

Pre-Conference

Cutting Edge Technologies in the Library 4.0: Enhancing Reference Services in Caribbean Academic libraries with Virtual Reference Service (VRS) Cloud Software Technology

Date: 18th May, 2022.

Time: 11.30 AM (EC TRINIDAD &
TOBAGO TIME)

Presenters: Daisy St. Rose, Librarian, The UWI Open Campus, Saint Lucia Site

Colleen Johnson, Research Officer, The UWI Open Campus
Libraries & Information Services, Open Campus, Trinidad &

Tobago



Change Management and Resilience: Proactive Actions in Libraries, Museums and Archives of the Caribbean

PRESENTATION OUTLINE

Introduction - Virtual Reference Service (VRS) Definition & Features

Objectives

Research Methodology

Literature Review

Discussion

Limitation

Recommendations

Conclusion

References

INTRODUCTION

VIRTUAL REFERENCE SERVICES (VRS)

Ex Libris (2022) highlighted 3 trends shaping libraries:.

- The shift from traditional, face-to-face library services to digital services and delivery models
- Budgetary pressures forcing libraries to become more efficient
- Rising patron expectations prompt libraries to find ways of improving access and enhancing the patron's experience.

Additionally, due to the physical closure of several libraries as a result of COVID-19, more academic libraries remain accessible via VRS to support patrons remotely, with minimal interruptions (Baxter et al. 2021)

INTRODUCTION

VIRTUAL REFERENCE SERVICES (VRS) DEFINITION & FEATURES

DEFINITION

Patrons employ computers or other internet technology to communicate with library reference staff

Communication channels used frequently in virtual reference include chat, video conferencing, Voice over IP co-browsing, email, and instant messaging (ALA, 2021; 2017, 1).

VRS occurs both synchronously (chat) and asynchronously (email)

Reference services are initiated electronically, often in real time

SYSTEM FEATURES

Analytics Platforms (Statistics) - Monitoring, Evaluating, Manipulating Data

Level of Difficulty of Query (Staff Perspective)

Question Type

Demographics

Cloud Technology Software

Patron Satisfaction Survey

Quality of Service- Duration Including Time Taken to Respond

Subject/Interests)

Chat & Email Recorded

OBJECTIVES

- To discuss the use of a Virtual Reference Service (VRS) platform in enhancing patron access and experience in academic libraries
- To highlight challenges of a VRS platform in improving academic libraries' efficiency and effectiveness in a diverse Caribbean context.

For this study, the researchers used:

- **Case studies of libraries offering Virtual Reference Service (VRS) platforms**
- **Conducted an extensive review of the literature on the topic**

LITERATURE REVIEW

Virtual Reference Service (VRS) in Academic Libraries Accelerated Implementation

2002

Movement explored from manual to virtual reference since 2002.

Gaps identified in the role of the library and librarian in the digital age (Gottesman 2002)

ARL conducted a reference services and assessment survey which “revealed a situation in flux” (ARL 2002; Gerlich 2021)

2004

More growth of VRS led to Librarians’ demands for direction in setting up & operating newer VRS

Reference & User Services Association (RUSA) - ALA introduced the *Guidelines for Implementing and Maintaining Virtual Reference Services (VR Guidelines)*

2020-2022

VRS, the most common form of real time reference communication in the library today (Abubakar 2021)

LITERATURE REVIEW

HOW VRS ENHANCES ACCESS & PATRON EXPERIENCE

There was an increase in email and chat reference interactions and virtual consultations.

(De Groote and Mi Scoulas (2021))

Libraries pivoted quickly to have the VRS running to be able to keep communication open virtually. (Nicolas 2021)

Improved how library staff handles enquiries and provided a “more efficient way of passing these on to colleagues and monitoring progress”

Libraries used the VRS to increase virtual support and continue to meet spikes in utilization of the reference services by patrons during COVID-19 (De Groote and Mi Scoulas (2021))

Nicolas (2021), an academic library, for example, saw a 38.2% increase in their VR transactions (excluding their 24/7 chat) over the same period from 2019-2020.

