

Internet Society, It's Past and Present with reference to Future Potentiality: A study

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Abstract: In this work, the transformation of the Internet i.e. from its origin (military and academic) to its current status as a global network for digital media publishing and retrieval has been described. The Internet includes security, digital marketing, network computing, real-time programming (where data updates continuously) and the main part is the development of an integrated service platform for exchanging of real-time audio and video services all over the world. In the development of the internet, Internet Society played an important role. The 'Internet Society' is a non-governmental international organization for global co-operation and co-ordination for the web system and its internetworking technologies and applications. The Internet Society was established by Vint Cerf and Bob Kahn in 1992, both are known as 'Fathers of Internet'. The paper presented an overview and future potentialities in this regard.

Keywords: Internet Society, Internet Development, Internet Standards, ISOC, Digital Community, Internet Memberships, Modern Society, Internet Growth, Web Society, Internet helps Society, Internet in everyday life.

1. INTRODUCTION

The Internet Society is an American, non-benefit association established in 1992 to give initiative in Internet-related principles, instruction, get to, and arrangement. It expresses that its central goal is "to advance the open improvement, development, and utilization of the Internet for the advantage surprisingly all through the world"^[1]. The main mission of Internet Society is to assure open internet development by increasing and supporting uses of the internet to organizations and individual persons and it also provides leadership in internet-related standards, education, and policy. The ISOC has its headquarters in Reston, Virginia, United States (close Washington D.C.) and workplaces in Geneva, Switzerland. Now a day there are more than 140 associations have been related with the 'Internet Society' as a robotized number. Around the world, 'Internet Society' has more than 80000+ individual individuals. Universally 'Internet Society' has 110 parts. 'Internet Society' is firmly connected with numerous affiliations and associations, for example, IRTE, CNRI, ACM, IEEE, RIR. The Internet Society deals with the vast size of issues of the globe, but it's mainly dealt to maintain better internet available for all current users, for the next generation of users. It's commonly deals with the internet policies, technology, development, and governance (see Figure 1).

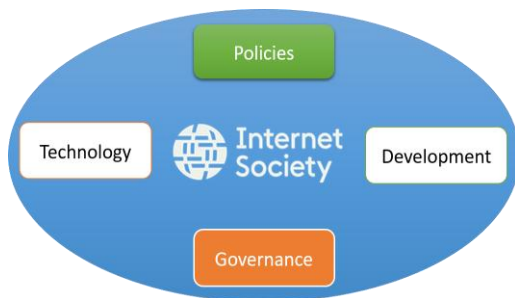


Fig 1: showing the stakeholder of Internet Society

2. OBJECTIVE

The primary point and target of this study are included, yet not constrained to:

- To know about the Internet Society, its types and the attributes. In particular, to investigate historical foundation of the Internet Society and its changing patterns.
- To evaluate the online framework, online administration and development of Internet in today's context.
- To discover fundamental point and goal of Internet Society, including its challenges and opportunities.

3. METHODS & MATERIAL

For this study, the survey of work observed as the secondary source and in this way, a few narrative and non-narrative sources have been used. For the study of the Internet Society, some journal also referred.

4. INTERNET SOCIETY: A BASIC OVERVIEW

4.1 History

For over 20 years, the Internet Society has assumed an essential part in notifying and creating the history of the Internet. The Internet Society's introductory columns are Outreach, Technology, and Policy.

The ISOC have discovered expression in activities that have associated the world, maintained the development of fundamental Internet technology. It also encouraged transparency and a bottom-up approach intending to worldwide Internet administration issues. Trusting that "the Internet is for Everyone," the Internet Society has worked since its establishment to make that objective a reality.

In below figures Figure 2 shown basis of the creation of the Internet. Figure 3 shows upgradations of the Internet. Figure 4 show born of ISOC and figure 5 and 6 shows the period of Internet Society.

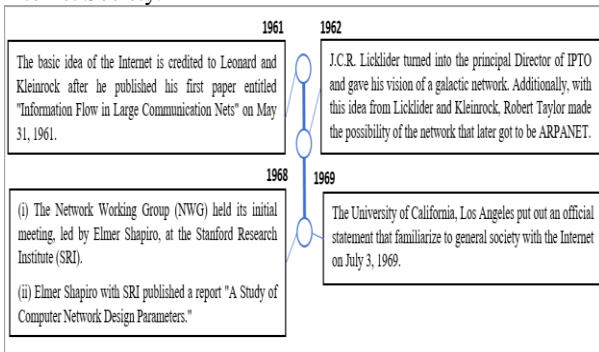


Fig 2: showing Idea (Basis of Creation)

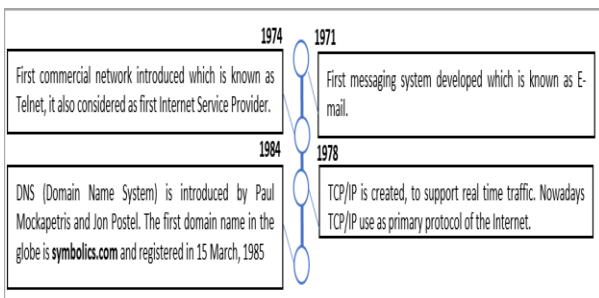


Fig 3: showing upgradations of the Internet.

