

BDREN SUSTAINABILITY

A FRAMEWORK OF HOLISTIC APPROACH

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EVOLUTION OF REN: GLOBAL TREND

- **The networks available during 1970s and 80s are**
 - **ARPANET (Advanced Research Projects Agency Network)**
 - **BITNET (University cooperative)**
 - **CSNET (Computer Science Network)**
 - **Corporation for Research and Education Networking (CREN)**
 - **BITNET and CSNET were combined into the in 1989.**
 - **REN in Europe in 1986 (NORDUnet)**
- **Concepts of REN**
 - **Internet Engineering Task Force (IETF) published a Request for Comments (RFC) on July 1990: 1167**
 - **‘Thoughts on the National Research and Education Network’**
 - **Brief outline of National Research and Education Network (NREN) primarily focused on the developments in the USA.**

EVOLUTION OF REN: GLOBAL TREND

- **Management Mode**

- **Most of the REN are under government management across the globe and run by government fund**
- **Some run independently but government's financial support is there**
- **Runs as company-AARNET (not-for profit company), SURFnet(nl)-commercial Company**
- **Few are as Trust/Foundation**

EVOLUTION OF REN: GLOBAL TREND

- **Operational Scope**

- **Only for HEIs-AARNET, LEARN**

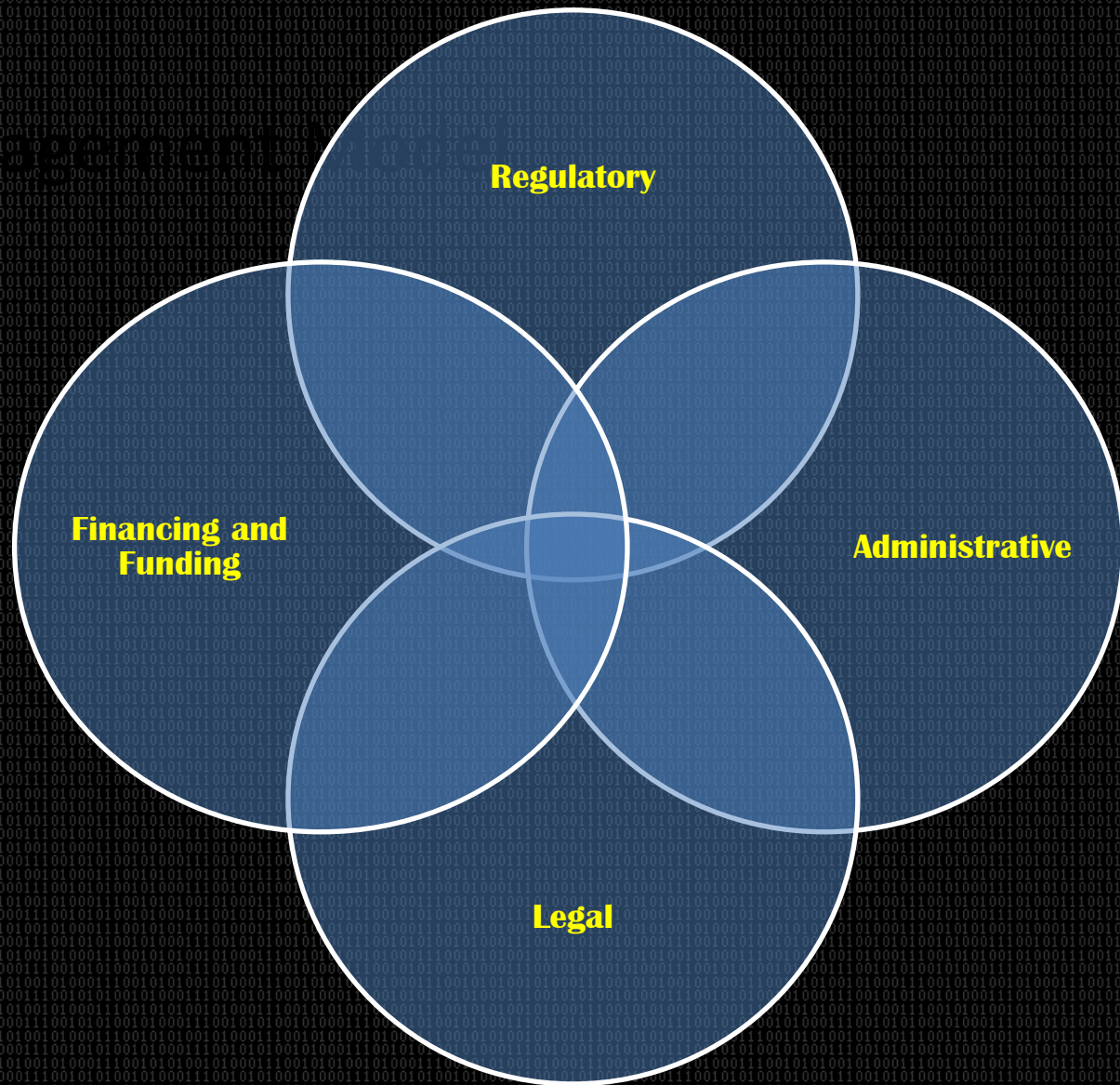
- **Education and Research up to School-NKN**

