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Literature Review on Return on Investment from Libraries: A Study

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Literature Review on Return on Investment from Libraries: A Study.

By

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Abstract

This paper attempts to provide a comprehensive study of return on investment (ROI) from library knowledge on the relevant literature review study on last for the past 20 years, practitioners have embraced them. It seeks to describe the functions mentioned in the literature Concerning trends in the profession of Library and Information Science (LIS). The method used for literature review on return on investment(ROI) from library was followed by Searching on various LIS databases , Scopus, Web of Science, <https://www.researchgate.net>, <https://scholar.google.com>, Google and <https://www.emerald.com> in October to December 2020. 33 out of a total of 200 papers were chosen, based on clear requirements for inclusion and exclusion. New and emerging positions, mainly in the sense return on investment from libraries, have been identified. The ROI roles in institution, organization and librarians and their active participation in the process ROI background, history, ROI calculation method and study were highlighted in all defined function categories. This research paper is a Literature review type paper considered only peer-reviewed papers which were published in English between 2000 and 2020. This review paper takes into account the growth of the LIS profession in an evolving climate. The world and provides an interpretation of the LIS profession's future path.

Keywords: *Return on Investment (ROI), ROI, Return on Investment from library and Library Resources*

Introduction

Libraries have been developing different ways of measuring and explaining their importance and commitment to users and society as a whole over the last few decades. One of the methods adopted by libraries is to analyze the monetary benefit of their programs in order to assess their results and determine the effects of their work (see e.g., Matthews, 2019). Performance studies have been conducted through reviews in a variety of academic libraries over several years to research and analyses subjects such as user knowledge of libraries, user enforcement, relevance of information, quantity and quality of services offered by academic libraries

(Kumar, 2011). ROI is a performance matrix to assess net resource expenditure payments. ROI is therefore reported as the turnover from spending on resources to the venture capital follow-on.

Definition: Return on Investment (ROI) is a success metric that is used to determine an investment's effectiveness or to compare the effectiveness of a number of different investments. ROI aims to calculate the amount of return on a single investment directly, compared to the cost of the investment. The profit (or return) of an investment is divided by the cost of the investment to determine the ROI. As a percentage or a ratio, the outcome is conveyed(<https://www.investopedia.com>). Return on Investment analyses are a widely used methodology among such studies. At its simplest, the ratio of net gains (monetized benefits) to the costs of an expenditure is calculated by a ROI assessment:

$$ROI = (Total\ Benefits - Total\ Costs / Total\ Costs) \times 100$$

ROI is calculated in several different ways in libraries. ROI can be used from the viewpoint of library users, the parent company, or from the perspective of the library itself to calculate the costs (investment) and the results (return on investment). Costs are usually dollars spent on a commodity or resource and/or time spent on purchasing or using a resource to deliver or access a service. Investment returns may be either outputs (the product of a service or resource such as an increased set of journals), uses (how the service or resources are used), or outcomes (indirect production or usage outcomes such as time saved) (Jose-Marie Griffiths, 2007).

ROI may be an important part of the process for determining the facilities, collections, staffing levels of a library, preparing for new services and resources, or evaluating the importance to the community and stakeholders of your library.

ROI is excellent at answering two kinds of questions. One is how much money would be obtained by investing in a financial asset in particular? The other is: will it yield a measurable profit to invest money into a project or service?

(Volentine and Tenopir, 2013) In this articles authors describe about What is the worth and result of insightful perusing for scholarly staff? How do scholastic library assortments bolster research and showing exercises of scholarly staff? How do perusing examples of articles, books, and different materials vary? This study focuses on around 2,000 scholastic staff individuals from six UK colleges finished a web-based overview. Both subjective and quantitative information were gathered through the overview. Authors found the open-ended remarks concentrated on the significance of article readings to all work exercises, specifically examine. They likewise set accentuation on the estimation of the library's e-journal assortments, yet they had a few issues with electronic access. The job of book perusing was likewise talked about. Limitation of the study is open-ended remarks are just a single method for estimating the estimation of insightful perusing and library assortments. Continuous investigations and assessments of the discoveries from different segments of this examination will add to the general discoveries of the estimation of the scholastic library. Summary: Finally, paper concludes further delineates the fundamental job of insightful perusing and the library's assortments on the scholarly undertaking. This sort

of subjective "story" assists libraries with showing their esteem and evaluates regions of concern.

Literature Review

There are following research work done by eminent LIS scholars across the world likes as, **(Tenopir, 2012)** The purpose of article tries to how portray two strategies – basic occurrence and rate of profitability – that can be utilized to gauge and exhibit unequivocal and determined estimation of scholarly libraries.

A progression of studies utilizing the basic occurrence of the last article perusing by personnel are utilized to assemble data on the reason, results, and the estimation of insightful article readings and access to accumulations through the library. Both subjective and quantitative information are gathered through web-based reviews. In an investigation of ROI to awards from the library's diary assortments, results show that for each dollar put resources into the library personnel trait a lot more dollars returned in award salary through increasingly effective award recommendations.

Summary: This paper features strategies to quantify the estimation of scholastic libraries just as detailing discoveries from a few examinations that reflect changes in academic article readings after some time. This kind of research assists libraries with exhibiting their worth and assembles proof to look over among options.

(Kaufman, and Barbara Watstein, 2008) The motivation behind in this paper is to understanding rate of return (ROI) and the expanding significance of exhibiting our worth, as libraries, as administrators, for sure, as open help custodians. During 2007, a little undertaking group was gathered to build up a model that would figure an arrival on speculation to a foundation for its library. The group comprised of Chrysanne Lowe and Kira Cooper from Elsevier, Paula Kaufman from UIUC, Judy Luther of Informed Strategies, and Dr Carol Tenopir from the Center for Information and Communication Studies at the University of Tennessee, Knoxville.

