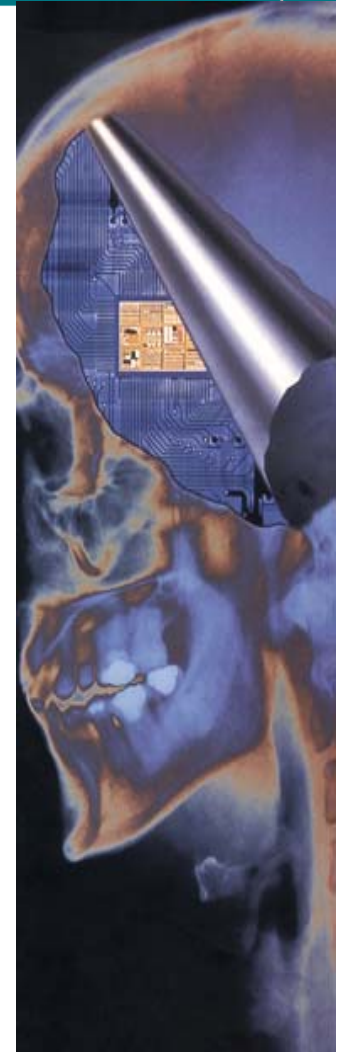


Pacific ICT Ministerial Forum
Tonga
17th – 20th February 2009

**Human Capacity Building
in the Pacific**

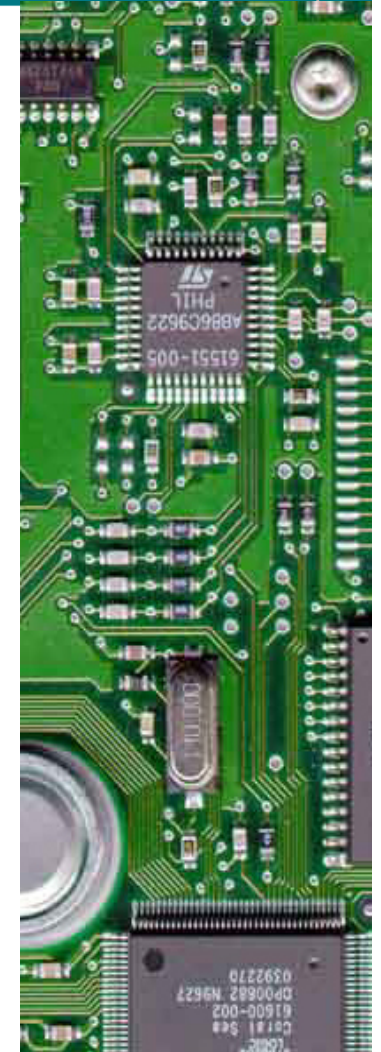
Presentation

- ICT human Capacity building in the Pacific region
- ICT skills categories and providers of capacity building
- Brief on capacity building activities of USP
- Report on Proposals



Proposals

1. Japan Pacific ICT Centre (USP, \$30millionFJD commenced January 2009, completion February 2010, Government of Japan)
2. ICT for Human Development and Security (USP, under development; Government of Japan to begin 2009)
3. Internet Training Centre (ITU and USP; underway now in 4th year)
4. ICT-Based Education (ADB and USP under development)



ICT human Capacity Building in the Pacific region

Pacific has diverse economic and social problems;

Many member countries still struggling to take full advantage of benefits from ICT to provide some solutions to these problems;

Lack of appropriate ICT structures in member countries and skilled people in ICT to meet needs;

Member countries unable to use ICT as a strategic tool for addressing socio-economic development issues;

Need for various skills at different levels and categories

Expert assistance needed to build ICT sector



ICT human Capacity Building in the Pacific region



Conducting feasibility of HR needs for ICT centre, recognised:

Hands-on training is limited in the present curricula at USP and other institutions. This was pointed out by industry and business field. Reviewed. Industry experience

