

COOPERATIVE DIGEST



THE INSTITUTE OF COST ACCOUNTANTS OF INDIA

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Vision Statement

"The Institute of Cost Accountants of India would be the preferred source of resources and professionals for the financial leadership of enterprises globally."

Mission Statement

"The CMA Professionals would ethically drive enterprises globally by creating value to stakeholders in the socioeconomic context through competencies drawn from the integration of strategy, management and accounting."

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असतोमा सद्गमय तमसोमा ज्योतिर् गमय मृत्योर्मामृतं गमय ॐ शान्ति शान्ति शान्तिः From ignorance, lead me to truth From darkness, lead me to light From death, lead me to immortality Peace, Peace, Peace

Behind every successful business decision, there is always a CMA



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From the President's Desk

Dear Esteemed Readers.

t gives me immense pleasure that The Cooperative Development Board of the Institute is coming out with its 3rd Volume of the quarterly journal of "CMA's Cooperative Digest". The cooperative movement embodies the spirit of collaboration, empowerment, and shared success and this journal serves as a platform for sharing knowledge, and fostering collaboration within our cooperative community

Under the leadership of Hon'ble Prime Minister Shri Narendra Modi Ji and guidance of Hon'ble Union Minister of Cooperation Shri Amit Shah Ji, Ministry of Cooperation has taken 10 important initiatives in the 100 days of third term of the Hon'ble Prime Minister Shri Narendra Modi Ji's led government and there are more to such exhilarating initiatives.

As we navigate the complexities of today's world, the principles of cooperation remain more relevant than ever. Together, we can face challenges headon, explore new opportunities, and continue to strengthen the bonds that unite us.

I extend my heartfelt appreciation to the Cooperative Development Board and CMA Navneet Kumar Jain, Chairman of Cooperative Development Board for his unwavering dedication in guiding the Board to new achievements.

Hope you all find joy in your reading.

With warm regards,

CMA Bibhuti Bhusan Nayak

President

The Institute of Cost Accountants of India



CMA Bibhuti Bhusan Nayak
President
The Institute of Cost Accountants of India



From the Chairman's Desk



CMA Navneet Kumar Jain
Chairman
Cooperative Development Board

Cooperative Development Board
The Institute of Cost Accountants of India



"Alone we can do so little; together we can do so much." — Helen Keller

Dear Professional Colleagues,

s we turn the pages of this publication, I am filled with gratitude for the vibrant community we have built together. Our cooperative spirit continues to thrive, driven by the shared values of mutual support, transparency, and collective growth. So here is the third issue of our quarterly journal to share with you different perspectives on different facets of the Cooperative Sector.

It might be of interest for you know to know that recently the Union Home Minister and Minister of Cooperation Shri Amit Shah Ji launched White Revolution 2.0 and 'Margdarshika' for the formation and strengthening of 2 lakh new MPACS, Dairy and Fishery Cooperatives, and launched the Standard Operating Procedures on 'Cooperation among Cooperatives'.

It is so heartening to know that such magnanimous initiatives are being taken by the Government of India to make the 'Cooperative Economy' a booming economy.

I express my heartfelt gratitude to each author for their valuable contribution that enriches our journal and adds significant insights to our field.

Wishing all our readers an enjoyable reading experience.

Warm regards,

Daniel Kur Tai

CMA Navneet Kumar Jain

Chairman

Cooperative Development Board



About the Institute

THE INSTITUTE OF COST ACCOUNTANTS OF INDIA

(ICMAI)

- THE INSTITUTE OF COST ACCOUNTANTS OF INDIA (erstwhile The Institute of Cost and Works Accountants of India) was established in 1944 as a registered company under the Companies Act with the objects of promoting, regulating and developing the profession of Cost Accountancy.
- The Institute of Cost Accountants of India is a premier professional body of Management Accountants in the country established on 28th May, 1959 under the Cost and Works Accountants Act, 1959 enacted by the Parliament in 1959 as ICWAI to regulate the profession of Cost and Management Accountancy in India.
- The Institute has been recognized by the Parliament as The Institute of Cost Accountants of India, w.e.f. 1st Feb, 2012.
- The Institute is governed by a Council in accordance with the provisions of the Cost and Works Accountants Act, 1959 as may be amended from time to time and Rules and Regulations framed thereunder.
- The Institute as a part of its obligation to regulate the profession of Cost and Management Accountancy, enrolls students for Cost Accountancy course, provides coaching facilities to the students, organizes professional development programmes for the members and undertakes research programme in the field of Cost and Management Accountancy.
- The Institute is having 117 Chapters, 11 Overseas Centres and 4 Regional Councils under the administrative control of Ministry of Corporate Affairs, Government of India.
- Over the years the Cost and Management Accountancy profession has registered a tremendous growth and has occupied a prominent role in our economy and society. The Institute has more than 5,00,000 students and more than 1,00,000 qualified members.
- The Institute is a founder member of International Federation of Accountants (IFAC), Confederation of Asian and Pacific Accountants (CAPA) and South Asian Federation of Accountants (SAFA). The Institute is also an Associate Member of ASEAN Federation of Accountants (AFA) and member in the Council of International Integrated Reporting Council (IIRC), UK.
- The Institute is the largest CMA body in the Globe.

Objectives of the Institute

- To develop the Cost and Management Accountancy function as a powerful tool of management control in all spheres of economic activities.
- To promote and develop the adoption of scientific methods in Cost and Management Accountancy.
- To develop the professional body of members and equip them fully to discharge their functions and fulfil





the objectives of the Institute in the context of providing financial leadership of enterprises globally.

- To keep abreast of development in Cost and Management Accounting principles and practices, to incorporate such changes as essential for creating value for the industry and other economic activities.
- To exercise supervision over the entrants to the profession and to ensure strict adherence to the best ethical standards by the professionals.
- To organize seminars and conferences on the subjects of professional interest in different parts of the country for cross fertilization of ideas for professional growth.
- To carry our research activities covering various economic spheres and the publishing of books and booklets for disseminating information of professional interest to members in industrial, commercial and educational units in India and abroad.

CMA PROFESSION

Professional Avenues

- In today's interconnected global landscape, organizations rely on professionals like Cost and Management Accountants (CMAs) who possess specialized expertise in business strategy and value creation. Serving as the bedrock of enterprises, the comprehensive education and training provided by the Institute equip Cost and Management Accountants with multifaceted skills. CMAs play a pivotal role across diverse economic activities, serving as value creators, enablers, preservers and reporters.
- The demand for CMAs spans various sectors including government, private enterprises, banking and finance, developmental agencies, education, training, research, as well as service and public utility sectors. Leveraging their specialized knowledge and training, CMAs often assume top management positions in both public and private enterprises, such as Chairman cum Managing Directors, Managing Directors, Finance Directors, Chief Financial Officers, Cost Controllers, Marketing Managers, Chief Internal Auditors and other significant roles.
- Entrepreneurial CMAs managing their own businesses effectively assume the roles of managers and
 accountants, enabling them to control and grow their ventures. The career trajectory for a CMA offers
 ample opportunities for advancement, with sustained demand for qualified and experienced professionals
 in India and abroad across various industries and government departments. Many Institute members
 also engage in providing professional cost consultancy services and teaching cost and management
 accountancy in reputed universities and colleges.
- Cost accountancy surpasses financial accounting by promoting the study and implementation of scientific
 methods to maximize efficiency in industrial, commercial and other domains. Unlike financial accounting,
 which primarily relies on retrospective data analysis, cost accounting facilitates real-time monitoring
 and regulation of production operations and processes, enhancing management and strategic decisionmaking.
- Within organizations, CMA members of the Institute serve as integral members of management teams, fulfilling roles as Cost Auditors, Internal Auditors, Auditors for GST, Excise, SEBI, NSDL, and other regulatory bodies, as well as serving as advisors and consultants in practice.



Abstract

The digital revolution has a significant impact on many areas, but its potential to empower rural cooperatives remains untapped. Rural cooperatives are important foundations of social and economic growth in many communities, but they frequently encounter obstacles relating to connectivity, market access, and operational efficiency. Digital inclusion provides a solution by incorporating current technology into cooperative organisations, so encouraging inclusivity, financial independence, and sustainable development. This research investigates the various aspects of digital inclusion for rural cooperatives, including the benefits, problems, and future prospects.

Introduction

Rural cooperatives have long been the foundation of community-based economic activity, particularly in agriculture, small businesses, and services. Cooperatives allow smallholder farmers, craftspeople, and other local organisations to pool their resources, share risks, and gain access to markets that they would not have been able to enter on their own. However, in a quickly digitalising world, rural cooperatives are under growing pressure to keep up with technology improvements.

Digital inclusion, the act of ensuring that individuals and organisations have access to digital technology and the skills to use them effectively, presents tremendous prospects for rural cooperatives. It has the potential to close geographical gaps, boost productivity, and open up new opportunities for financial inclusion. However, use of digital tools in rural cooperatives

Empowering Rural Cooperatives through **Digital Inclusion**



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has been inconsistent, with considerable entrance barriers such as a lack of infrastructure, digital literacy, and financial resources. This article seeks to investigate how digital inclusion might empower rural cooperatives, analysing its potential to increase governance, market access, and financial independence while addressing the obstacles it presents.

Background and Importance of Rural Cooperatives

Rural cooperatives play an important role in supporting local development by allowing members to pool resources such as land, equipment, and funds. Cooperatives in agriculture, fisheries, and handicrafts enable small producers to profit from economies of scale, market access, and shared knowledge.

Traditional cooperative structures in rural areas confront challenges such as,

- limited market access and financial resources.
- Limited technical skills and access to contemporary technology.
- Lack of transparency and accountability in governance.

Digital inclusion provides an opportunity to address many of these challenges by introducing digital technologies that can enhance operational efficiency, improve communication among members, and offer greater access to markets and financial services.

Benefits of Digital Inclusion for Rural Cooperatives

• Enhancing Cooperative Governance

One of the primary issues that rural

cooperatives face is maintaining transparent, participatory governance. Cooperatives can use digital technologies like online voting platforms and cloud-based management systems to streamline their governance operations. Members, regardless of location, can participate in decision-making processes, monitor financial accounts, and maintain accountability thanks to easily accessible digital documents. Cooperatives can use digital management systems to automate administrative chores such as record-keeping, budgeting, and membership administration. These solutions decrease manual errors. increase operational transparency, and make it easier to meet legal and regulatory criteria.

Increasing Market Access

One of the most disruptive benefits of digital inclusion is increased market access. Rural cooperatives, who were formerly limited to local marketplaces, can now use digital platforms to sell their products across regions and even internationally. E-commerce platforms allow cooperatives to connect directly with customers, eliminating intermediaries and increasing profitability. Cooperatives that produce agricultural goods or handicrafts, for example, can sell their products abroad via e-commerce platforms such as Amazon or Etsy. Furthermore, modern marketing technologies, such as social media, can help cooperatives increase brand awareness, attract new clients, and maintain a more engaged member base.

