Infrastructure Investment Tools Search - Detailed Grid

(Bold rows denote tools designed specifically for aboriginal communities)

Investment Stage	Name/Type of Tool	Description of the Tool	Title / Name of Policy / Program /Publication	Author / Contact Person	Date	Country / Region	Type of Infrastructure					Availability	Accessability	Current Uses / Success Stories	Restrictions on Use	Advantages	Disadvantages	Barriers	Community Capacity Required	Applicability to Canada	Location			Aboriginal Context	Value of Info / Tool	Web Source
							Transport	Utility	Social	Technology	Other										Metro-Adjacent	Non Metro-Adjacent	Remote			

Across All Stages

001 National Guide

001	Formal Planning Tools	Using Formal Methods Or Computer Programs To Track Integrated Projects	From: *Coordinating Infrastructure Works: A Best Practice By The National Guide To Sustainable Municipal Infrastructure.* Created Through Consultation With Stakeholders From Canadian Municipalities. National Research Council And Federation Of Canadian Municipalities.	A Best Practice From National Guide To Sustainable Municipal Infrastructure	2003	Canadian	X	X	X	X	X	Written To Be Easily Understood And Used By Community Planners	Written To Be Easily Understood And Used By Community Planners	Was Developed By Actual Planners As An Effective Practice (See Source For Specific Cases)	None	Supports The Coordination And Priorization Of Projects	Requires A Good Deal Of Data To Be Effective And Can Be Costly	None	None	Designed For Canadians	X	X	X	Could Be Incorporated	Very Valuable	http://www.infraguide.gc.ca/bestdecision.html
001	Strategic Planning	Developing Integrated Visions And Strategies With Economic, Financial And Infrastructure Plans	From: *Planning And Defining Municipal Infrastructure Needs: A Best Practice By The National Guide To Sustainable Municipal Infrastructure.* Created Through Consultation With Stakeholders From Canadian Municipalities. National Research Council And Federation Of Canadian Municipalities.	A Best Practice From National Guide To Sustainable Municipal Infrastructure	2003	Canadian	X	X	X	X	X	Written To Be Easily Understood And Used By Community Planners	Written To Be Easily Understood And Used By Community Planners	Was Developed By Actual Planners As An Effective Practice (See Source For Specific Cases)	None	Supports The Coordination And Priorization Of Projects	Requires A Good Deal Of Consultation To Be Effective	None	None	Designed For Canadians	X	X	X	Could Be Incorporated	Very Valuable	http://www.infraguide.gc.ca/bestdecision.html
001	Information Management	Developing Information Systems To Supply Inventory And Other Information To Feed Into Planning	From: *Planning And Defining Municipal Infrastructure Needs: A Best Practice By The National Guide To Sustainable Municipal Infrastructure.* Created Through Consultation With Stakeholders From Canadian Municipalities. National Research Council And Federation Of Canadian Municipalities.	A Best Practice From National Guide To Sustainable Municipal Infrastructure	2003	Canadian	X	X	X	X	X	Written To Be Easily Understood And Used By Community Planners	Written To Be Easily Understood And Used By Community Planners	Was Developed By Actual Planners As An Effective Practice (See Source For Specific Cases)	None	Supports The Coordination And Priorization Of Projects	Requires A Good Deal Of Data To Be Effective And Can Be Costly	None	None	Designed For Canadians	X	X	X	Could Be Incorporated	Very Valuable	http://www.infraguide.gc.ca/bestdecision.html
001	Weighting And Ranking Priorization Models	The Priorization Of Projects Using Technical And Qualitative Criteria - Usually Through Joint Technical And Public Meetings	From: *Planning And Defining Municipal Infrastructure Needs: A Best Practice By The National Guide To Sustainable Municipal Infrastructure.* Created Through Consultation With Stakeholders From Canadian Municipalities. National Research Council And Federation Of Canadian Municipalities.	A Best Practice From National Guide To Sustainable Municipal Infrastructure	2003	Canadian	X	X	X	X	X	Written To Be Easily Understood And Used By Community Planners	Written To Be Easily Understood And Used By Community Planners	Was Developed By Actual Planners As An Effective Practice (See Source For Specific Cases)	None	Supports And Validates The Coordination And Priorization Of Projects	Requires A Good Deal Of Data And Consultation To Be Effective And Can Be Costly	None	None	Designed For Canadians	X	X	X	Could Be Incorporated	Very Valuable	http://www.infraguide.gc.ca/bestdecision.html
001	Business Case Approaches To Priorization	Allowing Departments To Present Business Cases In Support Of A Given Project Then Prioritizing Based On The Best Cases Made	From: *Planning And Defining Municipal Infrastructure Needs: A Best Practice By The National Guide To Sustainable Municipal Infrastructure.* Created Through Consultation With Stakeholders From Canadian Municipalities. National Research Council And Federation Of Canadian Municipalities.	A Best Practice From National Guide To Sustainable Municipal Infrastructure	2003	Canadian	X	X	X	X	X	Written To Be Easily Understood And Used By Community Planners	Written To Be Easily Understood And Used By Community Planners	Was Developed By Actual Planners As An Effective Practice (See Source For Specific Cases)	None	Supports And Validates The Coordination And Priorization Of Projects	Requires A Good Deal Of Departmental Input To Be Effective And Thus Can Be Costly	None	Must Have Knowledgeable Departments	Designed For Canadians	X	X	X	Could Be Incorporated	Very Valuable	http://www.infraguide.gc.ca/bestdecision.html