- **Education, Research and Government-OARnet, PREGINET**

PATTERN FROM HISTORY

- **NRENs were funded from a central source or the government.**
- **The network recovers the costs from the institutions it connects and provides services for. The funds may come, and they often do, again from the government.**
- **Two distinct funding models :**
 - **User/service dependent or a user funding model**
 - **User/service independent or central funding model**

HOLISTIC FRAMEWORK



STRATEGIES IN HOLISTIC FRAMEWORK



INCOME GENERATION STRATEGY

- **Income from Operational Activities**
 - **Sale of Basic Services**
 - **Introduce Income Generating service**
 - **Innovative Service, SaaS**
 - **Managed Network Service**
 - **Only for member institutions**
 - **All e-Services of the universities can be run through BdREN under BPO modeling**
- **Income from Non-operational Activities**
 - **Increase Membership Base (Membership Fees)**
 - **Training and Consultancy**
 - **Member Institutions**
 - **Open**
 - **Create Assets which can generate revenue**
 - **Efficient management of Endowment Fund**

COST REDUCTION STRATEGY

- **Network Operation Cost**
 - **Efficient Network Operation**
 - **Infrastructure Sharing**
 - **Peering and Caching (Facebook, Google, Akamai, YouTube, IXs)**
- **Administrative Cost**
 - **Smart Organization Structure (Smart Human Resource)**
 - **Efficient Financial Management**

COST REDUCTION STRATEGY (CONTD.)

- **“The employee of the Trust shall not be recruited and designated as Government employees in any manner whatsoever and the government service rules and regulations will not be applicable for them. The Trust shall determine its own organizational structure and formulate service rules and regulations and pay structures for its employees which will be approved by the Board”**

Quote from BdREN Trust Deed

COLLABORATION STRATEGY

- **Collaboration with other NREN**
- **Engagement with International Association**
- **Partnership with BanglaGov, InforSarkar and A2I**

Benefits:

- **Human Capacity Development**
- **Project-basis funding**
- **Knowledge sharing**

SYNERGIC STRATEGY

- **To increase the utilization and effectiveness of BdREN, identification of areas of synergy is very important**
- **Within the framework of the Higher Education sector we need to identify possible areas of cooperation among different institutions and projects.**

POLICY-SUPPORT STRATEGY

- **Regulatory/Legal Framework**
 - **BTRC License- License Fee, Renewal Fee and Revenue sharing**
- **PGCB - a strong strategic partner**
- **Corporate Tax Issue-Not-for profit operation**
- **REN needs policy support**

FUNDING STRATEGY

- **Operational Expenditure- BdREN Trust**
- **Development and Expansion**
 - **Government**
 - **International Contribution**
- **Sourcing for CSR Fund**
 - **Corporate**
 - **Social Obligation Fund (SoF, BTRC)**

FUNDING STRATEGY

- **Involving BdREN Trust in the next phase (HEQEP2) as the Single Source Consulting Organization for Designing and implementation monitoring of all ICT related activities and also in future projects under MoE**
- **Some ICT projects to be included in the next phase which may generate revenue for BdREN and may be executed under Joint Collaboration between BdREN Trust and Universities.**

SUMMARY RECOMMENDATIONS

- **Engagement of Members to be stressed for ownership feel**
- **Operational Cost - BdREN Trust and Development and Expansion fund-Government**
- **Policy for endowment fund management to be framed**
- **Explore all possible aspects from where financial benefits can be derived in direct or indirect ways-accumulation of many small benefits will help BdREN sustain. Policy support is also very helpful for BdREN**
- **Ensure HEIs usage bills to be collected from central source.**
- **Membership fee needs to be reviewed**
- **Increase international and local collaboration and partnership**
- **Involve BdREN as the Resource Organization in the projects undertaken by MoE**