The aftereffects of this momentous examination were accounted for early this year in a white paper entitled, "College interest in the library: what's the arrival? A contextual investigation at the University of Illinois at Urbana-Champaign" by Judy Luther. The model the group created demonstrated a 4-to-1 return. Summary: This examination looks to decide the estimation of ROI and in library terms ROI alludes to the arrival on an association's interest in its library. Return for capital invested would accordingly address the subject of how a lot of quantifiable worth the University got for each dollar it put resources into its library.

(Salisbury and Peasley, 2018) The reason for this paper is to give an Australian viewpoint of effect and incentive by inspecting how the more extensive worldwide and national points of view happen practically speaking in the Australian setting and where adaption for neighborhood prerequisites is vital.

This paper will investigate the appraisal of effect and incentive in scholastic libraries and the instruments accessible to make an interpretation of the present contributions to future effect and worth. It will concentrate on a scope of techniques and methods, including universal and national guidelines, systems and benchmarks.

Summary: Evaluating the effect and exhibiting the estimation of the scholarly library in an advanced situation is a consistent test. While use and administration information are copious, conventional measurements never again adequately exhibit the scholastic library's commitment to college getting the hang of, instructing and investigate results.

(Sidorko, 2010) The purpose of author tries to inspect approaches by how scholarly libraries in showing degree of profitability (ROI). To inspect approaches by

scholastic libraries in exhibiting degree of profitability (ROI). As a member in an ongoing global ROI study, the creator audits the different troubles in building up a reasonable philosophy. Utilizing award pay as the reason for showing ROI, it was discovered that wide contrasts in results might be inferable from various variables identified with the parent association, the accessibility of award subsidizing and the nation of the examination.

This paper will demonstrate valuable to custodians thinking about putting time and different assets in creating approaches for showing rate of profitability. Summary: These examinations have given a starting advance to a significant perspective about scholarly libraries and their job in the organizations they serve. Regardless of the sort of library, the customers they serve, the nations to which they have a place, the ever-increasing call for libraries to show the worth that they bring to their constituents is a call that can never again be overlooked by scholarly administrators or dismissed on the grounds of trouble.

(Nash White, 2007) author purpose behind this paper is to look at how potential new employments of degree of profitability (ROI) in elective strategies for library evaluation and valuation. Utilizations instances of late employments of ROI by libraries to recognize potential new uses of ROI in library appraisal and valuation. Return for money invested venture has truly been utilized by libraries for the appraisal of past execution of library associations in a responsive/cautious nature or for surveying the estimation of client administrations. Return for capital invested has not been broadly utilized as a proactive appraisal instrument, to thoughtfully evaluate regulatory or other inside administrations, or as a hostile evaluation and valuation device, particularly for impalpable execution evaluation and valuation. Summary: New utilizations of the ROI evaluation instrument could furnish library directors with proactive methods for expanding the adequacy of library appraisal, valuation, and their outcomes

(Late, Tenopir, Talja, and Christian, 2019) The reason for this paper is to analyze the how new job of perusing in insightful work among scholastics in Finland. This examination breaks down readings from an assortment of production types including books, meeting procedures; inquire about reports, magazines, papers, web journals, true to life and fiction. The investigation was an across the nation investigation of specialists in Finland; in this way, all discoveries are inside the setting of analysts in a solitary nation. All outcomes are self-detailed; hence, the creators expect yet can't be certain that respondents precisely remember the particulars of their utilization of insightful data. The consequences of this investigation are applicable to distributors, look into administrators, editors and other people who serve purchasers of insightful data assets, structure data items and administrations for those researchers, and try to more readily comprehend the data needs and utilization of an assortment of sorts of academic productions. Summary: This investigation reproduces past examinations in an assortment of nations and gives a more exceptional and single-nation contextualized diagram of how scientists find and utilize insightful data in their work.

(Chung, 2007) in this paper author try to understand the concept how Measuring the economic value of special libraries. examination of study plans to display another way to deal with estimating the monetary estimation of unique libraries, including certain time-saving impacts that the unexpected valuation technique application can't only demonstrate.

A cost-benefit examination is utilized as a device to decide if the advantages of unique libraries exceed the expense acquired in offering the types of assistance. The advantages of such libraries depend on appraisals of how much the client is eager to pay for the administration, just as the expense of time spared because of his contact with library administrations. A contextual analysis was led to show how exceptional libraries could apply the proposed model to their library setting to quantify the estimation of the library's administrations.

Finding of the study as per the contextual analysis including the KDI School Library, the financial estimation of its library administrations estimated regarding a B/C proportion was 1.97, filling in as solid defense for the library's presence. Summary: This examination is more explicit and precise than past investigations in that it empowers an individual investigation for each assistance uncommon libraries offer and spotlights on the sorts of advantage determined. It is trusted that the model will help examine the quality of every library administration just as the absolute financial estimation of the library.

(Phillips, 2011) In this book's author try how to be measuring the value of Return on Investment in Training and Performance Improvement Programs. This book presents a demonstrated ROI approach, in light of right around 20 years of advancement and improvement. It is a procedure that misses wealthy in custom and refined to satisfy the needs confronting preparing and execution improvement programs. The ROI system portrayed right now the necessities of three significant gatherings. To start with, the professionals who have utilized this model and have executed the ROI procedure in their associations keep on announcing their fulfillment with the procedure and the achievement that it has accomplished.