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002   REDDI

| 002 | Project Implementation – Putting Plans into Action | A Web Based List of Tools and Links to Tools for Project Management and Implementation | One of Five Key Tools Supported by Rural Economic Development Data and Intelligence (REDDI) (on the Web at http://www.reddi.gov.on.ca/). | Supported by 8 Regional Teams Across the Province of Ontario | 2003 | Canada/ Ontario | X | X | X | X | X | Currently Facilitated Through Ontario Government, but Tool is Used Internationally | Currently Facilitated Through Ontario Government, but Tool is Used Internationally | None Listed But Likely a Handy Tool | none | Offers Useful Techniques of Project Management | Limited Scope of Strategies | none | none | Designed For Communities in Ontario but Applicable Everywhere | X | X | X | Has Some Aboriginal Community Context | Very Good Implementation Tool | http://www.reddi.gov.on.ca/ |
| 002 | Tracking Progress | A Web Based Article on the Tools used to Evaluate and Monitor Projects | One of Five Key Tools Supported by Rural Economic Development Data and Intelligence (REDDI) (on the Web at http://www.reddi.gov.on.ca/). | Supported by 8 Regional Teams Across the Province of Ontario | 2003 | Canada/ Ontario | X | X | X | X | X | Currently Facilitated Through Ontario Government, but Tool is Used Internationally | Currently Facilitated Through Ontario Government, but Tool is Used Internationally | None Listed But Likely a Handy Tool | none | Offers Useful Techniques of Project Management/ Evaluation | Limited Scope of Strategies | none | none | Designed For Communities in Ontario but Applicable Everywhere | X | X | X | Has Some Aboriginal Community Context | Very Good Implementation/ Evaluation Tool | http://www.reddi.gov.on.ca/ |

003   MIMS

003	MIMS Self-Assessment	The self-assessment allows municipalities to take a current snap shot of their existing infrastructure inventory and determine what resources are required for additional data gathering.	Municipal Infrastructure Management System (MIMS)	Alberta Government and Sierrasystems Group Inc.	Aug. 2001	Canada (Alberta)	Roads				Water, Storm Drain, Sanitary Systems	Free to all Alberta Municipalities	Downloadable	30 Municipalities are now using the MIMS system	Propreitary Software / Copyrighted material	Allows municipalities to gain an understanding of the amount and condition oftheir infrastructure	Users must be computer savvy	None	Little required	Across Canada	X	X	X	Nothing Specific	Software was deveoped through a grant from the Alberta Gov't, though amount is not known at present. Benefits accrue through greater awareness of current infrastructure inventory	http://www.albertamims.org
003	MIMS RFP Template	The MIMS RFP Template is meant to serve as a document that you can customize to solicit the services of consultants to collect infrastructre data for your municipality.	Municipal Infrastructure Management System (MIMS)	Alberta Government and Sierrasystems Group Inc.	Aug. 2001	Canada (Alberta)	Roads				Water, Storm Drain, Sanitary Systems	Free to all Alberta Municipalities	Downloadable	30 Municipalities are now using the MIMS system	Propreitary Software / Copyrighted material	Allows municipalities to gain an understanding of the amount and condition oftheir infrastructure	Users must be computer savvy	None	Little required	Across Canada	X	X	X	Nothing Specific	Software was deveoped through a grant from the Alberta Gov't, though amount is not known at present. Benefits accrue through greater awareness of current infrastructure inventory	http://www.albertamims.org
003	MIMS Spatial Recommendation	This document is a compilation of best practices around spatial data creation and maintenance procedures.	Municipal Infrastructure Management System (MIMS)	Alberta Government and Sierrasystems Group Inc.	Aug. 2001	Canada (Alberta)	Roads				Water, Storm Drain, Sanitary Systems	Free to all Alberta Municipalities	Downloadable	30 Municipalities are now using the MIMS system	Propreitary Software / Copyrighted material	Allows municipalities to gain an understanding of the amount and condition oftheir infrastructure	Users must be computer savvy	None	Little required	Across Canada	X	X	X	Nothing Specific	Software was deveoped through a grant from the Alberta Gov't, though amount is not known at present. Benefits accrue through greater awareness of current infrastructure inventory	http://www.albertamims.org
003	MIMS Data Gathering Cost Tool	This tool will allow your municipality to determine an approximate cost range for data collection based on your municipality's population base and how much data you wish to collect.	Municipal Infrastructure Management System (MIMS)	Alberta Government and Sierrasystems Group Inc.	Aug. 2001	Canada (Alberta)	Roads				Water, Storm Drain, Sanitary Systems	Free to all Alberta Municipalities	Downloadable	30 Municipalities are now using the MIMS system	Propreitary Software / Copyrighted material	Allows municipalities to gain an understanding of the amount and condition oftheir infrastructure	Users must be computer savvy	None	Little required	Across Canada	X	X	X	Nothing Specific	Software was deveoped through a grant from the Alberta Gov't, though amount is not known at present. Benefits accrue through greater awareness of current infrastructure inventory	http://www.albertamims.org

