

IEEE COMMUNICATIONS SOCIETY



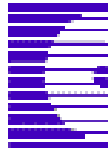
Membership Development Council

Alexander D. Gelman,

VP-Membership Development

AP RCCC, Beijing, August 28, 2004

<http://www.comsoc.org>



IEEE Communications Society
Membership Development Council



Alex Gelman, VP-MD
Trevor Clarkson – Past VP-MD
Steve Weinstein, Director-Marketing
Pierre Perra, Director-MPD

Rocardo Veiga, Director-LA

- Arceli Garcia Gómez, Mexico
- Armando Rivera, Guatemala
- Carlos Westphall, Brazil

Robert Shapiro, Director-NA

- Khaled Amer, Orange County, CA
- Ian Glenn, Ottawa, Canada
- Rulei Ting, New Jersey

Marko Jagodic, Director-EAME

- Steiner Andresen, Norway
- Hans Loeliger, Switzerland
- Michal Pioro, Poland

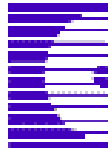
Iwao Sasase, Director-AP

- Ram Gopal Gupta, India
- Yumin Lee, Taiwan
- Zhisheng Niu, Beijing

ComSoc Staff:

John Pape –Director of Marketing
Carole Swaim – Membership Services
Fanny Su – AP Office

<http://www.comsoc.org>



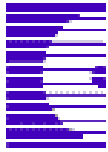
- **Total IEEE membership 339,692, +1.2%**
 - Institute Higher grades **+0.1%**
 - Students **+7.1%**
 - Total membership in **US -1.4% & non-US +5.8% over-all +1.2%**
- **Total societies membership 348,806, -5.0%**
 - Societies' higher grades **-4.8%**
 - Students **-0.6%**
 - Society membership 348,806, **-5.0%**
- **Total ComSoc membership 52,663, +2.1%**
 - Higher grades **-3,114 or -6.8%**
 - Students **+4,242 or +77.5%**
 - Affiliates **-56, or -14.6%**

Highest growth:

- Geosciences and Remote Sensing **+8.8%**
- Social Implications of Technology **+3.1%**
- ComSoc **+2.1%**

Highest loss:

- CAS **-18.0%**
- Reliability **-15.5%**
- Information Theory **-11.5%**



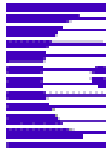
Evolution of ComSoc constituency is due to **proliferation of Communications and networking technologies** and applications in new areas and also due to **changes in Industry's R&D culture**.

Among positive factors for our industry are **deregulation of spectrum** and **ubiquitous broadband** government initiatives that lead to increase in funding of R&D in industry and academia. (5 GHz release, TV-band NPRM, BoPL FTTH unbundling relief, etc.)

*Emerging Wireless and Wireline communications technologies
Bring new players into the supplier and service communities:*