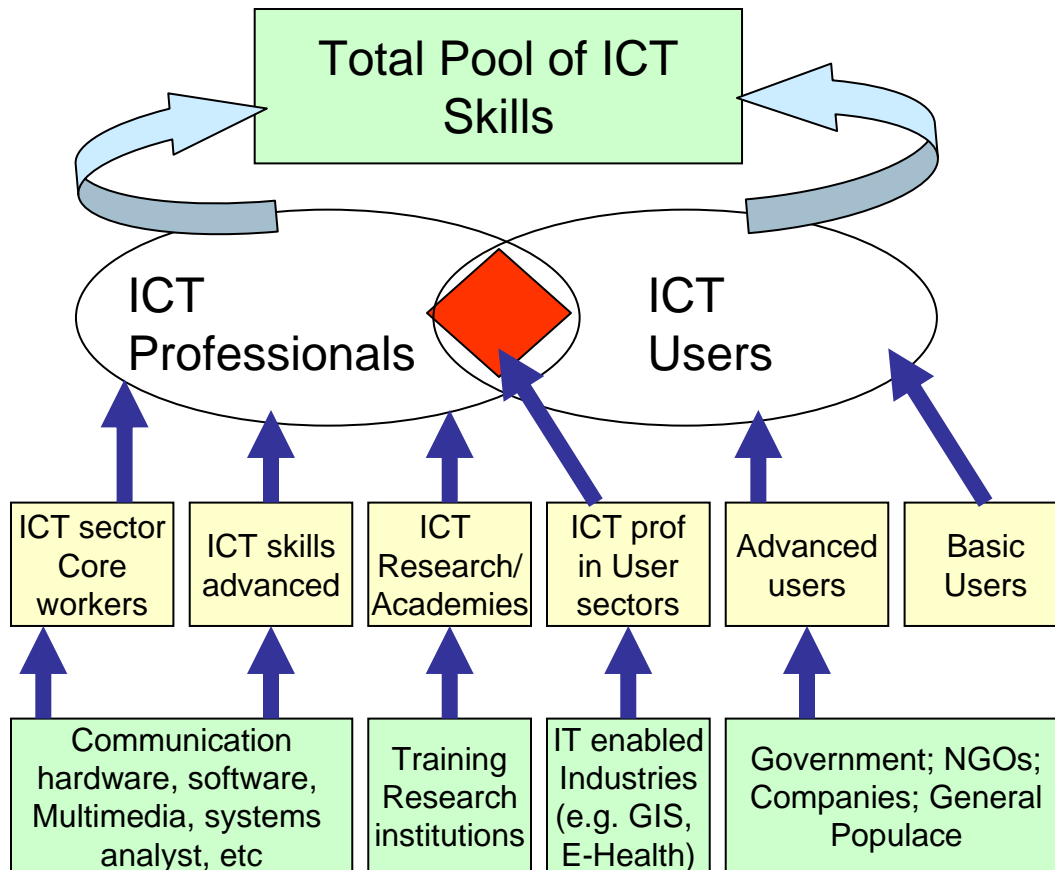
Some of our courses in C/S and engineering are producing graduates with basic skills. Whole programme now revised and implemented - issues of access and affordability, linux and open source

The region needs highly trained and skilled personnel in ICT field as this would create potential business.

