The Bravura Protagonist of Open Source in Digital India - A New Perspective

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ABSTRACT

Information and Communication technology is currently a major concern of developing countries. Information Technology has provided India's economy with an unprecedented bang by creating jobs, and bringing in a surge of financial independence. India is one of the biggest users and contributors to open Source technology. In this current scenario open source is becoming more mainstream in the Indian economy. Open source is spreading widely, and the spectrum of open source is expanding and pointing towards growth in Indian economy. An assortment of welfares on the part of government, industry and academia are encouraging adoption of open source software in India. Demand for open source has followed the increase in demand for information technologies in all sectors. It is true that the revolution of digital transformation which has currently created undulates in the entire nation is one of the major drivers to the growth of Open Source.

Keywords : *Open Source, Digital Transformation, Developing Countries, Indian Economy.*

I. INTRODUCTION

India is a nation of diverse cultures and languages. India is perhaps the richest dialectal hub on the earth. India being a country with abundant supply of skilled manpower is well endowed to promote the development of open source software which has also become a huge market for software and various technology offerings. Open Source technology has come across a long way in terms of maturity and flexibility. A developing country like India, where industry is the base of the economy which benefits from the open source ecosystem. India is at initial stage of open source development to build similar ecosystem like what exists in the European countries. With India's focus on becoming a world-class software development country, will soon become one of the leaders in the open source ecosystem.

II. THE GROWTH OF HAND-TO-HAND TECHNOLOGIES

Open source is going developing enormously with evolving the innovative technologies. It makes India to reach the next level of growth. Open source technology is the great savior for enterprises, which helps them to achieve their goals at lower cost than proprietary solutions. This is a major reason for entrepreneurs in the country to elect open source now a day.

III. PROTAGONIST OF OPEN SOURCE IN DIGITAL INDIA

The biggest advantage of Open Source platform is that it drives innovation. It is a prime intention that many régimes across the globe have policies that support this platform. Open source is an extremely important aspect of Digital India. Open Source is

now being used in various government projects under digital India program. When it comes to success of a new initiative, it depends on easy implementation and assembling of a platform which will encourage the growth of the business. Adopting and endorsing Open Source is a great decision to build such an ecosystem. Hence, a mass adoption of the open source technology can impact the economy of a developing country such as India.

Since India is a young country and has a large base of technically skilled professionals, open source creates a great opportunity and enhances their full potential for translating ideas and technologies into reality. Open source empowers to jump into coding and evolving solutions faster. Indian companies are majorly boosting developers to contribute to the open source community so that more and more users start using the open source applications help in improving software development. Open source is helping young Indians to translate their innovative ideas and technologies into reality. One of the major factors behind the success of open source in India is its ease of deployment.

IV. OPEN SOURCE AS RESEARCH ALLUSION

Open source has evolved from the era of free software movement that began in the late 90s and early 2000s. Experts believe that young developers often get attracted towards open source due to its democratic nature. This creates a new business reality in which India can play a great role. There is a huge rivalry among the youth, because of an employment is a major motive for low participation in non-paid open source development in India. IT research analysts forecast that open source will leapfrog into areas such as transportation, smart cities and agriculture in the near future. Open source is the advancing zone in a larger manner and the core areas like transportation, smart cities, agriculture and renewable energy at a later stage.

The present education system in India needs to be upgraded to encourage innovation and contribution habits among the youth. This will ultimately bolster the growth of open source in the country. An Indian Information Technology decision makers are turning into open source to initiate the digital innovations to support the business with new capabilities. Application of Open source technology has come a long way, from once being used only for cost benefits to now being very critical to businesses. In fact, government and other large private companies are running business critical applications and functions on open source.

V. CONCLUSION

Over the past decade open source software has become popular with technology users in India. India is a land of developers, not only there's huge number of open source users but also a strong base of contributors to open source from India. The benefits of open source - affordability, availability of source code and freedom of choice - have made open source a preferred platform for many innovative Indian organizations and individuals who want to harness the power of high quality software which can be freely adapted to their own requirements. Apart from cost efficiency, Open Source solutions boast full range of features, capabilities and functionality to support a variety of needs. The key aspects are; agility, freedom to customize, rapid deployment, scalability, support and security. India's economic growth is among the fastest compared to other economies.

Worldwide, many governments are getting associated with open source which is boosting innovation in the segment. The most important challenge that organizations face in the adoption of the open source technology is the lack of skill availability. Other challenges include lack of dedicated vendor support, software quality and information security. It is important to provide a proper platform of training for the developers to further contribute to the technology. Not only this

challenges like vendor support, software quality and information security need to be addressed. All these factors have not only extended opportunities for the open source vendors in government segment but also in other business verticals who were skeptical in adopting the technology. With the growth of open source in the Indian market, better training and more participation will result in setting a mark in the global open source market. It is quite evident that with digitalization and different government initiatives open source adoption has been encouraged in the country. The policies of Government of India in this regard have further strengthened the position of the platform. The future of open source in the country is bright, backed by the Indian government's Digital India initiative and the announcement of its Open Source Policy. The government is moving towards the right way, and the scheme named Digital India initiative and the Open Source Policy will strengthen the open source acceptance in the upcoming centuries.

II. REFERENCES

[1]. S. Sampson, "Evolution Changes Everything", in J Brockman (ed.), This Will Change Everything: Ideas That Will Shape the Future, 1st edition, 2010 Harper Perennial, New York

[2]. J P M Wolf, "Building Imaginary Worlds: The Theory and History of Sub creation" in 2012, Routledge, New York

[3]. H. Jenkins, "Convergence Culture: Where Old and New Media Collide", 2006 NYU Press, New York.

[4]. C. Dena, "Transmedia Practice: Theorizing the Practice of Expressing a Fictional World across Distinct Media and Environments" in 2009, doctoral thesis, University of Sydney, Sydney

[5]. S.Klein, P.Tomlinson, P. Genesse, McCoy, C "Eighth Day Genesis: A World building Codex for Writers and Creatives", 2012 Alliteration Ink, Ohio.

[6]. Gerard Goggin, "Digital Inequalities & Inclusion Strategies", University of Sydney, Sydney

[7]. Jonathon Hutchinson, "Social Justice Opportunities for Digital Influencers and Algorithms: Economic, Social and Legal Consequences" July, 2014, University of Sydney.

[8]. T. Makimoto, and D. Manners, "Digital Nomad" (1997). John Wiley and Sons: New York.

[9]. A. McGrew, "A Global Society?" in Hall, S., Held, D. and McGrew, A. (eds) Modernity and its Futures. Polity: Cambridge.

[10]. P. McMichael, "World-System Analysis, Globalization and Incorporated Comparison" (2000), Journal of World-System Research, 6 (3): 668-91.

[11]. J. Rosenau, "Governance in the Twenty-First Century" (1995), Global Governance, 1 (1): 13-43.

[12]. J. Smith, "The World Social Forum and the Challenges of Global Democracy", (2004) Global Networks, 4 (4): 413-21.