Prospects of Modern Banking Practices in Rural Economy of India

-A Study Making a Way towards Reality of the Dream of Cashless Economy of India, With Special Reference to The Semi Hilly Districts of Lower Himachal Pradesh

Rohit Kanda¹, Harish Handa², G.S. Bhalla³, Bharti Singh⁴

 ¹Dr. Rohit Kanda, UGC Funded Research Fellow, Department of Commerce, Guru Nanak Dev University, Amritsar (PB.) Former HoD-MBA and Assistant Professor, Department of Business Management, Indus International University (IIU), Una (Himachal Pradesh)
²Dr. Harish Handa, Teacher in Charge (Head) and Associate Professor, Department of Commerce, Shaheed Bhagat Singh College, University of Delhi, New Delhi, India.
³Prof. (Dr.) G.S. Bhalla, Senior Professor, Department of Commerce, Guru Nanak Dev University, Amritsar (PB.)
⁴Ms. Bharti Singh Head and Assistant Professor, Department of Business Management, Indus International University (IIU), Una (Himachal Pradesh)

Abstract: India, on an edge of major change towards an unprecedented economic growth along with robust advancements in the nation's HDI, having a round 65% of its population aged below 35years and will add almost 10-12millionmore to it every year incoming two decades. Urban India has 137 million Internet users, whereas rural has 68million, growing by 58% each year. Increasing smart phones and 3G subscriptions are further strengthening it. The statistics motivates us towards the infusion of the idea of effective utilisation of modern banking practices especially associated with mobile and internet in rural India, marching towards the fulfilment of dream of a cashless India by Modi Government in near future. But there are many structural problems which needs to be considered and resurrected with very hard efforts. Only our youth is well versed or is learning the modern banking effectively. Apart the recent outcomes of the scenario in the recent demonetization, where only educated or at least mobile and smart technologies savvy retailers were able to offer the epayment mode, such as Paytm and a large old aged and mid aged segment was unable to do so and reworked for other make to use alternatives, was not much answerable as a positive feedback. Further the facilities in the rural regions, especially remote ones is well away from even basic facilities and other such related problems. Hence a study has been conducted in the lower region of Himachal Pradesh, which is a rural area quite in cut from its even nearby metros, with a lack or a minimal facility of resources in general and least connectivity in particular. The area has hardly found to be touched with the help of a grass root study. 102 respondents (51 Young Aged and they referred 51 Middle Aged) have been taken as sample from the region of Lower Himachal Pradesh and Adjoining Districts of other adjacent States using Snowball Sampling Technique. As per the study interpretations, middle aged is more purported to use the modern banking measures

for its personal as well as business usage, being them more involved in Handling of funds. The main problems faced by rural and remote region in using cash less transactions include Location and such other problems. Hence, Banking entities operating or planning to expand their business in the region, to offer its modern banking solutions need to enhance its branch network or may utilize the services of channel partners to better serve its remotely located customers. Further, they need to condition their employee base to the needs of locale. Network connectivity issues may be sorted by a mixed initiative by government and corporate, as it will enhance business as well.

Keywords: Modern Banking and Connectivity Issues, The Cashless Economy and Reality.

1. INTRODUCTION

India having 137 million Internet users in Urban and 68 million in rural, is growing by 58% each year. This motivates us towards the infusion of modern banking practices especially associated with mobile and internet in rural India, marching towards the fulfillment of dream of a cashless India, subjecting to many structural problems it has. It is a general belief that our youth is well versed with the modern banking effectively. The recent outcomes of the scenario in the recent demonetization have many things to say. On 8 November 2016, the Government of India announced the demonetisation of all Rs. 500 (US\$7.40) and Rs.1,000 (US\$15) banknotes of the Mahatma Gandhi Series. [12] The government claimed that the action would curtail the shadow economy and crack