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							Transport	Utility	Social	Technology	Other										Metro-Adjacent	Non Metro-Adjacent	Remote			
003	MIMS Data Dictionary	This document is intended to help you identify a set of core and recommended infrastructure and condition data that should be collected for an effective infrastructure inventory and management system.	Municipal Infrastructure Management System (MIMS)	Alberta Government and Sierrasystems Group Inc.	Aug. 2001	Canada (Alberta)	Roads	Water, Storm Drain, Sanitary Systems				Free to all Alberta Municipalities	Downloadable	30 Municipalities are now using the MIMS system	Proprieitary Software / Copyrighted material	Allows municipalities to gain an understanding of the amount and condition of their infrastructure	Users must be computer savvy	None	Little required	Across Canada	X	X	X	Nothing Specific	Software was deveoped through a grant from the Alberta Gov't, though amount is not known at present. Benefits accrue through greater awareness of current infrastructure inventory	http://www.albertamims.org
003	MIMS Specifications	Intended to provide a set of data gathering guidelines to assist with establishing common standards for how data should be collected.	Municipal Infrastructure Management System (MIMS)	Alberta Government and Sierrasystems Group Inc.	Aug. 2001	Canada (Alberta)	Roads	Water, Storm Drain, Sanitary Systems				Free to all Alberta Municipalities	Downloadable	30 Municipalities are now using the MIMS system	Proprieitary Software / Copyrighted material	Allows municipalities to gain an understanding of the amount and condition of their infrastructure	Users must be computer savvy	None	Little required	Across Canada	X	X	X	Nothing Specific	Software was deveoped through a grant from the Alberta Gov't, though amount is not known at present. Benefits accrue through greater awareness of current infrastructure inventory	http://www.albertamims.org
003	MIMS Application	The MIMS application stores all your municipality's infrastructure data in a central location. You will use the MIMS application to enter all of your infrastructure data. The MIMS application allows you to collect information for your roads, water, sanitary and storm networks. The application also includes a spatial data viewer to graphically present your municipality's infrastructure inventory. The MIMS application has reporting capabilities which provide information about your municipality's inventory, condition, functional adequacy and lifecycle status.	Municipal Infrastructure Management System (MIMS)	Alberta Government and Sierrasystems Group Inc.	Aug. 2001	Canada (Alberta)	Roads	Water, Storm Drain, Sanitary Systems				Free to all Alberta Municipalities	Downloadable	30 Municipalities are now using the MIMS system	Proprieitary Software / Copyrighted material	Allows municipalities to gain an understanding of the amount and condition of their infrastructure	Users must be computer savvy	None	Little required	Across Canada	X	X	X	Nothing Specific	Software was deveoped through a grant from the Alberta Gov't, though amount is not known at present. Benefits accrue through greater awareness of current infrastructure inventory	http://www.albertamims.org

Reference Materials

Best Practices / Research

110	Inventory / Portals																									
111	InfraGuide CD		National Guide																							
112	Infrastructure Investment and Economic Growth	The paper examines the relationship between infrastructure investment and economic growth	"Investing in Rural Infrastructure"	William F. Fox and Sanela Porca	2000q3	US	X	X	X	X	X	Public	web access	N/A	None	Must read!	N/A	N/A	None	Across Canada	X	X	X	Nothing Specific	HIGH	http://www.kc.frb.org/PUBLICAT/beyond/RC00Fox.pdf
113	Infrastructure Management	Topics: Minimizing Cost of Community Services, Provision of Adequate Facilities, Identifying Priority Funding Areas	"Local Tools for Smart Growth:Practical Strategies and Techniques to Improve Our Communities" - pp30-33	National Association of Counties	Nov. 2000	US	X	X	X	X	X	Public	web access	Montville Township, OH: Community-driven effort to remain an ex-urban municipality	None	How to retain community control	N/A	N/A	Various with community size and growth potential	Across Canada	X	X	X	Nothing Specific	Medium	http://www.naco.org/Template.cfm?Section=Transportation&template=/ContentManagement/ContentDisplay.cfm&ContentID=10788

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114	Publication Storehouse	Searchable Database for Municipal documents	CivicInfo.bc	Provincial and Local Associations	Apr. 2000	Canada					info	Public	Web access	Web Library	None	Easy access to publications	Not comprehensive or national	None	None	Across Canada	X	X	X	Nothing Specific	Time saver	http://www.civicinfo.bc.ca/index.asp