Increase in the use of virtual support for patrons, both synchronously and asynchronously, with additional functionality of libraries’ services (Baxter 2021) and access to library services in the Caribbean and the rest of the world (Greenberg & Bar-Ilan 2015; Tenopir 2004)

LITERATURE REVIEW

HOW VRS FACILITATES & ACCOMMODATES INTERNAL & EXTERNAL PATRONS

Facilitates:

- Patron engagement & improvement in customer services
- Ability to target/refine & tailor materials and services geared toward a specific group of users

Facilitates:

- Patron usage trends to inform service improvements e.g:
 - Busiest Times
 - Subject Coverage
 - How Questions are Asked
- A more standardised way for libraries to demonstrate how they add value to their institutions success.

Accommodates:

- Patron anonymity
- Synchronous & asynchronous interaction at patron convenience
- Extended hours

DISCUSSION

COVID-19 AS A CATALYST FOR VRS

System rollouts of service platforms greatly hastened online to support teaching, learning and research via remote work. Figure 1 shows Greenhall's (2020) study for Research Libraries United Kingdom (RLUK). Of the 336 respondents in his study, 61% held the view that COVID-19 has been a catalyst for change and encouraged or embedded pre-existing ways of working at a faster pace

- Total Respondents - 336
- Catalyst for change - 61%

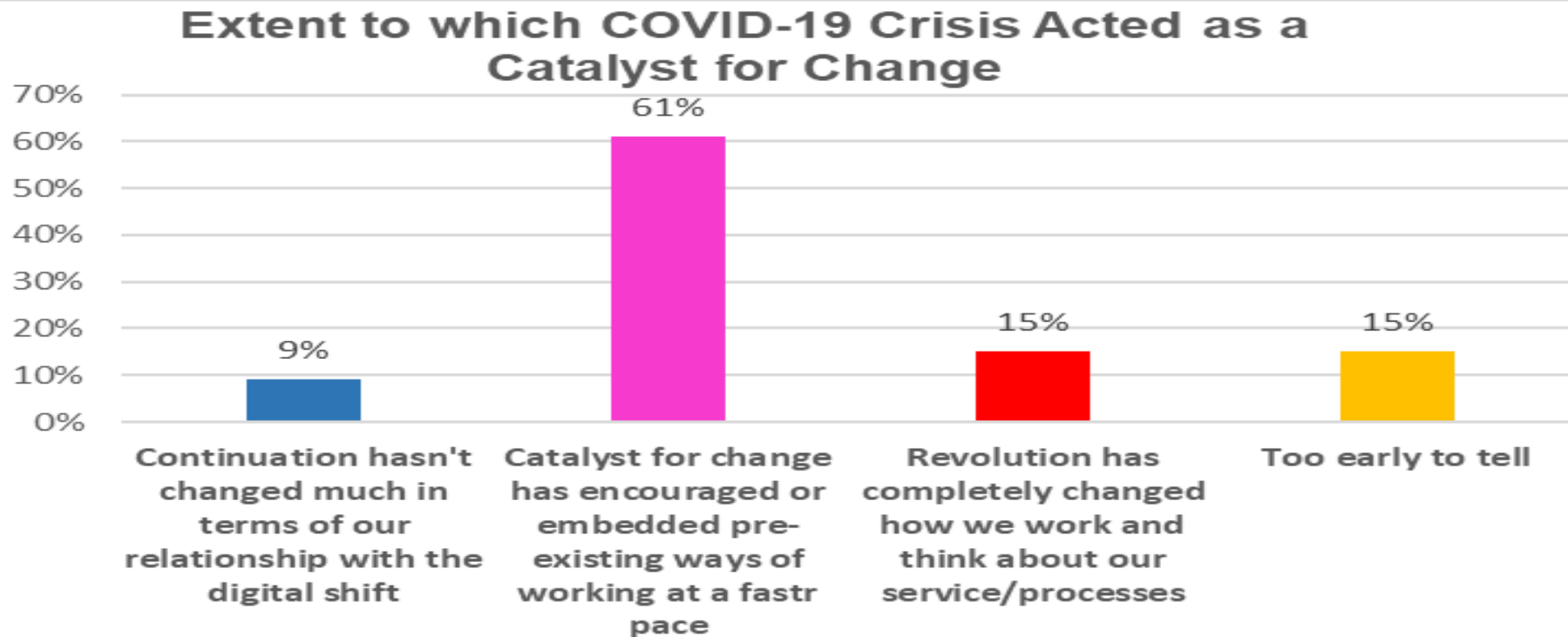


Figure 1 Adapted from Greenhall's (2020) study by Research Libraries United Kingdom (RLUK)

Transition to remote working challenged long held assumptions regarding which roles and tasks could be completed remotely, and the suitability of technology in research libraries to support these (Baxter, Beard, Beattie, Blake, Greenhall, Lingstadt, & Reimer 2021)

DISCUSSION

How VRS Models Enhanced Access & Improved Patron Experience in Libraries

Libraries had already taken steps towards these initiatives and transitions prior to the COVID-19 pandemic (Greenhall 2020)



COVID-19 was “a catalyst for pre-existing change rather than a cause of the change itself” (Greenhall 2020b; Dempsey 2020; St. Rose & Johnson 2022)

Enhances Resource access:

Allows for identification of themes for specific resource needs and of target groups:

- Statistics - evidence-based data
- Development of a comprehensive knowledge base & FAQ repository with accurate answers
- Relevant instructional support and information literacy
- Marketing



Improves Patron experience through identification of service gaps, e.g.:

- Usage trends