down on the use of illicit and counterfeit cash to fund illegal activity and terrorism.[13][14]. The sudden nature of the announcement and the prolonged cash shortages in the weeks that followed created a significant disruption throughout the economy. [15][16][17][18]. In the announcement, Modi declared that use of all Rs.500 and Rs.1000 banknotes would be invalid past midnight, and announced the issuance of new Rs.500 and Rs.2000 banknotes in exchange. SENSEX and NIFTY fell over 6 percent next day.[19]India faced severe cash shortages with severe detrimental effects across the economy.[20][21][22] People seeking to exchange their bank notes had to stand in lengthy queues, and several deaths were linked to the inconveniences caused due to the rush to exchange cash.[23][24]It was heavily criticised by members of the opposition parties, leading to debates in both houses of parliament.[25][26][27] The Indian Supreme Court while hearing one among a slew of cases filed against the sudden demonetization decision in various courts, [28] observed that it "appears to be carpet bombing and not surgical strike".[29] Amartya Sen, severely criticised the demonetisation move calling it a "despoticaction".[30][31] Former Sr. VP and Chief Economist - World Bank, Kaushik Basu, called it a 'major mistake'.[32][33][34] Pronab Sen, former Chief Statistician and Planning Commission India member, called it a "hollow move".[35] Prabhat Patnaik, a former professor JNU called the move' witless' and 'anti people'.[36]Noted economist and journalist, T. N. Ninan wrote in the Business Standard that demonetisation 'looks like a bad idea, badly executed on the basis of some half baked notions'.[37] Deepak Parekh (Chairman of HDFC) had initially appreciated the decision, but later said that the move had derailed the economy.[38][39]Industrialist Rajiv Bajaj criticised the demonetisation, saying that the concept of demonetisation was wrong in itself.[40]Chief Ministers of several Indian states[41][42][43]have criticised and led major protests against causing hardships to common.[44]A PIL filed in Madras High Court by GS Indian National League, got dismissed by HC stating that it could not interfere in monetary policies of the government.[45] Similar PILs were also filed in the Supreme Court.[46] Several government ministers had declared before the demonetisation that they were holding large amounts of cash.[47][48]Steve Forbes described the move as 'Sickening And Immoral'.[49] He stated that "What

India has done is commit a massive theft of people's property without even the pretense of due process a shocking move for a democratically elected government."[49]Nobel laureate Paul Krugman said that there may be significant costs to it.[50]The demonetisation also came in for sharp criticism from media outside India,[51][52] with the New York Times saying that the demonetisation was "atrociously planned" and that it did not appear to have combatted blackmoney, [53][54] while an article in The Guardian stated that "Modi has brought havoc to India".[51]The Harvard Business Review called it "a case study in poor policy and even poorer execution"[55] The frequent change in the narrative on objectives of the demonetisation to its visible impact on the poorest of the poor made other critique scalling government's narrative as spins in view of the "pointless suffering on India's poorest."[56]Global analysts cut their forecasts of India's GDP growth rate due to demonetisation.[57][58] India's GDP in 2016 estimated to be US\$2.25 trillion, hence, each 1 per cent reduction in growth rate represents a shortfall of US\$22.5 billion (Rs. 1.54 lakh crores) for the Indian economy.[59] According to Societe Generale, India's quarterly GDP growth rates may drop below 7% for an entire year at a stretch for the first time since June 2011.[60]There was a reduction in industrial output as industries were hit by the cash crisis.[61]There was a slowdown in both manufacturing and services industries.[62] The PMI report showed that the reduction in inflation in November was due to shortage in money supply.[61]The growth in eight core sectors such as cement, steel and refinery products, was only to 4.9 percent in November as compared with 6.6 percent in October.[62][63]The recent outcomes of the scenario in the recent demonetization was not much answerable as a positive feedback. Further the rural regions, especially remote ones are well away from even basic facilities and other such related problems much drastically faced it. Hence a study is conducted in the lower region of Himachal Pradesh, which is a rural area quite in cut from its even nearby metros, with a minimal facility of resources in general and least connectivity in particular.