Schools curriculum need to be reviewed and upgraded



ICT Skills Categories*



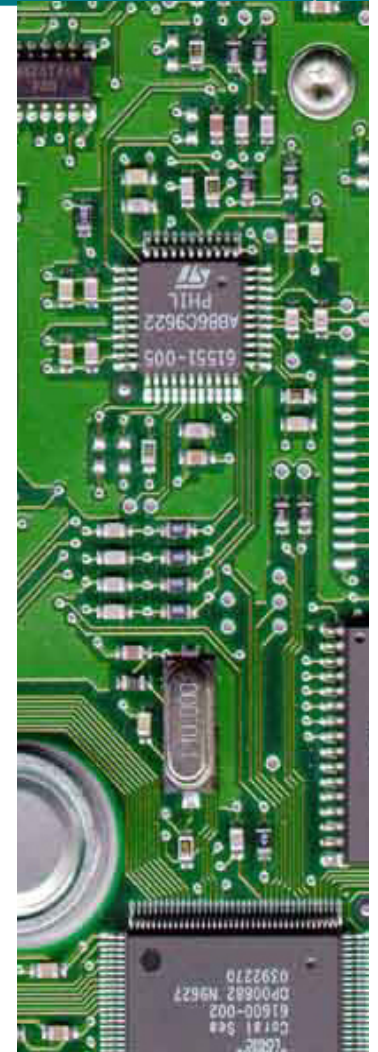
1. **ICT Professional Skills in the User Sectors:** *These encompass skills needed outside of the ICT industry*
2. **ICT Professionals Skills in the ICT Industry:** *These encompass the ICT skills needed in the ICT sector itself.*
3. **ICT Users:** *These encompass Advanced User Skills (Active Users) and Basic User Skills.*

* Ravi Raina, "ICT Human Resource Development in Asia and the Pacific: Current Status, Emerging Trends, Policies and Strategies," UN APCICT Regional Forum on ICT Capacity Building, 5-6 March 2007, Republic of Korea.

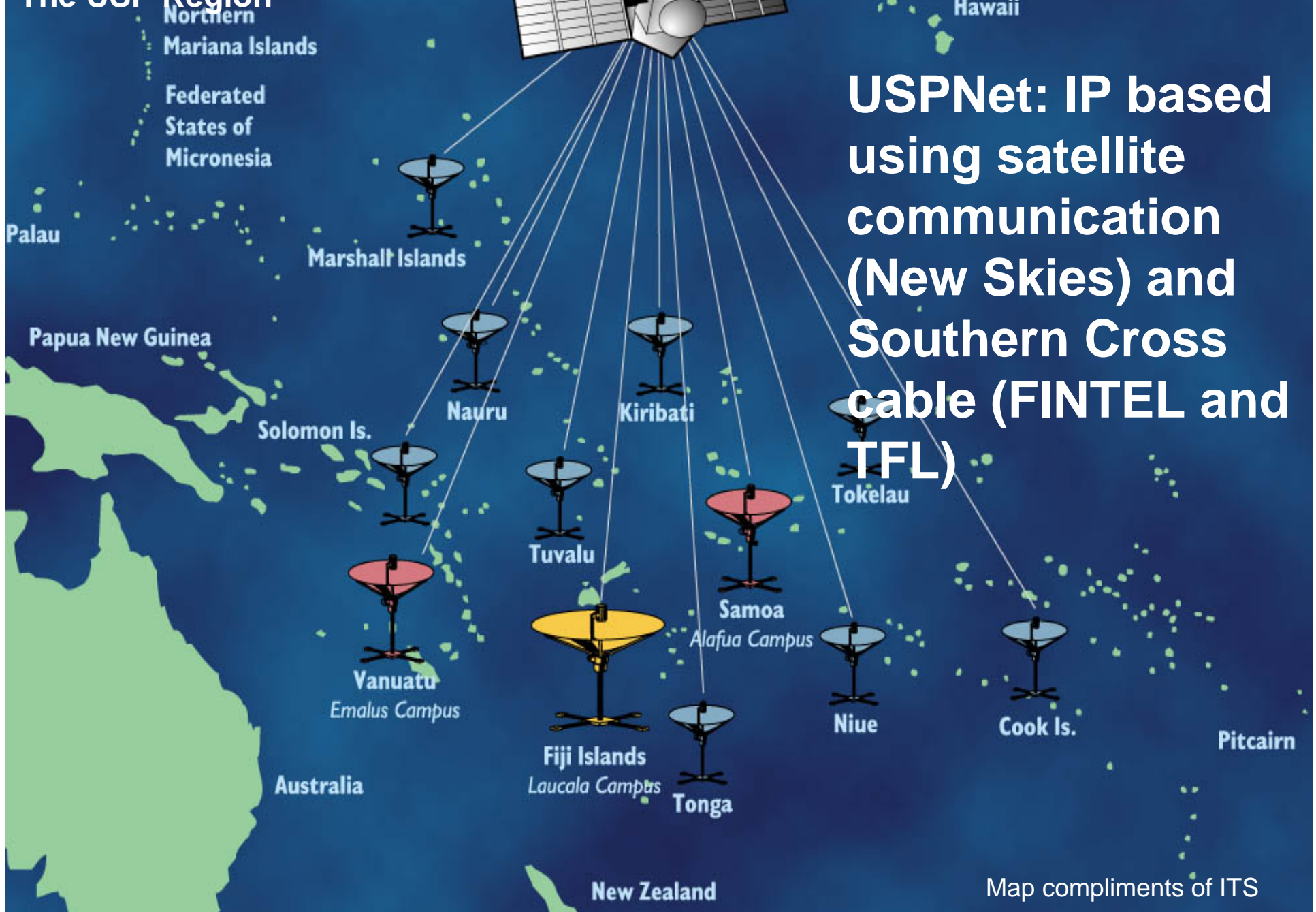
USP and ICT Capacity Building in the Pacific region