- Scheduling time - missed & concurrent chats data
- Busiest times
- Subjects requested

**There was rapid realignment of libraries to a more digital mode during COVID-19
Research libraries showed the ability to adapt quickly & effectively to unprecedented circumstances
(Baxter, Beard, Beattie, Blake, Greenhall, Lingstadt, Nixon, & Reimer 2021)**

DISCUSSION

VRS Functionalities Facilitate Best Practice for Librarians

VRKB Repository of evidence based data in a Caribbean context

Comprehensive Knowledge Base; FAQ repository generated from online reference services

Data and information evaluated for quality assurance measures Kern (2009) to supply better insights into data

Has the ability to prioritize, manage and preserve information e.g. Caribbean special collections material

Saves time Economically benefits libraries with significant savings in Library business (Armenti 2003)

Identifies key themes to set goals. Creates a more useful Website, Marketing & Promotional activities

Discerns specific resource needs; instructional support Information Literacy

Searchability of “electronic archive of question & answer pairs” by patrons (Armenti 2003)

VRKB allows libraries to give timely and accurate answers within a cooperative & networked environment & knowledge exchange

Archival value of knowledge bases: “Because they provide a way to store communications between the reference librarian and the user, they preserve generated knowledge and its repeated use in a search for new information” Bosancic 2010.

DISCUSSION

VRS Supporting Library Staff Collaboration, Development & Training Needs

Make more informed staffing decisions

- When & Who to staff,
- Determine Training Requirements

GOAL SETTING

Allows library staff to set goals supporting teaching, learning & research needs of the Caribbean society

Find out where they are in relation to their individual training, development and collaborative goals

KNOWLEDGE MANAGEMENT

Distribution of Reference Librarians' expertise through responses to patrons

Furnishing knowledge distribution as part of knowledge management (Armenti 2003)

COLLABORATION

Move to remote working facilitated cross team online collaborations and communication for improving the service offered to patrons

EFFECTIVE CUSTOMER SERVICE

Facilitated opportunities to increase patron engagement and customer service

Facilitates building on a bedrock of core skills to provide a solid foundation for support digital skills and services to patrons (Baxter, Beard, Beatie, Blake, Greenhall, Reimer 2021)