The essential crowd for this book is supervisors and experts associated with preparing, advancement, and execution improvement. Regardless of whether an individual is engaged with needs appraisal, instructional plan, conveyance, or assessment, this book will be a crucial reference. People in preparing and HRD initiative positions will see it as a supportive manual for ROI. With its bit-by-bit approach and case introductions, it will likewise be helpful as a self-study control, especially when utilized with the ROI field book. The ROI procedure depicted right now been utilized to quantify the effect of an assortment of HR programs, reengineering activities, and innovation usage circumstances, just as in changes of techniques, practices, and arrangements. Whenever change is executed, this procedure will catch the arrival on speculation.

Summary: The objective crowd is experts, specialists, and class moderators who see this procedure as a viable method to quantify the effect of their projects. It gives a functional model to specialists to assess change activities or counseling intercessions. The book furnishes specialists with a sound apparatus for assessing an assortment of projects Seminar moderators will see this book as an accommodating instrument to quantify the accomplishment of their workshops. The ROI procedure has been applied successfully in estimating the effect of open workshops. Its substance ought to invigorate thought and discussion on how the ROI is created for the instructive field.

(Aabo, 2009) Author describe in this paper is how to demonstrate that the need to impart the estimation of libraries is developing, and particularly now during the worldwide money related emergency. There are following question of the study; - To build up a quantitative structure for the transferability of significant worth evaluations for arrangement choices. To general thought is to investigate the utilization of earlier and unique valuation concentrates inside a similar research field and to move their assessed qualities to new and comparable regions where worth appraisals are required for approach choices.

The focal point of the meta-analytical audit is on the subgroup that reports an arrival on venture (ROI) or a cost-benefit proportion. The dataset is 38 library valuation examines detailing an arrival on venture figure or cost-benefit proportion. The finding of the 38 examinations, 32 are of open libraries, a number sufficiently high to show a reasonable outcome. The meta-analysis demonstrates that the examples in the discoveries are reliable with assumptions about the advantage types that are remembered for the ROI figure, the strategies utilized, and the extent of the investigation. summary: This paper has begun a mapping of

the extent of library valuation contemplates that report a ROI figure, endeavoring an exploratory "assessing progress" right now. The examinations of the dataset show that for this subgroup of the field of library valuation investigate, the minimum number of studies has not yet been gone after scholastic, school, extraordinary, and national libraries. A significant increment in valuation investigations of these library types is important to arrive at another phase in the improvement of this exploration field to arrive at a premise on which ends can be drawn.

(Grzeschik, 2010) author reason for this paper is to check how the suggestion by the University of Illinois, Urbana-Champaign (UIUC), that their arrival on speculation (ROI) recipe created for scholastic libraries and dependent on hard realities is sufficiently wide to be utilized all through the world for ROI considers in scholarly foundations/libraries. It further means to confirm that UIUC's procedure is sufficiently versatile to work in other scholastic situations too. The philosophy created by UIUC (a ROI equation produced for scholastic libraries dependent on award proposition applications and references) has been "replicated" and in this way adjusted to empower it to be utilized in a scholarly situation in Europe/Germany.

Authors found that there was trouble in get-together the entire data essential for leading such an investigation in Germany as award proposition contain delicate information that individuals are reluctant to show. Further, it was observable that German insights on subsidizing couldn't give the essential information moving forward without any more enquiries, despite the German law that open organizations are obliged to uncover financing data. Summary: Already nobody else has attempted to confirm the procedure for a ROI study created by UIUC. This investigation gives proof that UIUC was directly in guaranteeing that their ROI recipe created for scholastic organizations/libraries might be utilized for any scholarly library on the planet. Further, this investigation shows how the recipe and the philosophy might be adjusted to fit individual scholastic conditions.

(Luther, 2008) In this paper author describe about how to returns on investment from University of Illinois at Urbana–Champaign. At the University of Illinois at Urbana–Champaign (UIUC), Paula Kaufman, the University Librarian and Dean of Libraries, looked to distinguish the library's commitment by saying "for every dollar put resources into the library, the college got x dollars consequently." This announcement encircled the subject of significant worth from a monetary Perspective and guided the improvement of this contextual analysis.

To evaluation activities in libraries are changing the measurements from information sources and action (e.g., diaries obtained, Books flowed) that were estimated in the print condition, to yields and profitability gauges that try to mirror the effect of electronic assets where worth is increased through usefulness and openness of Content. Rules for this investigation concentrated on building up a quantitative measure that perceives the libraries Role in supporting the college's key objectives. While most cost/advantage considers measure time or assets Saved, this investigation features award pay created by workforce utilizing library materials.

Summary: The college gave Institutional information on the percent of staff that is head specialists, their prosperity rate with award proposals, The measure of college awards, and the library spending plan. A review was led with UIUC workforce that approved Assumptions in the model and gave measures that affirmed the significance and recurrence of references in Grant recommendations, and the probability that the references utilized in award proposition were drawn from library assets. Their utilization of a "library unbounded" permits them to coordinate advanced assets into their work paying little mind to their area, empowering them to confirm realities and update references as they compose Proposals, articles, and reports, regardless of whether they are nearby or voyaging.

(Singh, and Pandita 2019) In this paper author describe about following research question: -How To evaluate the library asset obtainment pattern among the Engineering and Technological Institutes in India. To introduce a diagram of the exploration yield of twenty driving Engineering and Technology Institutes in India. To correspond the exploration yield of twenty driving Engineering and Technology Institutes in India as an arrival on interest in the library. To work out credited and accomplished position of the libraries of the foundations under examination based on seven diverse recognized parameters, according to the data gave by the separate Engineering and Technology Institutes to MHRD, while arranging information. This study based on the auxiliary information arranged by the Ministry of Human Resource and Development, Govt., of India for the period 2012-13, 2013-14 and 2014-15 and was discharged as the positioning rundown of Institutes of Engineering and Technology in India for the year 2016. The examination plans to evaluate the Returns on Investment (ROI) of the twenty driving libraries of the Institutes of Engineering and Technology in India as institutional research yield.

