

AN ANALYSIS OF DIRECT RECIPROCAL BORROWING AMONG CREPUQ LIBRARIES

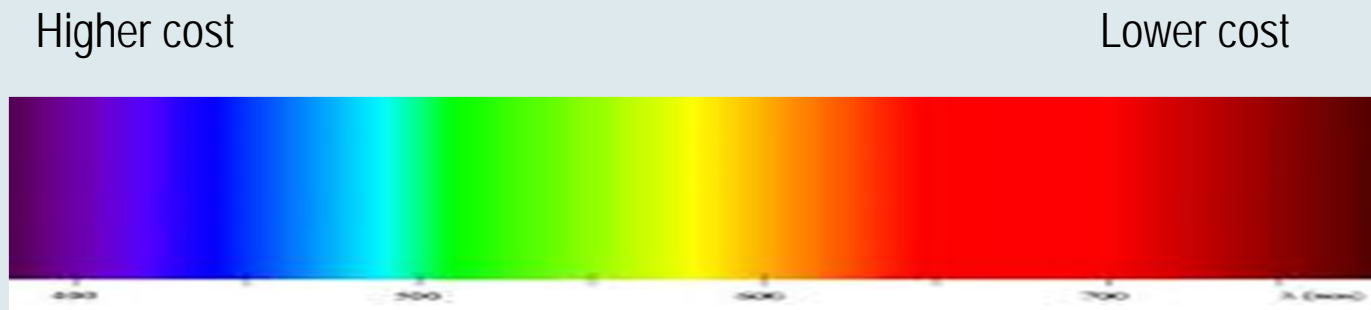


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INTRODUCTION

■ Spectrum of Resource Sharing:



Interlibrary Loan

- ILL system
- ILL staff

Consortial Shared catalogue

- circulation system
- circulation staff

Direct Reciprocal Borrowing

RESEARCH QUESTIONS

- How much resource sharing activity is there within CREPUQ (ILL and direct reciprocal borrowing)? What is the ratio of ILL to direct reciprocal borrowing?
- Is the amount of direct reciprocal borrowing activity related to the size of the library's collection, student size, or physical distance from other libraries?
- What can social network analysis tell us about direct reciprocal borrowing within CREPUQ?

METHODS

- Direct Reciprocal Borrowing
- Total Circulation
- FTE students
- Collection size (physical)