- Distance and flexible learning since 1972
- E-learning via open source CMS Moodle
- Strong computing studies school
- Offer undergraduate, graduate and professional
- High number of ICT students – 5,000 of total 20,000 total (2008) enrolment
- ICT Tax-free zone of the USP Satham Campus commenced 2006 – only ICT tax free park in the region with 14 companies
- Pacific Plan and Digital Strategy endorsed
- USPNet 80s, 1999; USPNet Enhancement Project in 2002, 2005; AARNET 2004 – using southern cross cable – backbone and lifeline for USP member countries



The USP Region



Map compliments of ITS

Going forward in capacity building

- Need more and affordable bandwidth;
- Accelerate research and development in cheaper broadband and activities in the Pacific;
- Expand Professional Training - Cisco Academy, Redhat Linux Academy, WebDesign Academy, Microsoft training;
- Partner with local national telecommunication providers for access to greater and affordable bandwidth



USP: an ideal conduit for provision of development of Human Resources and enhancement of Human Security in the Pacific

Proposal 1: Japan Pacific ICT Centre



Project approved by Heads of governments in 2003

Vision

Regional centre of excellence for ICT and to spearhead research, new learning technologies, development and leadership in ICT to ensure that the Pacific can participate in the global information society.

Mission

- To disseminate knowledge to the people in the region for creative and worthwhile life,
- To strengthen science and technology, and to enhance hands-on education at USP and the region,
- To promote interaction with industry, society and community in the region, and
- To support and coordinate interdisciplinary research in ICT for the benefit of the region



Japan Pacific ICT Centre

Objectives

To significantly improve the socio-economic development of the region by serving as the centre of excellence for research, education, training, consulting and knowledge in ICT

Specifically:

- close the digital divide – global, within region, within countries – especially in the quality of ICT skills
- address issue of capacity building and brain drain
- issue of isolation and accessing education
- address issue of limited technology diffusion



Japan Pacific ICT Centre

- expand flexible and distance learning in the region and nationally
- provide centre for professional and expertise training
- centre of excellence for research in ICT
- provide incubate spin-off ICT business ventures with industry
- information resource centre on ICT
- champion on e-business, e-commerce and e-government
- development of school curriculum in IT and computing
- policy and regulation
- videoconference facilities