Summary: The outcomes demonstrated that the Institutes of Engineering and Technology in India focus more on acquirement of electronic assets in their libraries, spending almost three-fourth of their financial limit on the acquisition of electronic archives generally as online diaries and eBooks. While assessing the attributed and accomplished positioning, 95% libraries under investigation confronted mix, as 55% libraries slipped in their position, while as 45 % improved and 5% indicated no change. The examination gives an away from about the significance of libraries and the part these sub-establishments' play in the general positioning of their organization.

(Tenopir, 2010) this paper written by well-known eminent author, personality and expert of returns on invest from library that is Carol Tenopir. She has done many studied in returns on investment from library. In this papers authorsv describe how to Scholarly library assortments (both print and electronic) and library administrations offer some incentive from multiple points of view, including an incentive to research, instructing, and understudy improvement. Rate of profitability (ROI) is one approach to evaluate the estimation of the library.

The outcomes show the estimation of the library to the establishment in improving award proposition and report composing and in assisting with drawing in award pay. Library e-assortments particularly assume an indispensable job in all parts of awards, from proposition keeping in touch with conclusive reports. The investigation across nations additionally shows how some factors inside an establishment, (for example, subject center) or

factors inside a nation, (for example, hotspots for awards financing) can impact the ROI for awards pay. This report proceeds with the progressing conversation of ROI and scholarly libraries. Extension of this exploration to incorporate different parts of ROI will be directed under sponsorship by the Institute of Museum and Library Services (IMLS). The examination, Value, Outcomes, and Return on Investment of Academic Libraries ("Lib-Value," award number LG-06-09-0152-09), is a multiyear venture which started in December 2009 and is being driven by head specialists Carol Tenopir and Paula Kaufma.

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(Tenopir, 2010) this paper is written by well-known eminent author, personality and expert of returns on invest from library that is Carol Tenopir. She has done many studied in returns on investment from library. In this paper she tries to understand how to be measuring the value of returns on investment from academic library. Rate of return (ROI) is one strategy for estimating the estimation of a library's e-diary assortment. In a worldwide examination intended to test a ROI equation created as a contextual analysis at the University of Illinois, ROI of the estimation of e-diaries to awards salary was found to shift contingent upon the crucial subject accentuation of the organization. Employees report that e-diaries have changed the way they do explore, including making them increasingly gainful and serious. Future investigations will analyze ROI past awards salary and past the estimation of e-diary assortments. Employees report that e-diaries have changed the way they do explore, including making them increasingly gainful and serious. Future investigations will analyze ROI past awards salary and past the estimation of e-diary assortments.

Summary: The study found that measuring the Value of the Academic Library: Return on Investment and Other Value Measures is significant for the growth and development of academic library. ROI of the estimation of e-diaries to awards salary was found to shift contingent upon the crucial subject accentuation of the organization. Employees report that e-diaries have changed the way they do explore, including making them increasingly gainful and serious.

(Kaufman, 2008) This paper investigates study attempted at the University of Illinois at Urbana-Champaign that tried to gauge the arrival on the college's interest in its library. The investigation looked to build up a quantitative measure that perceives the library's an incentive in supporting the college's key objectives, utilizing award pay produced by staff utilizing library materials. It likewise looked to affirm the advantages of utilizing electronic assets and the subsequent effect on profitability over a 10-year time frame.

The consequences of this examination, which is accepted to be the first of its sort, speak to just one bit of the response to the test of speaking to the college's complete come back from its interest in its library.

This paper investigates study attempted at the University of Illinois at Urbana-Champaign that tried to gauge the arrival on the college's interest in its library. The investigation looked to build up a quantitative measure that perceives the library's an incentive in supporting the college's key objectives, utilizing award pay produced by staff utilizing library materials. It likewise looked to affirm the advantages of utilizing electronic assets and the subsequent effect on profitability over a 10-year time frame. The consequences of this examination, which is accepted to be the first of its sort, speak to just one bit of the response to the test of speaking to the college's complete come back from its interest in its library. Summary: The investigation's objectives were to report quantifiable information that would be important to the college network and to build up a straightforward philosophy those different establishments could repeat. Even though the underlying objective was to report degree of profitability in electronic assortment materials, absence of dependable longitudinal information constrained the group to concentrate the investigation on the colleges Investments in the totality of the library's administrations and assortments.

(Kaminski and Lopes, 2009) through this articles author described about instructor's Manual Return on Investment: Training and Development programs. This is an evaluation of the connection between the advantages of a program and its expenses. $BCR = \frac{\text{Program Benefit}}{\text{Program Cost}}$ When BCR is more prominent than one, the advantages exceed the expenses and the program is viewed as a triumph. The idea of quantifiable profit to something everybody has encountered in their own life.

Author tries to understand how to conceptualize reasons at that point uncover the rundown on the PPT slide. He figures ROI for various reasons: n to legitimize the preparation spending plan (keep up or increment preparing dollars). To decide the viability of preparing. To assess the preparation technique utilized and the utilization of time for mentor and representative. To decide whether there was an adjustment in time, cost, or conduct. To give proof to the executives/partners. To form trust and regard for ourselves and the mentors. To addition believability with administrators. To recognize regions for development. Because your administrator requested the data. To keep our employments, and to assist staff with keeping their occupations.