 Financial Inclusion through Digital Payment Platforms

Rural cooperatives, particularly in



developing countries, continue to face severe barriers to accessing banking and financial services. Digital payment systems, mobile banking, and fintech solutions can help to address this difficulty. Cooperative members can utilise mobile wallets and digital payment systems to safely and efficiently handle their financial transactions. Furthermore, cooperatives can acquire access to credit and financing via internet platforms and crowd fundraising, opening up new avenues for growth and expansion. Digital tools also facilitate access to microfinance, allowing cooperatives to fund their operations without relying primarily on traditional banks, which frequently neglect small-scale rural firms

• Capacity Building through Digital Literacy

Empowering cooperative members with digital literacy skills is critical to successful digital inclusion. Members who receive digital literacy training are better able to make educated decisions, use technology more effectively, and access crucial production, market. and financial. data. Several organisations, including governments and nongovernmental organisations (NGOs), already offer digital literacy programs customised to the specific needs of rural cooperatives. Beyond digital skills, such training includes important topics such as cyber security and data privacy. Ensuring that cooperative members understand these topics will protect them from fraud, data breaches, and other hazards related with digital transactions.

Expanding Market Access via E-Commerce
 Digital inclusion creates new opportunities for

rural cooperatives to reach larger consumers through ecommerce. Rural cooperatives might offer their products to national or even international markets by creating new internet platforms or collaborating with existing ones. This not only increases income but also decreases the need for local intermediaries.

Agricultural Cooperatives and Smart Technology

For agricultural cooperatives, digital inclusion allows access to smart farming technologies. IoT (Internet of Things), AI-driven platforms, and data analytics can help farmers make informed decisions regarding crop cycles, weather patterns, and market prices. This results in increased productivity and better returns for cooperative members.

Challenges in Implementing Digital Inclusion

• Lack of Infrastructure

One of the most major challenges to rural cooperatives' digital inclusion is a lack of infrastructure, especially in remote locations. Internet connectivity remains unstable or nonexistent in many rural areas, hampering cooperatives' capacity to deploy digital solutions successfully. Governments and telecom companies must invest in expanding broadband networks and enhancing mobile coverage to ensure that rural communities have access to the digital tools they require for inclusion.

Digital Literacy Gaps

While digital literacy programs are critical,



the general lack of education in some rural communities is a barrier. Cooperative members may be hesitant to use digital technologies due to unfamiliarity or fear of change. Comprehensive training programs must be devised to fill these gaps in a culturally appropriate and accessible manner.

Financial Constraints

Digital tools and platforms often require initial investments in hardware, software, and training. Rural cooperatives, which typically operate on limited financial resources, may struggle to cover these costs. Subsidies, grants, or low-interest loans from governments and international organizations can help cooperatives overcome these financial barriers.

Cybersecurity Risks

As rural cooperatives become more digital, they face cybersecurity concerns such as fraud, data breaches, and identity theft. Many cooperatives lack the skills required to successfully handle these risks. Ensuring digital security necessitates both investing in safe platforms and educating members about the value of data privacy.

Strategies for Successful Digital Inclusion

Public-Private Partnerships

Collaboration among governments, private corporations, and non-governmental organisations is critical for increasing digital inclusion. Public-private partnerships can help fund infrastructure projects, conduct digital

literacy programs, and provide financial support to cooperatives.

• Tailored Digital Literacy Programs

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Digital literacy programs should be customised to the unique demands of rural cooperatives. Using local languages, culturally relevant information, and hands-on training can help make these programs more accessible and effective.

• Subsidized Digital Infrastructure

Governments should explore providing subsidies for digital infrastructure in rural areas, notably broadband internet and mobile connectivity. This will allow rural cooperatives to use digital tools without incurring large fees.

• Sustainable Financing Solutions

Innovative finance methods, such as microloans, crowd funding platforms, and government subsidies, can assist cooperatives in covering the initial costs of digital transformation. These solutions should be tailored to the specific financial needs of rural cooperatives.

Conclusion

igital inclusion has enormous potential to strengthen rural cooperatives by improving governance, increasing market access, and offering financial solutions. Despite infrastructure, literacy, and cybersecurity issues, digital transformation has the potential to significantly improve rural populations' lives and promote long-term development.



To guarantee that rural cooperatives benefit from digital inclusion, governments, non-governmental organisations (NGOs), and private firms must work together to establish an enabling environment that solves these problems. With the correct infrastructure, training, and financial resources, rural cooperatives may prosper in an increasingly interconnected world by leveraging digital technologies.

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Role of Primary Agricultural Credit Societies (PACS) in Strengthening Cooperative Movement



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Abstract

The cooperative movement is crucial for advancing agricultural development, empowerment, and financial inclusion. At the grassroots level, Primary Agricultural Credit Societies (PACS) serve as the backbone of this movement, offering essential financial services farmers and enabling improvements in agricultural practices. Despite their importance, PACS face several challenges that hinder their effectiveness and impact. These challenges pose significant obstacles for both Panchayats and the government. To address these issues, both local governments and the Government of India (GOI) have implemented various measures. This paper aims to analyze and explore the different aspects of PACS, providing insights that can help policymakers and stakeholders understand their critical role and develop strategies to enhance their effectiveness.

Introduction

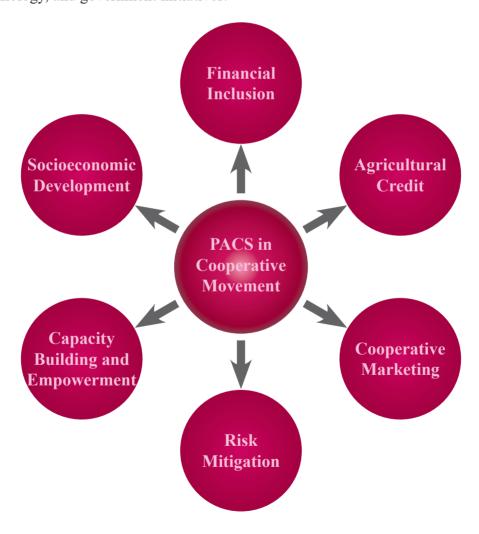
The cooperative movement has long been an effective strategy for advancing agricultural development, rural empowerment, and financial inclusion. It provides a platform for farmers and rural communities to unite, pool resources, and address their collective economic, social, and cultural needs. Within this framework, Primary Agricultural Credit Societies (PACS) play a pivotal role, especially at the Panchayat level. PACS are grassroots financial institutions dedicated to offering credit and other financial services to farmers and rural households. They operate on principles of self-help, mutual assistance, and democratic governance. However, PACS are vital in channeling credit



to farmers, enabling access to affordable finance for agricultural activities, purchasing inputs, and investing in modern farming technologies. They also facilitate savings, provide insurance services, and support cooperative marketing of agricultural produce. Despite their significance, PACS face several challenges, including inadequate infrastructure. governance issues. limited capital, outdated technology, and low financial literacy among members. Nevertheless, there are emerging opportunities for PACS to enhance their operations and impact through digitalization, financial technology, and government initiatives.

PACS in Cooperative Movement – A Brief Role

Primary Agricultural Credit Societies (PACS) are fundamental to the success of the cooperative movement. They play a pivotal role in supporting farmers and rural communities by providing essential financial services and fostering economic development. Some of the key roles are identified and presented in the (Figure – 1) and followed by analysis of the same.





- (1) Financial Inclusion: PACS bridge the gap between rural populations and the traditional banking system. They offer credit facilities, savings accounts, and other financial products to smallholder farmers, promoting financial inclusion and helping them manage their finances effectively.
- (2) Agricultural Credit: PACS are crucial for providing tailored agricultural credit to farmers. They assess individual credit needs and extend loans for various agricultural purposes, including crop production, livestock rearing, and infrastructure development. This support helps improve agricultural practices and productivity.
- (3) Cooperative Marketing: By facilitating cooperative marketing, PACS help farmers collectively sell their produce. This aggregation enables farmers to negotiate better prices, access larger markets, and eliminate intermediaries, thereby reducing transaction costs and increasing returns.
- (4) Risk Mitigation: PACS offer insurance services such as crop and livestock insurance to mitigate risks associated with agriculture. This coverage protects farmers from losses due to natural disasters, pests, or diseases, providing a safety net and supporting sustainable farming practices.
- (5) Capacity Building and Empowerment:
 PACS engage in capacity-building
 activities to enhance members' skills and
 knowledge. They offer training in financial
 management, agricultural techniques, and
 cooperative governance, empowering
 farmers to make informed decisions and
 adopt modern practices.

(6) Socioeconomic Development: PACS contribute to rural development by creating employment opportunities, stimulating economic growth, and improving living standards. They support community development initiatives in education, healthcare, sanitation, and infrastructure.

PACS – A Few Challenges

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Primary Agricultural Credit Societies (PACS) encounter several challenges that affect their operations and effectiveness in agricultural financing. These challenges include:

- (1) Limited Capital Base: PACS often operate with restricted capital resources, which limits their ability to provide adequate credit to farmers. Their capital primarily comes from member savings and share capital contributions. This limited capital base constrains their lending capacity and prevents them from meeting the full credit needs of farmers.
- (2) Inadequate Infrastructure: Many PACS function in rural areas with insufficient infrastructure, such as outdated office facilities, outdated technology, and poor connectivity. This affects their operational efficiency and ability to deliver smooth financial services. Limited access to modern technology and internet connectivity impedes the adoption of digital financial services.
- (3) Governance and Management Issues:
 Weak governance and management practices can undermine the effectiveness of PACS. Issues such as lack of transparency,



accountability, and professionalism within management committees can lead to fund mismanagement, nepotism, and corruption. These problems erode member trust and affect the overall performance of the society.

- (4) Low Financial Literacy: Many farmers and PACS members have limited financial literacy. This lack of understanding regarding financial concepts, loan management, repayment schedules, and interest rates can result in poor financial decisions and increased loan defaults. Additionally, insufficient awareness of PACS benefits and services can limit farmer participation and membership.
- (5) Default Risk and Loan Recovery: The agricultural sector is vulnerable to various risks, such as crop failures, natural disasters, and market fluctuations, which increase the likelihood of loan defaults. Challenges in loan recovery arise due to limited collateral and difficulties in enforcing recovery measures, leading to high non-performing assets (NPAs) and financial stress for PACS.
- (6) Competition from Non-Cooperative Institutions: PACS face competition from non-cooperative financial institutions, such as commercial banks and microfinance institutions, which often have superior infrastructure, larger capital bases, and broader outreach. Farmers may prefer these institutions due to easier access or perceived better services, reducing the demand for PACS loans.
- (7) Regulatory and Policy Environment:
 The regulatory and policy landscape can present challenges for PACS. Complex

regulations, bureaucratic procedures, and stringent compliance requirements can create administrative burdens. Inconsistent or restrictive policies related to cooperative banking may also hinder the growth and effectiveness of PACS.