Cost: \$30million FJD bilateral aid through Fiji Government

- Commence Jan 2009 complete March 2010



Japan Pacific ICT Centre



Japan Pacific ICT Centre

New Activities in the Centre

- New Computing Science programmes
- New Engineering Department programmes
- Additional GIS programmes
- ITS training courses - **Courses ITS offers currently Red Hat, Cisco, Security, Web developer, Scripting, Microsoft Applications, MYOB**
- Distance and flexible learning training courses – new and ongoing
- Library education/training programmes and services -**Information Literacy Programme and Library paraprofessionals training Programme, digitise its microform and AV materials**
- Digital Art programmes -**The ICT centre will offer the region thru USP the opportunity to create and develop a bond between Information and Communication Technology and the rich Pacific traditional expressions of arts and culture.**
- Good Governance – expanded portal, leadership, database

Japan Pacific ICT Centre

Some Potential training needs;

- 1) Ministries of Education, Health, Communications, Information, Finance & National Planning**

8,000 school teachers, 7,000 medical workers

- 2) Fiji Government officials...25,000 people; other governments 50,000**

- 3) Telecomm. Industries: 14,000 people**

- 4) FEA and energy : 640 people**

- 5) Community (NGOs, religious bodies), etc**

- 6) Video conferences**



Japan Pacific ICT Centre

Future activities

- Develop regional standards for ICT occupations and corresponding skills
- Develop a regional ICT skill monitoring model that could help to assess and project demand and supply of ICT skills
- Establish a regional ICT skill certification
- Pursue research and development and capacity building
- Establish database and network on ICT databases, software, IOSN, policies, research results and resources, expertise list.

Japan Pacific ICT Centre

Beneficiaries

Governments

USP staff and students in the region

Countries of the region – graduates and trained human resource

Regional organisations and ICT associations

Industry

Non state actors

New partnerships



Proposal 2: ICT for Human Development and Security



Objectives

A. Strengthen USP's ability to produce cutting-edge ICT resources for Human Development & Security:

- Direct Enhancement of USPNet Infrastructure.
- Development of USPNet HR & Processes (Govern service delivery with the use of international benchmarks)
- Management and technical staff for ICT Centre
- HRD for ICT Centre

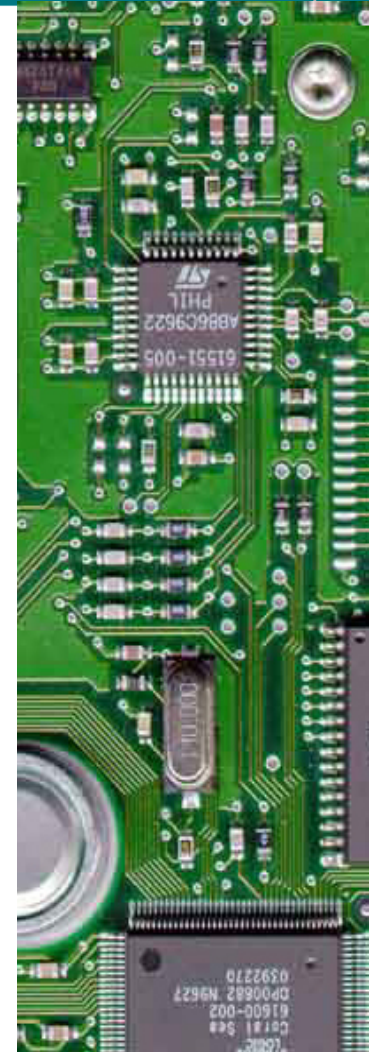
B. Strengthen USP's ability to deliver quality academic programmes and training through Distance & Flexible Learning:

- Enhancement of USPNet Infrastructure particularly broadband, HR & Processes.
- Enhancement of USP's internal DFL resources
- Maintain international standards