Summary: This is an essential meaning of ROI. This is an evaluation of the connection between the advantages of a program and its expenses. $BCR = \frac{\text{Program Benefit}}{\text{Program Cost}}$ When BCR is more prominent than one, the advantages exceed the expenses and the program is viewed as a triumph. When BCR is short of what one, at that point the expenses surpass the advantages and demonstrate that enhancements or changes presumably should be made to legitimize the continuation of the program. Another valuable and regularly utilized definition/recipe communicates the ROI as the rate return on the expenses brought about. This has the upside of addressing numerous speculators and partners in their language. The recipe to figure ROI in this way is: $\text{Return on initial capital investment (\%)} = \frac{\text{Benefit}-\text{Cost}}{\text{Cost}} \times 100$.

(Kelly; Hamasu & Jones, 2012) they are described about State, open, scholastic, and uncommon libraries are leading and distributing the consequences of studies planned for indicating the estimation of their administrations and assets. They tried to

understand how return for money invested is a useful asset to utilize while building up validity, responsibility, and proof exhibiting the library's worth.

They have attempted a Return-on-Investment Survey (ROI) for scientists. In light of the ... learn at the ... we questioned more than 400 PIs and had an arrival pace of 43%. ROI turned out as \$13.50 contrasted with the UIUC ROI of \$4.38. they have utilized that data in various introductions around grounds to show the estimation of the library in any event in the examination field.

Summary: They were utilized insights, benchmarking and ROI information along Downloaded by [Washington University in St Louis] at 08:34 12 December 2012 Applying Return on Investment (ROI) in Libraries 669 with data on the special data we gave to clinician's inquiries. Albeit 90 positions were cut from our emergency clinic staff, the library didn't lose any staff nor had any decrease in hours." "I utilize the ROI structure a few times each year trying to intrigue the higher ups."

(Shimray, & Ramaiah, 2015) Both describe about how to returns on investment from academic libraries. Rate of return (ROI) is one of the indispensable parameters to analyze the significance of libraries. Return on initial capital investment is a medium to approve the current arrangement of going through cash in the libraries and legitimizing technique for tentative arrangements.

This paper presents a survey of the investigations of scholastic libraries 'esteem with the assistance of ROI strategy. It additionally underlines the association among library and parent foundation.

Degree of Profitability In scholarly libraries is trying to characterize, be that as it may, the criteria used to look at may shift from library to library. Return on initial capital investment is a marker used to look at amount, quality, viability of a speculation to library and its yield. Number ROI approaches and methods are growing since the commencement of libraries. Numerous library affiliations everywhere throughout the world have been supporting investigations on ROI.

Tremendous assets are spent on building libraries to accomplish foundations' missions. Scholarly establishments give an assortment of assets in the libraries to offer quality types of assistance to clients in showing signs of improvement comes back from them. This paper presents a survey of the investigations of scholastic libraries 'esteem with the assistance of ROI strategy. It additionally underlines the association among library and parent foundation.

Summary: Rate of return (ROI) is one of the indispensable parameters to analyze the significance of libraries. Return on initial capital investment is a medium to approve the current arrangement of going through cash in the libraries and legitimizing technique for tentative arrangements.

(Tenopir; Volentine & King, 2012) authors described library collection, value and usages of scholarly reading in great Britten universities. It tried to address addresses, for example, what is the worth and result of insightful perusing for scholarly staff? How do scholarly library assortments bolster research and showing exercises of scholastic staff? How do perusing examples of articles, books and different materials vary?

Scholastic libraries give access to academic articles, books and different materials to help. Crafted by scholastic staff and understudies, yet scholastics today likewise have numerous options Ways to get to insightful data.

The Scholarly Reading and the Value of Library Resources project¹ Measured the worth and results to scholastic staff individuals from access to academic distributions in six Universities in the United Kingdom. It tried to address addresses, for example, what is the worth and result of insightful perusing for scholarly staff? How do scholarly library assortments bolster research and showing exercises of scholastic staff? How do perusing examples of articles, books and different materials vary? What is the job of the scholarly library assortments in instructing and learning? Six advanced education organizations – Canfield University, Durham University, Imperial College London, University of Dundee, University of East Anglia and the University of Manchester – took an interest in the 2011 review of insightful perusing by their scholarly staff individuals

This article condenses the aftereffects of the consolidated discoveries, with a specific accentuation on those discoveries that attention on the estimation of the perusing that originates from the library assortments. The inquiries spread numerous subtleties of that reading, including time spent on the perusing, wellspring of perusing, reason for perusing, benefit of stringing to the reason and results of the perusing. Summary: Scholastic staff individuals utilize different wellsprings of data consistently from academic articles, books and different productions for their educating and research. Therefore, time has become an undeniably significant main factor for where to acquire wanted material. Scholastic staff individuals spend enormous bit of their work time on insightful perusing and perusing has numerous positive results on their examination and educating. The measure of time they spend on perusing from the library's assortments is proof of the significance of library-gave insightful materials to scholastic work.

(Waha and Shamsuddin, 2015) they described about Malaysia returns on investment from digital library and users. In this studied they try to answers the followings question. This investigation sets out on the accompanying goals. To recognize the main five often utilized online database in UTHM library. To recognize the connection between library online databases quality with User fulfillment. To recognize the connection between library online database quality with Continuance to utilize. To recognize the Library "Returned of Investment (ROI)".

The quantitative methodology has overwhelmed investigation into the relationship between client fulfillment and administration quality. This exploration is separated into two stages 1. Stage 1 centers the examination strategy used to decide the library databases quality, client fulfillment and continuation. In particular, the destinations of this stage are to decide the relationship of library databases quality towards client fulfillment and recognize the utilization of library databases among scientists, understudies and staff overall. The 1stphase of this examination comprises of all library clients and not restricted to the awards individuals or head examiner. Then again, the methodology on Phase 2 had been led to decide Return on Investment (ROI) and the certain proportions of library items and administrations. Summary: This section audits the writing applicable to the exploration point. It shows the significance of value administration, data quality and framework quality towards client fulfillment. Moreover, this examination additionally suggested that apparent handiness and saw convenience could upgrade client fulfillment and duration expectation tousle. This part likewise surveys the library Return on Investment (ROI). Explicitly the ROI can be estimated

dependent on ascertaining the ROI of award got or by evaluating the ROI dependent on the number off download articles or assets.