VRS brought library teams closer together (Nicolas 2021)

DISCUSSION

VRS - Supporting Course Development & Decision-Making

Libraries worked to promote, optimise & build upon their strong digital presence via VRS especially during the COVID-19 lockdown periods (Greenhall 2020)

This included the rebranding of library webpages as a virtual library & proactive promotion of library digital resources (Greenhall 2020)

Libraries were “able to demonstrate a range of roles confidently, as provider of training content, as partner in the development of online learning materials, & as a pioneer in training delivery & skills development” (Baxter, et. al. 2021)

Significant increase in the use of digital resources & recognition of the breadth & variety of digital resources offered by the library (De Froote, & Mi Scoulas, 2021; Greenhall 2020), Nicolas 2021)

Realisation of greater opportunities for the Caribbean to increasingly look at their own unique content that could provide material to enhance teaching, learning & research e.g. hybrid teaching (Greenhall 2021; Guy et. al. 2021)

DISCUSSION



Benefits of VRS to Caribbean Academic Libraries

Create context setting goals and taking measures (quantitatively & qualitatively) to find out where the libraries are in relation to their individual or collaborative goals of supporting their mission

Provide evidence-based data in a Caribbean context & highlight best practices

Virtual reference transactions stored in a knowledge base repository

Built up around specific topics or queries, e.g. for Caribbean resources

Can allow libraries to provide an analytical view of how the methodologies used by internal and external stakeholders impact performance (Harrison & Deans 2021)

Foster collaboration & partnerships in the Caribbean region

Opportunities for service & quality assurance evaluation based on what libraries in the Caribbean want to achieve e.g., performance, trends, features, extent to which patron needs are satisfied, usability & organisational issues (Pinto & Manso 2012)

DISCUSSION

VRS CHALLENGES

OVERARCHING LOGISTICAL AND TECHNICAL CHALLENGES ACCELERATED DURING COVID19 PANDEMIC LED TO :

- *Greater adoption of e-content across disciplines & use of digital collections*
- *Physical dependence on digital infrastructure*
- *Recognition of gaps in digitisation of archival and special collections content material for libraries*

Users' Challenges

1. Patrons' diverse views on libraries perception/understanding of the extent & nature of the digital shift
2. Patron and staff perception of the library as a “physical building, offering physical services” (Baxter et al. 2021)
3. Increased logistical challenges such as recruitment freeze with the advent of COVID-19 resulting in the day-to-day stresses of operating longer hours virtually.
4. The urgency of functioning remotely & virtually revealed variable levels of “digital inequality amongst patrons and staff (ALA 2021; Baxter et al. 2021; Peet 2020)

DISCUSSION

OVERARCHING LOGISTICAL AND TECHNICAL CHALLENGES ACCELERATED DURING COVID19 PANDEMIC LED TO GREATER

VRS CHALLENGES

- *Greater adoption of e-content across disciplines & use of digital collections*
- *Physical dependence on digital infrastructure*
- *Recognition of gaps in digitisation of archival and special collections content material for libraries*

Technological Challenges

- Patron reach and access to library online collections, databases and other library services.
- Varying levels of digital literacy and digital poverty for patrons and library staff “highlighted the potential of the digital shift to leave many people behind” Baxter, Beard, Beattie, Greenhall, Lingstadt, Nixon, & Torsten Reimer (2021)

VIRTUAL REFERENCE SERVICES IN CARIBBEAN ACADEMIC LIBRARIES

The University Libraries, The University of the West Indies

Examples: St Augustine Campus: Alma Jordan Library
Springshare LibAnswers, chat, email, Facebook



THE UNIVERSITY OF THE WEST INDIES ST. AUGUSTINE CAMPUS, TRINIDAD AND TOBAGO THE ALMA JORDAN LIBRARY

The Alma Jordan Library / Ask a Librarian

Ask a Librarian

13 Answers

Type your question

Search

Browse:

All

Groups ▾

Topics ▾

Ask Us!