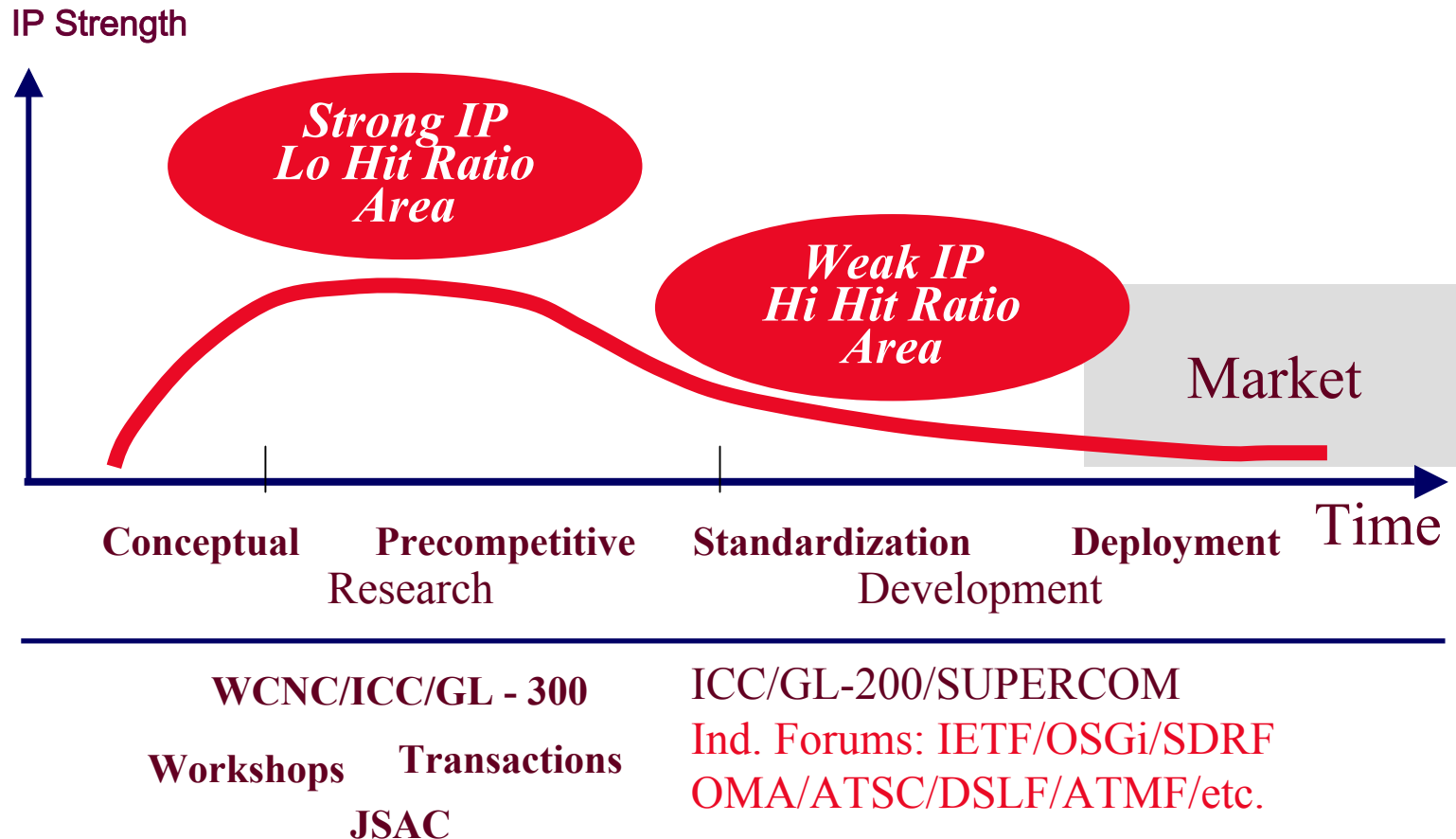
Examples of technologies that expend the industry boudaries:

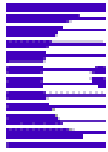
- Mesh Networks,**
- Sensor networks**
- UWB**
- TV Band Networking**
- BoPL**
- High Mobility Air I/F**



