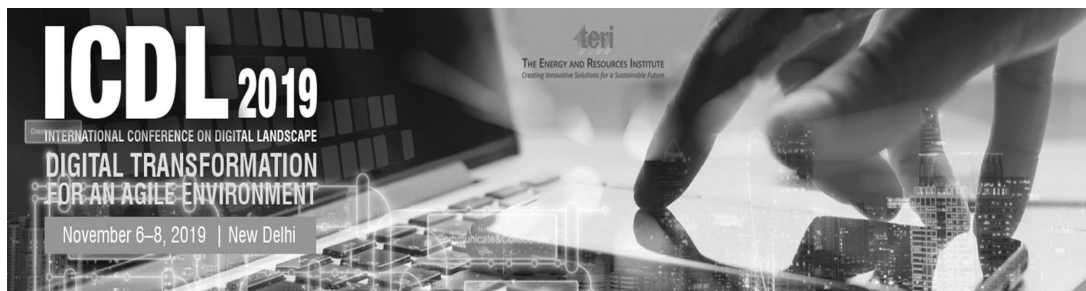


International Conference on Digital Landscape 2019



Digital transformation is about revolutionizing the ways organizations and institutions are continuously changing their internal operations and activities, addressing the needs of various stakeholders, and embracing new trends and technologies. An agile approach is to roll out new initiatives across the organization, which will ensure that all team members quickly adapt and deliver key product and service innovations and survive in a rapidly developing digital world.

Digital transformation has four major objectives:

1. To increase the opportunities of sharing innovative practices and concepts across the profession—nationally and internationally—amongst all libraries.

2. To increase recognition of and support for experimentation with innovative and transformational ideas.
3. To help knowledge organizations and institutions to make use of new and emerging technologies by promoting and supporting technological experimentation and innovation.
4. To increase leadership development and training opportunities designed to support the ongoing transformation of libraries.

Introduction

The International Conference on Digital Landscape (ICDL) is the flagship event,



organized in every three years' interval by The Energy and Resources Institute (TERI) and has become one of the premier international platforms to facilitate the exchange of knowledge on all aspects of digital libraries (DLs). The proceedings at ICDL of 2004, 2006, 2010, 2013, and 2016 were by well acknowledged by professionals and digital library communities, across the globe. Over the last 15 years, the ICDL has been at the centrestage in promoting DL research and effectively bridging the digital divide, amongst DL enthusiasts, on a world scale.

The ICDL 2019 was the sixth in this series with a theme *Digital Transformation for an Agile Environment*, which has not only created a road map to guide us through what will come next, but has also greatly helped to prepare ourselves for new challenges and opportunities. The event addressed emerging trends and issues that accelerated digital transformation in institutions across countries.

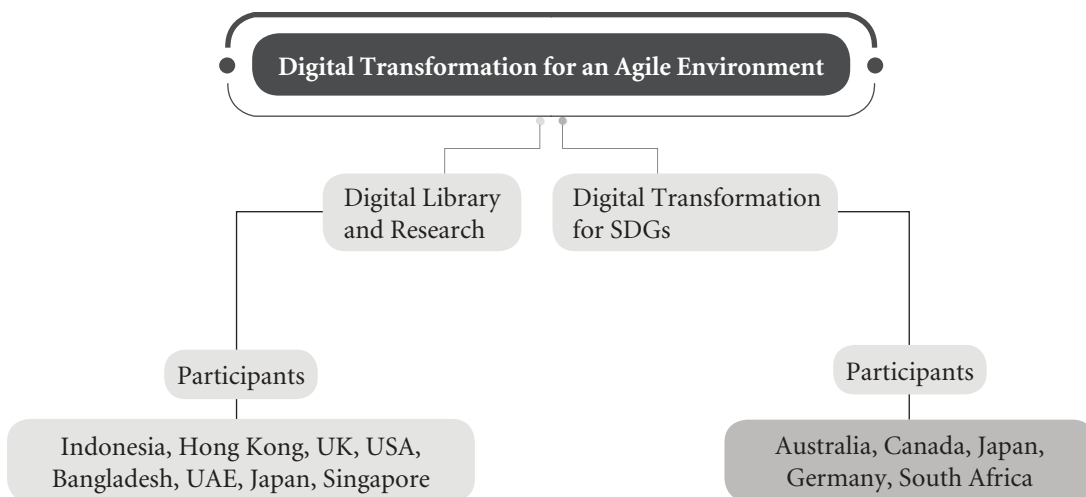
The ICDL 2019 identified Industry 4.0 as one of the key areas where digital transformation is undergoing a paradigm shift and has penetrated in the market and society in a very short period of time. In order to achieve Sustainable Development Goals (SDGs), digital inclusiveness and disruptions, application of analytics,

artificial intelligence and Internet of Things (IoT) applications using sensors are taking place in manufacturing and service-oriented industries at many levels.

Two major areas covered in ICDL 2019 under the theme of *Digital Transformation for an Agile Environment* were Digital Library and Research and Digital Transformation for SDGs. Digital transformation is a continuously changing process that represents a fundamental change in how organizations should operate in a digital world. In addition, it has modernized organizations or communities with digital technology at their core—one that uses the power of today's technologies to create new forms of organizations/communities value chain for the future.