 [Submit a Question](#)

 (868) 662-2002 Ext. 82132

 [AJL Facebook](#)

Topics

[Alma Jordan Library](#) [Disabilities](#)
[Electronic Resources](#)
[Library Card Usage](#)

[Library fee based services](#)

[Online payments](#) [Past Papers](#)
[Proquest eBooks](#) [Style Guide](#) [Turnitin](#)
[West Indiana](#)

Browse FAQs

Recent

Popular

[How do I donate items to the library](#)

Last Updated: Feb 23, 2021 | Views: 23

[How do students with disabilities write exams?](#)

Last Updated: Dec 02, 2020 | Topics: [Disabilities](#) | Views: 27

[How can I search for an ebook from the Proquest eBook Central platform?](#)

Last Updated: Nov 23, 2020 | Topics: [Proquest eBooks](#) | Views: 31

[Can you help me with Turnitin?](#)

Last Updated: Nov 23, 2020 | Topics: [Turnitin](#) | Views: 37

[Where can I locate past exam papers online?](#)

Last Updated: Nov 20, 2020 | Topics: [Past Papers](#) | Views: 88

[Can I make payments for Library services at the Library?](#)

Last Updated: Sep 28, 2020 | Topics: [Library fee based services](#) | Views: 61

[Which Style Guide does my Faculty use?](#)

Last Updated: Sep 27, 2020 | Topics: [Style Guide](#) | Views: 70

VIRTUAL REFERENCE SERVICES IN CARIBBEAN ACADEMIC LIBRARIES

The University Libraries, The University of the West Indies

Mona Campus Library

Kayako Help Desk Software, chat, email, Whatsapp



THE UNIVERSITY OF THE WEST INDIES
AT MONA, JAMAICA

MONA LIBRARY

Home About ▾ Resources ▾ Services ▾ Information for ▾ News & Events ▾ How to ▾

UWI > Mona > Mona Library > FAQ > Ask a Librarian

Share |



FAQ - Ask a Librarian



You may also speak with a reference librarian in person at any one of our branches.

- › Where can I find background information on my Research Topic/Essay Title?
- › Where can I get help with using UWilinC?
- › What is UWilinC?
- › What are the procedures to borrow a loaner Tablet from the Library?
- › Which items can I borrow and what are the loan periods?
- › May I renew a book I borrowed?
- › How can I access the Gleaner archives?
- › Where can I find past examination papers?
- › May I reserve a book that is out on loan?

VIRTUAL REFERENCE SERVICES IN CARIBBEAN ACADEMIC LIBRARIES

The University Libraries, The University of the West Indies

Open Campus - Library & Information Services

Springshare Libanswers Software- email, chat, FAQ, Whatsapp

The screenshot displays the website for the University of the West Indies Open Campus. At the top left is the university's crest and the text 'THE UNIVERSITY OF THE WEST INDIES OPEN CAMPUS'. To the right is a navigation menu with 'About UWI', 'Admissions', and 'Academics'. Below this is a banner for 'Open Campus Libraries & Information Services' featuring a photo of students. A secondary navigation bar includes 'OCLIS', 'Libraries', 'Services', 'Reference & Research', 'Collections', 'Sign in My Library Account', and 'Contact Us'. The main content area is titled 'Ask A Librarian' and includes links for 'Live Chat', 'Email', and 'FAQ'. A paragraph explains the service, and a list of three bullet points provides usage instructions.