PACS and the Cooperative Movement – Exploring Opportunites

Primary Agricultural Credit Societies (PACS) have several opportunities to enhance their role in strengthening the cooperative movement and improving agricultural financing. These opportunities can help PACS boost their operations and impact. Key opportunities include:

- of technology and digital services offers a significant opportunity for PACS to modernize their operations. Embracing digital banking solutions such as mobile banking, online loan applications, and digital payment systems can improve the efficiency, accessibility, and convenience of the financial services provided by PACS. Digital platforms also allow PACS to expand their reach, cover more areas, and offer real-time financial updates to farmers.
- (2) Financial Inclusion Initiatives: With increasing focus on financial inclusion, PACS can align with national efforts to provide formal financial services to underserved populations, including farmers. By collaborating with government agencies, development organizations, and technology providers, PACS can broaden



their outreach and offer innovative financial products. This collaboration can help reach unbanked or underbanked farmers and ensure they have access to affordable credit and other financial solutions.

- integrate with agricultural value chains by partnering with agribusinesses, processors, exporters, and input suppliers. Establishing these linkages can provide PACS with valuable market insights, improve access to market information, and tailor financial services to the needs of different value chain participants. This integration can facilitate credit flow, enhance market connections, and contribute to economic growth within the agricultural sector.
- Organizations (NGOs): Partnering with NGOs that focus on agricultural and rural development can be highly beneficial for PACS. NGOs often have extensive networks, expertise, and experience with rural communities. By way of collaborating with NGOs, PACS can leverage additional resources, gain knowledge, and strengthen their capacity in areas like financial literacy, capacity building, and social development initiatives. This partnership can enhance the overall impact of PACS and support farmers more effectively.
- (5) Risk Management Tools: PACS can utilize risk management tools to address the risks associated with agricultural financing. Through partnering with insurance companies and offering products such as crop and livestock insurance, PACS can

help farmers manage risks and provide a safety net against unexpected events. Additionally, PACS can use technology to develop risk assessment models, credit scoring systems, and data analytics to better evaluate creditworthiness and minimize default risks.

(6) Policy Support and Advocacy: Engaging in policy advocacy and working with cooperative federations and stakeholders can help create a supportive policy environment for PACS. In advocating for favorable policies, regulations, and incentives, PACS can strengthen their role in agricultural financing. Participation in policy discussions, sharing success stories, and providing feedback based on their experiences can influence policymakers and contribute to more effective policies for the cooperative movement.

Key Policy Recommendations and Implications

Policy implications and recommendations can play a crucial role in strengthening Primary Agricultural Credit Societies (PACS) and promoting the cooperative movement. The following are some key policy recommendations and implications that can enhance the effectiveness of PACS in agricultural financing and cooperative development:

 Allocate adequate funds for the development and improvement of PACS infrastructure, including office spaces, technology systems, and connectivity.



- Promote good governance practices within PACS, including transparency, accountability, and professionalism in their operations.
- Establish mechanisms to monitor and evaluate the performance of PACS, ensuring adherence to regulatory requirements and cooperative principles.
- Encourage collaboration between PACS and financial institutions to enhance their financial capabilities, expand their product offerings, and leverage each other's strengths.
- Provide financial incentives, such as interest rate subsidies or loan guarantees, to encourage PACS to extend credit to marginalized and financially excluded farmers.
- Promote financial literacy and awareness programs targeted at farmers, enabling them to understand the benefits of formal financial services and encouraging their participation in PACS.
- Develop training programs and capacitybuilding initiatives for PACS members, focusing on areas such as cooperative management, financial management, risk assessment, and governance.
- Collaborate with cooperative training institutes, agricultural universities, and development organizations provide specialized training and skill development programs for PACS members.
- Facilitate knowledge sharing and peerlearning platforms for PACS members, encouraging the exchange of best practices and experiences.

- Create an enabling policy environment that promotes the adoption of digital technologies in PACS operations, including mobile banking, online platforms, and digital payment systems.
- Provide financial and technical support to PACS for implementing digital solutions, including training on digital cybersecurity, and data management.
- Foster partnerships between PACS and technology providers to develop customized digital solutions tailored to the needs of farmers and the cooperative sector.
- A Foster collaboration between PACS and government agencies responsible for agricultural development, rural empowerment, and financial inclusion, ensuring alignment of objectives and effective implementation of policies and programs.
- Encourage partnerships between PACS non-governmental organizations and (NGOs) working in the agricultural and rural development sectors, leveraging their expertise, resources, and networks to support PACS activities and initiatives.
- Review and update regulatory frameworks governing cooperative banking, ensuring they are conducive to the growth and sustainability of PACS.
- Simplify administrative procedures and reduce bureaucratic hurdles for PACS, facilitating their operations and reducing compliance burdens.



 Introduce supportive policies, incentives, and regulatory mechanisms to promote the growth and viability of PACS, including provisions for capital infusion, loan recovery, and risk management.

Concluding Remarks

Vibrant and Inclusive Agriculture Sector: It is evident from the above factual assessment that Primary Agricultural Credit Societies (PACS) are integral to advancing the cooperative movement and promoting agricultural development. Despite their critical role in providing financial services and supporting rural communities, PACS face challenges such limited capital, outdated infrastructure, governance issues, and low financial literacy. However, emerging opportunities, including digitalization, financial inclusion initiatives, and partnerships with NGOs, offer significant potential for strengthening PACS. By way of implementing targeted policies, improving governance, and embracing technological advancements, PACS can overcome challenges, foster financial inclusion, and contribute to sustainable agricultural development, ultimately improving the livelihoods of rural farmers.

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Declaration

I confirm that I have not submitted this article for publication elsewhere. It is important to note that the opinions expressed in this article may not necessarily align with those of the Institute or the Journal Editor.

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Abstract

Generation Z ("Gen Z"), or those born between 1997 and 2012, is the most tech-savvy, socially conscious, and independent generation in today's ever changing digital landscape. With the emergence of Gen Z, new values and preferences distinct from those of earlier generations have been introduced. Gen Z is known for its individualistic inclinations and digital-first mindset. They are also known for emphasising entrepreneurship and self-reliance. However, a future based solely on individualism is unsustainable in a world that is changing quickly and is characterised by global issues like inequality, climate change, and job instability. However, cooperatives, a model of shared benefits, democratic governance, and community ownership, are more important than ever, particularly in light of the pressing issues of inequality, climate change, and economic instability. This article examines how cooperatives might adapt to appeal to Generation Z by utilising technology and digital platforms and catering to their unique needs and ideals.

Gen Z and the Idea of Cooperatives

Gen Z is the first generation to have grown up with cellular phones and extensive internet access. Growing up in a world where information is instantaneous and global conversations are accessible with only a click, they place a high importance on self-expression, entrepreneurship, and having control over their professional and social lives. However, a strong awareness of global issues like social justice, economic inequality, and climate change coexists with this

Bridging Individualism to Collective Actions: Cooperatives for Gen-Z in the Digital Age



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independence-focused mindset¹. This paradox makes the environment ideal for cooperatives to flourish since they provide a balance between personal freedom and group benefits.

Cooperatives, which have traditionally prioritised community involvement, democratic decisionmaking, and shared resources, could appear to be at conflict with the individualism of Generation Z. However, the cooperative model by using the seven principles of cooperative provides a workable answer to a lot of the concerns that Gen Z cares about in the context of a shifting social and economic landscape². The fundamental principle of cooperatives is voluntary and open membership, which guarantees admission to anybody prepared to assume the associated duties. Fairness and inclusivity are fostered by cooperatives' democratic member control system, in which every member has an equal voice in decision-making. Additionally, they follow member economic participation, which states that members fairly participate to and gain from the cooperative's success. Cooperatives are dedicated to autonomy and independence; even in situations where they collaborate with outside parties, their members retain authority.

Cooperatives also place a strong emphasis on information, training, and education to support members' effective engagement. They also engage in cooperation among cooperatives, working together with other cooperatives in

order to fortify the movement. In the end, cooperatives strive towards sustainable growth by striking a balance between the requirements of the individual and more general social and environmental objectives out of a concern for community. By taking into account each person's unique requirements, these principles produce a model that speaks to the values of equality and community held by Generation Z.

Key Areas of Cooperatives for Gen Z

Even though Gen Z tends to be more individualistic, the cooperative model can be advantageous in a number of ways. Economic stability is one important issue. Many Gen Z workers are choosing to freelance work or shortterm contracts as the gig economy expands, but they confront difficulties like unstable employment, inadequate benefits, and unjust pay. Cooperatives can act as a safety net by combining resources, lending money and legal assistance, and making sure independent contractors are treated fairly. Sustainability is an additional area. Gen Z is concerned about environmental issues and frequently leans towards supporting companies that value sustainability and ethics in their operations. They can be persuaded to make ethical decisions by cooperatives that specialise in renewable energy, ethical fashion, or sustainable food management.

Furthermore, housing cooperatives can meet Gen Z's need for shared resources and collaborative spaces by providing reasonably priced, community-focused housing solutions. Cooperative innovation is also very suitable for the fields of education and skill-sharing. Peer-

¹ Singh, Amarendra P., and Jianguanglung Dangmei. "Understanding the generation Z: the future workforce." South-Asian journal of multidisciplinary studies 3, no. 3 (2016): 1-5.

² Reyes, Jesús Cruz, and Camila Piñeiro Harnecker. "An introduction to cooperatives." In Cooperatives and socialism: A view from Cuba, pp. 25-45. London: Palgrave Macmillan UK, 2013.



to-peer cooperation and ongoing education are important to Generation Z, and cooperatives that provide access to online courses, mentorship programs, or shared educational materials can help foster these ideals. These and other fields demonstrate how cooperatives may be extremely helpful in meeting Gen Z's demands for autonomy, adaptability, and sustainability while also encouraging group effort.

Utilizing Digital Platforms to Engage Gen Z in Cooperatives

In order to connect with Generation Z, cooperatives must incorporate digital tools and platforms that streamline involvement, boost engagement, and align with the values of the group. The everyday lives of Generation Z revolve around technology, therefore cooperatives need to adjust by providing logical, technologically astute solutions.

Since Gen Z spends a lot of time on social media, it is essential to reach them on sites like Instagram, Facebook and X (formerly Twitter). Cooperatives can use these platforms to produce interesting material that demonstrates how their principles and advantages match those of Generation Z, who are interested in sustainability, equity, and community involvement. Cooperatives can gain credibility and draw in a younger audience by collaborating with social media influencers that uphold cooperative principles. Creating mobile applications that meet the needs of Generation Z can increase engagement even further. To promote active engagement, these apps should streamline the onboarding process, include tools like voting and event sign-ups, and offer discussion forums. By using their mobile devices to participate in democratic decision-making and cooperative

initiatives, new members can be assured of an easy-to-understand cooperative paradigm. Digital platforms will the better ways to connect the Gen Z with the new cooperative organisations as it is a usual practices in urban areas to have collective association for the transportation through pooling.

Cooperatives can use tools like Zoom and Microsoft Teams to host webinars, virtual meetings, and seminars that members can attend from anywhere in order to accommodate Gen Z's desire for digital interactions. Digital workplaces for idea sharing and project management can be created with collaboration technologies like Slack, Trello, or Asana. Digital challenges and a point-based reward system are two examples of gamification components that can increase participation's enjoyment and engagement. By using crowdfunding and crowdsourcing platforms, Gen Z may support projects that align with their beliefs and contribute ideas.

