuntu Server Edition, is available at the time of installation.
  - or installation. The LAMP option means you don't have to install and integrate each of the four separate LAMP components, a process which can take hours and requires someone who is skilled in the installation and configuration of the intrividual applications. Instead, you get increased security, reduced time-activatel, and reduced risk of

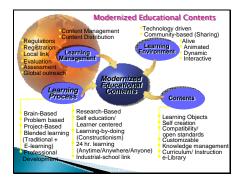
投影片 17



投影片 18

#### **Presentation Outline**

- Learning and using ICT to survive in the digital Knowledge-Based Economy World l e-strategic plan and e-Government to meet
- Setting up the National e-strat world ICT Literacy Indicator
- 3
- world IC1 Literacy Indicator E\_Education IC1 strategic Roadmap ICT Literacy Standards for K-12 and University students ICT Infrastructures, Schools accessibility to Internet ICT Application for School management and teaching-learning process E-learning : a key to success for EDUCATION FOR ALL access ability



The THINK - Modernized Educational Strategy is set up. It comprise of 4 segments: Learning Management, Learning Environment, Learning Process and learning Contents.

## 投影片 20



My last slide introduce you to the BEST WEBSITE EXAMPLE OF SCHOOL ICT IN Action from www.sofweb.vic.edu.au. I do hope that you have some time to search for other success and best practices for your own work.

投影片 21

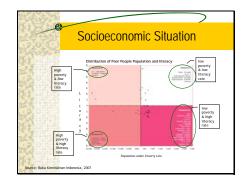


My last slide introduce you to the BEST WEBSITE EXAMPLE OF SCHOOL ICT IN Action from www.sofweb.vic.edu.au. I do hope that you have some time to search for other success and best practices for your own work.

# Thank you







8		_		$\supset$	
Sc	ocioecc	nor	nic Situa	ition	
Palse			ION UNDER POVERTY LI onesia Population)	NE	
POVINCES	POPULATION (000)	(%)	PROVINCE	POPULATION (000)	(%)
Nanggros Aceh Darussalam	1157.2	0.53	Nusa Tenggara Barat	1031.6	0
Sumatera Utara	1800.1	0.83	Nusa Tenggara Timur	1152.1	0.
Sumatera Barat	472.4	0.22	Kalmantan Barat	558.2	0.
Riau	744.4	0.34	Kalmantan Tengah	194.1	0.
Jambi	325.1	0.15	Kalimantan Selatan	231	0.
Sumatera Selatan	1379.3	0.64	Kalmantan Timur	318.2	0.
Bengkulu	345.1	0.16	Sulawesi Utara	192.2	0.
Lampung	1561.7	0.72	Sulawesi Tengah	486.3	0.
Bangka Belitung	91.8	0.04	Sulawesi Selatan	1241.5	0.
DKI Jakarta	277.1	0.13	Sulawesi Tenggara	418.4	0.
Jawa Banat	4654.2	2.14	Gorontalo	259.1	0.
Jawa Tengah	6843.8	3.15	Maluku	397.6	0.
DI Yogyakarta	616.2	0.28	Maluku Utara	107.8	0.
Jawa Timur	7312.5	3.37	Papua	965.8	0.
Banten	779.2	0.36	Indonesia	36146.9	16.
Bali	231.9	0.11			

投影片5

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Number         Numer         Numer         Numer <th>-</th> <th>Socioecor</th> <th>omi</th> <th>c Si</th> <th>tuatio</th> <th>n</th>	-	Socioecor	omi	c Si	tuatio	n
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	Socioeconomic Situation								
	Among the 239	TIVE AGE OF INDONESIA 9 million, about 65.589	6 people are in prod	uctive age					
	Age Groups	Male	Female	Amount					
1234	15 - 24	21,724,770	20,872,842	42,597,612					
10	25 - 34	18,718,302	20,742,770	39,461,072					
	35 - 44	16,327,038	16,247,898	32,574,936					
25	<u>4</u> 5 - 54	12,025,413	11,056,897	23,082,310					
SP.	55+	12,400,008	12,236,110	24,636,118					
Ri I		81,195,531	81,156,517	162,352,048					
22			Source : B	PS/Sakemas, February 2007					

