

International Organization for
Developing Universities

iodevuni.org

The Relevance of Internet to Developing Universities

[Nicholas Negroponte (Director, M.I.T. Media Lab), “Will Everything be Digital,”
Time, June 19, 2000, p. 45)

“Typically, the future of the Internet is described as being 50% U.S., 40% Europe, 5% Japan and Korea, and 5% the rest of the world. Boy, is that ever wrong! Be prepared to be very surprised by the rest of the world. Within three years, the developing world will represent more than 50% of the Web. Three years after that, the most widely used language on the Internet will be Chinese.

One reason we miscalculate the developing world's ability to leverage the power of the Internet is that we underestimate the power of imperatives. A single connection can be shared by many people and provide access to a whole world of libraries to a school that previously did not even have books. The one-on-one use of computers we enjoy in the U.S. is not the only way to be connected. **For some reason we understand that a small and poor company can compete with big and rich ones, but we do not realize that a small and poor country can compete on the world market with big and rich ones too.** And they will, to everybody's surprise. You watch."

Vision

- A predominant number of colleges and universities of developing countries would have networked through knowledge sharing stimulated by iodevuni.
- The majority of them would have developed innovative educational and research programs of world class standards.
- This progress would have contributed significantly to the economic development of the respective countries.

iodevuni : A Knowledge Portal

That acts as a

- knowledge broker
- development facilitator
- information repository
- matcher of student interests with facilities
- creator of a new type of networked **education on demand**

Mission

Offer Internet based knowledge sharing services
so as to assist
colleges and universities of developing countries
in their progress towards
becoming educational and research institutions
of world class standards
and, thus,
contribute to the economic development
of the respective countries.

Enterprise Culture

- Non-profit. Service-orientation.
- Internet culture. Individual empowerment. Minimum power distance.
- Goal orientation. Minimum planning. Maximum coordination.
- Dynamic. Flexible. Minimum regulations.
- International. Cross cultural. Non political.
- Customer focus. High quality of services and authenticity of information provided.
- Confidentiality. Information security.

Examples of value adding services

- Recently, Venuvinod Patri of City University of Hong Kong had compiled a metal cutting literature database containing some 4000 references for CIRP. This and similar other databases could be made available to iodevuni customers.
- Each participating university could link its databases containing a selection of its project reports (UG, PG, research, etc.), event/conference schedules, etc.
 - Act as a catalyst in the development of cooperative and joint program and course offerings.
 - Departments and faculty members could share teaching materials, simulated laboratory equipment/experiments, etc.
 - Expert lecture-videos could be shared asynchronously.
 - Student groups distributed across the world could work on common projects. Likewise, faculty could undertake distributed research projects.

iodevuni will become a virtual
net distributed across the world

Core Information Technologies to be
progressively adopted :

- The Internet
- Multimedia
- Networked enterprise-level information repositories
- Software agents and bots, and Datamining
- Automated Text understanding and summarization

The initial hub of *iodevuni*

- Deepak Patri and Dheeraj Patri (Founders of Silyx Corporation, Chicago) have offered their expertise and computer facilities in establishing the initial hub.
- *iodevuni* has already been registered through register.com.

iodevuni

Enterprise Level

International Advisory Panel

Management Team

Regional Coordinators

Region Level (Regional Chapters)