IEEE COMMUNICATIONS SOCIETY

Comsoc and Intellectual Property Time-Line

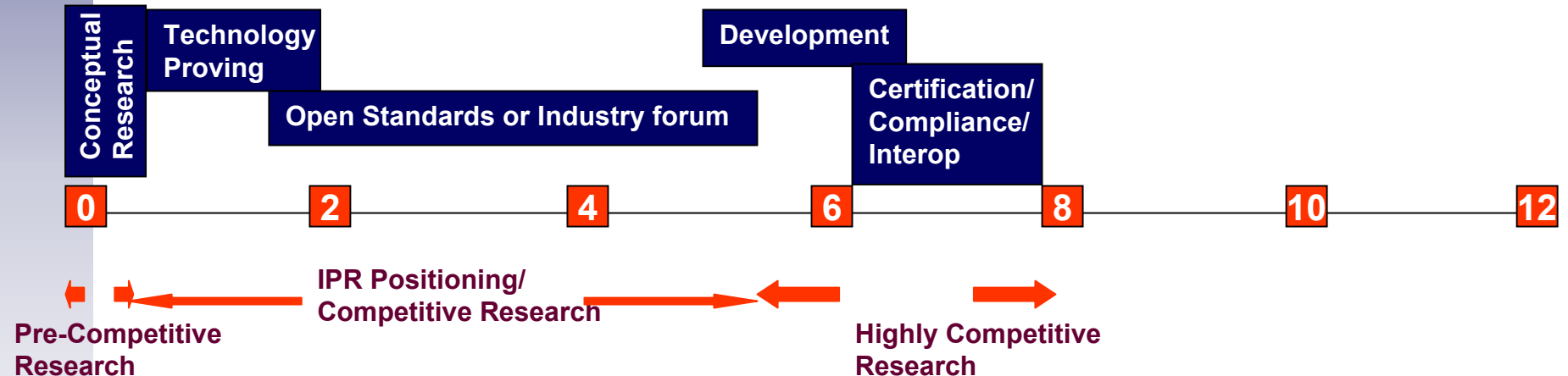




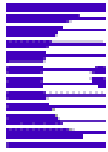
1984 R&D Cycle Scenario



2004 R&D Cycle Scenario



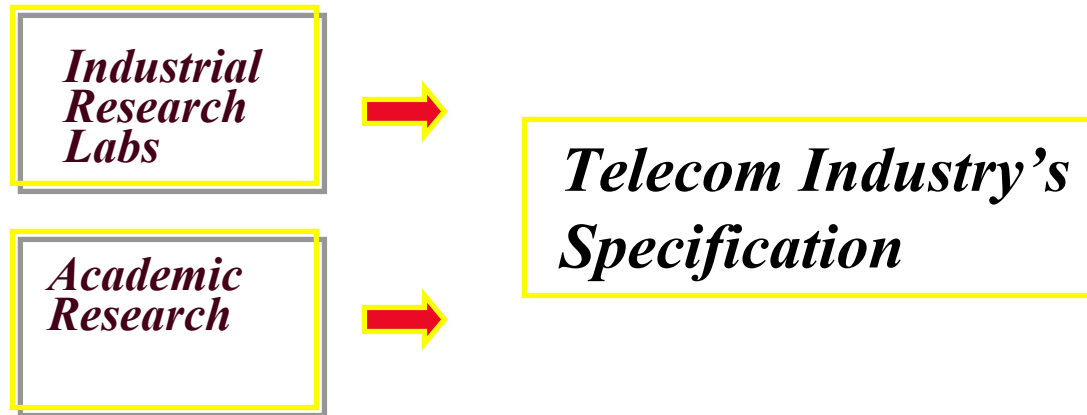
ComSoc's service to the industry is to facilitate creation of the Intellectual property in relevant areas



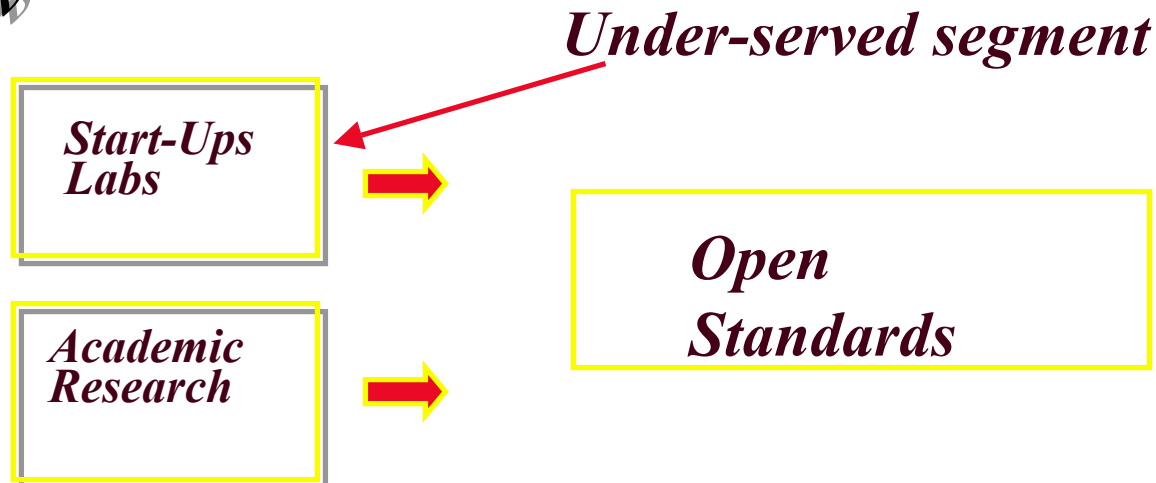
Intellectual Property Value Chain Evolution