Producing informative digital content about the advantages and effects of cooperatives, such podcasts and videos, may educate and motivate Generation Z. Additionally, AI can personalise involvement by recommending projects and events based on member interests, and blockchain technology can be used for transparent governance. By leveraging these digital tools and strategies, cooperatives can create an engaging and accessible platform for Gen Z, aligning with their values and preferences while fostering a stronger sense of community and participation.

Cooperative Solutions for Gen Z's Lifestyle

Cooperatives' daily requirements and useful



applications can be customised to meet different facets of Gen Z's ideals and way of life. For instance, food cooperatives are in a good position to satisfy Gen Z's need for reasonably priced, environmentally friendly, and healthful food options. Due to convenience, a lot of Gen Z's, particularly those who are balancing work and hectic schedules, frequently rely on mess, takeaway or junk food since they lack the time or motivation to prepare meals for oneself. Food cooperatives can meet this need by providing options for ready-to-eat meals prepared with organic, locally produced produce or centralized mess in respective housing on the idea of cooperatives. In order to guarantee that its busy members have access to wholesome food that is obtained responsibly, these cooperatives can offer reasonably priced meal plans and meal preparation services that complement Gen Z's ideals of sustainability and wellness. In addition, members have the opportunity to actively engage in choices about the distribution and source of food, strengthening their bond with the cooperative and its influence on the neighbourhood.

In a similar vein, shared mobility cooperatives can offer solutions that satisfy Gen Z's demand for affordable, eco-friendly transportation. Members can take advantage of car-sharing or ride-sharing services, which lower individual costs and have a minimal environmental impact, by combining their resources. This cooperative approach provides useful mobility options and encourages sustainable living. Another important use is shared living quarters and facilities. Cooperatives that concentrate on these areas can solve the issue of growing housing expenses and the need for shared living spaces. These cooperatives establish supportive communities where members can

manage resources cooperatively and cultivate a sense of belonging by offering shared amenities and inexpensive housing options. Every single one of these cooperative models shows how group efforts may both represent and fulfil the daily demands of Generation Z.

Global Trends of Cooperatives to Meet Gen Z's Needs Worldwide

Cooperatives are changing all across the world to better reflect the ideals and aspirations of Generation Z. These advancements represent a larger movement towards sustainability, digital innovation, and shared community experiences in addition to modernising the cooperative model. As Generation Z demands flexible lifestyles, ethical consumption, and purpose-driven work, cooperatives in a variety of industries are rising to the challenge by providing solutions that appeal to this population. The growth of digital cooperatives that serve gig workers and freelancers is one of the biggest global trends. Platforms like as Smart Cooperative have surfaced in Europe to offer a reliable safety net for freelancers.3 Smart Cooperative provides freelancers with access to benefits usually only available to full-time employees by providing a shared infrastructure that includes administrative support, insurance, and legal assistance. Gen Z, who value flexibility in their professions but also want security and fair treatment at work, finds this cooperative approach particularly intriguing.

Additionally, in the USA, Coop Exchange is creating a global network of cooperative stock exchanges, providing a venue for institutions

³ Société Mutuelle pour Artistes. "Société Mutuelle pour Artistes (SMART)." Accessed September 12, 2024. https://smartse.org/en/home/.



and possibly individuals to invest in cooperative financial instruments⁴. This system guarantees that investments are in line with cooperative values, transforming capital into a tool for empowering people instead of just making a profit. This model is especially pertinent to Generation Z, as it encourages ethical investing, sustainability, and community-driven impact, aligning with their desire for socially responsible financial systems and greater control over economic structures. In a similar vein, food cooperatives are being modified to satisfy the demands of young professionals looking for quick, convenient, and sustainably produced meals. For instance, in Japan, cooperatives such as Seikatsu Club provide members who would rather not cook with ready-to-eat meals and subscription services so they can still enjoy high-quality, ethical food. This is especially important for Generation Z, who frequently lead hectic lives from work or school and may turn to quick, ethically-sound eating options. By providing inexpensive, premade meals these food cooperatives are tackling sustainability and convenience while also fostering a sense of shared responsibility and community among their members.

In Latin America, cooperatives have been playing a crucial role in fostering digital innovation. For instance, Enspiral, a cooperative based in New Zealand, has expanded its influence globally by supporting tech startups and freelancers who want to work on projects with social impact.⁵ The cooperative model allows members to retain

control over their work while collaborating on innovative tech solutions, particularly those that address social and environmental challenges. Gen Z, with its passion for entrepreneurship and social justice, is drawn to cooperatives like Enspiral because they provide a platform for both technological innovation and meaningful social contribution. These global examples show how cooperatives are not only remaining relevant but thriving in the digital age by embracing Gen Z's values of sustainability, fairness, and community. These trends suggest that cooperatives have the potential to become a dominant force in reshaping economies and societies to better meet the needs of future generations.

Conclusion and Way Forward For India

To be especially relevant to Gen Z, a generation that values sustainability, justice, and community impact, cooperatives present a potent paradigm that unites individualism and collective action. Cooperatives provide a solution that is consistent with the beliefs of Generation Z, who are increasingly looking for alternatives to established economic systems that put profit ahead of people. India's cooperative movement needs to be modernised in order to fulfil the demands of today's young. Cooperatives should become more approachable and appealing to a tech-savvy youth by utilising digital channels to encourage involvement. Furthermore, India has to keep creating regulations that are favourable to the development of cooperatives in new markets including food, housing, transportation, and even internet marketplaces for independent contractors. India's youthful population can take the lead in developing sustainable, community-

⁴ Coop Exchange. "A Capital Market for Cooperatives and Mutuals." Accessed September 12, 2024. https://coop.exchange.

⁵ Enspiral. "Enspiral – A Decentralised Network of Entrepreneurs and Freelancers." Accessed September 12, 2024. https://www.enspiral.com.



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driven economies by fusing cooperative principles with innovation and technology. Cooperatives have the power to transform India's economic landscape as Gen Z gains traction by promoting an inclusive and resilient future that benefits both people and communities. Adapting these antiquated frameworks to meet contemporary goals is a difficult task, but the cooperative movement can flourish in the digital age with the appropriate resources and methods,

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Abstract

The agricultural sector forms the bedrock of India's economy, contributing significantly to national income and employment. However, Indian farmers often face financial constraints. particularly during the critical post-harvest period. Many farmers are forced to sell their produce immediately after harvest, even when market prices are low, resulting in distress sales. This predicament is primarily due to the lack of liquidity and timely access to institutional credit. To address these challenges, Government of India, in collaboration with key stakeholders, has developed the e-Kisan Upaj Nidhi (Digital Gateway), an innovative platform aimed at revolutionizing post-harvest financing for farmers.

The e-Kisan Upaj Nidhi is designed to help farmers secure post-harvest loans by leveraging the stocks stored in Warehousing Development and Regulatory Authority (WDRA)-registered warehouses through electronic Negotiable Warehouse Receipts (e-NWRs). This digital platform enables farmers to delay the sale of their produce until market conditions become favorable, reducing the need for distress sales and improving their overall economic well-being. The initiative is intended to create a streamlined process for securing loans, offering farmers access to a variety of loan options from different banks, thereby fostering competition and ensuring better financial terms for the borrowers.

By integrating multiple databases and ensuring seamless data transfer, the platform not only simplifies loan application processes but also improves financial inclusion for small and marginal farmers. The e-Kisan Upaj Nidhi

Empowering Farmers through Digital Innovation: The e-Kisan Upaj Nidhi (Digital Gateway)



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provides several benefits, including increased liquidity, enhanced access to credit, and better market pricing opportunities. However, the platform also faces significant challenges, such as limited digital literacy, inadequate infrastructure in rural areas, and regulatory hurdles. Nevertheless, the initiative presents vast opportunities to transform the agricultural finance landscape by leveraging technological advancements, building capacity for digital literacy, and collaborating with multiple stakeholders.

This article delves into the aims, objectives, benefits, challenges, opportunities, and the broader impact of the e-Kisan Upaj Nidhi on India's agricultural sector, with a particular focus on how digital innovation can empower farmers and enhance the efficiency of post-harvest finance.

Introduction

Agriculture is the backbone of India, contributing significantly to the country's economy and providing livelihood to a large portion of its population. However, farmers, especially small and marginal ones, face numerous financial challenges, particularly during the post-harvest period. This phase is critical, as it is often when farmers need immediate liquidity to meet their financial obligations, such as repaying loans, purchasing inputs for the next cropping season, and supporting household needs. Unfortunately, the lack of accessible, timely, and adequate credit forces many farmers to sell their produce immediately after harvest, even when market prices are unfavorable. This practice, known as distress selling, results in reduced income for farmers and perpetuates a cycle of poverty.

The e-Kisan Upaj Nidhi (Digital Gateway)

is an innovative solution designed to address these challenges by providing a digital platform that allows farmers to secure post-harvest loans. Developed through a collaboration between various government agencies, financial institutions, and regulatory bodies, the platform enables farmers to use electronic Negotiable Warehouse Receipts (e-NWRs) as collateral to obtain loans against their stored produce in Warehousing Development and Regulatory Authority (WDRA)-registered warehouses. This system empowers farmers to delay the sale of their produce until market conditions are more favorable, thereby enhancing their financial stability and income prospects.

The platform integrates various digital tools and databases, ensuring a seamless loan application and approval process, while also offering farmers access to multiple financial institutions, creating a competitive lending environment. The introduction of the e-Kisan Upaj Nidhi aims to transform the agricultural finance landscape by reducing distress sales, promoting financial inclusion, and streamlining the loan process, thereby improving the economic well-being of India's farming community.

The Need for Financial Innovation in Indian Agriculture-

India's agricultural sector, while robust, has long suffered from structural inefficiencies, particularly in the area of finance. Farmers often face significant hurdles when accessing credit, especially during the post-harvest phase, when their liquidity needs are highest. Despite numerous government schemes, formal financial institutions have not always been able to provide



timely and adequate credit to farmers. This is particularly true for small and marginal farmers, who make up a large percentage of the agricultural population and often lack the collateral required to secure loans.

The inability to access finance during this crucial period forces many farmers to sell their produce immediately after harvest, even when prices are at their lowest. This phenomenon, known as distress sales, has a profound negative impact on farmers' incomes and livelihoods. By addressing these financial gaps through innovative digital solutions, the e-Kisan Upaj Nidhi seeks to mitigate the financial risks faced by farmers and improve their ability to secure loans against their stored produce.

Aims of the e-Kisan Upaj Nidhi-

The primary aim of the e-Kisan Upaj Nidhi (Digital Gateway) is to provide farmers with a digital platform that enables them to secure post-harvest loans against their produce stored in WDRA-registered warehouses. By using e-NWRs as collateral, farmers can access much-needed liquidity without being forced to sell their produce at suboptimal prices. This enables farmers to defer the sale of their produce until market conditions improve, maximizing their income.