(Lara; Fisher and Mirakian,2012) authors studied about Scholarly eBooks and try to Understand how Return on Investment from Libraries. The following research questions; Time spared by library staff and specialists. Convenience of steady access and online inquiry abilities Effect on look into yield and instructing. Physical space spared in the library by utilizing electronic assets. Communication Group and Springer present a wide review of the present province of eBooks valuation in scholastic and uncommon libraries alongside its patterns and prevailing difficulties. In addition, this report tends to certain manners by which the academic eBook scene is probably going to change later on and the foreseen sway on estimating the RoI of eBooks all through the library network PCG has talked with specialists in the field just as curators taking on more prominent duties regarding their organization's eBooks assortments all through the United States and Europe.

The proof focuses to great long haul an incentive for eBooks as a significant instrument for excellent research yield and institutional advantage. Tina Chrzastowski in her 2011 paper Assessing the Value of eBooks to Academic Libraries and Users takes note of that eBooks at the University of Illinois at Urbana-Champaign offer explicit advantages to UIUC library including: Low expense for securing of substance. Low expense per-use. Require less library staff time to loan and save. Require less space for capacity in the physical library. Take less time for clients to get to (every minute of every day access from practically anyplace). Summary: The evidence points to good long-term value for eBooks as an important tool for high quality research output and institutional benefit. Tina Chrza stowski in her 2011 paper Assessing the Value of eBooks to Academic Libraries and Users notes that eBooks at the University of Illinois at Urbana-Champaign offer specific benefits to UIUC library including: Low cost for acquisition of content. Low cost-per-use. Require less library staff time to lend and preserve. Require less space for storage in the physical library. Take less time for users to access (24/7 access from virtually anywhere).

(Kumar, 2011) authors describe about how to returns from libraries. The paper takes a gander at the idea of ROI (Return on Investment) with regards to libraries. Considering the dynamic condition, testing budgetary weights and expanding requirement for responsibility have in totally constrained libraries to demonstrate their value as far as results, effect and returns. The paper draws upon different investigations and approaches in managing this significant and significant topical subject.

The paper centers on scholarly libraries and presumes that ROI of every library will be distinctive relying upon the settings where it exists. It is essential to contemplate the settings and afterward obviously visualize the proportions of profits for every library. Summary: Return for money invested considers are significant and are progressively getting unavoidable for library experts to comprehend and receive. It might merit creating models that are important to Indian circumstance wherein the motivations behind scholarly organizations are very not the same as those in nations where in the investigations have been led. There is no uncertainty that there is a critical need to create India explicit models of estimating ROI and it's a short time as

jumping to have one that will advance from India. This is important to mirror the Genuine worth and character of a library working in India.

(Anderson; Bhargava; Hall and Hawthorne, 2004) authors motivation behind this paper is to help Federal libraries in portraying their incentive to the associations they support through a Performance Measurement Model (PMM). To address this examination, three strategies for investigation were embraced: research of documentation, site appearance, and meetings with topic specialists. To start with, Susan Tar gave the group a few articles and references for articles, Web destinations, and books that examined exhibition estimation. These things were recovered and considered.

Ascertaining Return on Investment (ROI) is the most up to date challenge for advocating subsidizing in the open part. Return on initial capital investment can likewise help Federal custodians in effectively accomplishing their library's missions and objectives. Return for money invested in the private division is simpler to ascertain in light of the fact that private organizations are benefit situated, item creating associations. Return for money invested is another idea to open segment associations. The test for associations like Federal libraries and data focuses is to figure out how to register ROI despite the fact that they are not income creating associations.

Summary: Libraries have been estimating their presentation in some structure for quite a long time. Models of how to gauge that exhibition proliferate, going from the clear factual estimation to the multifaceted nature of more up to date results-based models. These models appear as procedures, reviews, exercise manuals, and graphs. Nobody model fits the requirements of each circumstance. The customary types of responsibility are situated in measurable qualities or yields. Utilizing the customary hypothesis, a library flows x number of materials to a populace of number of individuals; thusly it must merit putting resources into.

(Kingman and McClure, 2015) in this paper author describe about Lib-Value: Values, Outcomes, and Return on Investment of Academic Libraries, Phase III of the Syracuse University Library. It is relevant study in the context of return on investment from library. Workforce and understudies at Syracuse University were studied how to utilizing unforeseen valuation strategy to quantify their readiness to pay in time and cash for the administrations of the scholastic library. Syracuse University is a private foundation in upstate New York with 21,029 understudies and 1,013 employees. The college libraries utilize 184 fulltime proportionate staff and incorporate Bird Library, which has a focal area nearby, the Carnegie Library, which serves technical studies, and the Law Library. Together, these libraries pull in more than one million visits every year.

The study technique utilized in Phase I of the Lib-Value venture was altered and utilized at Syracuse. Unforeseen valuation considers depend on client detailed information and regularly utilize overviews to acquire that information. The reason for the review and the inquiries posed was to endeavor to decide the estimation of the library and its different administrations to clients. SU-ROI utilizes both utilization insights and client review reactions to decide the estimation of the library.