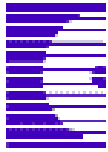
Root of the IPR

Before



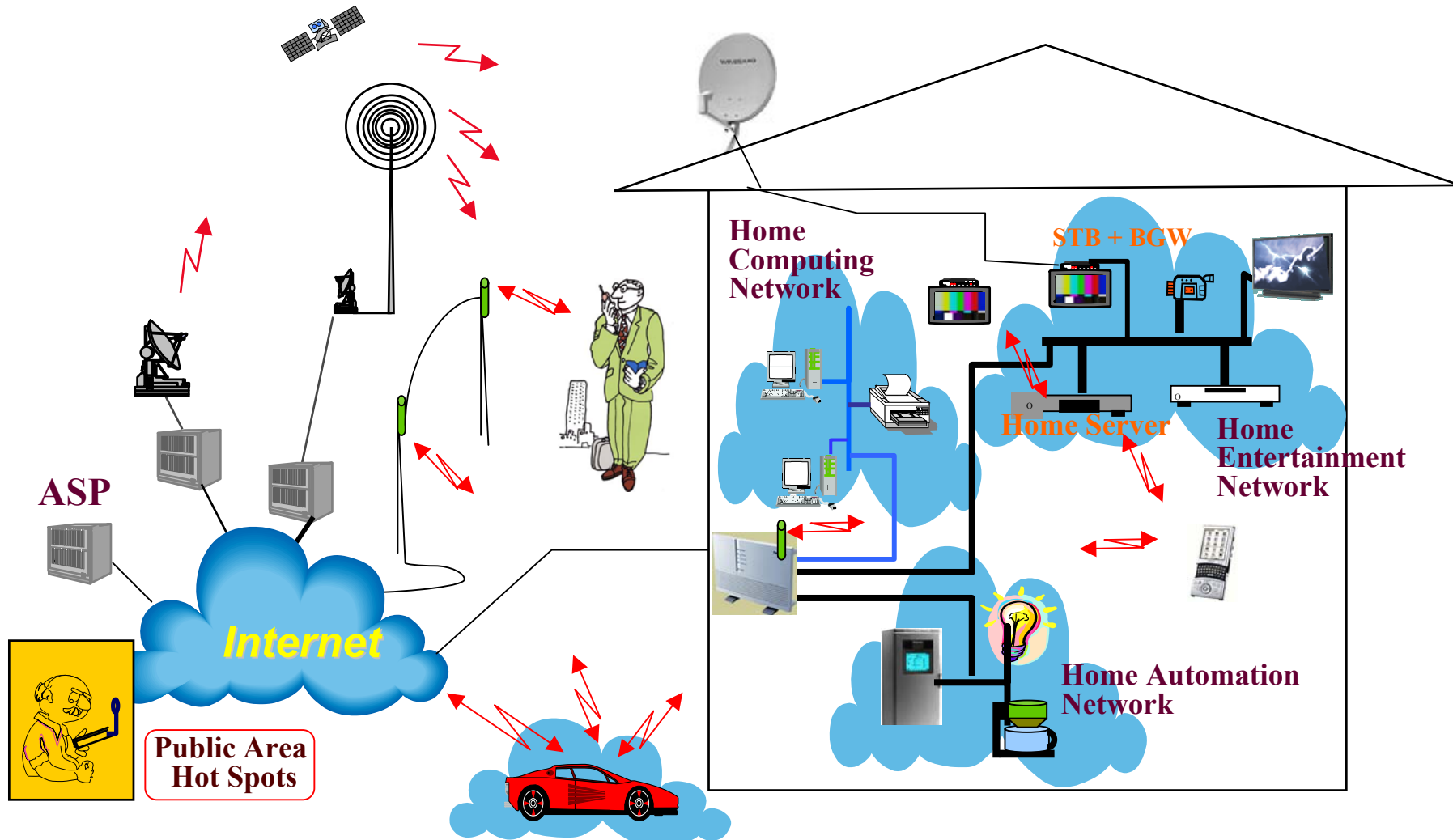
Now

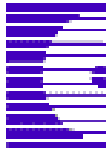




Consumer Communications and Networking

The Communications Scenario