More broadly, the initiative seeks to empower farmers economically by reducing their reliance on informal credit systems and creating a more efficient agricultural finance system. By integrating multiple stakeholders—such as banks, financial institutions, and regulatory bodies—into a single digital platform, the e-Kisan Upaj Nidhi ensures greater transparency, efficiency, and accessibility in the post-harvest lending process.

Objectives of the e-Kisan Upaj Nidhi-

The e-Kisan Upaj Nidhi is designed to achieve several key objectives, all of which are aimed at enhancing farmers' access to post-harvest finance and promoting financial inclusion within the agricultural sector. These objectives include:

- 1. Facilitating Access to Finance: By enabling farmers to use their stored produce as collateral, the platform ensures that farmers can access post-harvest loans with ease. The use of e-NWRs simplifies the loan approval process and makes it easier for farmers to secure the liquidity they need.
- 2. Reducing Distress Sales: The platform allows farmers to hold onto their produce until market conditions improve, reducing the pressure to sell immediately after harvest at lower prices. This ensures better pricing for farmers and enhances their overall profitability.
- 3. Promoting Financial Inclusion: The e-Kisan Upaj Nidhi aims to promote financial inclusion by making a wide range of financial institutions accessible to farmers. By onboarding multiple banks and financial service providers, the platform creates a competitive environment that ensures farmers receive the best possible loan terms.
- 4. Enhancing Data Integration: The platform integrates various databases, such as those maintained by WDRA, financial institutions, and regulatory bodies, ensuring seamless data transfer and authentication. This streamlines the loan application



- process and reduces the time required for loan approvals.
- 5. Improving Loan Processing: By digitizing the loan application and approval processes, the platform reduces the turnaround time for loan approvals. This ensures that farmers receive timely access to the funds they need.

Benefits to Farmers

The e-Kisan Upaj Nidhi offers numerous benefits to farmers, including:

- Increased Liquidity: By securing loans against stored produce, farmers can access immediate financial relief without having to sell their produce at low prices.
- Better Market Pricing: The platform allows farmers to defer the sale of their produce until market conditions are favorable, ensuring that they can sell at higher prices and maximize their income.
- Choice of Financial Institutions: Farmers
 can compare and select loan offers from
 multiple banks, ensuring that they receive the
 best possible interest rates and loan terms.
- Streamlined Process: The digital nature of the platform simplifies the loan application and approval processes, reducing paperwork and delays. This enables farmers to access credit more quickly and with less hassle.
- Enhanced Credit Access: Farmers with better credit scores can benefit from more favorable loan terms, including lower interest rates and higher loan amounts.

Challenges Facing the e-Kisan Upaj Nidhi

Despite its many benefits, the e-Kisan Upaj Nidhi faces several challenges that must be addressed to ensure its success. These challenges include:

- Digital Literacy: Many farmers, particularly in rural areas, may lack the digital skills required to navigate the platform. This could limit the platform's accessibility and effectiveness.
- Infrastructure Limitations: Rural areas often face challenges with internet connectivity and access to digital devices, which could hinder farmers' ability to use the platform.
- Awareness: There may be a lack of awareness among farmers about the availability and benefits of the digital gateway. Efforts must be made to promote the platform and educate farmers about how to use it.
- Regulatory Hurdles: Ensuring compliance with regulatory requirements and maintaining data security will be critical to the platform's success. Navigating these regulatory challenges could prove difficult, particularly in a complex sector like agriculture.
- Credit worthiness: Farmers with low credit scores may still face challenges when securing loans, even with the use of e-NWRs. Addressing this issue will be key to ensuring that the platform benefits all farmers, including those who have historically been excluded from formal credit systems.



Opportunities for Growth and Expansion

The e-Kisan Upaj Nidhi presents several opportunities for growth and expansion:

- Technological Advancements: By leveraging advancements in technology, the platform can improve its accessibility and functionality. This could include the development of mobile applications and the integration of artificial intelligence to enhance loan processing.
- Capacity Building: Training programs can be implemented to improve digital literacy among farmers, ensuring that they can fully utilize the platform and its benefits.
- Expansion of Reach: The platform can be expanded to reach more farmers, including those in remote and underserved areas. Additionally, more financial institutions can be onboarded to provide farmers with a wider range of loan options.
- Policy Support: Continued support from government policies that promote digital finance in agriculture will be critical to the platform's success. Policy initiatives that focus on improving rural connectivity and infrastructure will further enhance the platform's effectiveness.
- Collaborations: Partnering with nongovernmental organizations (NGOs) and private sector players can help enhance the platform's reach and effectiveness. These collaborations can provide additional resources and expertise to support farmers.

Conclusion

The e-Kisan Upaj Nidhi (Digital Gateway) represents a significant step towards empowering Indian farmers by providing them with timely financial support and reducing the need for distress sales. While challenges such as digital literacy, infrastructure limitations, and regulatory hurdles must be addressed, the opportunities for enhancing the agricultural finance landscape through digital means are substantial. Through technological advancements, capacity building, and strategic collaborations, this initiative has the potential to transform the lives of millions of farmers across the country, ensuring greater financial inclusion, improved market access, and streamlined processes in the post-harvest finance system.

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Improving Efficiency of Cooperative Organizations in India



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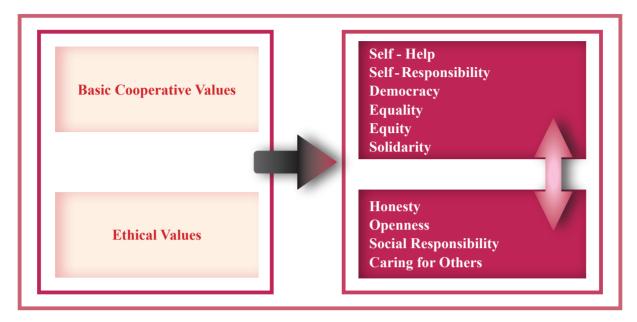
Introduction

Globally, cooperative societies have played a pivotal role in socioeconomic development. As a result of these organizations, the interests of people with common goals are brought together, their resources are pooled, and they can collectively pursue their goals. Leland Stanford, the founder of Stanford University, once said: "Each cooperative institution will become a school of business in which each member will acquire a knowledge of the laws of trade and commerce."

The cooperative sector in India has immense untapped potential to drive socio-economic development and foster inclusive growth. By promoting democratic decision-making, equitable distribution of benefits, and empowering marginalized communities, cooperatives can play a pivotal role in achieving India's sustainable development goals. As the country continues to work towards an inclusive and resilient future, it is essential to recognize and leverage the transformative power of the cooperative sector.

Cooperative organizations in India are integral to the nation's socio-economic fabric, encompassing sectors like agriculture, finance, dairy, and retail. These organizations, founded on principles of mutual aid and collective effort, face unique challenges in enhancing efficiency due to diverse member bases and varying operational contexts. Improving efficiency in Indian cooperatives requires a multifaceted approach that includes strategic planning, technological integration, member engagement, and implementing best practices. cooperatives are now being considered as an important plank of economic development of the country. The cooperatives have inherent





advantages in tackling the problems of poverty alleviation, food security and employment generation. Cooperatives have immense potential to deliver goods and services in far flung areas and networking of the rural India.

As stated by Prime Minister Modi, "Cooperatives are a third economic model - controlled neither by government nor capitalists. It is created with the cooperation of farmers and people, and everybody is a part of it. This is one viable alternative to socialism and capitalism. There is a culture of cooperative in our thinking. We need to take it forward and think how we can take it forward in many other areas." Indeed, cooperatives will have an important part in all dimensions of the India@100 growth story!

Cooperative efficiency

Efficiency is an ever lasting issue which is of special importance to any economic society . In the modern market economy society, inefficiency means losing competitiveness . It is imperative for cooperatives to improve economic efficiency,

thus maintaining their competitiveness. Generally there are two aspects in the concept of cooperative efficiency. On the one hand, It can be understood as cooperative input-output efficiency, which means to obtain maximum output at a certain level of input, or to realize minimum input at a certain level of output .This belongs to internal efficiency for cooperatives. On the other hand, it also can be regarded as external efficiency for cooperatives, which means the comprehensive efficiency of cooperatives in promoting reasonable allocation of social resources among various departments while pursuing internal efficiency. In short, external efficiency refers to cooperatives' contribution to total welfare in society.

The cooperative efficiency is determined by the chosen objective function .Cooperatives with different functions have different objective functions . For example, objective functions for marketing cooperatives and for purchasing cooperatives are different . Identical objective function is the basic premise for measuring cooperative efficiency . It is an accidental



phenomenon for cooperatives to realize efficiency because of information asymmetry, poor management etc . Generally inefficiency manifests in cooperatives. Therefore, there is practical significance of adopting effective methods to measure cooperative efficiency accurately and in discussing profound reasons affecting the efficiency. The influence of scale on cooperative efficiency is obvious .It is generally believed that there exists an optimal scale for each cooperative, with which the cooperative can reach its maximum efficiency.

It also should be noted that cooperatives need an appropriate scale, which may grow bigger with the expanding of social-economic scale .Only the cooperative has dynamic adaptability in terms of scale can it achieve higher efficiency in increasingly fierce global competition. Internal control factors have essential impact on cooperative efficiency .Among these factors, staff structure and manager's human capital are the most important ones . To some extent, the process of improving cooperative efficiency is the process of constantly improving staff and manager's

quality and ability. It is also clear that a certain size of board members and the supervision of certain members from supervisory board can improve cooperative efficiency. The external environments such as institution, resource and market also affect resource allocation and utilization in cooperatives though influencing internal control factors, and then affect cooperative efficiency. Therefore, a cooperative which can achieve input-output efficiency has to rely on the coordinative operation between internal control mechanism and external environments. As far as policy is concerning, investment on staff, Including managers, is the key to improve cooperative efficiency

In addition, it is necessary to consider the role of external environments. Besides continuing to perfect relevant laws and regulations and creating a better institutional environment, other factors such as regional resources environment should also be taken into consideration. It is important to adjust policies to accord with different resource factors in different regions in order to produce a positive incentive effect on the development of cooperatives.

A cooperative must function by integrating cooperative institutional and business dimensions to facilitate accomplishing its objectives and contribute significantly in socio-economic development of its members.

Institutional Dimensions **Business Dimensions** Coop Values Entrepreneurship Open and Voluntary Membership Investment Democratic Member Control Capital Mix Member Economic Participation Integration of Production & Marketing Autonomy and Independence Efficiency Education, Training & Information Organization Structure Concern for Community Size of Operation Scale. Members' Empowerment & Participation in Business, Finance, Management, Govt. Development Programmes

Members' Economic, Social and Cultural Development.



Improving Cooperatives efficiency

Following are the imperatives for enhancing efficiency of the Cooperative organizations

Strategic Planning and Governance

Efficiency begins with robust governance and strategic planning tailored to the cooperative's goals and member needs. Indian cooperatives must ensure transparent and accountable governance structures to build trust and drive performance.