APPENDIX C

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Planning

Regional / Local
210 **Planning Process**

	Name/Type of Tool	Description of the Tool	Title / Name of Policy / Program /Publication	Author / Contact Person	Date	Country / Region	T	U	S	Te	O	Availability	Accessibility	Current Uses / Success Stories	Restrictions on Use	Advantages	Disadvantages	Barriers	Community Capacity Required	Applicability to Canada	M	N	R	Aboriginal Context	Value of Info / Tool	Web Source
211 Community Self Assessment	Community Self Assessment		Needs And Resource Survey Through Community And Economic Development, University Of Illinois Extension. http://www.communitydevelopment.uiuc.edu/toolbox/	Julie Fesenmaier	On Going	Illinois/ North America	X	X	X	X	X	Available On The Web	Very User Friendly. Requires A Lot Of Detail And Community Participation	Includes Case Studies/ No Evaluation Listed	Very Accessible	Covers A Wide Range Of Needs And Strategies	User Required To Do A Lot Of Leg Work Prior To Use	Need Internet Refers To American Programs In Surveys	Need Internet And Details Of Community Assets And Finances And Demographics	Most Of This Resource Is Directly Applicable To Rural Canada	X	X	X		Very Applied Tool Including Valuable Strategic Advice.	http://www.communitydevelopment.uiuc.edu/surveys/index.html
212 Social Accounting Matrix (Sam)	Social Accounting Matrix (Sam)		Described In: "The Economic Base Of Rural Areas: A Sam-Based Analysis Of The Western Isles." *Environment And Planning A.* Volume 35 Pp. 95-111.	Deborah Roberts	2003	Scotland Used As Example	X	X	X	X	X	Environmental Planning A Is Available At Most University Libraries. The Sam Technique Could Be Done By Select Researchers In Western Canada	Generally Accessible Technique	Eg. In Scotland Looked At Nontraditional Development Strategies - Showed Social Accounting More Effective Than Traditional Export Based Models.	Requires Data On Any Non-Traditional Sector You Are Interested In Which Can Be Problematic	Allows Regions And Communities To Look Closely At Their Important Sectors As Both Residents And Workers.	Requires A Good Deal Of Data And Expertise	Generally Accessible Technique	Requires A Good Deal Of Data And Expertise	This Tool Is Directly Applicable To Canada	X	X	X	May Be Useful To Pull Traditional Values And Economic Development Together But Would Require Detailed Surveying	A Very Powerful Tool, But Highly Reliant On The Data Available And Its Quality.	The Journal Is available on the Web through most University Libraries
213 Village Appraisals for Windows Software Package	Village Appraisals for Windows Software Package	The software package is intended as a questionnaire generation and analysis program, for village, parish and community appraisals	Village Appraisals for Windows Software Package	Dr. Micheal Clark University of Gloucester Countryside and Community Research Unit	Apr-98	United Kingdom	X	X	X	X	X	Since the program was launched in 1998, it has been used by villages of 150 people to towns of 5000 people	Software can be ordered by filling out an order form on the web	NA	Community developers need to have Windows software and the ability to work with the software	1) Preset question in the survey can be personalized 2) data entry can be done by non-computer specialists 3) data can be exported into other, more advanced community analysis software tools	1) Only applicable to small communities 2) appears to be simplistic in nature to keep it user friendly	None	Since the technical expertise is very low, the community capacity required is related to conducting the survey, data entry, analyzing and analyzing some of the statistical results	Very applicable to the small rural communities in Canada	X	X	X	Small aboriginal communities can benefit from this software	The program appears to be simplistic. It could be used as a starting point for small communities in assessing their needs	http://www.glos.ac.uk/research2/content.asp?rid=45
214 Village Appraisals	Village Appraisals	A tool to survey aspects of a rural community and its environment, undertaken by the community itself	Village Appraisals: A tool for Sustainable Community Development in Rural areas in the UK	Stephen Osborne and Mike Tricker (Aston Business School, Aston University)	1998	United Kingdom					X	A review of the village appraisal method can be downloaded from the internet	The tool is mainly implemented by community developers and the community itself	Rural Wales used this method	None	1) The use of a village appraisal includes the community in the development process 2) performing a village appraisal can identify areas which need development	1) The tool is not outlined on the web very well and additional information gathering is required before it can be used by community developers	There are indirect costs related to conducting and analyzing the surveys	Financial capacity to conduct and analyze the surveys is needed	Yes	X	X	X	None	The tool itself is very valuable, only additional information must be gathered	http://research.abs.aston.ac.uk/wpaper/9910.pdf
215 Aboriginal Community Management Plan Development	**Aboriginal Community Management Plan Development**	**A Web Based Guide for Aboriginal Leaders. It includes Advice on the drafting of A Community Management Plan including Financial Planning and Monitoring, Maintenance and Staffing Plans and Capital Project Planning.**	**Example is the "Community Management Plan Development" Web Page of Manitoba Aboriginal and Northern Affairs.**	**Manitoba Aboriginal and Northern Affairs.**	**2003**	**Canada/Manitoba**	**x**	**x**	**x**	**x**	**x**	**Available on the Web. Easily Understood And Used By Aboriginal Leaders**	**Available on the Web.**	**none listed**	**none**	**Easily Used in an Aboriginal Rural Community. Offers some Perspective or Aboriginal Problems/Opportunities.**	**Lacks Depth of Analysis and Limited Strategies**	**None**	**None**	**Focus was on Aboriginal Communities, but Applicable to Most Rural Canadian Communities**		**x**	**x**	**Was Designed for Aboriginal Communities**	**A Good Tool for Limited Resource Aboriginal Communities**	**http://www.gov.mb.ca/ana/community_management.html#typical**