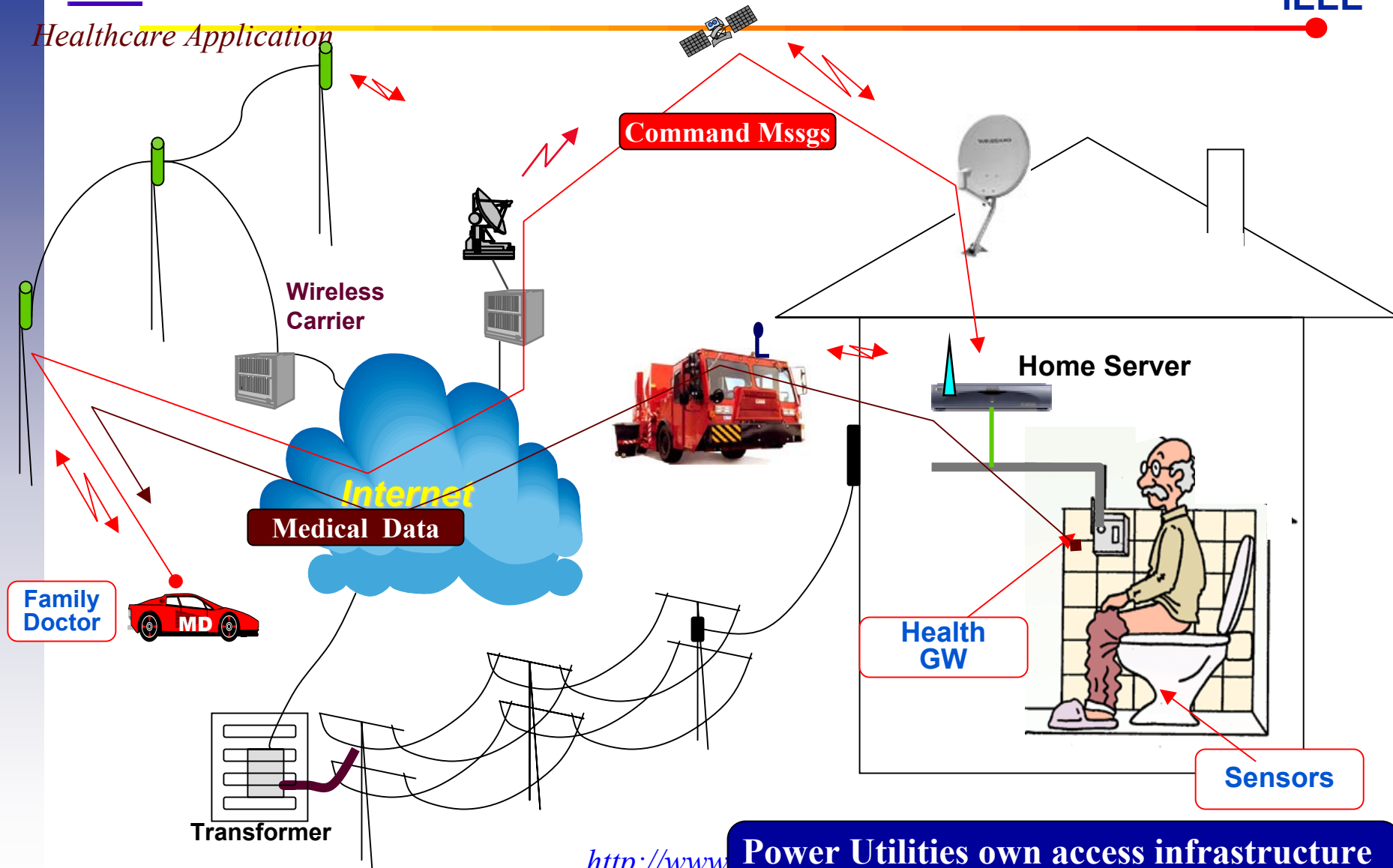


Ubiquitous Broadband



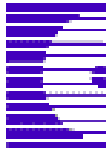
IEEE

Healthcare Application



<http://www>

Power Utilities own access infrastructure to the mass consumer market.