ALL ST									
Soc	Socioeconomic Situation								
	DUPS BASED ON AGE								
Among 162 million, arou									
Age Groups	Male	Female	Amount						
and the second second									
Age Groups	Male	Female	Amount						
Age Groups 15 - 24	Male 13,972,294	Female 8,784,508	Amount 22,756,802						
Age Groups 15 - 24 25 - 34	Male           13,972,294           17,814,783	Female 8,784,508 10,758,841	Amount 22,756,802 28,573,624						
Age Groups 15 - 24 25 - 34 35 - 44	Male           13,972,294           17,814,783           15,732,980	Female 8,784,508 10,758,841 9,372,281	Amount 22,756,802 28,573,624 25,105,261						

# 投影片8

1.6.6.7		>							
Socioeconomic Situation									
POPULATION OF ABOVE 15 YEARS OLD WORK FORCE									
Level of education	2005								
Lever or education	Amount	%							
Did not/ not yet gone to school	5,518,811	5.81							
Did not/not yet graduated from Elementary school	12,453,571	13.12							
Elementary School	35,418,816	37.30							
Junior High School	17,193,368	18.11							
Vocational Junior High School	1,365,270	1.44							
Senior High School	11,566,173	12.18							
Vocational Senior High School	6,282,325	6.62							
Diploma VII	974,701	1.03							
Academy/Diploma III	1,198,522	1.26							
Universities	2,976,561	3.13							
Total	94,948,118	100.00							

2.4	4.1			$ \lor$
はただい	Illitera	Socioeconon	nic Situation	า
Sec. 1	NO	PROVINSI	TOTAL	L
1816.8	NO		Jumlah	%
2. 6.		PROVINSI-PI	ROVINSI > 10 %	
Constant -	1	Papua	317,899	23.33
Sec. A.	2	Nusa Tenggara Barat	484,882	15.50
-1-1-1-1-	3	Sulawesi Selatan	682,288	12.65
15.15	4	Bali	336,952	12.62
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	5	Jawa Timur	3,315,885	11.75
Marth .	6	Irian Jaya Barat	47,957	10.08
1.23			ROVINSI 5-10 %	
	odr 1 dri	Nusa Tenggara Timur	281,359	9.71
Sec. 2.	2	DIY Yogyakarta	251,866	9.17
1213.1	3	Jawa Tengah	2,145,703	8.94
and the	4.1	Kalimantan Barat	267,643	8.44
(Tex. T)E	5	Sulawesi Tenggara	114,308	7.65
in Pr	6	Lampung	318,647	5.93
14 A 10	7	NA Darussalam	152,257	5.38
15.4	8	Bengkulu	64,212	5.34
	9	Maluku Utara	31,858	5.13
mit di	10	Sulawesi Barat	34,744	5.05

94.44	3.1	50 S L 1		$\supset$
	Illiterac	Socioeconon	nic Situation	
10.20	NO	PROVINSI	TOTAL	
1211.2			Jumlah ROVINSI <5 %	%
A. 1.				
an ne.	1	Bangka Belitung	35,472	4.84
1.20	2	Kalimantan Selatan	115,505	4.74
State of the	3	Jambi	81,053	4.15
10.4	4	Jawa Barat	1,189,365	4.01
1213 9	5	SulawesiTengah	71,280	4.01
1.11	6	Kepulauan Riau	42,033	4.00
Sen The	7	Kalimantan Timur	76,328	3.58
1.27	8	Gorontalo	22,369	3.54
12 13	9	Maluku	27,816	3.14
200 2 10	10	Sumatera Utara	273.356	3.11
1213 1	11	Sumatera Selatan	150,923	3.08
1.1.2	12	Banten	198,441	2.87
Tan. The	13	Kalimantan Tengah	42.635	2.64
1.1.201	14	Sumatera Barat	76.025	2.43
12. 12	15	Riau	78.254	2.16
10.0	16	Sulawesi Utara	15,519	0.93
1212 3	17	Jakarta	56,430	0.84
12	Barth 2	INDONESIA	11.401.264	6.91