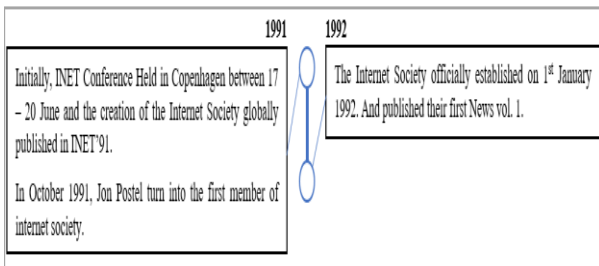


Fig 4: showing born of the Internet Society

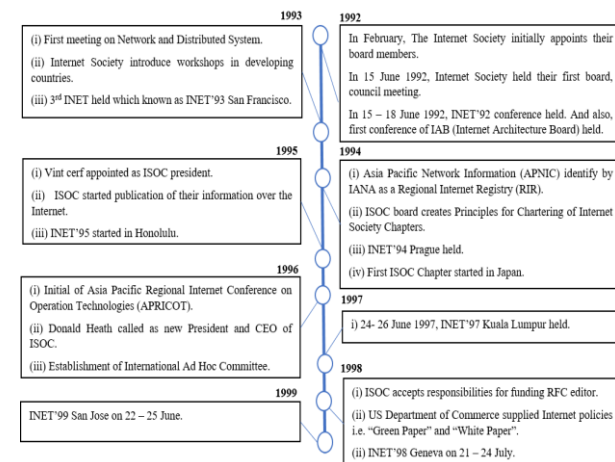


Fig 5: showing timeline of Internet Society

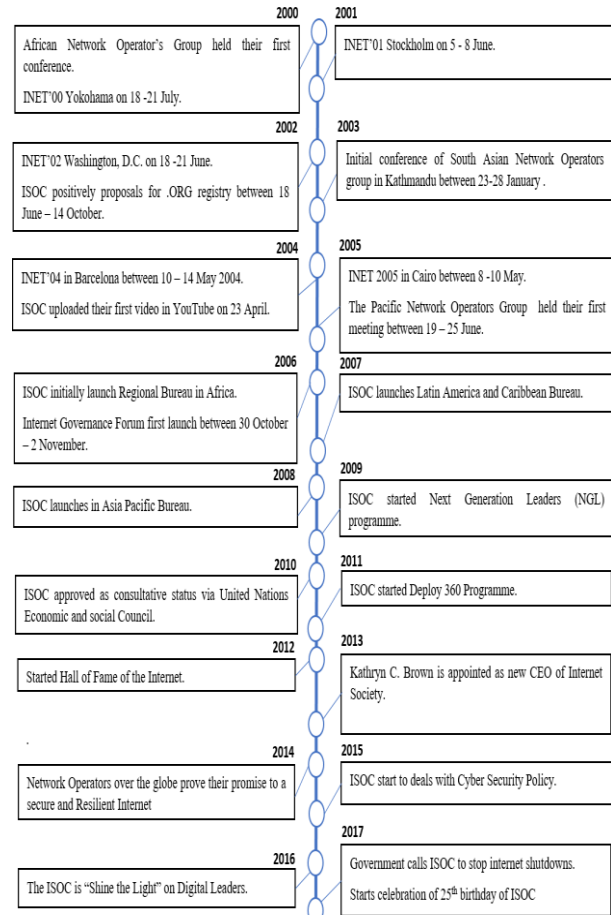


Fig 6: showing timeline of Internet Society

4.2 Function of ISOC

Its primary object is to keep up and increase the improvement and accessibility of the Internet and its related technologies and applications - both as an end in itself, and as a method for empowering associations, professions, and people over the globe to more effectively work together, participate, and advance in their individual fields and interests. Its particular objectives and purposes as follows:

- Advancement, support, development, and spread of benchmarks for the Internet and its internetworking innovations and applications.
- Development and advancement of the Internet engineering.
- Maintenance and development of viable authoritative procedures which are essential for the operation of the worldwide Internet and web systems.
- Instruction and research identified with the Internet and internetworking.
- Management of activities and exercises at worldwide levels to encourage the improvement and accessibility of the Internet.
- Gathering and scattering of data identified with the Internet and internetworking, including histories and chronicles.
- Helping technically developing nations, areas, and people in representing and developing their Internet framework and proper utilizations.