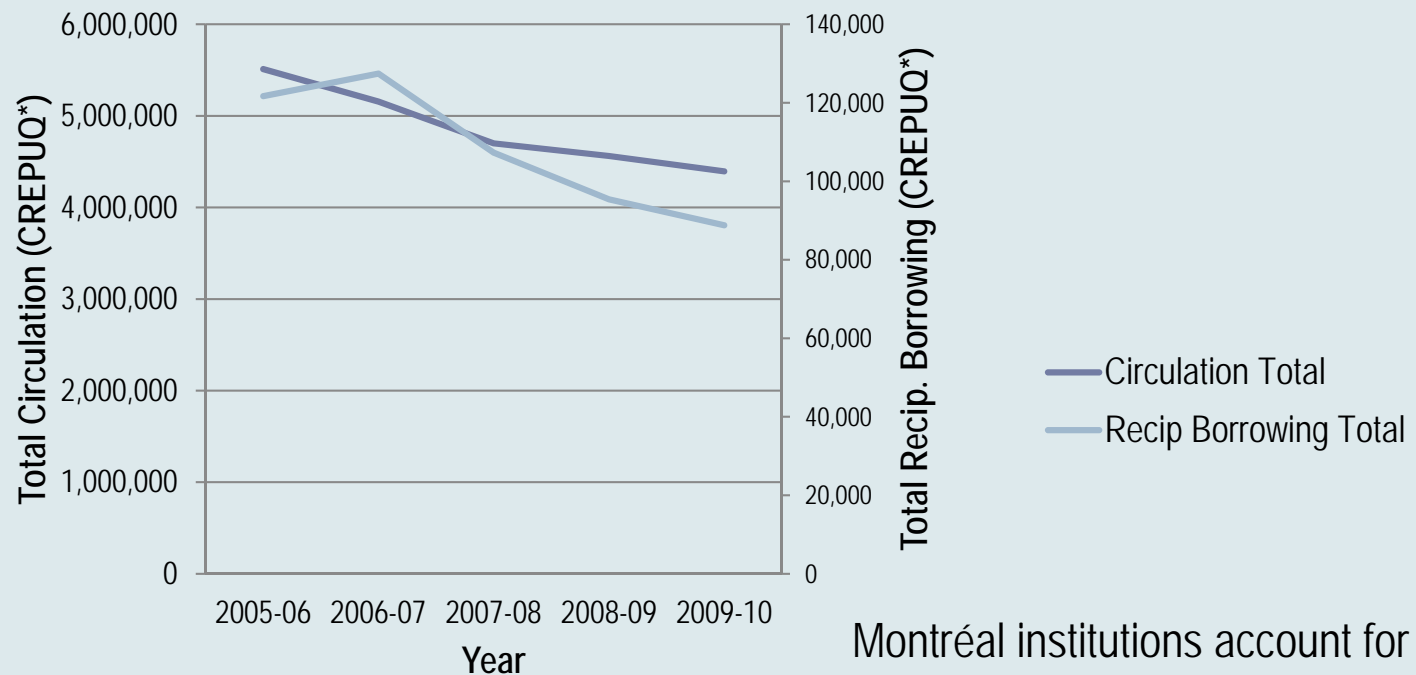


CREPUQs Statistiques générales des bibliothèques universitaires québécoises (2005-10);
Tables 24, 20, 4, 14

- CREPUQ ILL –COLOMBO *Statistiques Annuelles (2007-10)*
- Distances between institutions – Google Maps
- Analysis: Excel, SPSS, UCInet and NetDraw

RESULTS: GENERAL OBSERVATIONS

Total Circulation and Reciprocal Borrowing (2005-10) for CREPUQ

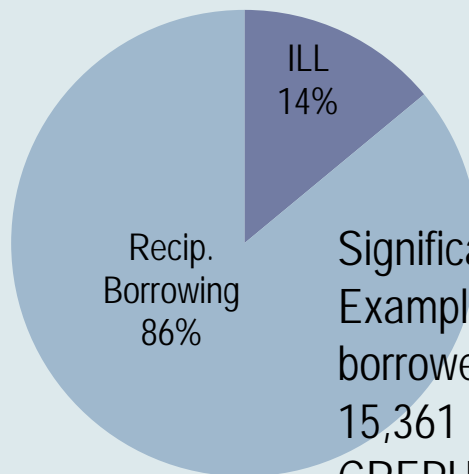


*Some institutions are missing data for certain years

Montréal institutions account for 91% of the traffic in reciprocal borrowing, 67% of the traffic for total circulation

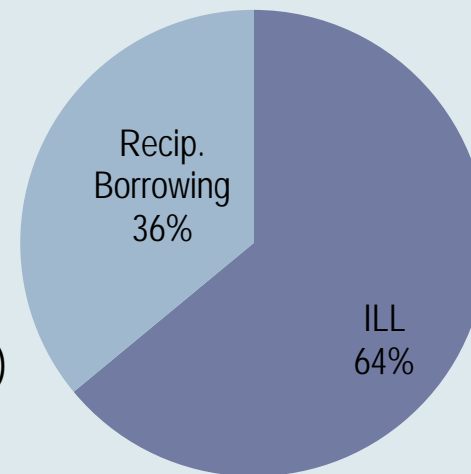
RESOURCE SHARING BREAKDOWN

Montréal CREPUQ Libraries' Resource Sharing Activity 2007-10
(Borrowing + Lending)