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Regional Planning

220 **Structures**

| 221 | Empowerment Zone & Enterprize Community (EZEC) Program | Co-ordination Policy | Empowerment Zone & Enterprize Community (EZEC) Program | | 10-May-95 | US | X | X | X | X | X | Since the Congress created the EZEC Program in 1993, 57 rural Empowerment Zones and Enterprise Communities, over 100 Champion Communities, and 5 Rural Economic Area Partnership (REAP) Zones have been established. | Formal application process; interactions are web-based or through personal communication with USDA officials | The EZEC Program is designed to afford communities real opportunities for growth and revitalization. The framework of the program is embodied in four key principles: 1) Economic Opportunity, 2) Sustainable Community Development, 3) Community-based Partnerships, and 4) Strategic Vision for Change. | Only those US communities that have been accepted to the program can apply for funding and other resources provided under EZEC. | Promotes best practices and forward thinking in developing rural economic opportunity and sustainable efforts has been made to ensure that decisions are made locally. | As with any strategic effort, process may overshadow performance. Meeting deadlines / filling out forms could overwhelm local authorities. In addition, federal funding requirements may influence local decisions. | None | Zone offices must be established and staffed. Community commitment to the zone must exist. Inititial investment dollars must be found in order to receive matching grants. | This appears to be a good fit. While not stated as zones, most provinces have local economic development boards. These could be used more effectively by implementing the best practices of the EZEC Program. | X | X | X | Nothing Specific | This program shows that such a strategic initiative is possible and is generally positive for those involved. | http://www.ezec.gov |
| 222 | CFDC's, REDA's, REDB's | | | | | | | | | | | | | | | | | | | | | | | | |

GIS (Regional /

230 **Local Planning)**

231	Geographic Information Systems (GIS)	Geographic Information Systems (GIS)	Widely Used Software In GIS Called Arcview Has Several Guides And Tutorials. See Web Site: Http://Www.Esricanada.Com/English/Government/Case.Asp	Various	On Going	International	X	X	X	X	X	Arcview Costs $1,500(U.S.) Anytown Free To Ontario Municipalities	Generally Accessible Technology	Widely Used. Western Canadian Communities May Get Access To Technicians Through PFRA Or Provincial Gov't.	Very Data Intensive And Cost Of Software And Training Are Prohibitive	Has Such Wide Application it Is Difficult To Describe. Can Be Used To Plan Infrastructure Using Data On Current Geography And Demographics	Requires A Good Deal Of Data And Expertise		Generally Accessible Technology. Anytown Software Currently Only Available In Ontario	This Tool Is Directly Applicable To Canada	X	X	X	Definitely Useful If Data Is Differentiated	A Very Powerful Tool, But Highly Reliant On The Data Available And Its Quality.	See local government support page at: http://www.esricanada.com/english/government/default.asp
232	SaskBiz																									www.saskbiz.ca
233	CommunityViz	A softare tool communities can use ot help them with land use decisions	CommunityViz	CommunityViz	NA	United States	X	X	X	X	X	The software tool can be purchased from CommunityViz	The tool is implemented on the computer, using GIS information	Many are listed on the website	Certain software is needed to run this program	1) In-depth analysis tool for land use planning	1) Costly for small communities 2) does not include community in the decision-making process	Large amount of financial capacity is required to purchase the software	There are costs for purchasing the software as well as hiring consulting services to run the program	Yes	X	X		None	The tool is very valuable to larger communities	http://www.communityviz.com/index.asp?crcuit=2&fuse=findit

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Implementation

Project Selection / Development / Indicators

310

311	Federation of Canadian Municipalities (FCM's) Quality of Life reporting system		National Housing Research Committee (NHRC): Sustainable Community Planning Working Group	CMHA	May 6, 2003	Canada			X																	http://www.cmhc.ca/en/About/whwedo/nahoreco/sucopl_010.cfm
312	CMHC/Environment Canada's Sustainable Community Indicators Program (SCIP)		National Housing Research Committee (NHRC): Sustainable Community Planning Working Group	CMHA	May 6, 2003	Canada			X																	http://www.ec.gc.ca/soer-ree/English/scip/default.cfm
313	Inventory of National Rural Health Research	An Inventory of Available National Data That has Been Disaggregated into Rural and Non-Rural Geographies	From: *Inventory of National Rural Health Research Related Databases a Component of "Canada' Rural Communities: Understanding Rural Health and Its Determinants."* Canadian Institute for Health Information.	Canadian Institute for Health Information	2003	Rural Canada			X	X	X	Written To Be Easily Understood And Used By Community Planners	Written To Be Easily Understood And Used By Community Planners	None Listed But Likely A Handy Tool	Must Be A Manitoba Community	Supplies Communities With Information On Their Health	Limited Prescriptive Analysis For Looking Forward	None	None	Designed For Rural Canadian Communities			X	Has A Specific Aboriginal Community Context	A Helpful Tool, But Highly Reliant On The Abilities To Use The Data.	http://cranhr.laurentian.ca/crc/home.html
314	Benchmarking	Social Benchmarks and indicators	"Developing Civic Indicators and Community Accounting in Canada"	Paul Reed, Stats Can	2000	Canada			Social Health			Public	Web access	N/A	None	Data collection for non-traditional parameters	still an unclear science	None	Professional assistance would likely be required	Across Canada	X	X	X	Nothing Specific	Allows communities to measure social and community parameters	http://www.cedworks.com/benchmarks.html
315	Benchmarking	A presentation that outlines the results of a 1996 National Survey on Solid WasteCollection Services	"Benchmarking Local Government Services in Canadian Municipalities"	James C. McDavid, Local Government Institute, University of Victoria	June 1998	Canada			Waste Collection			Public	web access	N/A	None	Details how communities can compare there waste management systems to other localities	Shows what to compare and why, but no detailed explation regarding how to compare	None	Solid waste collection is the topic, only those communities with such services would benefit directly, though the methods may be similar for other infrastructure investments	Across Canada	X	X		Nothing Specific	More detailed methods might be obtained from the author	http://web.uvic.ca/lgi/reports/benchmcd.html
316	Community Inventory	How do you build your rural community from the inside out? How do you find and mobilize the assets of your small town and rural area? The Organization of Hope tells inspiring stories of rural communities from across the countryside, and draws common rural themes ranging from income patching and individual skill development to community organizing and rural ethnic diversity	"The Organization of Hope: A workbook for Asset-Based Community Development"	Luther Snow	2001	US			Community Development			Order online for $12 US	Workbook	N/A	Copyright	Allows communities to build on physical and social assets that are owned by the individual, business, organizations and the community as a whole	N/A	N/A	Surveying con be done by local volunteers, though interpretation of results may require outside assistance	Across Canada	X	X	X	Some mention of building on ethnic diversity	High	http://www.northwestern.edu/ipr/abcd.html