Summary: This investigation utilized an unexpected valuation overview to show that the yearly estimation of the scholarly library at Syracuse University is \$34.3 million to staff and \$42.0 million to understudies; giving \$4.13 in incentive to each \$1 spent by the library. This shows an impressive rate of return of the Syracuse University library. The \$70.2 million in determined yearly estimation of the Syracuse library thinks little of its worth. This investigation did not exclude the ecological or social estimation of the library, nor did this examination measure the monetary estimation of the library to the network or staff at the college.

(Matthews, 2010) in this paper focus on basic concept of ROI, benefits and how to face Challenges of Calculating Library's Return on Investment. The utilization of Return-on-Investment concentrates in a library setting have created a ROI numbers that are very factor albeit many appear to assemble in the \$4 to \$6 of advantages for every dollar spent by the library. Library structures have been planned and assembled, assortments have been made and kept up, staff contracted to give an expansive cluster of administrations. These speculations have brought about upgrades to library assortments, both print and electronic, administrations and offices.

For a long time, open libraries delighted in the help of their networks and financing leaders as they were seen as an open decent with evident positive social effects. An open decent is a person the utilization of that great or administration.

(Tenopir & Volentine, 2012) in this article author described about the Scholarly Reading and the Value of Library Resources venture gauge the worth and results from access to insightful distributions in six colleges in the UK. It looks to respond to addresses, for example, how do scholarly library assortments bolster research and educating exercises? What is the worth and result of insightful perusing for scholarly staff? How do perusing examples of articles, books, and different materials vary?

It gives proof that the library has a necessary job in the college's crucial research and educating, not only a supporting one, with academic diary arrangement profiting staff and understudies the same. It gives additional proof that a well-resourced library may have a connection to the general quality and achievement of the organization. The examination depends on scholastic readership overviews directed since 1977 by Tenopir and King. The reviews measure reason, result and incentive from academic perusing by concentrating on the basic occurrence of last perusing.

(Tenopir & King, 2007) in this paper author focus on Perceptions of value and value beyond perceptions: measuring the quality and value of journal article readings. When estimating quality and estimation of diaries, what is being estimated, to who does the worth gather, and why the estimation is being done must be considered. Both verifiable and unequivocal proportions of value and worth are conceivable. They invest their energy perusing, read numerous articles every year, and perusing benefits their work from multiple points of view. Be that as it may, clients may print, download, or email articles for singular use. This unique might be shortened. When estimating quality and estimation of diaries, what

is being estimated, to who does the worth gather, and why the estimation is being done must be considered. Both certain and unequivocal proportions of value and worth are conceivable. Primer consequences of continuous readership investigate show that scholastic library e-diary assortments have both buy and use an incentive to scholarly staff.

This is an express part of the buy an incentive to peruses and can be changed over into an immediate use dependent on the dollar estimation of their time. The other segment of cash used is that borne by close to home endorsers or libraries for peruses' benefit (except for creator side installment and other open access models). Despite how gotten, peruses would not invest their important energy if the data contained in the article readings was not seen to have equivalent use an incentive to them. Employees spend a normal of 8 to 17 minutes for each perusing in distinguishing and getting articles (contingent upon strategies utilized) and 34 minutes.

(Sachdeva, 2014) he described about ROI of Training and Development Programmers: Challenges and Developments. The rising need of the human asset the executive's branch of associations to react to the interest by top administration to legitimize its reality, is representing a test before them to find how to give a worthy and fulfilling reaction to their anxiety. Various aides have been created to help human asset experts to discover headings right now apply different philosophies to work in those ways to demonstrate what they have conveyed.

The target of this paper is to address the issues went up against by these experts while endeavoring to ascertain ROI of preparing and advancement developers which request encourage sum to be put resources into by any association. The paper looks to endeavor to build the comprehension of what difficulties come in the method for directing a ROI assessment, by what method can the equivalent be managed and, in this manner, encourage estimation of ROI in preparing and advancement software engineers.

(Fleeter, 2016) in this paper author describe about the Return on Investment of Ohio's Public Libraries & a Comparison with Other States. Ohio's open libraries give a wide exhibit of administrations, extending from the course of materials (books, recordings, music in both physical and electronic organization), to reference administrations, work station and database get to, library programming, and meeting space. Ohio at present has 251 library areas. These areas shift in size from exceptionally little libraries serving populaces of 5,000 or less occupants to the biggest serving in excess of 850,000 inhabitants. In Ohio, open libraries have a totally different administration structure from open libraries in different states.

The initial two segments of this examination analyze Ohio's library framework expenses and degree of administrations with that of library frameworks in different states. From the point of view of this report it is lucky that libraries routinely gather and report natty gritty measurements about their activities.

For the investigation of study authors has visited 251 library areas. These areas shift in size from exceptionally little libraries serving populaces of 5,000 or less occupants to the biggest serving in excess of 850,000 inhabitants.

(Aabø, 2011) in this paper author focus on the what is the value of public libraries: a socio-economic analysis. The worldwide budgetary emergency is as yet undermining residents' government assistance and occupations, and therefore their potential outcomes to access and utilize private and open administrations. Open libraries get open finances which are rare and, hence, need to demonstrate how the citizens' cash is utilized to profit both the individual residents and the networks wherein they work.

Are the open libraries utilized as meeting places, and assuming this is the case, what sorts of gatherings occur in the library? Do they work as low-concentrated gathering places, where members are presented to the network in the entirety of its multifaceted nature? Do they work as a high-escalated meeting place where an individual experiences their inclinations together with companions and associates?

Are financial factors significant additionally in clarifying varieties being used of the library as a gathering place? Shouldn't something be said about clients' ethnic and semantic foundation? 3. Which classes of gatherings occur in the library and what can clarify varieties in the utilization of various types or classifications of gatherings?