The event was a success at bringing together leaders, spearheading digital disruptions in their organizations to offer insights, knowledge, and case studies on contemporary issues and challenges of digital transformation. ICDL 2019 focused on the following specialized workshops and thematic events:

- Digital Transformation for an Agile Environment:
1. Digital Transformation for Smart Growth and Industry Management
 2. Digital Transformation in Libraries



3. AI in Digital Library: Enabling Education 4.0
4. Data Protection and Internet Security
5. Digital Rights Management
6. Enhancing Research Intelligence by Using AI
7. Role of Big Data in Current Bioinformatics Research
8. Innovation in Digital Publishing and Marketing
9. Education 4.0 – Future Ready Workforce
10. Smart Water Management
11. Regulatory Regime in Smart Agriculture

Indigenous Knowledge Systems:

1. Issues and Challenges
2. Evidence-based study of Indigenous Knowledge
3. Indigenous Knowledge, Biodiversity, and Rights
4. Live Demonstration of Indigenous Knowledge Application and Practice
5. Indigenous People, Culture, Traditions
6. Traditional Knowledge Preservation: Policy Implications

ICDL 2019 conference comprised of educative mix of events. Some of these are listed here:

- Plenary sessions and thematic tracks, highlighting recent digital library research across the globe by the luminaries
- Workshops addressing contemporary issues to a focused group of stakeholders

- Thematic events in select niche areas for business houses and academic exhibition by national and international knowledge vendors and publishers
- Stakeholders engagement in digital platform using online collaborating tools

The ICDL 2019 received a widespread participation, where 653 participants attended the event. More than 643 people across the globe were involved through webcasting. Apart from India, 12 nations were part of this international platform on information exchange:

- 1) Indonesia, 2) Hong Kong, 3) UK, 4) Australia, 5) USA, 6) Bangladesh, 7) Canada, 8) UAE, 9) Japan, 10) Germany, 11) South Africa, and 12) Singapore

The major recommendations of ICDL 2019 are as under:

- Access to Digital Content
- Digital Literacy Programme
- Collaboration for Content Creation
- People Centric Knowledge and Information
- Information and Knowledge Centres on Different Sectors
- Open Source Technology
- Capacity Building Programme
- Research Data
- Social Media-oriented Digital Literacy
- Data Security and Privacy

The comprehensive facts and figures of the ICDL 2019 are as follows:

Number of participating countries	12
Sessions (46 +8) = 54 sessions	27 conference break-away sessions, 5 plenaries, 19 Thematic sessions, 3 workshops
Number of participants	653 (including 60 international speakers and delegates)
Total number of speakers	168

- Artificial Intelligence
- Digital Library Institute

Conclusion

ICDL 2019 has facilitated the bridging of knowledge gaps between developing and developed countries; initiated capacity-building activities in various issues connected to digital libraries; provided a forum for facilitating useful interaction amongst information science, data science, knowledge management and technology professionals; and most important of all, facilitated the formulation of recommendations on digitization technologies, Acts, and policies in India. It has also helped in getting together about 600 professionals across the globe from the fields of knowledge management, digital library, data analytics, social media, publishing industry and information providers on a single platform and encouraged the sharing of experiences, concerns, and ideas.

ICDL 2019 series has generated widespread participation and great enthusiasm amongst the library and information science and technology professionals around the world. It has created great awareness on the importance of digitization in the DL community, both in India and abroad. In addition to these stakeholders, ICDL 2019 has attracted extensive participation from associated emerging disciplines that focus on cutting edge topics including big data analytics, social media tools, IoT, among several others. The conference was a premier event for information professionals who wanted to develop essential skills, network with colleagues, explore noteworthy trends in knowledge and information management, and access leading information product and service providers. The conference hosted an exhibition of 33 distinguished publishers, government agencies,

software companies, and online service providers from India and abroad who presented the latest technological developments, online services and initiatives throughout the world. As the conference was live streamed across the globe for widespread participation, the various sessions boosted the enthusiasm among the government as well as information science and technology professionals on the importance of the focusing on knowledge trends that can lead to a smart future. It brought out the present status and the latest developments and techniques all over the world to comprehend the present knowledge trends.

The ICDL 2019 has deliberated upon important issues related to Digital Transformation with special reference to SDGs. The Recommendation Committee had detailed discussions on diverse topics—library advocacy, information access to all, digital transformation for development, cyber security, open access and open data mining and discovery, digital literacy, research data, digital learning, social media and analytics, artificial intelligence, knowledge and innovation management (including traditional knowledge), LIS education, digital library services and public libraries, and many more. During the conference it was also felt that since digital penetration is taking place in every sphere of SDGs therefore, it is high time for the governments and the NGOs working in different sectors should recognize the need for domain specific as well as region or country specific open access data repositories or sector-based information centres that are relevant to achieve SDGs—health, education, climate control, agriculture, small-scale enterprise, water, sanitation, energy and livelihood opportunities. These centres are also to be structured taking into account digital technology drivers like AI, IoT. This will lead to digital inclusiveness.