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							Transport	Utility	Social	Technology	Other										Metro-Adjacent	Non Metro-Adjacent	Remote			
317	Local Agenda 21 Planning Guide	This guide presents the planning elements, methods and tools being used by local governments to implement sustainable planning in their communities	Tools to Support Participatory Urban Decision Making: Participation and Social Assessment: Tools and Techniques	International Council for Local Environmental Initiatives (ICLEI)	1996	Global					X	Any community wishing to participate can use this tool. It is allowed to be photocopied and translated without written consent	The tool is available to be downloaded from the internet	The Santa Monica Sustainable City Program	The indirect costs are related to the implementation of the tool since it requires extensive stakeholder participation, there is also quite some documentation necessary of the strategic vision, plan, etc.	1) The formulation of the action plan outlined in the guide involves all of the stakeholders which will increase the success of the development project 2) The guide includes a glossary of tools for participatory approaches and methods usable in different settings	1) There is a cost attaced to stakeholder participation	The cost to the community will be quite high due to the amount of meetings held with stakeholders	The community needs to have the financial capacity and the time available to hold the meetings and then document and analyze the resulting information	Yes	X	X	X	None	This tool is useful, however it is used as a prepatory tool for infrastructure development. It might highlight some areas where infrastructure development is needed.	http://www.unhabitat.org/cdrom/governance/html/yellop28.htm
318	**Aboriginal Infrastructure Program**	**The Aboriginal and Torres Strait Islander Infrastructure Program (ATSIIP) enhances community health and well being by providing environmental health-related infrastructure to Aboriginal and Torres Strait Islander communities. This includes water supplies, sewerage, waste disposal and serviced subdivisions for housing.**	**The Aboriginal and Torres Strait Islander Infrastructure Program**			**Queensland, Australia**		**x**						**Recently completed infrastructure projects include: Serviced Housing Subdivisions; Water supply upgrades; Development of a Waste Management System; Upgrade of sewerage, roads, water and drainage.**									**x**			**http://www.indigenous.qld.gov.au/datsip/infrastructure.cfm**

Infrastructure Investment Tools Search - Detailed Grid

(Bold rows denote tools designed specifically for aboriginal communities)

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							Transport	Utility	Social	Technology	Other										Metro-Adjacent	Non Metro-Adjacent	Remote			

320 Financial Tools

321 Debt Limit Worksheet		The Debt Limit Worksheet (DLW) assists municipalities to complete, store and retrieve information on their current debt limit, to be included as part of the supporting documents for debenture application and approval. The amounts are calculated based on the current lending rates posted on the ACFA web site.	Debt Limit Calculator	Alberta Capital Finance Authority	N/A	Canada (Alberta)	X	X	X	X	X	Public	Web access	N/A	None	Assists municipalities of all sizes to calculate the amount of borrowing room they have.	Smaller Communities may not be able to underwrite debentures	None	Some financial understanding required.	Across Canada	X	X	?	Nothing Specific	Improves understanding of borrowing capabilites	http://www.acfa.gov.ab.ca/
322 Loan Calculator		The Loan Calculator is provided to assist municipalities to determine loan payment for various terms and rates. The amounts are not calculated based on the current lending rates posted on this website; rather they are calculated based on terms and rates provided by the user.	Loan Calculator	Alberta Capital Finance Authority	N/A	Canada (Alberta)	X	X	X	X	X	Public	Web access	N/A	None	Assists municipalities of all sizes to calculate the payment amount of a particular loan.	N/A	None	Some financial understanding required.	Across Canada	X	X	X	Nothing Specific	Improves understanding of borrowing capabilites	http://www.acfa.gov.ab.ca/
323 Borrowing Manual		A guide to long-term borrowing for municipalities	Borrowing Manual	Alberta Capital Finance Authority	N/A	Canada (Alberta)	X	X	X	X	X	Public	Web access	N/A	None	Reviews all aspects of borrowing by municipalities	Smaller Communities may not be able to underwrite debentures	None	Some financial understanding required.	Across Canada	X	X	?	Nothing Specific	Improves understanding of borrowing capabilites	http://www.acfa.gov.ab.ca/
324 Municipal Financing of Infrastructure		Municipal Infrastructure concludes, based on a series of case studies, that partnerships result in lower municipal costs where operations have economies of scale (Sainte- Marie- de-Beauce water treatment case study) or where the private sector operator can bring to bear its experience and	Public- Private Partnerships in Municipal Infrastructure	CMHA	Aug. 1999	Canada					Water / Waste water	Public - use by any municipality	Order from CMHC	N/A	None	Outside investors may provide increased cashflow to municipalities, thus allowing greater ability to provide services to the public	Ownership is no longer communal, profit motivation on the part of private partners	None	Private partners may not want to invest in smaller more remote communities (ie, access to transportation services, debt carrying capabilities)	Canadian context	X	X	?	Nothing Specific	Outlines use of P3's in funding infrastructure	http://www.cmhc.ca/publications/en/rfh-pr/socio/socio053.html
325 Infrastructure Costing Model			National Housing Research Committee (NHRC): Sustainable Community Planning Working Group	CMHA	May 6, 2003	Canada					X															http://www.cmhc.ca/en/About/whwedo/nahc/reco/sucopl_010.cfm