Panel of Patrons

Customer Organizations

Organizars

Identification of a Niche in AP

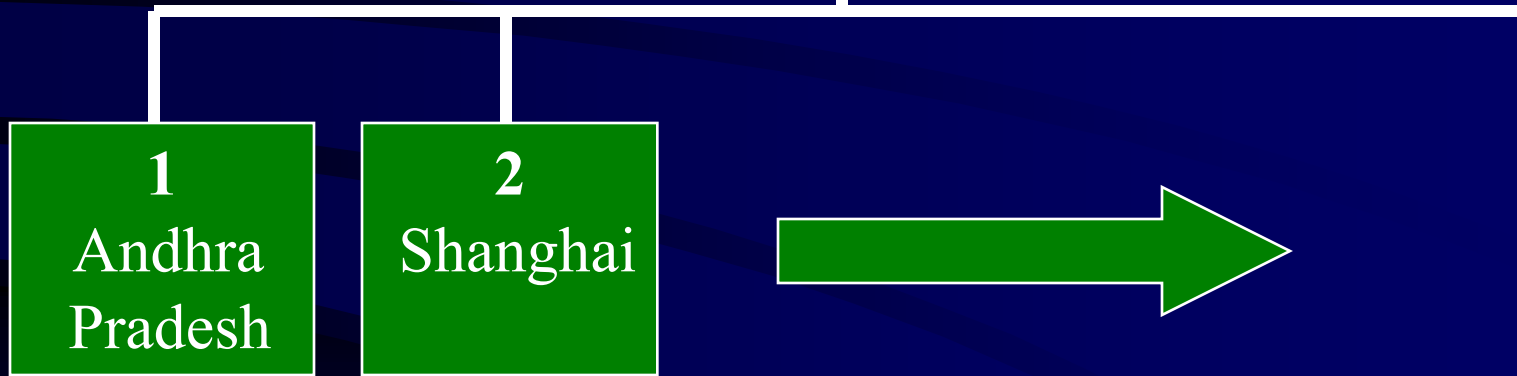
- 110 engineering colleges of which 100 are private. Private outnumbers public by 10:1.
- Yet, the private colleges are seriously constrained by the regulatory frameworks of the public universities to which they are affiliated.
- Private enterprises can progressively innovate by undertaking independent activities (e.g., offering their own ‘unrecognized’ awards, franchising recognized awards from overseas universities—as Vellore has done from QUT in Australia, etc.).
- **iodevuni** could help accelerate such a process.
- In time, public universities could further improve owing to competition from private colleges.

AP is Ripe

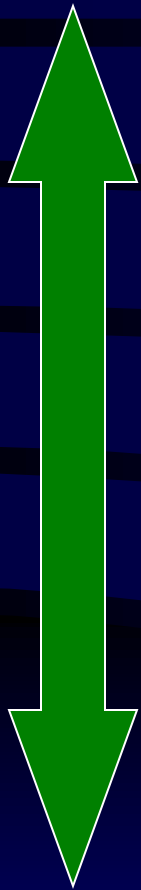
- AP is leading India in terms of computer and Internet cultures.
- The developed world has already recognized AP's potential as a world class player in the digital age.
- The potential of private sector in inducting high technology is already well-recognized in AP. For instance, private hospitals are at the forefront of medical high-technology in AP.