投影片 11

•		Socioeconomic Situation							
Number of schools	Public	Pre-prima Private	Total	Public	Primary Private	Total	Public	Private	Total
Indonesia	330	49,753	50,083	137,396	10,397	147,793	20,936	15,902	36,838
and had been									
Enrollm	ent rate		Pre-primary Primary			rimary		Secon	dary
Indonesia			2,178,		25,997,44		45	45 13,119,769	
A CHAPTER IN									
Number of	Teache	rs							
Indonesia			178,727		1.335.086		86	978,057	

いた。									
220	Socioeconomic Situation								
i i i	lighest Gross Enrollme	nt Rate (2007	)	L	west Gross Enrollment Ra	ate (2007)			
NO.	Province	GER		NO.	Province	GER			
1	DKI	112.45		1	NTT	69.78			
2	DIY	111.70		2	PAPUA	72.21			
3	BALI	99.78		3	PAPUA BARAT	74.65			
4	JATIM	99.74		4	SULTENG	76.33			
5	NAD	99.45		5	KALBAR	76.88			
High G	ER :≥95% I	ow GER : < 9	5%	]					

West of the	1									
		Socioeconomic Situation								
			GER vs NER	(2007)						
	NO.	Levels	GER	Number	NER					
	1	тк	45.00%	4.215.070	22.87%					
K.	2	SD	114.15%	30.080.099	99.01%					
	3	SMP	98.00%	12.670.563	68.74%					
N. Com	4	SMA	29.46%	3.839.500	24.60%					
	5	SMK	33.30%	4.340.024	29.74%					
34										

投影片 14

	Soci	oecor	10	mic Situa	ition
A		SMP dan			
No.	APK Terendah < 8	0%	No.	APK Tertinggi > 95 Kab /Kota	% 
140.			-		
1	Kab. Teluk Bintuni	46,92		Kota Yogyakarta	138,
2	Kab. Yahukimo	45,32	-	Kota Surakarta	134,
3	Kab. Sumba Barat	45,82		Kota Salatiga	132,
4	Kab. Donggala	50,51		Kota Magelang	130,
5	Kab. Tolikara	50,67		Kota Cilegon	128,4
0	Kab. Kaimana	55,95		Kota Palopo	128,4
7	Kab. Kapuas	55,95		Kota Jakarta Selatan	128,1
-	Kab. Mappi	57,44		Kota Palangka Raya	127,0
	Kab. Pegunungan Bintang	58,45		Kota Bukitinggi Kota Padang Sidempuan	127,0
10	Kab. Raja Ampat	59,91	- 10	Kota Padang Sidempuan	125/

A. The			$\supset$
Socio	economi	c Situation	า
Higher Education P	rofile		
· ·		Year	
Conmponent	2005	2006	2007
People of age 19-24	25.347.200	25.349.300	25,350,900
Number of students	3.868.359	4.285.645	4,375,505
- Public HEI	805.479	824.693	978.73
- Private HEI	2.243.761	2.567.879	2,392,417
- Polytechnics	48.493	51.318	47,253
- Islamic Colleges	508.545	518.901	506,247
Universitas Terbuka	262.081	322.854	450.849
GER (%)	15.26	16.91	17.26%

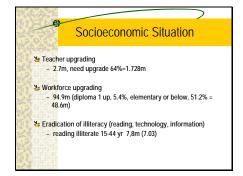
Socioeconomic Situation								
Higher E	ducation	n Profile	(by geno	ler)				
K	20	05	20	06	2007			
Komponen	м	F	м	F	м	F		
People of age 19-24	12.708.400	12.638.800	12.745.500	12.603.800	12.782.600	12.568.300		
Number of students	1.939.156	1.929.203	2.147.186	2.138.459	2.243.968	2.131.537		
- Public HEI	415.885	389.594	425.806	398.887	505.323	473.416		
- Private HEI	1.109.693	1.134.068	1.269.992	1.297.887	1.269.992	1.103.231		
- Polytechnics	26.271	21.822	28.225	23.093	25.989	21.264		
- Islamic Colleges	252.747	255.798	257.894	261.007	251.605	254.642		
Universitas Terbuka	134.160	127.921	165.269	157.585	171.865	278.984		
GER (%)	15.25	15.26	16.85	16.97	17.55	16.96		