THE UNIVERSITY OF THE WEST INDIES
OPEN CAMPUS

About UWI Admissions Academics

Open Campus Libraries & Information Services

OCLIS Libraries Services Reference & Research Collections Sign in My Library Account Contact Us

Home | LIBRARY | ASK A LIBRARIAN

SHARE: f t g+

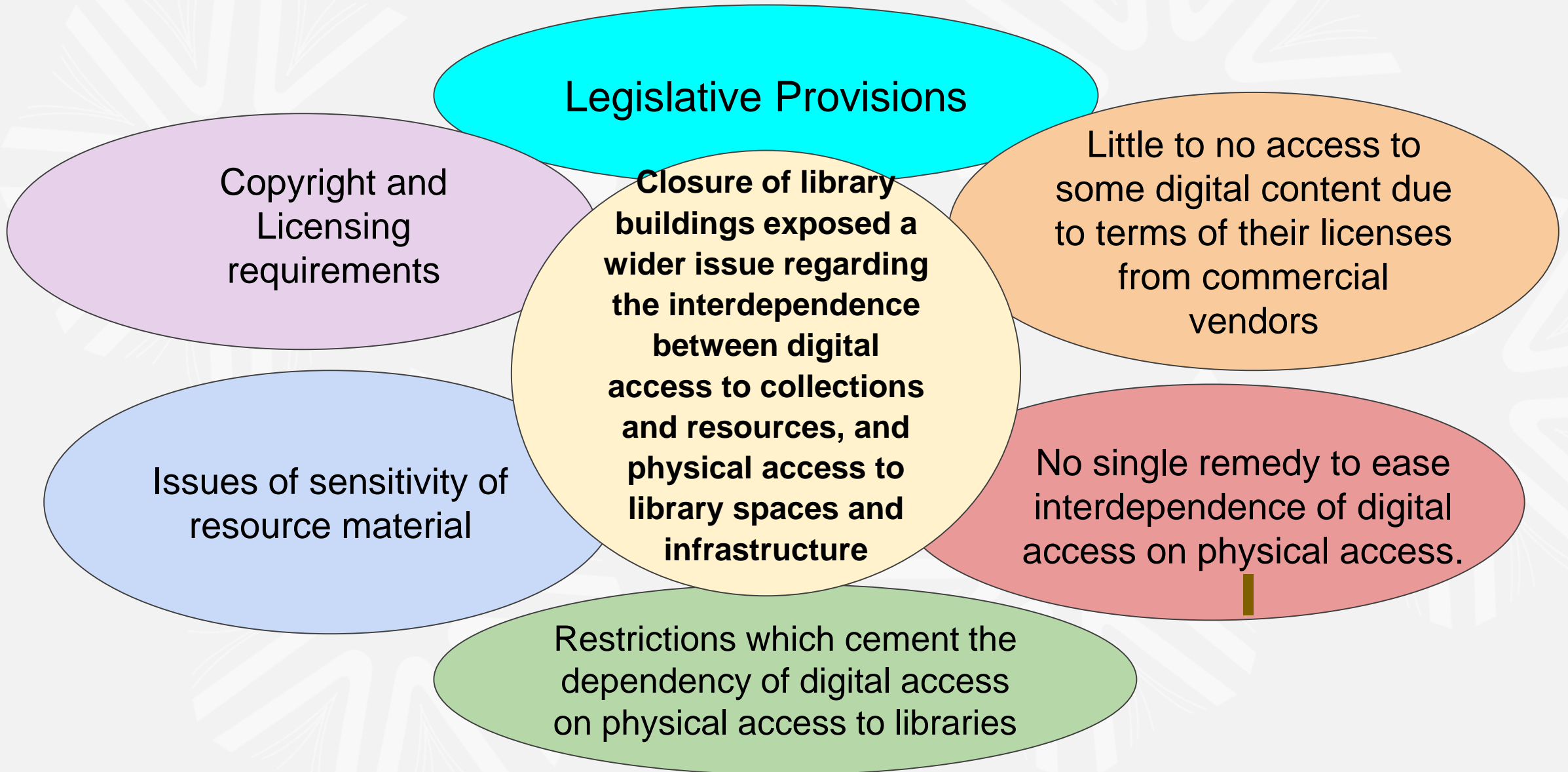
Ask A Librarian

Live Chat | Email | FAQ

The Ask A Librarian service is a virtual reference service that allows you to email or chat online with staff of the Open Campus Library and Information Services as well as search a list of frequently asked questions (FAQ). Chat is available to the UWI Open Campus community. To use chat you must sign in with your MyOC credentials, that is your MyOC username and password. Alternatively, any user may send a question or comment via email or browse our FAQ, no sign in is required.