- 1. Clear Vision and Mission: Establishing a clear vision and mission that resonates with the members' aspirations is critical. For example, the success of Amul, India's largest dairy cooperative, can be attributed to its clear mission of empowering dairy farmers through a robust supply chain and fair pricing. Regularly revisiting and updating these statements helps keep the organization focused and relevant.
- 2. Member Participation: Active member participation in decision-making processes is essential. Regular general body meetings, surveys, and feedback mechanisms ensure that members' voices are heard and considered in strategic decisions. The cooperative governance model in India mandates democratic processes, which must be effectively utilized to enhance engagement.
- 3. Talk amongst yourselves: An organization or business run by a group of people is a type of community and it serves a specific community. For co-ops, this is their shareholder and membership base.

Consistent and valuable shareholder or member engagement is essential to ensuring the co-op is meeting expectations and has a healthy showing at the AGM for votes and feedback. Plus, your current members are the best way to gain new members. Besides regular, value-focused communications and discussions with shareholders and members, a business check-in is also a great way to gain feedback, learn from other regional co-ops and prepare for the future.

- 4. Talk about yourselves: It probably seems strange, but a bit of narcissism is a good thing. Taking the time to remind and educate shareholders, members and staff about the co-op difference, as well as the importance of sharing the message with their friends and family is key to communicating the value your co-op brings to the community or region.
- 5. A strong understanding of co-ops and yours in particular: In your region will ensure recruiting future members, directors, and customers or clients is possible. Plus, it increases your co-op's relevance and legitimacy with the broader public.
- 6. Training and Development: Continuous training for board members and management on cooperative principles, governance, financial management, and strategic planning enhances their ability to lead effectively. Organizations like the National Cooperative Union of India (NCUI) offer various training programs aimed at building leadership capacity within cooperatives.
- 7. Strategic Alliances and Partnerships: Forming strategic alliances with other



cooperatives, government agencies, and private sector organizations can provide additional resources, expertise, and opportunities for growth. These partnerships can help cooperatives scale their operations, access new markets, and enhance their service offerings.

- 8. Business Development Planning (BDP):
 Each primary cooperative should look at the possibilities of: Increasing Existing Business · Diversifying into new profitable areas of business based on potentials and members needs · Enhancing members participation · Promoting resource mobilization including members share capital and deposits · Organizing dormant members into self-help groups (SHG) · Strengthening business linkages with marketing and consumer coops.
- 9. **Assets Management:** Assets are commonly known as anything with a value that represent economic resources or ownership that can be converted into something of value such as cash. Financial assets and physical assets, both represent such ownerships of value, even though they are very different to each other based on their features and characteristics. Assets of the cooperative if managed well can save money and time. Asset management is the process of maximizing the upkeep and use of assets to provide the best returns and benefits to cooperative society. Asset management is important as it: Ø Allows the cooperative to keep track of all assetstheir location, how they are used and when changes are made to them. This will ensure also better returns from asset recovery. Ø

- Make sure that regular assessments of the assets is done to ensure that the financial statements of the business are accurate.
- 10. Profit and its Optimization: Profit is what sustains organizations to serve their objectives, consolidate on existing services/ functions and grow to be more effective in meeting changing needs and expectations of their stakeholders. The cooperatives being peoples' business organizations run on cooperative principles must also legitimately be concerned about the profits it should earn. Cooperative society as a bank can improve profitability by prudent use of all assets and financing, timely recovery of dues/advances for effective recycling of funds, operational efficiency, controlling the costs and providing best of customer services. It should continuously safeguard and strengthen its health and strive to improve profitability within the limitations of social obligations expected of them.
- 11. Risks and Alternatives: Primary level cooperatives, like other businesses, face all kinds of risks which can cause serious loss of profits or even bankruptcy. However, considering themselves as small business, these tend to ignore to look at the issue in a systematic way. A cooperative society can apply the following three simple steps to risk management: i.) Risk Identification: Identify the risks, how they come into play and their consequences. Use expertise and experience of your BoD members, team of staff and others by studying the issues and risks from previous and parallel businesses. ii.) Risk Assessment: How big the identified



risk are? Risk assessment is the process that tries to answer this question. The probability of happening of risk and the impact of consequences is to be estimated. iii.) Risk Planning: Based on risk assessment, a way to avoid problems and issues arising from these risks has to be found out. Adopt the plan either for risk avoidance (i.e. decreasing the probability that there will be problem) or risk mitigation (i.e. lesser the impact of the problem) Besides, the cooperative need to take up continuous monitoring of the risks and actions taken, follow-up and update assessment regularly.

Embracing Technology

Technology is a key driver of efficiency in modern cooperatives. Indian cooperatives, many of which operate in rural areas, can significantly benefit from digital tools that streamline operations, improve communication, and enhance service delivery.

- Digital Platforms: Developing mobile 1. apps and online portals can improve member access to services and information. For instance, cooperative banks in India have increasingly adopted mobile banking solutions, enabling members to conduct transactions remotely.
- **Enterprise Resource Planning (ERP)** 2. Systems: Implementing ERP systems can integrate various functions such as finance, supply chain, and member management into a cohesive system. The Indian Farmers Fertiliser Cooperative Limited (IFFCO) successfully uses ERP to manage its extensive operations across the country

efficiently.

- 3. Data Analytics: Utilizing data analytics helps cooperatives make data-driven decisions. Analyzing member data, market trends, and operational metrics can reveal insights that guide strategic initiatives and resource allocation. For example, data analytics can help agricultural cooperatives predict crop yields and optimize supply chains.
- 4. **Automation:** Automation of routine tasks. such as billing, payroll, and inventory management, reduces manual workload and minimizes errors. Cooperatives can use automated systems to track inventory, manage member records, and handle financial transactions efficiently.
- **5. Cloud Computing:** Cloud-based solutions offer scalable and cost-effective options for data storage, software applications, and collaborative tools. Cooperatives can use cloud computing to improve data accessibility, reduce IT costs, and enhance disaster recovery capabilities.
- Internet of Things (IoT): IoT devices 6. can be used in agriculture to monitor soil conditions, weather patterns, and crop health in real-time. This technology can help agricultural cooperatives optimize their farming practices, reduce waste, and increase productivity.
- 7. Artificial Intelligence (AI) and Machine Learning (ML): AI and ML can be leveraged for predictive analytics, and improving decisionautomation, making processes. For example, AI can be



- used to analyze market trends and predict member needs, while ML can enhance customer service through chatbots and personalized recommendations.
- 8. Cybersecurity: As cooperatives adopt digital tools, ensuring data security and protecting against cyber threats becomes paramount. Implementing robust cybersecurity measures, such as encryption, firewalls, and regular security audits, is essential to safeguard sensitive information and maintain member trust.

Enhancing Member Engagement

Member engagement is crucial for the success of cooperatives. Engaged members are more likely to participate in cooperative activities, utilize services, and contribute to the organization's growth.

- 1. Communication Channels: Establishing effective communication channels, such as newsletters, social media, and community forums, keeps members informed and involved. Amul's use of digital marketing and social media to engage with members and consumers alike is a notable example.
- 2. Education and Training: Providing education and training programs for members enhances their skills and understanding of cooperative principles. This can include financial literacy, agricultural best practices, or digital literacy programs, helping members to better engage with the cooperative.
- **3. Member Services:** Expanding and improving the range of services offered to

- members can increase engagement. For example, many agricultural cooperatives provide not only input supplies but also advisory services, marketing support, and access to credit, ensuring comprehensive support to their members.
- 4. Member Recognition and Rewards:
 Recognizing and rewarding active and loyal members can boost engagement and loyalty. This can include awards, discounts, or special privileges for members who contribute significantly to the cooperative's success.
- Feedback Mechanisms: Implementing regular feedback mechanisms, such as surveys and suggestion boxes, allows members to share their opinions and ideas. This not only helps the cooperative improve its services but also makes members feel valued and heard.
- 6. Inclusive Decision-Making: Ensuring that all members, regardless of their position or status within the cooperative, have a say in important decisions fosters a sense of ownership and commitment. This can be achieved through democratic voting processes and transparent decision-making practices.

Implementing Best Practices

Adopting best practices from successful cooperatives can provide valuable lessons and frameworks for others to follow.

1. Case Studies and Benchmarking: Studying successful cooperatives like Amul, SEWA (Self-Employed Women's



Association), and IFFCO can offer insights into effective practices in governance, member engagement, and operational efficiency. Benchmarking against these models can help cooperatives identify areas for improvement.

- 2. **Collaboration** and **Networking:** Encouraging collaboration among cooperatives lead shared can resources, knowledge exchange, and collective problem-solving. Federations of cooperatives, such as the National Federation of State Cooperative Banks (NAFSCOB), play a pivotal role in fostering such collaborations.
- 3. Government Support and Policies:
 Leveraging government schemes and policies designed to support cooperatives is essential. Initiatives like the National Cooperative Development Corporation (NCDC) provide financial and technical assistance to cooperatives, promoting their growth and sustainability.
- 4. Sustainability and Innovation: Embracing sustainable practices and innovation is key to long-term efficiency. Cooperatives can adopt environmentally friendly practices, explore renewable energy options, and invest in sustainable agricultural techniques. Innovation in products and services can also attract more members and enhance competitiveness.
- 5. Financial Management: Implementing sound financial management practices, including budgeting, financial planning, and regular audits, ensures financial stability and transparency. Cooperatives should also

- explore diverse funding sources, such as member contributions, government grants, and partnerships with private entities.
- 6. Professional Management: Hiring professional managers with expertise in cooperative management, business administration, and relevant industries can enhance operational efficiency. These professionals can bring in new perspectives and implement best practices to drive growth and success.

Overcoming Challenges

While striving for efficiency, Indian cooperatives must navigate various challenges, including financial constraints, lack of technical expertise, and socio-political factors.

- 1. Financial Constraints: Limited access to capital can hinder the adoption of advanced technologies and infrastructure. Cooperatives can explore diverse funding sources, including government grants, member contributions, and partnerships with private entities.
- 2. Technical Expertise: Building technical expertise within the cooperative is crucial for effective technology adoption and management. Collaborating with educational institutions and technology partners can provide the necessary skills and knowledge.
- 3. Regulatory Environment: Navigating the regulatory landscape requires understanding and compliance with laws governing cooperatives. Advocacy for supportive policies and active engagement



- with policymakers can help create a more conducive environment for cooperative growth.
- 4. Cultural and Social Barriers: Addressing cultural and social barriers that may hinder member participation and engagement is essential. This includes promoting gender equality, inclusivity, and addressing any biases or prejudices within the cooperative.
- 5. Adapting to Market Changes:
 Cooperatives must stay agile and adapt to changing market conditions and member needs. This requires continuous market research, innovation, and flexibility in operations and service offerings.

Case Studies and Examples

Learning from successful cooperative models can provide practical insights and strategies for improving efficiency.