# 投影片 17

TAL O	- <b>*</b> - S	Socioe	conor	nic Situ	ation
H	igher Educa	PENDUDUK 19-24	ile (non	-participar PENDUDUK 19-24 TIDAK KULIAH	it per area) PROVINSI
1	KOPERTIS I	2,059,100	14.67%	1,757,030	NAD, SUMUT
2	KOPERTIS II	2,221,500	6.71%	2,072,437	SUMSEL, BENGKULU, LAMPUNG, BABEL
3	KOPERTIS III	1,015,800	63.00%	375,846	DKI JAKARTA
4	KOPERTIS IV	5,657,900	6.77%	5,274,860	JABAR, BANTEN
5	KOPERTIS V	391,900	63.35%	143,631	
6	KOPERTIS VI	3,457,900	7.23%	3,207,894	
7	KOPERTIS VII	3,718,500	10.04%	3,345,163	JATIM
8	KOPERTIS VIII	1,353,200	7.82%	1,247,380	BALI, NTT, NTB
9	KOPERTIS IX	1,833,800	12.27%	1,608,793	SULUT, SULTENG, SULSEL, SULTENG, GORONTALO
11	KOPERTIS X	1,603,700	10.73%	1,431,623	SUMBAR, RIAU, JAMBI
1	KOPERTIS XI	1,504,300	6.41%		KALIMANTAN
13	KOPERTIS XII	533,300	9.51%		MALUKU, PAPUA
	TOTAL	25.350.900		22.355.114	

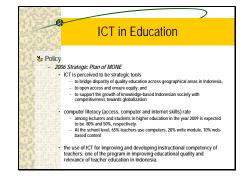
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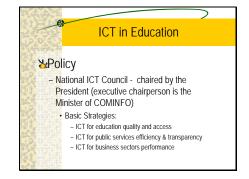
S. Frithe			_				$\overline{>}$	
-	Socio	econ	omi	c Si	tuat	ion		
Higher Educ	cation P	rofile (t	eache			<i>.</i> ,		
Jenjang	Jml Guru	<=SLTA	D1	ljazah D2	Terting D3	g <mark>i</mark> S1	S2	<b>S</b> 3
TK/RA Presc	174429	63.49	5.41	18.56	1.78	10.69	0.07	0.00
SLB Special Ed	10.154	16.41	2.34	28.39	7.91	44.46	0.49	-
SD Elemt	1,250,032	33.39	0.92	47.12		16.57	0.09	0.00
MI Is. Elemt	204,774	46.27	11.52	22.43	4.44	15.29	0.05	
SMP Junior H	488,206	8.02	7.42	7.67	14.92	61.31	0.67	0.00
MTs Is. Junior H	179,809	20.60	5.96	7.54	12.55	53.02	0.33	0.00
SMA Senior H	227,433	2.77	0.53	1.79	10.10	83.43	1.37	0.01
		10.00	2.33	3.47	11.10	70.79	1.42	0.01
MA Is. Senior H	92,723	10.88	2.33	0.47				



投影片 20

22	NO-		
	ICT: current condi	tion	
8	Access to Internet: internet cafés, offices, homes, schools and universities	Year	Internet user (Indonesia)
-	Infrastructure: 50% of 72,000 villages no telecommunication	1998	512.000
	connection yet	1999	1.000.000
*	2,500 educational institutions are Internet users, 80% are secondary schools and 20% are higher education institutions.	2000	1.900.000
(A. 1		2001	4.200.000
•	2006: INHERENT – 87 HEIs (from 2864 HEIs) are connected	2002	4.500.000
*	2007: Jardiknas – ICT Center 277, MONE District Offices 474	2003	8.080.534
*	National network infrastructure provided by the TELKOM (state owned plc)	2004	11.226.143
24	<ul> <li>Combining terrestrial and satellite connections</li> <li>Terrestrial: optical fiber, copper, digital micro wave;</li> </ul>	2005	16.000.000
21	(wireless and on-wire)	2006	18.000.000