- Use the Ask A Librarian service for assistance with Library resources and research, or for general Library queries and comments.
- Live chat with Library staff is available Monday - Thursday from 11:00 am to 8:00 pm, and on Fridays from 11:00 am to 5:00 pm. All times are GMT/UTC -4.
- You may submit a question or comment via email at any time. You may normally expect to receive a response within 24 hours.

LIMITATIONS OF VRS



Considerable time is needed to resolve these issues

LIMITATIONS OF USING VRS

Examples

- Restrictions cement the dependency of digital access on physical access
- Some databases could only be viewed on dedicated terminals due to licensing agreements. There was vendor resistance against releasing remote access to libraries
- Little to no access to some digital content due to the terms of their licenses (for commercially purchased material)
- Copyright restrictions (such as some in-copyright, digitised materials), confining viewing of content within library buildings

Source: Baxter, Beard, Beattie, Blake, Greenhall, Lingstadt, Nixon & Torsten Reimer (2021)

RECOMMENDATIONS

VRS AND COPY/USER INFORMATION RIGHTS

Need for greater discussion on ethical approaches to the use and rights to information

VRS DEVELOPMENT AND USE OF POLICY GUIDELINES

Library staff embracing **'anchor points'** through development and implementation of institutional policy guidelines that support and maintain professional values and practice of the profession and ensure that these can be developed "in tandem with more technical skills" (Chowdhury 2021)

VRS AND WORKING CULTURE

The **'digital shift'** requires a new working culture (change management), especially when seen as an opportunity to support staff resilience and flexibility (Baxter, Beard, Beattie, Blake, Greenhall Lingstadt, Nixon & Reimer (2021)

CONCLUSION

Greater Implementation & Use Of Innovative Systems Such As VRS

In keeping with the current & rapid technological changes & attendant transformation of reference services to VRS, Nicol and Cook (2021), noted that libraries in the Caribbean must take a page from libraries in the developed world to remain contemporary and relevant especially with the advent of COVID 19

- Allows for standardising, improving, and optimising patron engagement and customer service needs as a new priority in libraries (Abubakar 2021; St. Rose & Johnson 2022)
- Facilitates comprehensive knowledge bases of questions, responses & Caribbean collections with authoritative information on Caribbean culture, literature, history, society, economics & sciences (Iton 2015; St. Rose & Johnson 2022)
- Enhances service offerings both synchronously and asynchronously to increase library reference service efficiency & effectiveness in a timely manner
- Impacts library staff positively & can assist with training & skills development, building confidence, & fostering networked & collaborative environments bringing Caribbean academic libraries closer as leaders & pioneers in Caribbean research.
- Saves time & money, can improve digital literacy & allow for better evaluation of services through built in statistics, analytics, knowledge sharing & distribution (Armenti 2003; St. Rose & Johnson 2022)



REFERENCES

Abubakar, M. K. (2021) Implementation and Use of Virtual Reference Services in Academic Libraries during a and post COVID-19 Pandemic: A Necessity for Developing Countries, ARL. (2002).

American Library Association (ALA) and Reference and User Services Association (RUSA) (2003), “Draft guidelines for implementing and maintaining virtual reference services”, available at: www.ala.org/ala/rusa/rusaourassoc/rusasections/mars/marssection/marscomm/draftvirtual.htm

American Library Association (ALA) and Reference and User Services Association (RUSA) (2008), “Definitions of reference”, available at: www.ala.org/ala/mgrps/divs/rusa/archive/protools/referenceguide/definitionsreference.com

Greenhall, M. (2020). Covid-19 and the digital shift in action, RLUK Report.