2. LITERATURE SURVEY

As per the literature cited, no exactly relevant Literature is available, but related studies that are relevant to the subject, are mentioned as follows:

Author (Year)	Title	Instrument	Technique	Conclusion	Recommendations	Further Scope
Sukanya (2016)	and Prospects of Retail Banking in India	Analysis, Time Series: 2004-2013	Comparative and Ratio Analysis,	the level of economic activity in the country resulting in higher rates of economic growth of	taken to ensure that the retail loans lent by the banks are serviced and repaid according to schedule so not resulting in increasing bad debts and	measures on retail loan processing and handling can be
Banerji (2016)	Demonetizati	Data	and Post	serving in rural and semi-	It is expected to enhance the liquidity position of banks, which can be leveraged for lending purposes.	measures need to be

Title	Instrument	Technique	Conclusion	Recommendations	Further Scope	
		of various techniques.	primarily driven by cash			
Computerizat ion in banks -some issues	litigants questionnaire s) and Secondary	Study: Pre and Post Availability of various	fundamental changes in the banks. We have initiated ourselves in the next course and touched	be rooted in the software used by banks. Regular quest for improvement to perform	may be conducted to enhance the betterment of the e-	
	2010-2014	Comparative Study: Two Period Availability of various techniques.	awareness among consumers about e- banking are acting as hurdle in the adoption of	with various government agencies may make an effort to make e-banking more safe,	Studies may be focused on factors which influence the consumer intention to adopt internet banking services.	
Cash vs Digital Money	data,	Secondary Data Analysis				
but cashless economy is	data, Timeline till	Time Series / Comparative Analysis	citizens of India are ready to move into cash less state nor the implementers and other fin tech operators are	broader markets in India that the Indian government may come up with more relevant measures to reduce black money and also encourage digital transactions in the	measures to tackle black money can be	
present	data,	Secondary data Analysis	E-banking has posed several challenges to the regulators and supervisors	With networking and inter connection, new problems are taking place related to security, privacy and confidentiality to e-banking transactions.	with regard to tackle such new technical	
Emerging Trends in the Indian Banking Sector- Challenges & Opportunitie s	Secondary Data, Timeline 2007-2012	emerging trends of financial services in India, Time	sector today is the Indian costumers. Demographic shifts in terms of income level and cultural shifts in terms of life style aspirations are changing	strategy in terms of Innovative banking services is required in order to focus on the untapped population in the rural areas. Provision of better Telecommunications network facilities are of prime	Wide coverage of Financial Literacy taking the mentality of the rural Indians into considerations should be customarily formulated.	
Demonetizati on and its impact - Event Update	2019	Secondary data analysis Secondary	Banking and Infrastructure. It could be negative for sectors like Consumer Durables, Luxury items, Gems and Jewellery, Real Estate and allied sectors.	The government may also get enough headroom to reduce the income tax rates, which can lead to higher disposable income with people and can improve consumption demand	Other alternatives to increase the disposable income can be looked for. Other effective	
	Computerizat ion in banks -some issues -some issues -some issues -some issues -some issues -some issues -some issues 	Linernet Banking: opportunitie and some issuesPrimary (79) litigants questionnaire s) and Secondary DataInternet Banking: Challenges and ContextSecondary dataInternet Banking: Challenges and Opportunitie S in IndianSecondary dataOpportunitie ContextSecondary data, Time Series: 2010-2014Cash Vs Digital MoneySecondary data, Timeline till 2019Demonetisati on is the tool but cashless economy is the goal of IndiaSecondary data, Timeline till 2019E-banking in India and its scenario and future prospectsSecondary data, Timeline till 2019Emerging Trends in the Indian Banking Sector- Challenges & Opportunitie sSecondary data, Timeline 2007-2012Demonetizati on and its impact EventSecondary data, Timeline 2007-2012	Ommentizati on in the some issuesPrimary Primary (79 (79 (79 (79 Study: Pre and Post sound) Study: Pre and Post (79)))Internet Banking: ContextSecondary data (79 (79))Comparative Study: Two Period Availability of various techniques.Cash Opportunitie s in India (79)Secondary data, Timeline till 2019Secondary Data AnalysisDemonetisati on is the tool prospectsSecondary data, Timeline till 2019Secondary data AnalysisE-banking in IndiaSecondary data, Timeline till 2019Secondary data AnalysisEmerging Trends in the Indian Banking Sector- Challenges & Opportunitie sSecondary data, Timeline till 2019Demonetizati on and its s two the total sSecondary data, Timeline 2019Demonetizati on and its s two typeSecondary data, Timeline 2019Demonetizati on and its s two typeSecondary data, Timeline 2019Demonetizati on and its s two two two totalSecondary data, trends of Secondary data, Timeline 2019Demonetizati on and its two two two two<	ofvarioustownswhosemarketsComputerizati (on in banks s-some issuesPrimary (79 Primary (79Comparative Study: Pre fundamental changes in initiated ourselves in the scondary DataTechnology is the one which is subjected to and hasInternet Banking: Challenges and Analysis, rime Series: s in IndiaSecondary data Analysis, time Series: of various Analysis, time Series: s in IndiaComparative scondary data Analysis, time Series: s in IndiaComparative scondary data Analysis, time Series: of various techniques.Secondary eriod Analysis, techniques.Secondary eriod Analysis, techniques.Cashvs Secondary timeline till Digital MoneySecondary time Series/ tontextSecondary time Series/ techniques.Time Series/ techniques.Demonetisati on is the tool Secondary tut cashless data, reading in India and its scenario and fiture prospectsSecondary timeline till tess scenario and timeline till toma scenario and timeline till Data, terkesNeither tess state tess t	of various towns whose markets primary (79 Comparative masactions, are most Computerizat Study: Price Technology is the one which is subjected to and digital certification are few which is subjected to and subject to and subj	