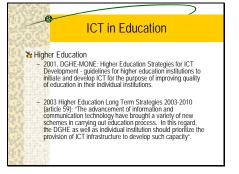


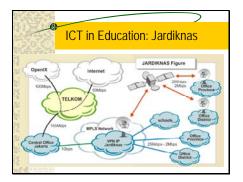
274		
		ICT in Education
No.	Pillars	ICT Strategic role
1.	Access	As media of learning across time and space (open and distance learning): Development of Jardiknas – National Education Network Development of INHERENT – Indonesian Higher Education and Research Network Development of TV-edukasi broadcasting system and distribution
3.	Governance, Accountability and Public Image	Management of Integrated Information System MONE Management of Information System National Identification for schools, teachers, and students National Education Database Decision Support System

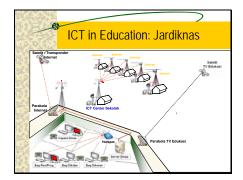
の大学になって		ICT in Education
No.	Pillars	ICT Strategic role
2.	Quality, relevance, and competitiveness	Implemented in the instructional (teaching and learning) process: • TV-Edukasi • Edukasi Net • Edukasi Net • E-boork • E-learning materials for schools and non-formal education • E-learning content (GOLN, etc.) • E-evaluation (EPSBED) • Transborder Research and Education (SOL, AUN) • Digital Library • E-administration • Virtual Laboratory • Video conferencing • Open and Distance Learning

QKζ	A. A. M.				
なるの		IC	T in Edu	ication	
などの方と	Master ICT Plan (Schools & NF) +First introduced- end 1990 +Establishment of School 2000 Project (2001-2005)	Collaborative Effort •Ministry of National Education (MNE) •Indonesian Telematics Coordinating Team (TKTI) •Private Sector	Focused Areas + Still in Senior High and Vocational Schools + More of application + Eventually, teachers can managed DL to reach more masses	Curriculum Integration • Gradual assimilation beginning with High Schools • More of ICT as a subject •However efforts to integrate are being made	Targets + 2006: 25% of teachers use computers, 10% build module + 2010: 65% teachers use computers, 20% build module, 10% web-based content
NAME OF THE	Infrastructure +High cost of Internet Access +Unrellable dial-up connection + Ordy 3 in 100 people have telephone lines +Jack of sufficient band-width	Budget +Allocation inadequate +Not all schools have implemented ICT	Uneven ICT Distribution • Rural schools have much lack in all aspects: ICT for administration, for teaching learning, low band-width, etc	Implementation Constraints +Lack of awareness of decision or policy makers on benefits of ICT +Reluctance on adoption +Lack of ICT policy implementers	Others + English Language + Lack of Training +New program: +Internet goes to school +Vendors program: microsoft, intel, cisco, acer, etc. OSOL

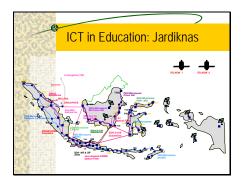
投影片 26









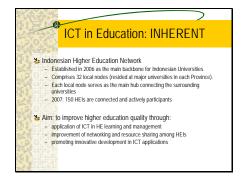


2.14	and the second sec			
	ICT in Education: J	lardiki	nas	
	¥ Jardiknas nodes (2007)			
22.1	Intranet Diknas Propinsi (Provinces)	34	Node	1
Mit	Intranet Diknas Kota/Kab (Districts)	462	Node	
22	Intranet Unit Depdiknas (MONE)	119	Node	
pas.m	Intranet SKB (Learning Activity Center)	66	Node	
2.1	Intranet Library dan National Museum	30	Node	
PGY	Intranet ICT Center	440	Node	
23	Intranet Campus Zone	300	Node	
(Sa. 1)	Total	1.451	Node	
2:00				
15.3				
ne te				



投影片 32

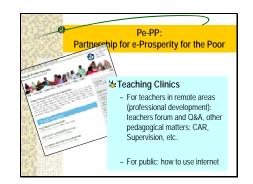
ICT in Education	n: INHE	
		1 Mbps (redundant link) 2 Mbps
	UNO UNOPAT UNO UNOPAT MAS	
	UNC FAST THE	AUSTRALIA