Objectives

C. Strengthen USP's direct community engagement on Human Development & Security projects:

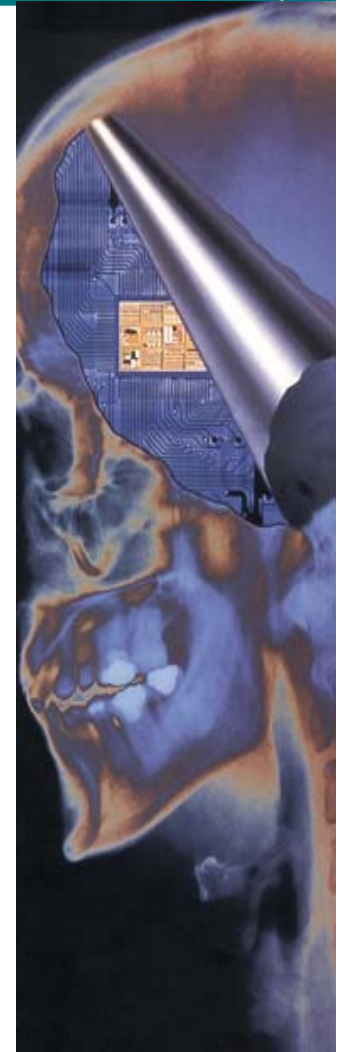
- USPNet - ICT Community Centres (with reference to USP Regional Campuses becoming ICT Regional Community Centers)
- School Teacher Training (in the area of Secondary School ICT Curriculum and Basic ICT Technical Training)



Strengthen community engagement

Possible collaborative projects:

- Offers in ICT certified industry programmes/courses (Regional)
- Regional Disaster Management Resource. (Use USPNet as a Disaster Management Tool e.g. Niue case)
- Early Warning Centre Collaboration.
- ICT network security.
- Teacher Training.
- ICT Community Centres
- JICANet Association benefits.