Author (Year)	Title	Instrument	Technique	Conclusion	Recommendations	Further Scope
	g demonetizati on	data, Timeline till 2019	data analysis	e e .	to address the issue of black money in the long run.	measures to tackle black money can be suggested.
Jayachandran (2016)	Making India a cashless economy	Secondary data, Timeline till 2019	Secondary data analysis	A meaningful transition will depend on a number of things such as awareness, technological developments and cashless economy will depend on a number of factors, such as availability and quality of telecom network, improved security and ease of transaction and incentivize cashless transactions and discourage cash payments.	A shift away from cash will make it more difficult for tax evaders to hide their income, a substantial benefit in a country that is fiscally constrained.	Other stable and effective measure to tackle black money can be suggested.
	Challenges and Prospect of E-Banking in Ethiopia	primary and secondary qualitative data - E- banking	using descriptive	the bank Cost reduction, coverage of wide geographical area, customer satisfactions	Commitment of the government to facilitate the expansion of ICT infrastructure and willingness among banks to cooperate in building infrastructure are the major opportunities for the adoption of the system in the banking industry.	Scope of banking entities to participate in such development can be worked out
Chakrabarty (2009)	India –	Secondary data, Timeline till	Secondary data analysis	increased significantly to a shade over 93 per cent in 2008-09 – a result of high credit growth in	Retail banking in India is maturing with time; several products, which further could be customized are in the retails segments of housing loan, personal loan, education loan, vehicle loan, etc.	Exact categories of such customisedsolutions can be formulated.
	Techno – banking – prospects and challenges	Secondary data, Timeline till date	Secondary data analysis	Present IT systems of banks are not able to manage unstructured data. It is but natural for banks to outsource their IT related activities including application development when the sector as a whole, is facing a shortage of skilled professionals.	Banks need to build systems to capture and analyze unstructured and semi- structured data. Use of local languages could facilitate easy understanding. Adoption of electronic banking would require moving the customers from being "assisted" initially to becoming "self-reliant".	Technical Studies may be conducted to enhance the betterment of the e- services delivery.
Deodhar (2017)	Black money and demonetizati on	-	Secondary data analysis	There have been global initiatives to tackle "underground economy" or "shadow economy". Primarily, the principles remain the same.	Risk based monitoring mechanisms, coordination amongst revenue departments and education among other things is recommended.	A consistent estimation of the black economy need to be studied.
Sharma	Role of	Secondary	Secondary	Implementation is in	To facilitate successful	Specific efforts to

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Author (Year)	Title	Instrument	Technique	Conclu	sion	Recomme	ndations	Further Scope
&Sharma	Information	data,	data analysis	process	upon	implementation,	intensive	MIS improvement
(2012)	Technology	Timeline till		Centralization,	, Single	efforts are to be	undertaken on	can be formulated.
	in Indian	2019		Window	System,	Completion of	correct MIS	
	Banking			Revised	Account	details in all	accounts and	
	Sector			opening, Call	centre for	SRM's. Present	slowdown in	
				customers,	CRM	rollover must be	put to full use	
				Application	and Data	to have concrete	action.	
				Warehousing.				