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							Transport	Utility	Social	Technology	Other										Metro-Adjacent	Non Metro-Adjacent	Remote			
326	The Maintenance of Infrastructure and its Financing and Cost Recovery	This publication is intended to provide guidance to senior decision-makers, urban managers, and municipal engineers in introducing and improving effective maintenance programs within their operational activities	Tools to Support Participatory Urban Decision Making: Participation and Social Assessment: Tools and Techniques	UNCHS (Habitat)	1993	Global	X	X				Any community wishing to participate can use this tool. It is allowed to be photocopied and translated without written consent		Indonesia Water Enterprise Management Information System is a good example of how the strategies outlined in the document have been used	There are no restrictions on use	1) The document provides policy makers the key elements they require to develop strategies for enhanced infrastructure maintenance	1) The document is very thorough in regards to all the things community developers must take into considerations which might make it too in-depth for some community leaders 2) the document is not really a "tool" for community developers to use	The document is available on the internet and can be downloaded without cost	If the suggestions are followed in the document then the community will need large financial capacity to follow up all the suggestions made.	Somewhat	X	X		None	This document provides good background reading material for development authorities about the maintenance of infrastructure	http://www.unhabitat.org/en/uploadcontent/publication/new/cost.pdf
327	P3 Guide	Step by step procedure of implementing a P3 project	"Public Private Partnerships: A Canadian Guide"	Industry Canada	June 2001	Canada					All	$10 US per copy	order online	N/A	None when purchased	Better understanding of revolving funds	US-centric	N/A	Limited - Computer literacy	Across Canada	X	X	X	Nothing Specific	Low	http://strategis.ic.gc.ca/pics/ce/p3guide_e.pdf
328	Capital Budgeting	Through capital budgeting, municipalities can plan future operating budget expenditure, debt repayment and potential reserve fund needs in order to manage the financial position of a municipality over a five to ten-year period.	"Municipal Capital Budgeting Handbook" comes with software and users guide	Ontario Municipal Affairs	2000	Canada (Ontario)	x	x	x	x	x	Web-based software for use by municipal gov't (copyrighted material)	downloadable off the internet	MAF to be contacted	N/A	The purpose of this manual is to assist municipalities in the development of their capital infrastructure planning and budgeting processes	N/A	N/A	Financial and computer capabilities are required	High	x	x	x	Nothing Specific	Allows greater accuracy and accountability when expending municipal dollars	http://www.mah.gov.on.ca/userfiles/HTML/nts_1_479_1.html
330	**Training and Education**																										
331	Service Excellence Programs/Training	One Day Seminars Offered to Staff and Managers to; identify customer needs, exceed expectations, develop communication and service skills, understand "Moments of Truth" between you and customer.	Example is: "Manitoba BEST" the offered by the Manitoba Tourism Education Council.	Manitoba Tourism Education Council	2003	Canada/Manitoba			x		x	Designed for Manitoba Communities, but could be Applied any where.	Manitoba Tourism Education Council charges fees of $75-80.	Program is used by: Manitoba Lotteries Corporation, Brandon Police Services, OBO Security, the Department of Conservation Parks.	none	A Good Tool to improve Tourism Industry, and Identify Key Nodes to Improve Visitor Satisfaction	Focus is Pretty Narrow on Tourism to Improve Growth	none	none	Useful for Communities With Current or Potential Tourist Amenities		x	x	Could Be Incorporated	A Good Program for Developing Tourist Sensitivity	http://www.mtec.mb.ca/Best/what_is.htm

Infrastructure Investment Tools Search - Detailed Grid

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Procurement Tools

340

341 — Contracting Templates and Procurement Guides | Stipulated Price Contract | Costplus contract | Stipulated Price Bid Form | Contractor's Qualifications Statement | Civil Works Contract | CCDC Guides | Canadian Construction Association's Documents Committee (CCDC) | ongoing | | Transport x, Utility x, Other x | | | | | | | | | | | | http://www.ccdc.org/docs/electronic.html