- 1. Amul Dairy Cooperative: Amul's success story is a testament to the power of cooperative principles and effective management. By adopting the Anand pattern of dairy development, Amul created a robust supply chain that empowered dairy farmers, ensured fair pricing, and provided high-quality products to consumers. The cooperative's use of technology, such as ERP systems and digital marketing, has further enhanced its efficiency and market reach.
- 2. SEWA (Self-Employed Women's Association): SEWA is a remarkable example of a cooperative that empowers marginalized women through self-employment opportunities, financial

- services, and capacity-building programs. By providing a range of services, including microfinance, healthcare, and education, SEWA has improved the livelihoods of its members and enhanced their socioeconomic status.
- 3. IFFCO (Indian Farmers Fertiliser Cooperative Limited): IFFCO is a leading example of an agricultural cooperative that has achieved significant success through innovation and strategic planning. By investing in research and development, adopting advanced technologies, and expanding its product range, IFFCO has become a major player in the fertilizer industry, supporting millions of farmers across India.

Future Trends and Opportunities

As the landscape of cooperative organizations continues to evolve, staying ahead of trends and exploring new opportunities is essential for sustaining efficiency and growth.

- digital transformation: The ongoing digital transformation presents numerous opportunities for cooperatives to enhance their operations, member engagement, and service delivery. Embracing emerging technologies such as blockchain, artificial intelligence, and big data can drive innovation and efficiency.
- 2. Sustainable Practices: With increasing awareness of environmental issues, cooperatives can lead the way in adopting sustainable practices. This includes promoting organic farming, renewable



- energy, and eco-friendly products and services.
- 3. Inclusive Growth: Focusing on inclusive growth by addressing the needs of marginalized and underserved communities can enhance the social impact of cooperatives. This involves creating tailored programs and services that cater to the specific needs of these groups.
- 4. Global Collaboration: Expanding collaborations with international cooperative organizations and networks can provide access to new markets, resources, and best practices. This global perspective can help Indian cooperatives stay competitive and innovative.
- 5. Policy Advocacy: Engaging in policy advocacy to influence government policies and regulations in favour of cooperatives can create a more supportive environment for their growth. Cooperatives can work collectively to represent their interests and drive policy changes.

Conclusion

ooperative activities which are the foundation of the community's economic strength are needed in the context of development, where the end of these activities is the achievement of community welfare in both micro and macro contexts. Cooperatives as an activity consisting of members and cooperative management itself is engaged in fulfilling the needs of life that can be consumed by the community so that the benefits can be

felt by members and cooperative management, which leads to an increase in community welfare. Cooperatives have a role in advancing the economy of society at large, besides that cooperatives also play a role in improving the welfare of cooperative members and cooperative management. Cooperatives need to improve institutional quality and competitiveness in order to compete so that cooperatives have a strategic role to activate the community's economy. Currently, cooperatives are faced with two main challenges. First, improving the institutional and management quality of cooperative units. To advance the community's economy, cooperatives need to create productive activities so that the products produced will be purchased by the community so as to provide benefits to the cooperative, of course, with these benefits will improve the economy of cooperative members who are part of the community.

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Introduction to Cooperatives

A cooperative is «an autonomous association of persons united voluntarily to meet their common economic, social and cultural needs and aspirations through a jointly owned and democratically-controlled enterprise". Cooperatives are democratically controlled by their members, with each member having one vote in electing the board of directors. They differ from collectives in that they are generally built from the bottomup, rather than the top-down. Cooperatives may include:

- 1. Worker cooperatives: businesses owned and managed by the people who work there
- 2. Consumer cooperatives: businesses owned and managed by the people who consume goods and/or services provided by the cooperative
- 3. Producer cooperatives: businesses where producers pool their output for their common benefit
- 4. Purchasing cooperatives where members pool their purchasing power
- 5. Multi-stakeholder or hybrid cooperatives that share ownership between different stakeholder groups. For example, care cooperatives where ownership is shared between both care-givers and receivers. Stakeholders might also include non-profits or investors.
- 6. Second- and third-tier cooperatives whose members are other cooperatives

Role of ICT in improving effectiveness of Cooperative



ANJALI ARORA
MBA in Business Analytics
Ist Year (Manipal University-Jaipur)



7. Platform cooperatives that use a cooperatively owned and governed website, mobile app or a protocol to facilitate the sale of goods and services

Cooperative Principles

One of the ways cooperatives differ from other business structures is their adherence to cooperative principles and values that reflect social, political, and business concerns. Cooperatives trace the roots of these principles to the Rochdale pioneers, who established the first modern cooperative in Rochdale, England in 1844. These principles have been refined, adapted, and reinterpreted over time. The seven principles used by the International Cooperative Alliance today are generally accepted by cooperatives worldwide.

Cooperatives are also based on the values of selfhelp, self-responsibility, democracy, equality, equity, and solidarity. Cooperative members believe in the ethical values of honesty, openness, social responsibility, and caring for others.

- 1. Voluntary and Open Membership:
 Cooperatives are voluntary organizations,
 open to all people able to use their services
 and willing to accept the responsibilities of
 membership, without gender, social, racial,
 political or religious discrimination.
- 2. Democratic Member Control:

 Cooperatives are democratic organizations controlled by their members those who buy the goods or use the services of the cooperative who actively participate in setting policies and making decisions.

- 3. Member Economic Participation:

 Members contribute equally to, and democratically control, the capital of the cooperative. This benefits members in proportion to the business they conduct with the cooperative rather than on the capital invested.
- 4. Autonomy and Independence:

 Cooperatives are autonomous, self-help organizations controlled by their members.

 If the co-op enters into agreement with other organizations or raises capital from external, it is done so based on terms the ensure democratic control by the members and maintains the cooperative's autonomy.
- 5. Education, Training and Information:
 Cooperatives provide education and training
 for members, elected representatives,
 managers and employees so they can
 contribute effectively to the development of
 their cooperative. Member also inform the
 general public about the nature and benefits
 of cooperatives.
- 6. Cooperation among Cooperatives:

 Cooperatives serve their members most effectively and strengthen the cooperative movement by working together through local, national, regional and international structures.
- 7. Concern for Community: While focusing on member needs, cooperatives work for the sustainable development of communities through policies and programs accepted by the members.



What are Cooperative values

The cooperative values serve as guidelines for all co-op organizations and their members. There are six main cooperative values:

- 1. Self-help: Co-ops are geared towards creating a community where every member benefits equitably. To accomplish this ideal, members need to help themselves while also helping each other.
- 2. Self-responsibility: Much of the cooperative ideology is based on the idea that each individual member is individually responsible within the group. They should be responsible and play their part on their own, without the need for external motivation or incentive.
- 3. Democracy: Democratic structure is crucial to running a successful cooperative. The organization exists so that all members have control, and no one individual holds more power than the others. Members choose representatives by way of voting, and each individual has one vote per election.
- **4. Equality:** Each member of a cooperative should benefit from the same rights, based on their level of contribution.
- **5. Equity:** Cooperative organizations should treat all members fairly, without any form of discrimination. Equity is essential to creating a harmonious relationship among all members.
- 6. Solidarity: The members within a cooperative form a unified organization where all the individuals support one

another. Each organization also supports other cooperatives to form a united network.

Historical Context and Evolution of Cooperatives in India

1. Early Roots of Cooperatives in India

• Traditional Cooperative Practices:

Before the formal cooperative movement began, India had traditional systems of mutual aid and collective effort, such as village panchayats and community-based labour sharing practices in agriculture.

2. Colonial Period and Initial Legislation

- Cooperative Credit Societies Act, 1904: The formal cooperative movement in India started during the British colonial period with the enactment of the Cooperative Credit Societies Act, 1904. This legislation aimed to address the problems of rural indebtedness and provided a legal framework for the formation of cooperative societies.
- Expansion of the Cooperative Model:

 The success of early cooperative credit societies led to the Cooperative Societies Act, 1912, which extended the cooperative model to other areas such as agriculture, consumer goods, and housing.
- 3. Post-Independence Era and Institutional Growth
 - Government Support and Five-Year



Plans: After gaining independence in 1947, the Indian government recognized the potential of cooperatives in socioeconomic development. Cooperatives became a key component of the Five-Year Plans, which provided support and resources for their growth.

• Formation of National Cooperative Development Corporation (NCDC): In 1963, the NCDC was established to promote and finance cooperative development, particularly in rural areas. The NCDC played a crucial role in strengthening cooperatives in agriculture, dairy, and other sectors.

4. White Revolution and the Dairy Cooperative Movement

- Operation Flood: Launched in 1970,
 Operation Flood, also known as the
 White Revolution, transformed India
 into the world's largest milk producer.
 Spearheaded by the National Dairy
 Development Board (NDDB) and
 Dr. Verghese Kurien, this initiative
 leveraged the cooperative model to
 establish a national milk grid.
- Anand Pattern: The success of dairy cooperatives in Gujarat, particularly the Anand model led by the Gujarat Cooperative Milk Marketing Federation (GCMMF) and its brand Amul, became a blueprint for dairy cooperatives across India.

5. Diversification and Modernization

• Expansion into Various Sectors:

Over the decades, the cooperative movement in India diversified into sectors such as agriculture, banking, housing, textiles, and consumer goods. Agricultural cooperatives, like IFFCO and KRIBHCO, played a pivotal role in providing inputs and services to farmers.

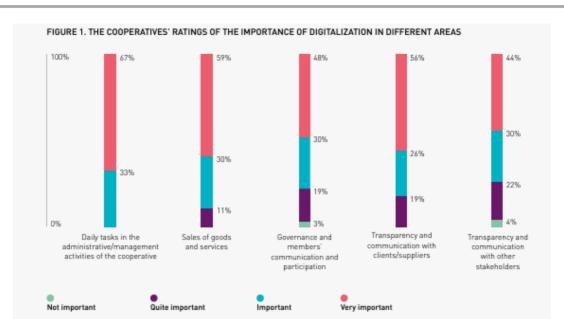
• Technological Adoption: In recent years, cooperatives have increasingly adopted technology to improve efficiency and service delivery. For example, cooperative banks have implemented digital banking solutions to enhance financial inclusion.

Importance of ICT in Cooperatives

In the rapid transformation of the economy, digitalization* is assuming a key strategic function in enterprises. It is pervasive in all areas of activity in large, small, and micro enterprises and affects the entire value chain cycle of products and services. Information and Communication Technologies (ICTs) are defined as technologies that facilitate communication and the processing of information by electronic means, and include everything from: radio, satellite, television to telephones, computers and the Internet.

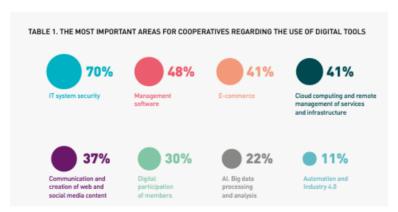
Through fully utilizing ICTs cooperatives can cultivate new markets by reaching out to different customer bases on the web, they can keep up-to-date with developments and new innovations and receive training remotely. ICTs can help transform the management of co-ops by improving management practices, financial information and reporting and records management as well as create an online presence.





The benefits of ICTs to cooperatives are numerous. These improvements help increase efficiency and lower operating costs.