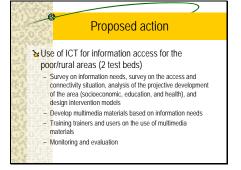
投影片 35

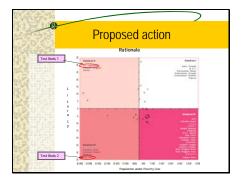
である。注		
Pe-	Sample Prog PP: Partnership for e-Pro	,
Agency, Indo	et (in collaboration with Na Inesia) ommunity Telecente	5
Socioeconon Agriculture Fisheries Farming Production Marketing		health L tele- medicine

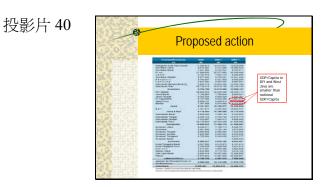




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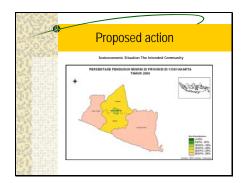








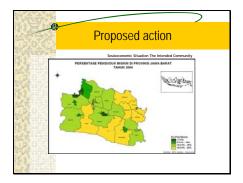




Prop	osed	acti	on
Populatio	n under Pover	ty Line by R	egency
Kabupaterv Kota	Pendud	uk Miskin	Gans Kemiskinan Rishaphi J
(1)	(000)	(7)	(4)
1. Kulonprogo	94,60	25,11	129.057
2. Bantul	151,40	18.55	126.748
3. Gunungkidul	173,30	25,19	121.436
4. Dieman	146,50	15,53	154.689
5. Yogyakarta	50,40	12,77	168.310
Propinsi DIY	616.20	19,14	134.371

投影片 44

						>
	Prop	ose	d ac	tion		
HILL HILL	ıman Developr	nent Inde:	by Provir	ce/Kabupate	n/Kota	
Propinsi KabupatensiYota	Angka Harapan Hidap (tahun)	Angka Melek Huruf (persen)	Rata-rata Lama Sekolah (tahun)	Rata-rata Pengeluaran per kapita riil disesualkan (Rp.000)	PM	Peringkat Semua Propinsi Kab
Yogyakaria	72.9	86,7	8,4	638,0	73,5	4
Kata Page	73,1 70,9 70,4 72,7	86,5 86,4 84,5 90,5	7,7 8,0 7,6 90,1	617,9 637,1 614,6 639,1	71,6 71,9 69,3 75,6	114 93 199 21
kabi	poorest paten in DIY d on seconomic tators	3	10,8	639.1	nj	2



1.0	_		
-60-	Propose	ed action	
1.150	Household under Po	verty Line by Regency	
KABUPATEN/ KOTA	Household under poverty line	KABUPATEN/KOTA	Household under poverty lin
01 Kab Bogor	257.280	14 Kab Purwakarta	59.271
02 Kab Sakabumi	229.031	15 Kab Katawang	190.584
03 Kab Cianjur	196.486	16 Kab Bekasi	111.576
04 Kab Bandung	281.721	17 Kota Bogor	41.659
05 Kab Garut	222.112	18 Kota Sakaburni	13.178
06 Kab Tasekmalaya	143.234	19 Kota Bandung	84.662
07 Kab Ciamis	119.350	20 Kota Cirebon	15.084
05 Kab Kuningan	84.637	21 Kota Bekasi	38.177
09 Kab Circbon	203.247	22 Kota Depok	32.372
10 Kab Majalengka	115.837	23 Kota Cimahi	21,995
11 Kab Sumadang	83.462	24 Kota Tasik	39.491
12 Kab Indramaya	163.927	25 Kota Banjar	10.961
13 Kab Subang	147.743	Jawa Barat	2.913.077