iodevuni

Regional Chapters



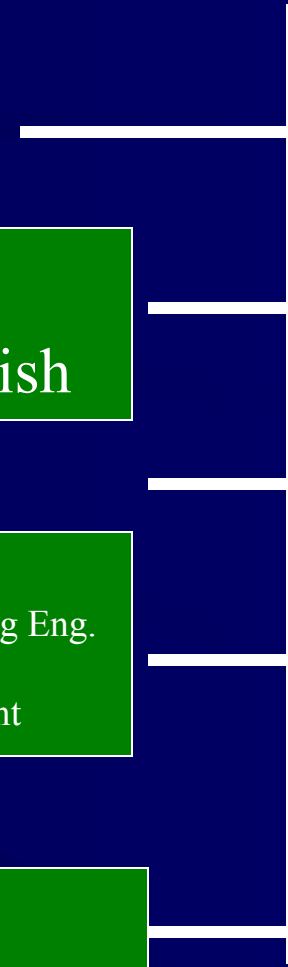
VALUE NETS

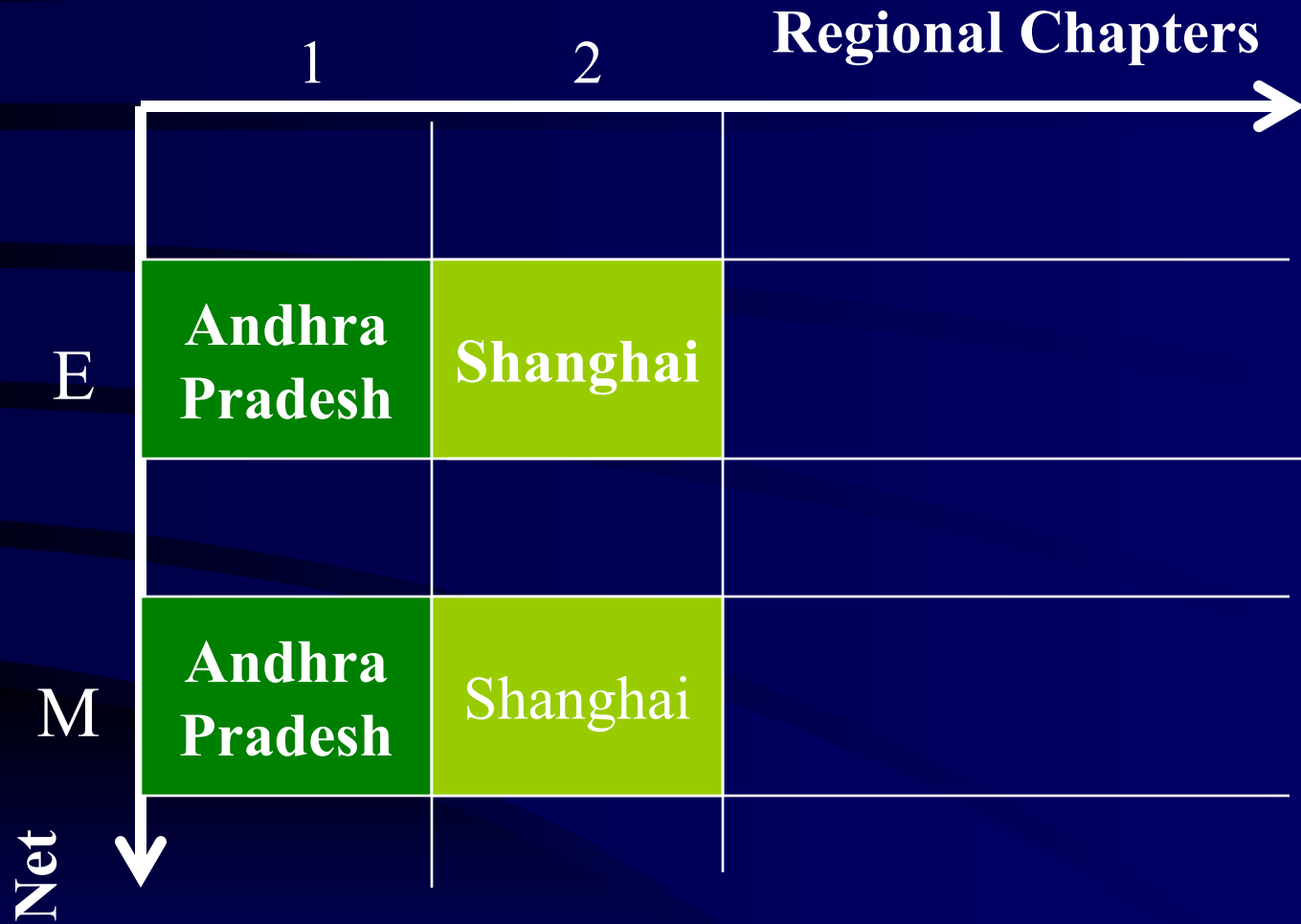


E-Net
Education, English

M-Net
Mechatronic & Manufacturing Eng.
Technology and
Engineering Management

I-Net
IT and CS





Expertise Providers

- Prof. Patri K. Venuvinod, (Manufacturing and Mechatronic Engineering, Technology Management), City University of Hong Kong, 83 Tatchee Avenue, Hong Kong, mepatri@cityu.edu.hk
- Prof. V.M. Rao Tummala, (Management, Statistics and OR), Eastern Michigan University, Ypsilanti, USA., rao.tummala@emich.edu
- Prof. Soundar Kumara, (Manufacturing, IT, e-commerce, and Software agents), Industrial and Manufacturing Engineering & Computer Science and Engineering, 310 Leonhard Building, The Pennsylvania State University, University Park, PA 16802, U.S.A., skumara@psu.edu



Members of AP Chapter of Customer Organizations

- ?
- ?

AP Patrons

- ?
- Industrial sponsors (Longterm)?



Action Plan for AP Chapter

For further details, contact

Prof. Patri K. Venuvinod,
Department of Manufacturing Engineering
and Engineering Management,
City University of Hong Kong,
83 Tat Chee Avenue, Kowloon, Hong Kong.
E-mail: mepatri@cityu.edu.hk