Pinto, Manso, & Manso, (2012), "Virtual references services: defining the criteria and indicators to evaluate them", The Electronic Library, Vol. 30 Iss: 1 pp. 51-69.

Armenti, P. (2003). “Building a Knowledge Base: Justifications, Challenges, and the Library of Congress Experience” presented at the Virtual Reference Desk Conference, San Antonio, Nov. 17–18, 2003).

Bosančića, B. (2010). A Blueprint for Building Online Reference Knowledge Bases, 50(2). Retrieved from <https://journals.ala.org/index.php/rusq/article/view/3229/3398>, accessed March 10th, 2022.

Christopherson, L. (2011). Can u help me plz?? Cyberlanguage accommodation in virtual reference conversations. Proceedings of the American Society for Information, Science and Technology, 48, 1–9.

De Groote, S., & Mi Scoulas, J. M. (2021). Impact of COVID-19 on the use of the academic library. Reference Services Review. Retrieved from: https://scholar.google.com/citations?view_op=view_citation&hl=en&user=8ZulllkAAAAJ&citation_for_view=8ZulllkAAAAJ:LkGwnXOMwf

Gerlich, B.K. (2022). READ SCALE research. Retrieved from <https://readscale.org/read-scale.html>

Gottesman, L. 2002. Digital reference: Bring the reference desk to cyberspace. Retrieved from <https://www.loc.gov/loc/lcib/02034/digital-ref.html>

Greenberg, R., & Bar-Ilan, J. (2015). "Ask a librarian": Comparing virtual reference services in an Israeli academic library. *Library & Information Science Research*, 37(2), 139-146.

Iton, I. (2015). The unopened door: the virtual world and reference services reality in the Caribbean. Retrieved from https://www.researchgate.net/publication/267403601_The_Unopened_Door_The_Virtual_World_and_Reference_Services_Reality_in_the_Caribbean/link/54db827a0cf233119bc63700/download

Kern, M. K. (2009). *Virtual reference best practices: tailoring services to your library*. Chicago: ALA.

Montalvo, M. (2016). *Virtual Reference Services in a Caribbean Academic Library: Helping Users Serve Themselves*, p 22-34. Retrieved from <https://doi.org/10.1080/02763877.2015.1088425>

Nelson, K. S., & Tugwell, Y. V. (2022). "Information-seeking behaviour of students at a Caribbean University during the COVID-19 pandemic", *Library Management*, Retrieved from <https://doi.org/10.1108/LM-10-2021-0089>

Nicolas, G. (2021). Libraries & The Pandemic Response: A 3-part Client Story Series. Retrieved from <https://blog.springshare.com/2021/05/18/libraries-the-pandemic-response-a-3-part-client-story-series/>

Shachaf, P. & Horowitz, S. M. (2008). Virtual reference service evaluation: Adherence to RUSA behavioral guidelines and IFLA digital reference guidelines. *Library & Information Science Research*, 30(2), June 2008, 122-137.

Strothmann, M., McCain, C., & Scrivener, L. (2009). "Ask a Librarian" pages as reference gateways to academic libraries. *The Reference Librarian*, 50, 259–275.

Tenopir, C. (2004). Rethinking virtual reference. *Library Journal*, 129(18), 34–35. University of Arizona, Retrieved from <https://support.arizona.edu/>

The UWI Open Campus Library. Retrieved from www.open.uwi.edu/library

The UWI Cave Hill Sidney Martin Library. Retrieved from <https://www.cavehill.uwi.edu/mainlibrary/home.aspx>



Contact us:



daisy.st.rose@open.uwi.edu
colleen.johnson@open.uwi.edu



www.open.uwi.edu



UNLOCK THE DOOR TO YOUR FUTURE

QUESTIONS?