Research Gap: As per the above literature review, the area has hardly found to be touched with the help of a grass root study. Although many studies already held at national as well as international levels based on secondary input data, but a locale or regionally representing study based upon a primary survey on the subject particular, has been hardly found in context of problems of modern banking in rural India.

3. OBJECTIVES OF THE STUDY

- 1. To examine that whether the versatility of new systems & technologies has a positive impact on usage of modern banking facilities;
- 2. To prove that the youth is more probable to use modern banking solutions because of their being well versed with new systems and technology;
- 3. To explore the main problems faced by rural and remote regions going cash less preventing them to contribute towards the national goal of cashless India;
- 4. To prove that lack of facilities and other problems have a negative impact on use of cash less transactions, especially in rural and remote regions.

Need and Feasibility Study: As described in the research gap, the area has hardly found to be touched with the help of a grass root study and a locale or regionally representing study based upon a primary survey has been hardly found in context of problems of modern banking in rural India. The research is expected to part up a small component of this research grey area. The Study is well feasible to pursue, based on the premise that a snowball sampling based survey is well easy to conduct, and a primary survey has not been held here.

4. HYPOTHESIS TESTED

Hypothesis Statement 1: Youth is More Probable to Use Modern Banking, because of being well versed with new Systems & Technologies. i.e.,

H₁₀: MEAN _{usage.yn}> MEAN _{usage.ma} H_{1a}: MEAN _{usage.yn} =/< MEAN _{usage.ma}

Hypothesis Statement 2: Rural / Remote Localities face more problems in making cash less transactions, due to lesser / lack of facilities / other technical and structural problems. i.e.,

H₂₀: MEAN prob.rur/rem > MEAN prob.urb/semiurb H_{2a}: MEAN prob.rur/rem =/< MEAN prob.urb/semiurb

Research Methodology

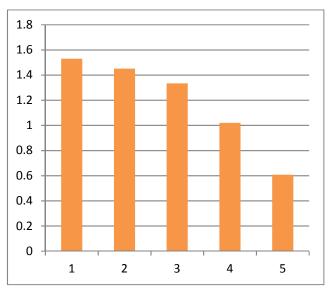
Sampling Technique and Sample Size: Snowball Sampling was used for the purpose, viz.51 young sampled as convenience in local educational institute(s), then they referred 51 Middle-Aged Samples from their references in ratio 1:1.

Study Usefulness and Limitations: The Study will be well useful for the Banking entities operating or planning to expand their business in the region, to offer such services. Being this Survey is done in Semi-Hilly Region of Himachal Pradesh & Adjoining States; the sample is not a direct representative of national or international population. Further, being a small sample of 102 Respondents only, collected based on convenience and snowball sampling, the results inference may not be an exact reference to the population of the region.

5. DATA INTERPRETATION AND ANALYSIS

1) Gadgets Owned, Used, Versatility, Internet and Measures used in Demonetization

Young



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Description: 1 = Average Electronic Gadgets Owned; 2 = Average Gadgets Usage; 3 = Average Gadgets Versatility; 4 = Average Gadgets having Internet Facility; 5 = Average Measures Used in Demonetization.

3

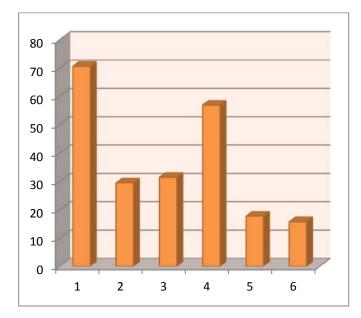
4

5

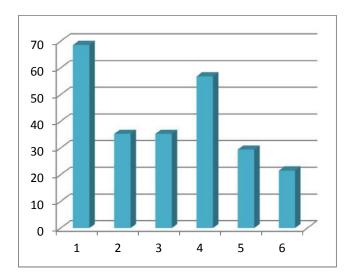
2

Interpretation: For Young,the frequency of gadget owned with that of used, its versatility, internet and finally with measures used in demonetization has been observed well lesser and steeply falling, i.e., actual usage of modern banking in need is much more and highly associated with availability and versatility for middle aged.