Summary: During the most recent ten years another exploration field has developed. This new field is library valuation look into and the quantity of valuation studies and rate of return contemplates is quick extending. In a meta-investigation distributed a year ago, A much utilized plan is to report that the ROI proportion is, for example EUR 1: EUR 3.50, implying that for every euro of citizens' cash put resources into the library, the library restores an estimation of 3.50 EUR to the residents. This is a viable method to impart to lawmakers and citizens that for every euro contributed by open subsidizing the libraries return a worth that is higher.

(Tenopir; Volentine and Christian, 2013) they are studied about the Scholarly Reading by Academic Staff: Summary Results of a Study Conducted in 2012 at Two Universities in Australia. They are trying to understand answering the question what is the Lib-Value venture quantifies the worth, results, and rate of return of scholarly library assortments and administrations. This report quantifies the estimation of the library assortments by looking at Australian employees' insightful understanding examples and contrasting their utilization of the library and different hotspots for academic materials.

The inquiries depend on two chief segments pursuer related (socioeconomics) and perusing related. Pursuer related inquiries depend on the foundation of the respondent; the inquiries incorporate age, sex, level of work time spent on different exercises, number of individual memberships, and two proportions of late scholarly achievement—production record and record of late honors. The perusing related inquiries depend on the basic episode method originally created by Flanagan (1954). The basic episode strategy has since been applied to numerous specific circumstances, including libraries and readings (Radford 2006; Andrews 1991).

The inquiries spread numerous subtleties of that perusing, including time spent on the perusing, wellspring of perusing, motivation behind perusing, and estimation of the perusing to the reason. A total review instruments found in the informative supplement of this report.

Summary: Sixty-nine percent of article readings by Australian personnel respondents are gotten from a library or school/office membership, and 97% of those acquired through the library or school/division membership are from electronic assortments. While employees lean toward electronic assets to get data, print is as yet a famous method for perusing. 60% of article readings are perused on print-on-paper while 42% are perused on-screen. Just 7% of personnel readings are eBooks. Workforce get books from the library (37%) more frequently than they buy them (29%). The greater part of article readings is for the guideline reason for research (62%); book readings are for inquire about (40%) and educating (33%), while different productions are perused more for explore (29%) and composing (39%).

(Besara and Kinsley, 2011) both are described about Academic libraries – measuring up: assessment and collaboration for student success. This paper intends to depict how the Florida State University Libraries utilized evaluation information with different grounds accomplices to pick up subsidizing and assets for new activities. At the point when general financing sources were undermined, elective subsidizing sources from these grounds' accomplices were utilized to jump start new activities intended to improve understudy achievement.

This paper is a contextual investigation of how evaluation information filled the formation of another late-night peer tutoring program at the Florida State University Libraries. The three principal information channels that motivated another mentoring program were: an ethnographic investigation of college understudies, college classes with high disappointment/high enrolment/high drop rates, and an ecological sweep of existing grounds coaching.

Offering evaluation information to key accomplices can use financing and assets for new activities.

(Missingham, 2005) he describes about Libraries and economic value: a review of recent studies. This paper intends to plot the advancement of investigation into the estimation of libraries over the previous decade. There are following research question of the study; To diagram the advancement of investigation into the estimation of libraries over the previous decade. To Determining the estimation of libraries. To outlines esteem investigations of two national bibliographic administrations. There are numerous inquiries that still can't seem to be replied through utilizing this procedure. At the most essential level it isn't yet evident whether a specific numerical outcome speaks to the best rate of return for an individual library. The absence of similar of studies implies that the suitable degree of rate of return than that which the citizen or financial specialist ought to expect, still can't seem to be built up. Shows predictable utilization of unexpected valuation and rate of profitability for libraries in broad daylight and national library divisions. Each investigation took extensive assets and man hours to build up a network/client based monetary outcome. The examinations do give significant data with regards to the high worth put on library benefits when all is said in done by general society. At the most fundamental level it isn't yet certain whether a specific numerical outcome speaks to the best rate of profitability for an individual library.

Objective of the study

1. To provide an investigation study of return on investment (ROI) from library knowledge on the relevant literature review study on last for the past 20 years across the world.
2. To know only peer-reviewed papers on ROI which were published in English between 2000 and 2020.

Methodology

The method used for literature review on return on investment(ROI) from library was followed by Searching on various LIS databases , Scopus, Web of Science, <https://www.researchgate.net>, <https://scholar.google.com>, Google and <https://www.emerald.com> in October to December 2020. 33 out of a total of 200 papers were chosen, based on clear requirements for inclusion and exclusion.

Finding

New and emerging positions, mainly in the sense return on investment from libraries, have been identified. The ROI roles in institution, organization and librarians and their active participation in the process ROI background, history, ROI calculation method and study were highlighted in all defined function categories. As a way of ensuring effective ROI, performance between library faculty, organization, institute, scholars and librarians was recorded. The personal views of return on investment from library on their current and evolving positions have been recorded more frequently; more research is required to shed light on the performance, impact and assessment of return on investment from library, institution and organization participation in the learning process by research scholars, students and other users.

Scope and Limitation of the study

The research considered only peer-reviewed ROI papers which were published in English between 2000 and 2020. It concentrated on the positions of information specialists and not on the abilities of librarians and their changing professional responsibilities.

Conclusion: This paper attempts to provide investigation study of return on investment (ROI) from library knowledge on the relevant literature review study on last for the past 20 years across the world, practitioners have embraced them. It seeks to describe the functions mentioned in the literature Concerning trends in the profession of Library and Information Science (LIS). This review paper takes into account the growth of the LIS profession in an evolving climate. The world and provides an interpretation of the LIS profession's future path.

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