- Contact with different associations, governments, and the overall population for coordination, joint effort, and instruction in affecting the above purposes.

By above functions of ISOC helps to create a Healthy Information Society (see Figure 7).

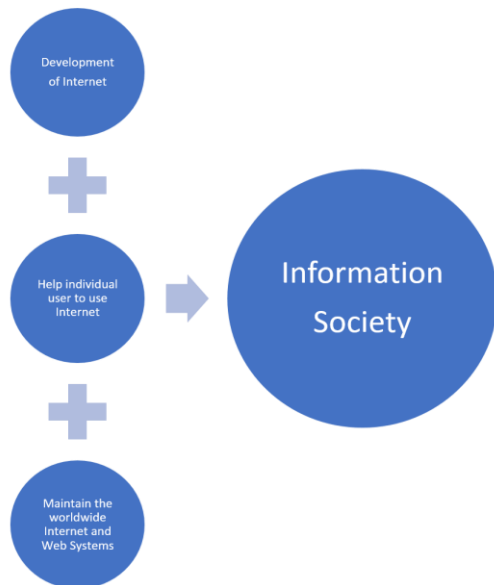


Fig 7: showing the function of ISOC helps to established Information Society

4.3 Role of ISOC

Development of the Internet for individuals. Shared knowledge and collective relationships are key drivers of successful Internet growth. The Internet Society goes to support development and access to innovation by carrying out data, preparing, and organizations to individuals and groups over the globe. It increases our efforts by focusing on building plans by concentrated on economical, specialized, and administration foundations. For the ordinary clients, the Internet is just there. They pay the obliged charges to the supplier and confirm that it works. The Internet is a critical piece of the foundation for the worldwide information society. The Internet is a financial and political variable whose further improvement and control will impact the life of everybody absolutely.

The main role of the Internet Society as follows:

4.3.1 Technology and organizational:

The standards for correspondence on the Internet are characterized in the Internet Engineering Task Force (IETF). More than 80 working gatherings in 8 fields of work are worried about particular specialized subjects. IETF does its work amid three major meetings of more than 1500 members for every year and by these methods for all the correspondence implies gave by the Internet.

In the interest of ISOC and the Federal Network Council (FNC) of the USA, the focal assets of the Internet, e.g. names, locations, and convention parameters have been managed by the Internet Assigned Numbers Authority (IANA) under the bearing of Ian Postel, who unfortunately passed on the previous summer. As of now, ISOC is seriously required in rebuilding the administration of these assets inside the new association ICANN (Internet Corporation for Assigned Names and Numbers).

4.3.2 Communication:

ISOC completes its central goal to spread and boost the possibility of the Internet on different meetings which are the INET-Conference that is held alternately on various. Directing endeavours are advanced by particular workshops on these gatherings. The workshop for creating and edge nations, for instance, contributed conclusively to the way that there is not really any nation on the planet not having entry to the Internet. Also, key subjects of INET are issues of political control and social effects of innovation aside specialized advancements, new applications, and territories of utilization.

The Internet Society distinctly gives its individuals' view on the cryptography exchange, on the issue of conceded substance and on the free and secure stream of data on the Internet.

4.3.3 Human Infrastructure:

Prepared, educated and connected with individuals who make, manage, and keep up systems at a neighborhood and territorial level. Individuals who associate with each other and frame "trusted human systems" that construct content and enhance the world. This is the thing that permits the Internet to develop and turn into a stage for monetary and group advancement.

4.3.4 Governance Infrastructure:

The structures and rules are decided that advance Internet utilizes, advancement and extension are basic to permit the Internet to satisfy Its' potential as a channel for human expression and improvement. This can be as basic as consulted and sorted out individuals who deal with an IXP (Internet Exchange Point), to sincere partner responsibility to working out the Internet and examining.

4.4. Internet Society and Digital Divide: potentiality

We are leaving in the 21st century where the digital divide is an economic and social inequality with regard to access to, use of or impact of information and communication technology.

Digital Divide is basic issues for developing nations. There will be more than 3 billion non-Internet clients around the globe on the web. The regular perspective of this advanced partition is that it isolates the Internet "haves" from "have-nots" separating the peoples, who are online from the those who might want to get on the web. However, they are not able to get into it since accessibility or moderateness of access.

4.4.1. The Role of Internet Society to remove Digital Divide:

- ISOC provides digital development of the Internet and proper maintains of the Internet.
- ISOC building Healthy Internet Systems.
- Provides Mobile Internet Access.
- Helps people to use the Internet easily.