2) Modern Banking Awareness and Its Usage Young

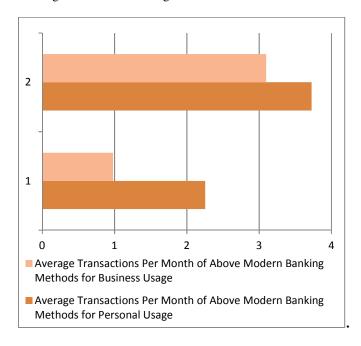






Description: 1 = % Aware of Internet Banking; 2 = % Using Internet Banking; 3 = % Using Mobile Application (App) for Internet Banking (Including those who are not using it for Transacting); 4 = % Using ATM Banking Facility; 5 = % Using Teller Less Banking; 6 = % Using Green Panel based Banking.

Interpretation: As observed, Association between Percentage Aware of Internet Banking and percentage using Internet Banking, Mobile Application for Internet Banking, Teller Less Banking, and Green Panel based Banking is more again in case of middle aged. this interpret a high degree of association among awareness and usage of uncommon modes of modern banking in case of middle aged.





1.4

1.2

1

0.8

0.6

0.4

0.2

0

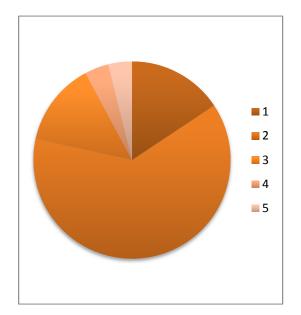
1

Description: 1 = Young; 2 = Middle Aged.

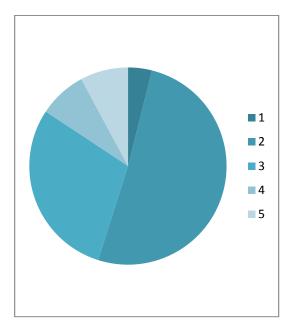
Interpretation: Interpreting Transactional Usage of modern banking, it high in case of both business and personal usage by middle aged and is more than twice in case of personal usage of modern banking measures for middle age, bearing their excessively involvement in managing the financial affairs of the family.

3) Ease in Cash less Transactions

Young



Middle Aged

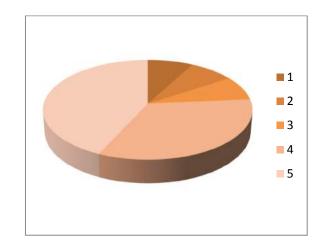


Description: 1 = Percentage who found cash less transactions Extremely Easy; 2 = Percentage who found cash less transactions Simple & Easy; 3 = Percentage who found cash less transactions Somewhat Complex; 4 = Percentage who found cash less transactions Extremely Complex; 5 = Percentage - NIL / NA.

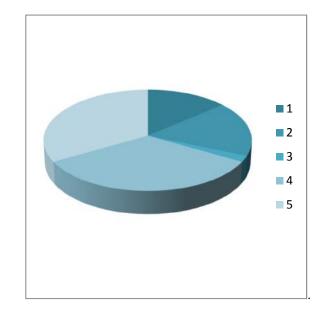
Interpretation: As it comes towards attitude averseness with the new technologies, youth is more adaptable to hence here the results interpret that irrespective of number of transactions carried, youth find cash less transaction much easier than the middle aged perceives and later, they are expected to use even more CLT.

4) Reason Behind Complexity

Young





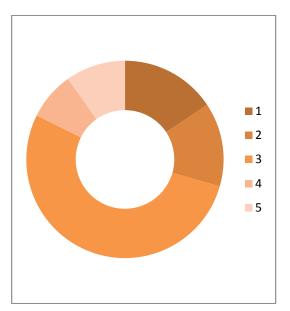


Description: 1 = Percentage found Banking Personnel's Nonresponse on Education and Redressal as the main reason; 2 = Percentage found Network Interface & Device Compatibility as the main reason; 3 = Percentage found Technical Illiteracy & Incompetency as the main reason; 4 = Percentage found Location & other problems as the main reason; 5 = Percentage - NIL / NA.