Asset Mgmt / Asset Mapping /Life Cycle

350

351 — Assets Map | The assets in a community include the people, places and things that support the community infrastructure. The assets map can help identify under-utilised resources and opportunities for matching needs and resources, and can stimulate thinking about how the community might invest in its resources more effectively. | Strengthening Rural Communities Resource Kit - Part 2, Tool #6 | Director, Strengthening Local Communities scu@premiers.nsw.gov.au | | New South Wales, Australia | Transport x, Utility x, Social x, Technology x | Available on the web. | | | | The assets map can help identify under-utilised resources and opportunities for matching needs and resources, and can stimulate thinking about how the community might invest in its resources more effectively. | | | | | | | | http://www.communitybuilders.nsw.gov.au/download/tool_6.pdf

352 — Infrastructure Valuation and Depreciation Guidelines | The primary scope of the Guidelines is to provide guidance for calculation of valuations and depreciation for local government infrastructure. | NZ Infrastructure Valuation and Depreciation Guidelines | National Asset Management Steering Group Thames, New Zealand Ph/Fax 64-7-868 3930 Email jeff@ingenium.org.nz | | New Zealand | Transport x, Utility x, Social x | Available to buy | | | | | | | | | | | | http://www.ingenium.org.nz/publications/valuation/default.html

353 — Asset Management Planning | The development of an overall strategy for reviewing existing assets, with the aim of maximizing their value and potential in the most effective way | Asset Management Planning | Entec | NA | United Kingdom | Transport X, Other X | Any community can hire the services of Entec | Entec works as as consultant for the community | Northumbrian Water Limited | The costs of using Entec services | 1) The consultant will work with the community to develop a strategy for asset management | 1) Costly 2) not available in Canada | Costs of consulting services | 1) Financial capacity to pay for consulting services 2) capacity to implement the outlined strategy | None | Metro-Adjacent X, Non Metro-Adjacent X, Remote X | None | The consulting services are unfortunately not available in Canada | http://www.entecuk.com/downloads/cs_asset_s.pdf

354 — The Maintenance of Infrastructure and its Financing and Cost Recovery | This publication is intended to provide guidance to senior decision-makers, urban managers, and municipal engineers in introducing and improving effective maintenance programs within their operational activities | Tools to Support Participatory Urban Decision Making: Participation and Social Assessment: Tools and Techniques | UNCHS (Habitat) | 1993 | Global | Transport X, Utility X | Any community wishing to participate can use this tool. It is allowed to be photocopied and translated without written consent | | Indonesia Water Enterprise Management Information System is a good example of how the strategies outlined in the document have been used | There are no restrictions on use | 1) The document provides policy makers the key elements they require to develop strategies for enhanced infrastructure maintenance | 1) The document is very thorough in regards to all the things community developers must take into considerations which might make it too in-depth for some community leaders 2) the document is not really a "tool" for community developers to use | The document is available on the internet and can be downloaded without cost | If the suggestions are followed in the document then the community will need large financial capacity to follow up all the suggestions made. | Somewhat | Metro-Adjacent X, Non Metro-Adjacent X | None | This document provides good background reading material for development authorities about the maintenance of infrastructure | http://www.unhabitat.org/en/uploadcontent/publication/new/cost.pdf

355 — Assessment Tool | This tool identifies social and economic priorities that exist to try to understand and assess how buildings can contribute to sustainable social and economic development | Sustainable Building Assessment Tool | Jeremy Gibberd (Division of Construction and Building Technology) | May-02 | South Africa | Other X | The tool is downloadable from the internet | The tool can simply be downloaded from the internet | NA | None | 1) The entire lifecycle of the building is taken into consideration 2) the assessment is quite structured, based on the life cycle of the building | The assessment is mainly qualitative | To do the assessment a large amount of information needs to be gathered, which is costly | Financial capacity for the assessment is needed | Yes | Metro-Adjacent X, Non Metro-Adjacent X, Remote X | None | The tool is valuable, just more information is required | http://www.civils.org.za/bepc/jgibberd.pdf

GIS (Engineering / Infrastructure)

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361 — Geographic Information Systems (GIS) | Geographic Information Systems (GIS) | Widely Used Software In GIS Called Arcview Has Several Guides And Tutorials. See Web Site: Http://Www.Esricanada.Com/English/Government/Case.Asp | Various | On Going | International | Transport X, Utility X, Social X, Technology X, Other X | Arcview Costs $1,500(U.S.) Anytown Free To Ontario Municipalities | Generally Accessible Technology | Widely Used. Western Canadian Communities May Get Access To Technicians Through PFRA Or Provincial Gov't. | Very Data Intensive And Cost Of Software And Training Are Prohibitive | Has Such Wide Application It Is Difficult To Describe. Can Be Used To Plan Infrastructure Using Data On Current Geography And Demographics | Requires A Good Deal Of Data And Expertise | Generally Accessible Technology. Anytown Software Currently Only Available In Ontario | Requires A Good Deal Of Data And Expertise | This Tool Is Directly Applicable To Canada | Metro-Adjacent X, Non Metro-Adjacent X, Remote X | Definitely Useful If Data Is Differentiated | A Very Powerful Tool, But Highly Reliant On The Data Available And Its Quality. | http://www.esricanada.com/english/government/default.asp