Significant cost savings
Example: Concordia users borrowed on average (05-10) 15,361 items from other CREPUQ libraries through direct reciprocal borrowing (we lent over 17,272 items)

Non-Montréal CREPUQ Libraries' Resource Sharing Activity 2007-10
(Borrowing + Lending)



TELUQ and INRS were not included in either category due to their multi-campus/online nature

CORRELATIONS

- Significant positive correlations were observed between total items borrowed and loaned through direct reciprocal borrowing and:
 - Number of FTE students
 - Library's collection size (physical materials)

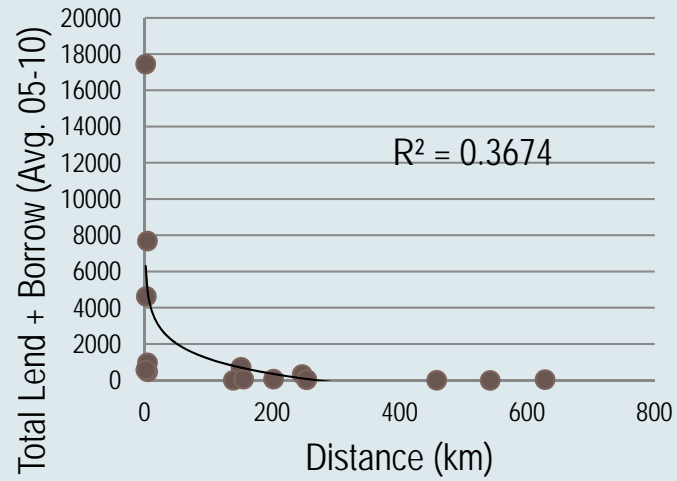
EFFECT OF DISTANCE

- The total amount of borrowing and lending done between CREPUQ institutions between 2005-10 was averaged and plotted in relation to the distance in kilometers between the two institutions

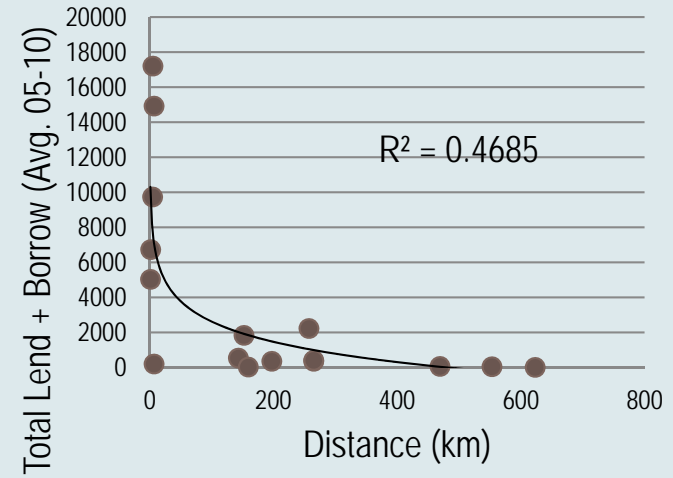
Institution 1	Institution 2	Distance (KM)	Borrowing + Lending
Concordia	McGill	1,4	17455,6
Concordia	UdeM	4,3	7688,2
Concordia	HEC	4,5	476,8
Concordia	Poly	4,3	971,8
Concordia	Sherb	151	722,8
Concordia	Laval	247	322,6
Concordia	UQAC	458	2,6
Concordia	UQAM	2,5	4633,3
Concordia	UQAR	542	0,4
Concordia	UQAT	628	36,3
Concordia	UQO	202	67,5
Concordia	UQTR	139	9,0
Concordia	ENAP	254	38,3
Concordia	ETS	1,7	579,8
Concordia	INRS	254	45,5
Concordia	Bishop's	155	69,0