- Enhancing Efficiency: Proper IT infrastructure streamlines operations, reduces manual effort, and improves accuracy in cooperative management.
- Facilitating Communication: Effective IT systems enhance communication among members, management, and other stakeholders.
- **Supporting Decision-Making:** Advanced data analytics and management tools help cooperatives make informed decisions based on real-time data.



Agricultural Cooperatives and ICTs

Cooperative members' access to and use of technologies should be improved, in order to increase their efficiency. Ultimately, they can help in achieving poverty reduction and fulfill social development



goals. Evidence from the ground shows that when strong rural organizations such as POs (Producers Organizations) and cooperatives provide a full range of services to small producers, they are able to play a greater role in meeting a growing food demand on local, national and international markets.

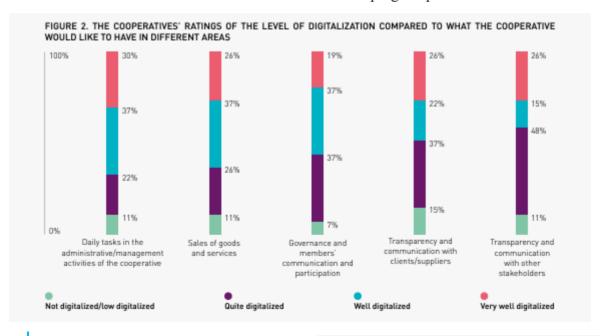
The types of services offered can be grouped into 4 main categories: enhanced access to and management of natural resources, access to input and output markets, improved access to information, knowledge and capacity building, and enhanced voices in policy making. In particular agricultural cooperatives can function more efficiently by using ICTs and providing a series of benefits to members, such as:

- Enhanced connections between members: through cooperatives, farmers share market information and technical know-how, and they remain informed about the cooperative's activities.
- Improved accounting and administration:

farmer cooperatives are often responsible for handling very large amounts of money that may represent the cash income of thousands of farm families.

• Efficient record keeping allows a cooperative to serve its members better, and the transparency offered by computerization and other technologies enhances trust.

At the same time as the processes of digitisation of cooperative organisations are being generated, we must be particularly careful about the tools we choose to use. The digital media that facilitate the flow of information are not disconnected from the business logic present in society, and in this sense the question arises as to how to encourage the use and development of technology that contains cooperative values from the outset. With common needs, large cooperatives can think of inter cooperation as the answer to develop technology that fits their needs and values. Sharing governance and the software itself strengthens the whole movement and makes resources available to developing cooperatives.





Cooperatives that have invested in modern management and member information systems can improve their image to attract high-quality staff and gain members' trust and confidence. Introduction to IT Infrastructure

Implementing IT Infrastructure in Cooperatives

- Needs Assessment: Conducting a thorough needs assessment to understand the specific IT requirements of the cooperative based on its size, scope, and operational complexity.
- **Budget Planning:** Allocating a budget for IT investments, including initial setup costs and ongoing maintenance expenses.
- Training and Support: Providing training to staff and members on using new hardware and software effectively, and establishing support mechanisms for troubleshooting and maintenance.
- Scalability and Flexibility: Choosing scalable IT solutions that can grow with the cooperative and adapt to changing needs.

Challenges in IT Infrastructure Implementation

- **Financial Constraints:** Limited budgets can hinder the ability to invest in advanced IT infrastructure.
- **Technical Expertise:** Lack of technical knowledge among staff and members can slow down IT adoption and integration.
- **Data Security and Privacy:** Ensuring the security of sensitive data and compliance with

- privacy regulations is crucial but challenging.
- Maintenance and Upgrades: Regular maintenance and timely upgrades are essential to keep the IT infrastructure functional and up-to-date.

Case Studies and Examples

- Amul Dairy Cooperative: Implementation of an ERP system to manage milk procurement, processing, and distribution efficiently.
- IFFCO (Indian Farmers Fertiliser Cooperative Limited): Use of data analytics and mobile applications to streamline operations and enhance member services.

Future Trends in IT Infrastructure for Cooperatives

- Cloud Computing: Increasing adoption of cloud-based solutions for scalability, cost-effectiveness, and remote accessibility.
- Internet of Things (IoT): Utilizing IoT devices for real-time monitoring and management of agricultural activities and supply chains.
- Artificial Intelligence (AI) and Machine Learning: Leveraging AI for predictive analytics, automation, and improving decision-making processes.

Need for Cooperative Management Information Systems (CMIS)

As the ambit of cooperatives has widened over the years, Cooperative Management Information



Systems (CMIS) have become essential tools for managing operations, enhancing collaboration, and driving organizational efficiency. By leveraging technology, these systems streamline data management, facilitate communication among cooperative members, and support decision-making.

What are The Benefits?

- Enhanced Communication and Collaboration: Besides improving information sharing and interaction among cooperative members, CMISs provide a digital platform for communication and collaboration.
- Streamlined Process Automation and Efficiency: The CMIS automates various processes within a cooperative organization, including member registration, inventory management, and financial transactions.
- Improved Decision-Making and Strategic Planning: Using real-time data and advanced analytics enables cooperative organizations to make informed decisions and develop effective strategic plans.
- Data Security: To protect sensitive member information and financial data, CMIS employs robust security measures. As a result, unauthorized access and data breaches are prevented.
- Scalability: Due to its scalability, CMIS is suitable for cooperatives of all sizes. CMIS can be adapted to meet the specific needs of any organization, be it a small agricultural cooperative or a large urban credit union.

Knowing The Underlying Challenges

- Financial and Resource Constraints: Budget and capacity considerations need to be taken into account by cooperative organizations when implementing, training, and maintaining a new system.
- Data Security and Privacy Concerns:
 Cooperative organizations handle sensitive data, so data security and privacy are critical considerations.
- Resistance to Change and User Adoption: Introducing a new system often requires more support from users who are accustomed to existing processes. Cooperative organizations should address user concerns.
- Strategic Investment: Investing in robust IT infrastructure is essential for cooperatives to enhance operational efficiency, improve member services, and remain competitive. Continuous Improvement: Ongoing assessment, training, and upgrading of IT systems ensure that cooperatives can adapt to technological advancements and evolving member needs.

NCDC provides assistance for computerization projects in the cooperative sector: In this era of Information Technology, computerization is an essential aspect for smooth functioning of any organization. NCDC provides assistance for computerization projects in the cooperative sector. Assistance is provided to cooperatives from Primary level to States/ National level, to install the computers and evolve effective Management Information Systems, either directly or through State Governments.



Eligible Cooperative Societies: NCDC provides assistance to primary, district and state level cooperatives, either directly or through State Governments.

Activities Assisted: For development of modern IT and related infrastructure such as Data Center, Data Recovery Center, enterprise level network, network security, storage solution, CBS, ATMs, POS machines, e-lobby with kiosk etc for better business decision making.

Mode of Funding: Financial assistance is provided through the State Govt. or directly to the eligible cooperatives.

Quantum of Assistance and Pattern of Assistance:

- Financial assistance is provided through the State Govt. or directly to the eligible cooperatives.
- Federation/Society, having turnover of ₹.1.00 crore or more in the preceding year, may apply through the State Govt. or for Direct Funding to the NCDC Head Office/Regional Offices.

Norms for direct funding: Cooperatives operating for minimum three years & broadly fulfilling following criteria are eligible:

- Net worth should be positive
- There should be no erosion in share capital.
- Cash profit in last three years and net profit in two years.
- Should be in a position to provide 1.25 to 1.5 times security

Conclusion

ooperatives must digitize if they want to navigate the shifting environment. They could be able to provide financial services through conventional means and physical locations. However, this may not be useful in retaining important clientele that prefers simple and digital operations in the future. At present, cooperatives rely on close relationships with their clients and members. Although trust and relationships with stakeholders are important, they may not be enough to attract the current generation to financial services.

ICTs can change the way cooperatives work and bring vast benefits especially in agriculture. Cooperatives providing access to information such as crop cycles, localized weather reports, farming methods and local markets, available online or direct via text message, is just one example of how innovative ICT use can revolutionize the day-to-day functioning of cooperatives and benefit members.

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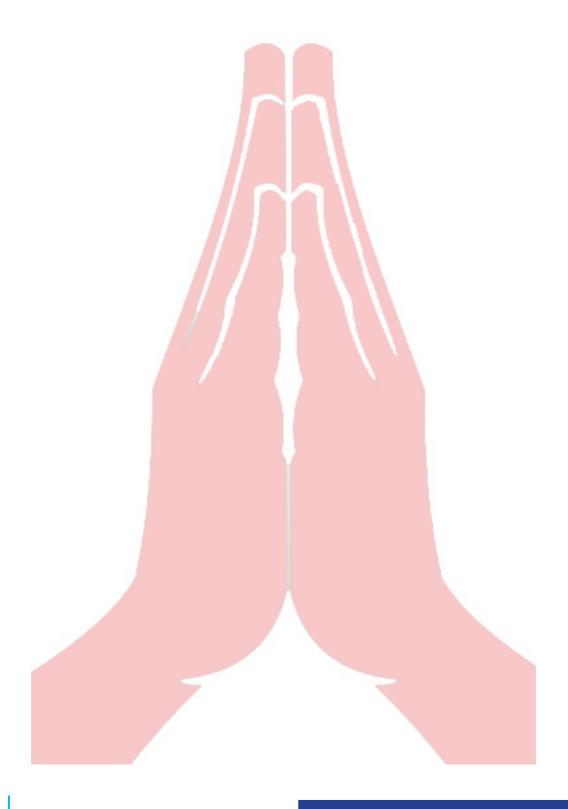
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Cooperative Development Board Webinar Highlights

he Cooperative Development Board regularly conducts webinars for promoting and disseminating professional knowledge in the field of the cooperatives. This is a regular feature of the CDB and has participation from not only our members and students but stakeholders at different levels from the Cooperative Societies of the country as well.

Our few recent webinars conducted this year are enlisted below:

Month	Торіс	Speaker
14 th August 2024	Empowering Communities: The Future of Small-Scale Cooperatives in a Sustainable World	Dr. Madhukar Sharma Head, Center for International Relations and Governance, Maharashtra National Law University, Nagpur
11 th September 2024	Leadership Effectiveness and Good Governance in Cooperative World	Dr. Pranab Baishya Faculty Member, ICM (Guwahati)
26 th September 2024	The Cooperative Training Framework and its Significance in Indian Economic Development	Prof. KSS Michael Director, Institute of Cooperative Management, Madurai
4 th October 2024	Branding and Marketing of Cooperative Products	Dr. S.K. Gupta MD, ICMAI Registered Valuers Organization CEO, ICMAI Social Auditors Organization COO, ICMAI International ADR Chamber
28 th October 2024	Leveraging Budgetary Control for Enhancing Performance of Cooperatives	Dr. S.K. Gupta MD, ICMAI Registered Valuers Organization CEO, ICMAI Social Auditors Organization COO, ICMAI International ADR Chamber
8 th November 2024	Transforming Cooperatives through Innovations	Dr. S.K. Gupta MD, ICMAI Registered Valuers Organization CEO, ICMAI Social Auditors Organization COO, ICMAI International ADR Chamber



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