5. FINDINGS

- ISOC Encourage worldwide, local, and nearby strategy conditions that empower the proceeding with development of an open Internet.
- ISOC helps in Increment of the worldwide importance and acknowledgment of joint, bottom-up, technical,
- ISOC provides agreement based on open guidelines advancement with a specific end goal to ensure permission less advancement for the accessibility of the open Internet for present and future clients and increment advancement and utilization of security and flexibility and best practices, shape the development of online character foundations, and enhance decision and assent in the treatment of client information.
- ISOC is providing approach to improvement of chances to all individuals by advancing the pertinence, organization, and selection of the open Internet.

6. SUGGESTION

- Government and ISOC members should take a proper step for held awareness camp.
- Proper planning, outline needs to take by the concerned ISOC members for the development of the Internet.
- Provides electronic services, an electronic product for accessibility to the Internet. And also provide high speed Internet which is also helps to remove Digital Divide in society.

7. CONCLUSION

Internet Society is very much important for the open development, evolution, and use of the Internet for the benefit of all people throughout the world. [2] ISOC gives dependable data about the Internet. it also provides a discussion of issues that influence Internet advancement, improvement and use in specialized, business, societal, and different fields. Moreover ISOC gives administration and coordination to on-technique activities and outreach efforts in helpful, instructive, societal, and different settings.

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9. REFERENCES

- [1] Internet Society, https://en.wikipedia.org/wiki/Internet_Society. (Retrieved on 02-04-2017)
- [2] Internet Society Mission, <http://www.internetsociety.org/who-we-are/mission> (Retrieved on 02-04-2017)
- [3] Fuchs, Christian (2008) Internet and Society. Social Theory in the Information Age. New York: Routledge. Routledge

- Research in Information Technology and Society Series Number 8. ISBN 0415961327. 408 Pages. Ding, W. and Marchionini, G. 1997 A Study on Video Browsing Strategies. Technical Report. University of Maryland at College Park.
- [4] P.K. Paul , K.S Shivraj and A. Bhumali : Internet User Base in Asian Countries: An Analytical Review. Indian Journal of Information Sources and Services ISSN: 2231-6094 Vol. 6 No. 2, 2016, pp. 37-40
 - [5] Barry M. Leiner, Vinton G. Cerf, David D. Clark, Robert E. Kahn, Leonard Kleinrock, Daniel C. Lynch, Jon Postel, Larry G. Roberts, Stephen Wolff : A Brief History of Internet. (<http://www.cs.ucsb.edu/~almeroth/classes/F04.176A/handouts/history.html>)
 - [6] Internet Society (ISOC), <http://www.businessdictionary.com/definition/internet-society-ISOC.html> (Retrieved on 02-04-2017)
 - [7] Internet Society (ISOC), <https://www.techopedia.com/definition/2432/internet-society-isoc> (Retrieved on 02-04-2017)
 - [8] History of the Internet Society: Technology, <https://www.internetsociety.org/history/Technology> (Retrieved on 02-04-2017)
 - [9] A Brief History of the Internet, (<http://www.walthowe.com/navnet/history.html>) (Retrieved on 02-04-2017)
 - [10] Daniel Dardailler, Internet & Web: Past, Present, Future , Associate Chair, Head of Offices World Wide Web Consortium, W3C
 - [11] Internet Society: Development (<http://www.internetsociety.org/development>) (Retrieved on 02-04-2017)
 - [12] Summary of activities undertaken by the Internet Society related to implementation of the targets, recommendations and commitments of the World Summit on the Information Society. (<http://www.internetsociety.org/summary-activities-undertaken-internet-society-related-implementation-targets-recommendations-and-1>)
 - [13] History of the Internet, (https://en.wikipedia.org/wiki/History_of_the_Internet), (Retrieved on 02-04-2017)
 - [14] Internet History: Timeline (<http://internethalloffame.org/internet-history/timeline>), (Retrieved on 02-04-2017)
 - [15] Digital Divide : <https://www.internetsociety.org/tags/digital-divide>, (Retrieved on 02-04-2017)
 - [16] Digital Divide : https://en.wikipedia.org/wiki/Digital_divide, (Retrieved on 02-04-2017)
 - [17] P.K. Paul, A. Bhumali and K.S Shivraj (2016), Internet Infrastructure and Governing Bodies: An International Perspectives, Indian Journal of Information Sources and Services 6 (2), pp. 9-12
 - [18] P.K. Paul , K.S. Shivraj , A. Bhumali , K.L. Dangwal and A. Atarthy (2016) Internet and its Increasing Users Base with a Tiny Focus of India: A Brief Study, Asian Review of Social Sciences 5 (2), pp. 29-31.
 - [19] Klaus Birkenbihl (1999), The Role of the Internet Society, ERCIM News, 37