Montréal Universities

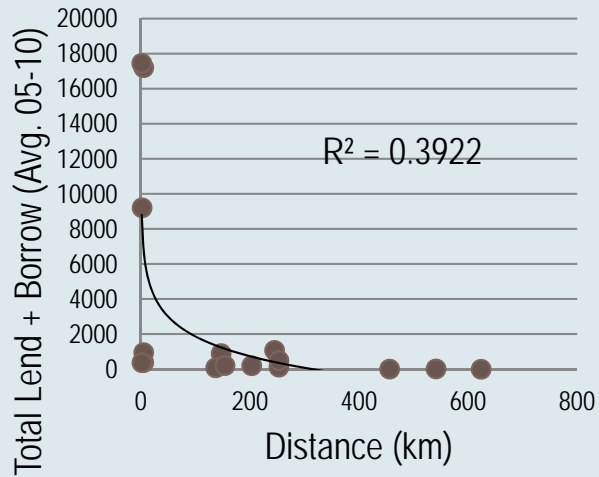
Concordia



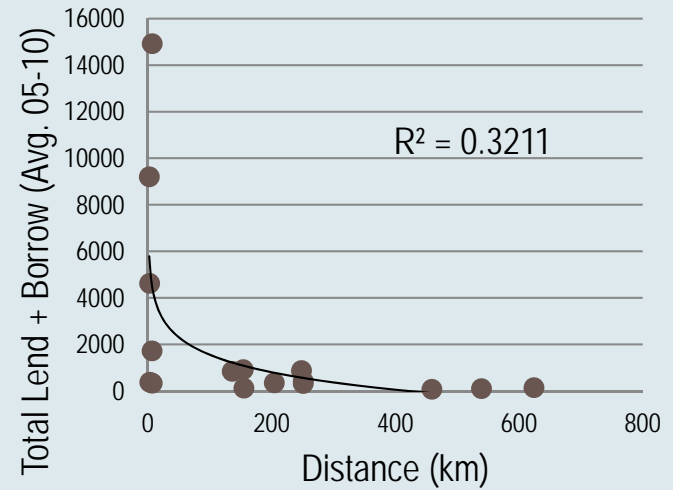
Université de Montréal



McGill

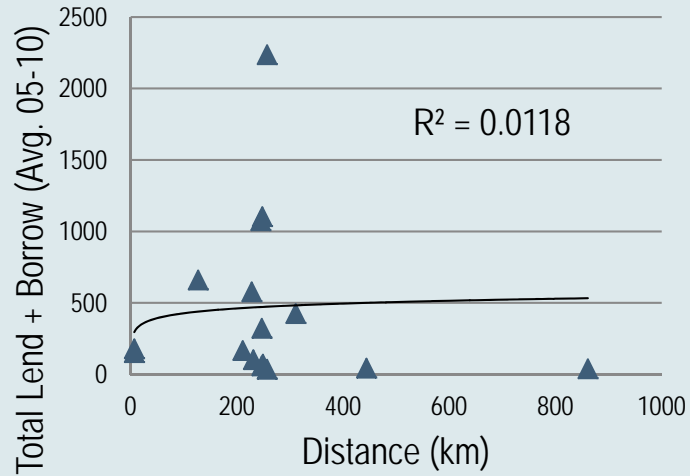


UQAM

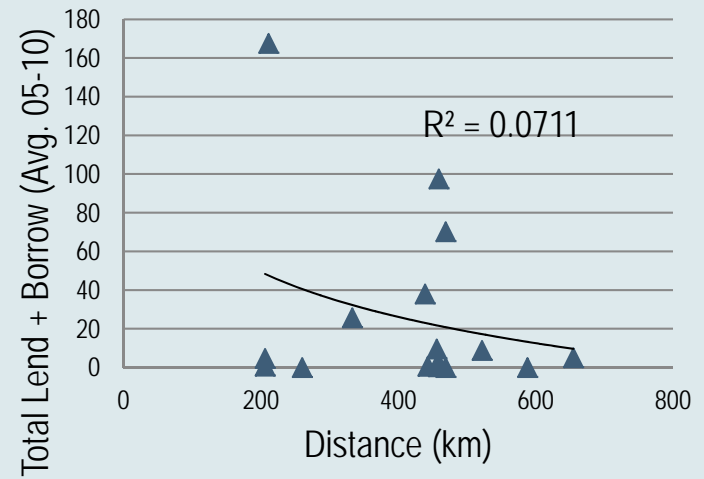


Non-Montréal Universities

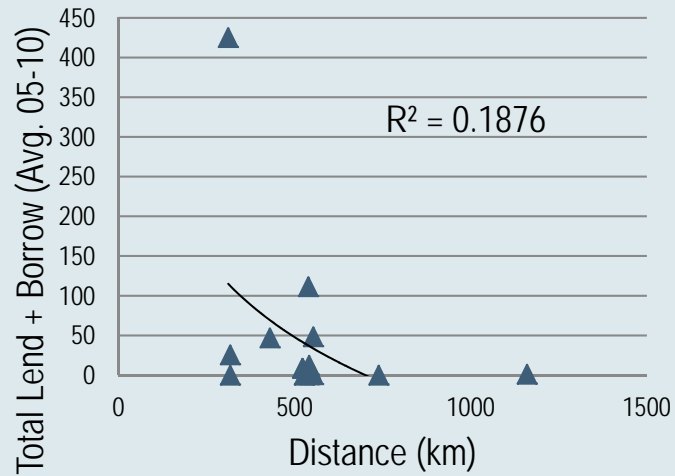
Laval



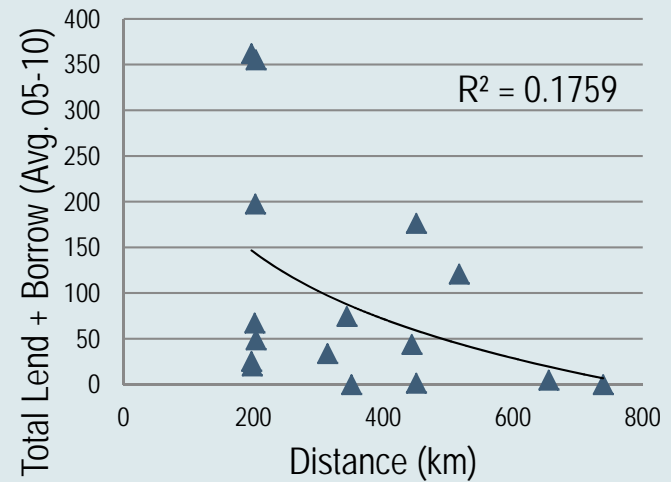
UQ Chicoutimi



UQ Rimouski



UQ Outaouais



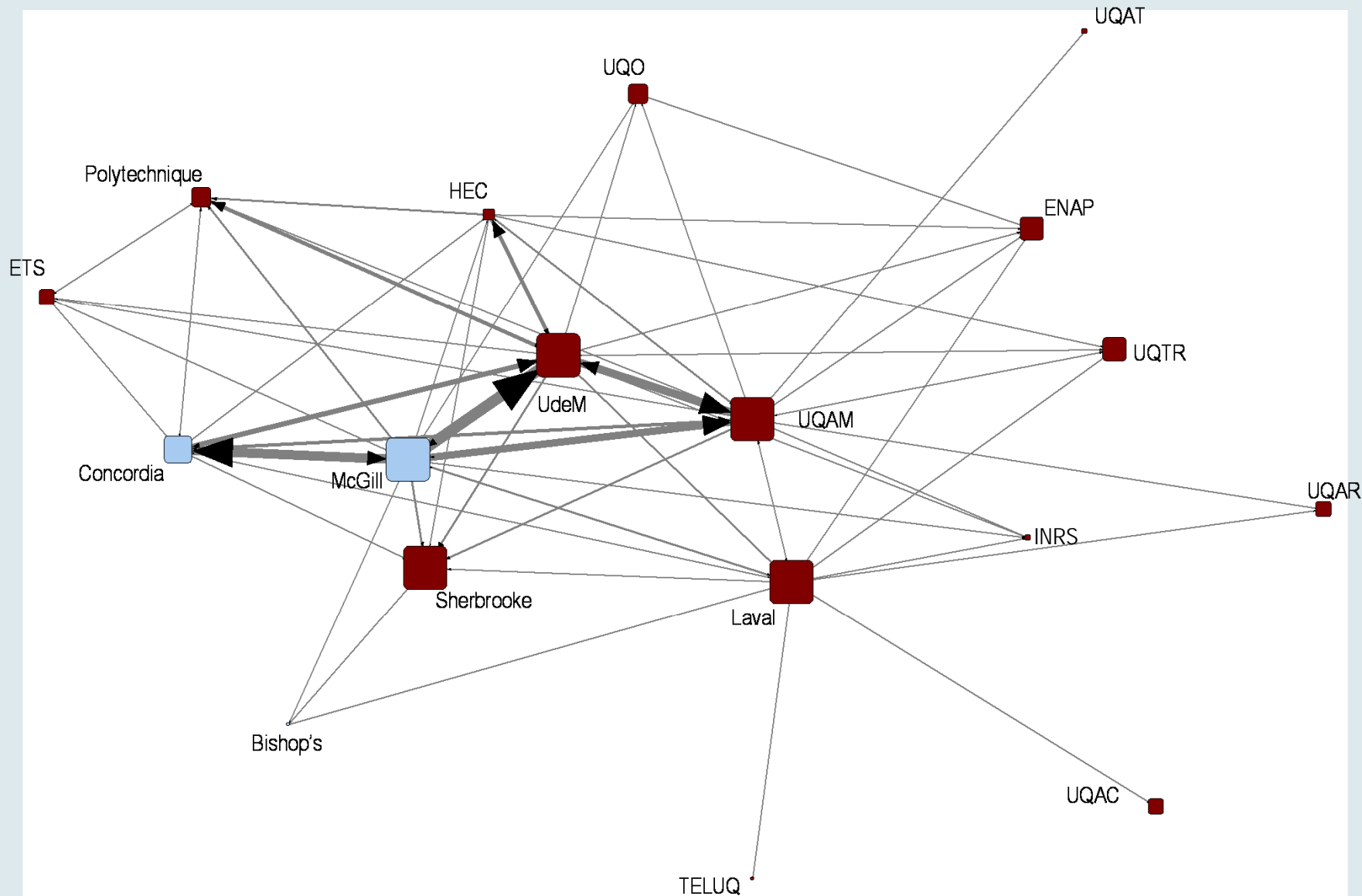
SOCIAL NETWORK ANALYSIS (SNA)

- Networks are “a general yet powerful means of representing patterns of connections or interactions between the parts of a system”¹
- “the opportunities for social network analysis research in library specific contexts remain outstanding”²

1. Newman, M.E.J. (2010). *Networks: an introduction*. Toronto: Oxford University Press.

2. Schultz-Jones, Barbara. (2009). Examining information behavior through social networks. *Journal of Documentation* 65, 592-631.

Network Diagram: CREPUQ Direct Reciprocal Borrowing 2005-2010



CONCLUSIONS/RELEVANCE

- Different resource sharing patterns between Montréal and non-Montréal libraries; effect of distance, collection size, FTE
- Resource sharing of physical materials may play an important role as questions of storage space escalate (e.g. consortia-wide storage of physical materials?)
- Studying resource sharing patterns will allow us to better understand and plan for the use of these services

ACKNOWLEDGEMENTS

- CREPUQ
- Concordia University Libraries

Questions?