Beneficiaries



USP

Pacific region communities and organisations

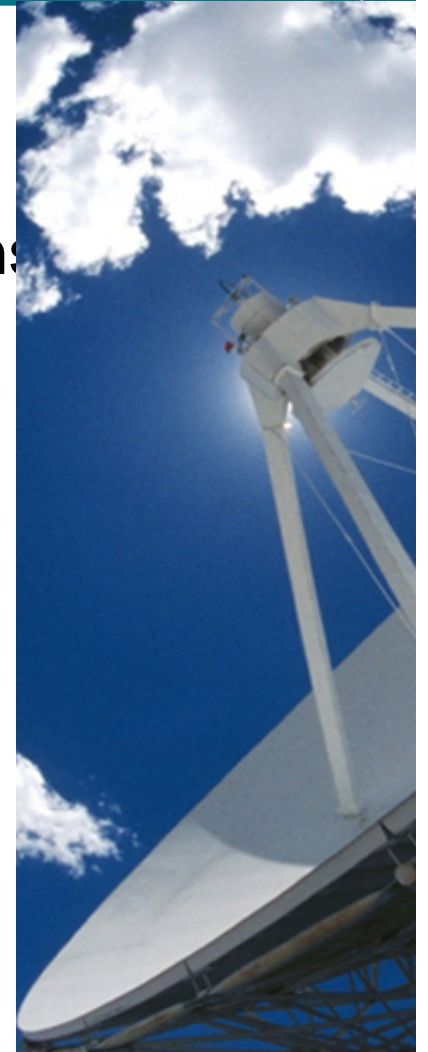
Urban and rural communities

Communities – information, training needs

Distance education expansion and access

Schools and Institutes

Governments



Proposal 3: Internet Training Centre



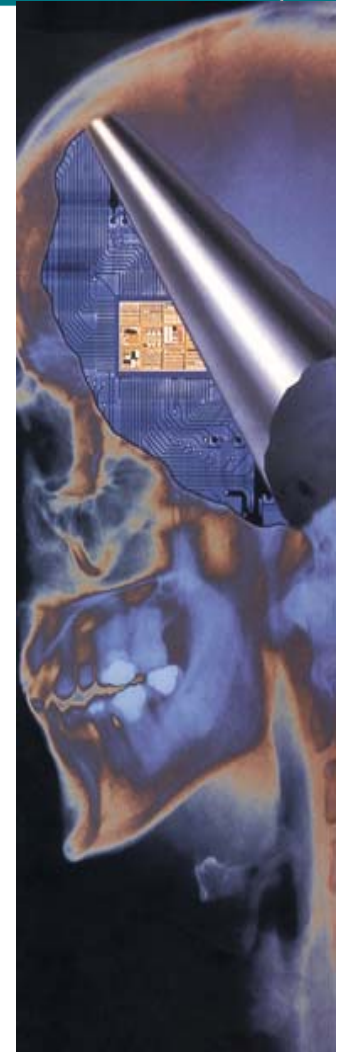
ITU initiative with USP - Setup Internet Training Centers. USP has been a regional training centre past 4 years

Goals and Objectives

- **Response of human-resource ICT capacity development to one of the most crucial constraints facing developing countries; “bridging the digital divide”.**

Tactical Response

- **Deliver ICT Content**
 - **How to design and set-up an e-secure web-based service.**
- **Tactical Performance Measure**
 - **ICT Competency & Feedback**



Statistics for USP regional centre

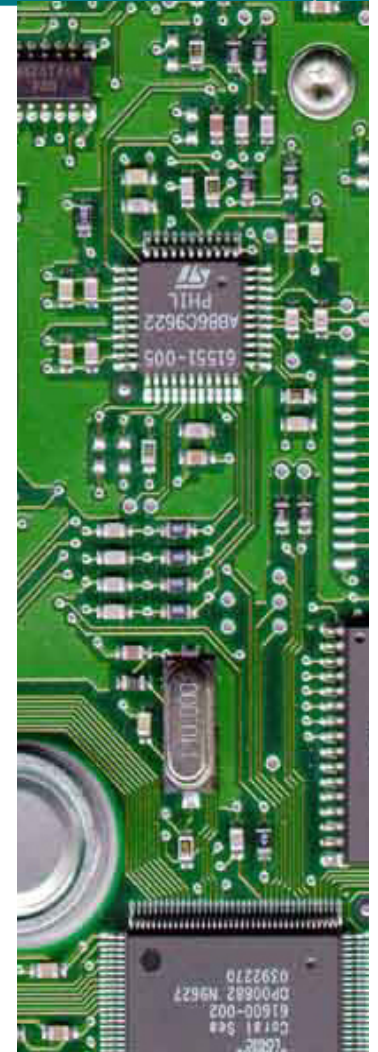


Academy Specifics

- Number of courses running → 4 per Year
- Number of students attending → ~ 80 per Year
- Number of Instructors → 2
- Course Evaluation → Per Course

Course Specifics

- Pass Ratio → ~ 95%
- Attendance Ratio → ~ 90%
- Delivery Times → 5pm - 9pm
- Course Duration → ~ 4 weeks



Way Forward

- **Japan Pacific ICT Center (2010)**
 - **ICT Training is a core focus & the Academy will be part of this new Centre**
- **Compliance to ITU Academy requirements**
- **Cross crediting national training institutes with USP**
- **Students able to study staying home**
- **More awareness on e-security**
- **A seed for Pacific CERT (Computer Emergency Response Team)**
- **Train the Trainers – need qualified and certified trainers in the region)**
- **Support from stakeholders for these programmes**



ADB's Partnership with USP

Duration:	2009-2010 (Phase I) -- Project Preparatory 2010-2013 (Phase II) – Grant/Loan Project
Funds: Phase I	US\$1 million (Gov't of India) – US\$20 million (ADB) – Phase II
Target:	13 USP Campuses
Partnership:	JICA, AusAID, IIT, CMU and Others.
Activities:	Feasibility Studies (for ADB's Investment Plan) Bandwidth Expansion Support E-Learning Contents Upgrade Academic Partnerships with Universities



Malo

