



Presentation of the APRU-APEC Committee at the third annual APRU presidents' meeting at the University of Auckland, September 7-9, 1999

Rationale

- Every nation is developing science and technology policy in support of economic development
- Science and technology policies must be integrated across regions to optimize global economic development
- APEC requires a regional science and technology policy
- Research universities are key to advancing science and technology in the Asia Pacific Region
- APRU would serve as the science and technology advisory body to APEC leaders

Mechanism

- APRU presidents would annually provide APEC leaders with advice on regional science, technology and human resource issues
- Key issues would be identified in consultation with APEC working groups: Human Resources Development Working Group, Industry Science and Technology Working Group
- APRU would develop expert panels, consisting of scholars to address key issues
- Expert panels would develop position papers with recommendations, work plans and targets
- APRU would receive expert panel reports and meet annually with APEC leaders to discuss recommendations

Examples of Key Issues:

1. Human Capital

2. Technology Transfer/Intellectual Property
3. Sustainable Development
4. Big Science

1. Human Capital

- What are the human capital needs for the APEC region for the year 2010?
- What are the predicted areas of shortages, i.e. computing engineering, health professionals, biotechnology, environmental scientists?
- How might the APEC universities, working together, best address these needs?
- What are the current barriers to linking educational facilities and curriculums throughout the region?
- How might IT best assist in distance learning?
- How might we ensure the mobility of people throughout the region, including professional credentialing?

2. Technology Transfer/Intellectual Property

- What are the current barriers to the sharing of technology development across the region?
- How might we better deal with the protection of intellectual property as a region?
- What policies have to be in place to attract capital from around the world or develop joint ventures in the region?
- Is it possible to contemplate an integrated "University Technology Transfer Office" linking the 34 universities?

3. Sustainable Development

- What is the predicted rate of growth for the region, with particular reference to our urban populations, over the next decade?
- What issues must be addressed in order to support sustainable development in the region?
- How can we ensure sustainable economic development
- What measures need to be put in place to adequately address population growth, e.g. water and food supplies, health and education needs?

- How can we work to develop sustainable cities in the region?

4. "Big Science"

- How will "big science" decisions be made for the region?
- What are the regional needs for particle accelerators, international space stations, environmental tracking systems, light facilities or major telescopes?
- How can we ensure affordable access to regional facilities?
- How can we provide incentives for regional scientific collaboration?
- How might we best develop networks of scientists addressing "big science" questions?

Making the Case:

Building an Inventory of APRU's Collective Strengths

- What is our collective operating budget?
- How many graduates, and in what areas, do we produce annually?
- What is our collective research budget?
- What is our collective endowment?
- How many Nobel laureates do we have?
- How many Ph.Ds do we produce annually?
- How many patents/licenses do we own collectively?
- What is our record of commercializing technologies?
- What "big science" facilities do APRU institutions possess?

Plan of Action: Next Year (99-00)

- Engage a third party (an international consulting firm) to produce a report that outlines APRU's collective strengths and builds the case for engagement with APEC
- Discuss this report with APEC senior officials in preparation for the APEC meeting in 2000 in Brunei
- Consult with the two APEC Working Groups to identify two key issues

APRU/APEC Meeting 2000 - Brunei

- Officially present report to APEC
- Establish expert panels on the two key issues identified with the Working Groups with the view of receiving the expert panel reports at the 2001 APRU meeting
- Obtain APEC support for the two expert panels

APRU/APEC Meeting 2001 - China

- APRU officially endorses expert panel reports
- APRU presidents meet with APEC leaders/senior officials to table expert panel reports and to discuss findings and recommendations
- Continue the process to identify new key issues

APRU PLAN OF ACTION

- **Develop an Inventory of APRU Resources**
- **Identify Issues in Consultation with Working Groups**
- **Task Expert Panels (Terms of Reference Membership)**
- **Receive report of Expert Panels**
- **Discuss report with APEC officials**
- **Communicate with APEC Leaders**