投影片 47

1.4							$\supset$	
	Proposed action							
	Propinsi Kabupaten Kota	Angka Harapan Hidup (tahua)	Angka Molek Haraf (person)	Rata-rata Lama Sekolah (tahun)	Rata-rata Pengeluaran per kapita-riil dhemualkan (Rp.000)	PM	Puringkat Semua Propinsi Kab	
	Jewa Darat	47,2	94.6	7,4	619,7	65.5	14	
	Chapt	95.9	93.6	6.5	620.7	69.2	205	
16 H . H . H .	Substance:	45.7	96.6	6.2	673.8	66.7	229	
1 P h H	Carper	64.5	92.1	6.1	603.0	66.8	301	
	Bandung	68.5	98.4	8.2	624.0	72.4	81	
Str. Plan	Ganut	63.6	96.0	6.8	626.1	66.7	224	
	Tank Malava	67.0	98.3	6.7	623.6	20.4	149	
1.001 400	Carrie	46.5	96.3	6.6	619.7	69.3	195	
	Kuningan	66.9	92.6	4.5	618.2	68.5	205	
Contraction of the second	Cirebon	64.6	88.2	6.1	638,1	66.0	341	
1. 1. 1. P at	Majalengka	45.1	98.9	6.1	618.3	66.5	302	
	Sumedang	66.9	96.7	7.1	621.8	70.2	162	
	Indramayo	65.1	75.0	5.0	620.5	63.0	406	
2	Subarg	68.8	87,0	6.0	620.3	68.2	245	
	Pursokarta	65,7	94,2	7,0	618,2	68.6	234	
	Karawang	65,3	86,7	6.5	618,8	66.4	322	
	Bekasi	68.0	92.7	8.1	619.0	70.4	150	
Salat Salat	Kota Bogor	68,3	98,6	9.6	636,0	74.3	40	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Kota Dekasi	60.1	92,7	10,01	632.4	74.6	35	
1 1 1 h	Kata Depok	72,6	197,2	10.2	639.5	77,1	6	
	Kota Cimalhi	68.7	99.6	9.6	613,9	73,1	73	
Story Jol	Kota Tasikmalaya	68.3	98.8	8.4	617.6	72,1	94	
ALTER DU	Kota Daniar	65.6	96.2	7.8	615.5	03.4	194	

Sec. The				$\sum$	
Proposed action					
Lokasi	Angka Partisipasi Sekolah (APS) Usia				
Construction Construction	7-12	13-15	16-18	19-24	
KABUPATEN					
01 BOGOR	94.51	69.85	35.45	5.63	
62 SUKABUMI	94.83	71.02	39.58	5.45	
03 CIANJUR	98.27	66.30	23.28	2.47	
64 BANDUNG	97.09	80.34	44.24	7.96	
65 GARUT	96.02	74.38	36.93	3.56	
06 TASIRMALAYA	96.58	74.26	32.88	6.29	
07 CIAMIS	96.60	84.11	44.69	10.54	
68 KUNINGAN	97.30	79.72	53.70	7.00	
09 CIREBON	97.22	73.17	47.91	2.91	
10 MAJALENGKA	98.52	81.10	32.38	2.95	
11 SUMEDANG	98.90	91.84	57.99	11.74	
12 INDRAMAYU	95.85	74.07	38.46	4.92	
13 SUBANG	98.05	87.06	48.11	7.77	
14PURWAKARTA	95.33	78.25	50.39	5.36	
15 KARAWANG	97.06	79.53	45.86	9.29	
16 BEKASI	98.32	91.56	51.81	8.93	

Pro	posed	actior	ר <sub>cont</sub>		
Lokasi	Angka Partisipasi Sekolah (APS) Usia				
Louis	7-12	13-15	16-18	19-24	
KOTA					
71 BOGOR	98.55	88.73	54.16	16.68	
72 SUKABUMI	99.26	95.10	69.37	14.91	
73 BANDUNG	97.66	92.98	70.78	26.74	
74 CIREBON	96.32	90.58	65.67	10.29	
75 BEKASI	99.10	96.62	75.47	21.29	
76 DEPOK	96.26	92.91	64.62	22.86	
77 CIMAHI	98.79	98.75	67.92	17.88	
78 TASIKMALAYA	97.35	89.16	70.84	14.67	
76 BANJAR	95.13	89.15	49.63	8.74	
Presinci	96.68	78.75	45.13	9,55	