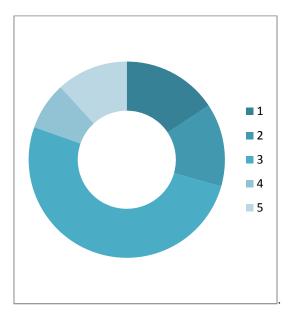
Interpretation:

5) Demonetization Impact

Young



Middle Aged



Description: 1 = Percentage Found Demonetization Extremely Hard; 2 = Percentage Found Demonetization Tough & Hard; 3 = Percentage Found Demonetization Somewhat Problematic, But Survivable; 4 = Percentage Found Demonetization Passive & Smooth; 5 = Percentage - NIL / NA.

6) Applied Data Analysis (Using relevant tests)

Middle Age	Young	Test Criterion
0.227593	0.2426 81	Correlation in use of electronic gadgets with internet facility
0.67635	0.6650 9	Correlation in Internet Facility with Internet Banking Awareness
0.410924	0.2277 78	Correlation in internet banking / tran. awareness with its use
0.229042	0.1825 74	Correlation in internet facility with internet banking / tran. Use
0.645905	0.5132 64	Covariance of internet banking / tran. Use with personal usage
0.357555	0.3391	Covariance of internet banking / tran. Use with business usage

6. CONCLUSION AND RECOMMENDATION

It has been observed from the study outcomes that irrespective of youth being more techno-savvy and gadget friendly, Middle aged segment covered in the region has shown its more averseness and usage for modern banking practices, being their more involved in Personal and Business Handling of funds. Majority of the sample covered Found Demonetization Somewhat Problematic, But Survivable. The results of scientific tests interpret that Hypothesis 1 is Rejected being Mean Usage of Young Lesser than that of Middle Aged, with Middle Aged having average transactions per month using the Modern Banking Methods, for personal usage equal to 3.72549 well higher to youth having 2.25490 transactions on average and equal to 3.09804 average transactions for business usage, excessively higher than youth having 0.98039 transactions on average, bearing the above reason. Hypothesis 2 is Accepted being Problems faced in Covered region considerably High at a Mean of 0.372549 compared to other Metro Regions. The data analysis of the tests applied shows us a more comprehensive picture, i.e., Correlation between the use of electronic gadgets and internet facility is higher in case of Young and Correlation between having Internet Facility with Internet Banking Awareness is more in case of Middle age, whereas Correlation between the internet banking or transaction awareness with the use of internet banking or transaction is around double in case of Middle age group and Correlation between having internet facility with internet banking use is again more in case of Middle age. Further, the Covariance of internet banking or transaction use with its

personal as well business usage is more in case of Middle age group with the personal usage being roughly near to double in figures that of business one. It interprets that irrespective of more electronic gadget availability and having the internet facility with that of youth, middle aged is more purported to use the modern banking measure for its personal as well as business usage with them being more averted towards using it for their personal needs, being them more involved in Handling of funds, on being considered more responsible for them. As was proposed in objectives, Versatility with new Systems & Technologies otherwise has a positive impact on Usage of modern Banking Facilities. The main problems faced by rural and remote region in using cash less transactions include Location & other problems, followed by problems such as Banking Personnel's Non-response, Network Interface and Device Compatibility, and Technical Illiteracy and Incompetency. Lesser availability or lack of facilities and other technical and structural problems have truly a negative impact on use of cash less transactions. Hence, the banking entities operating or planning to expand their business in the region, to offer its modern banking solutions need to take measures towards the technical literacy of its prospective consumer segments in consonance with the local bodies and government. Further, they may enhance their branch network or may utilize the services of their channel partners to better serve its remotely located customers. Researches ahead could be focused on formulating effective methods to enhance the technical literacy of the prospective consumer segments. New channels to explore the untapped segments for banking usage can be further augmented.

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