Power Line Based Residential Networking

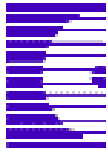
PLC-based Home Network: HomePlug



- *No new wiring*
- *Rate v1.0 14 Mb/s*
- *Multi-tone, adaptive modulation*
- *Logical domain separation*

<http://www.homeplug.org>

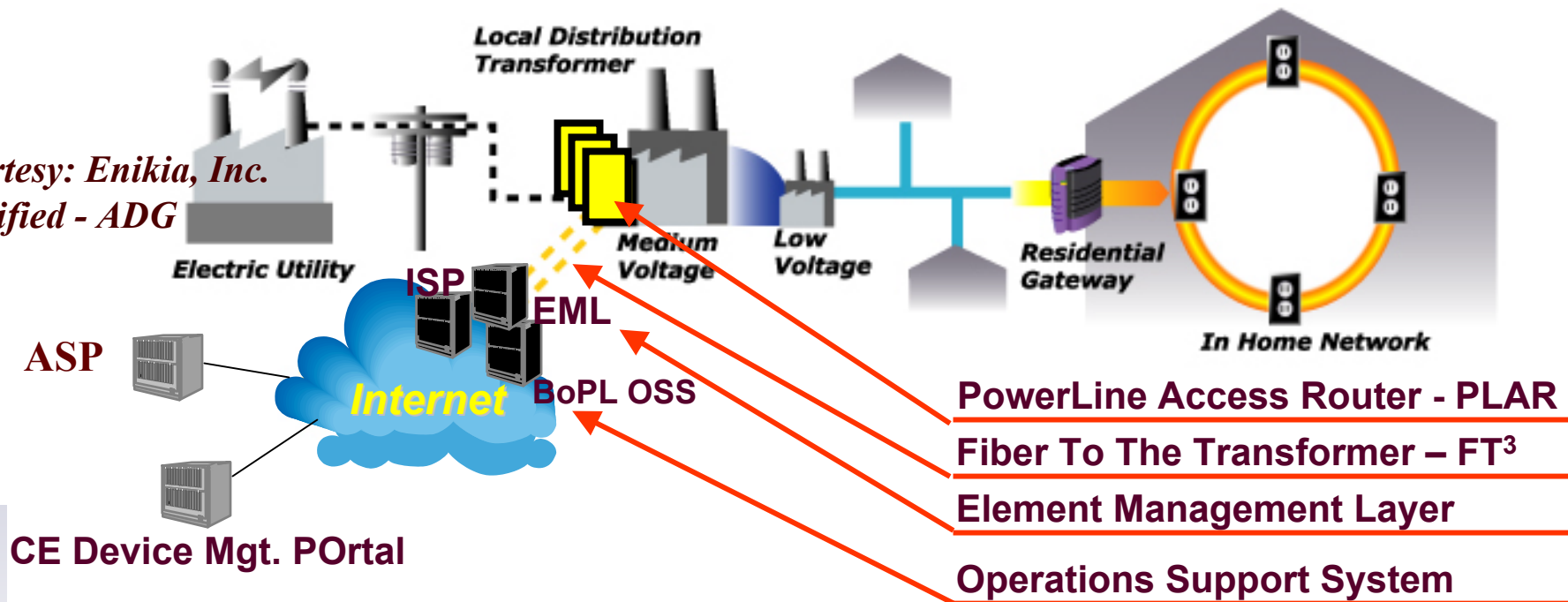
<http://www.comsoc.org>



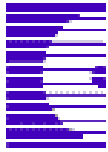
Powerline Broadband Access Scenario

New Mass-Market Communications Industry segment is being born

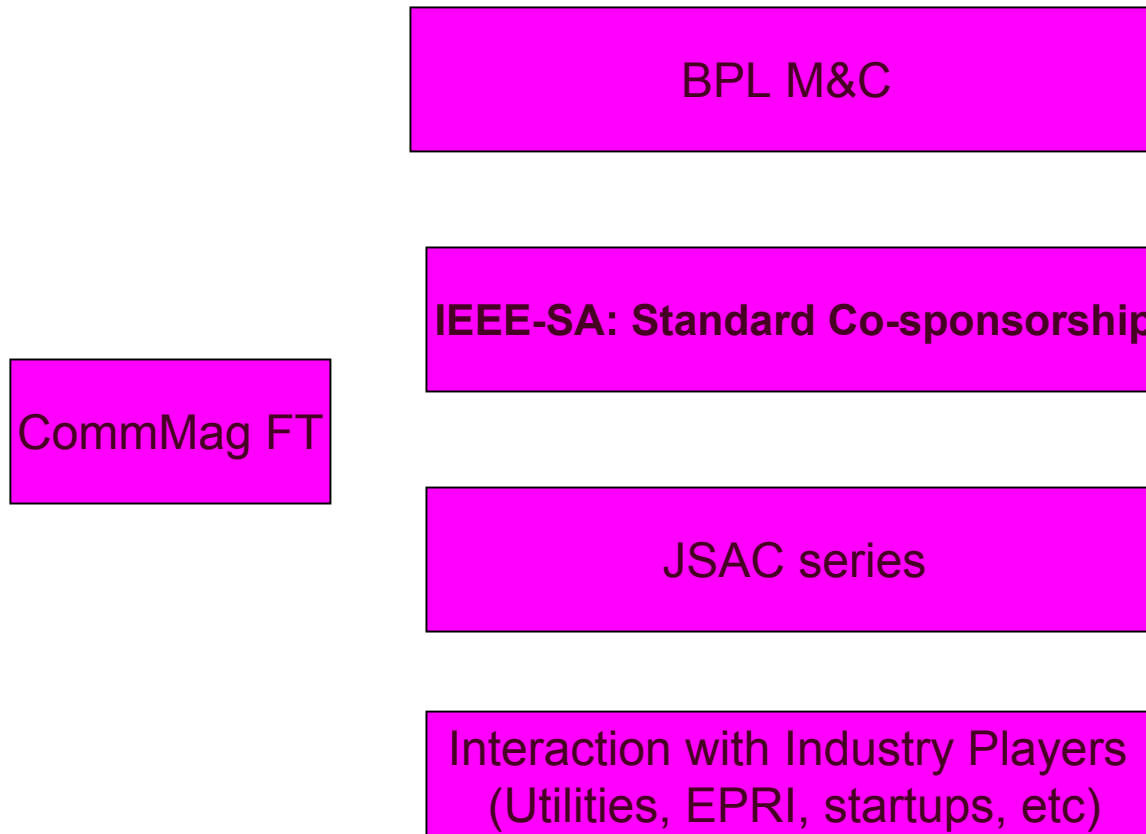
*Courtesy: Enikia, Inc.
Modified - ADG*

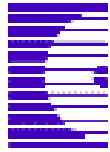


BoPL Technology is in the stage of “competitive research” and exploratory development



Facilitating Creation of a New BoPL Industry Segment





PLC

ComMag FT on Power Line Communications has been produced

JSAC Special Issue is in progress

PLC Subcommittee is being formed (Stefano Galli)

Consumer Communications and Networking

Inaugural conference CCNC'2004 took place in Las

Vegas on January 5-8 in Conjunction with Consumer

Electronics Show (CES), which draws 100,000 attendees

Next is CCNC'2005, General Chair - Nohisa Ohta. Please spread the word !!!!

<http://www.ccnc.org>

Standards

We are in discussion with IEEE-SA on BoPL standardization sponsorship

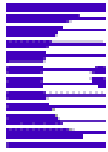
Sponsorship of standardization of next generation wireless, e.g. 802.20/22

Pre-standardization Industry Forums

ComSoc – WWRF cooperation wireless workshop, 10/2003, Technical

co-sponsorship of WWRF meeting in Toronto

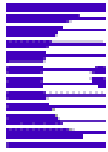
<http://www.comsoc.org>



Some Items to address



- *Global nature of ComSoc and Industry and Regional Segregation:*
 - *Approach: Practice only GCCC*
- *Globalization of Society and US-centric services*
 - *Approach: Outsource support, proliferate benefits*
- *MD Programs and dealing with next year's budgetary problems*
 - *GCCC'2005 has been cancelled due to budgetary problems*
- *New initiatives, e.g. certification (Pierre)*



IEEE COMMUNICATIONS SOCIETY

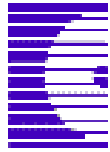
Membership Development



Global cooperation is the key but we need to understand each other.....



<http://www.comsoc.org>



IEEE COMMUNICATIONS SOCIETY

Membership Development Council



**Thank You, participants of
The AP RCCC'2004**

<http://www.comsoc.org>