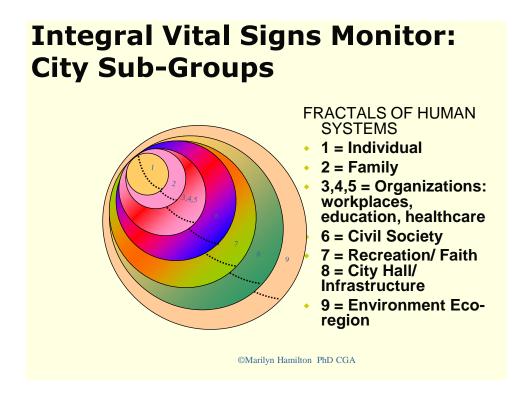






Integral Vital Signs Monitor

Proposed Indicator Sets



OVERVIEW OF INTEGRAL VITAL SIGNS MONITOR

This Document is a deliverable from the Knowledge and Development Exchange (KDE) for a Welcoming and Inclusive Communities and Work Places (WICWP) project located in Abbotsford BC, that is known as "Food for Thought". It should be reviewed in that context. The objective of the KDE project was to map the values of Abbotsford, using an integral framework based on the models of integral perspectives (Wilber, 1995, 1996, 2007), values evolution (Beck & Cowan, 1996) and Integral City intelligences (Hamilton, 2008) . Recommendations proposed that Abbotsford develop an Integral Vital Signs Monitor identifying indicators to track the wellbeing of individuals, families, work places, education, health care, recreation, faith community, city hall and the environment.

As an online platform the IVSM displays a set of salutogenic (health generating) integral (bio-psychosocial-cultural) indicators and metrics. The IVSM serves as a community indices to measure overall health and wellbeing and whether those health indicators are moving towards greater or lesser health. What makes it successful is the premise that community partners distribute the workload of creating and tracking the data because partners contribute the indicators they "own", and a composite picture of the whole community emerges from the integral map. As a result, each community partner has a stake in the success of the IVSM and together the community of partners gains insights of the interconnections that contribute to the wellbeing of the whole city.

The Indicators that follow were identified by the WICWP team as being potential measures, with identifiable "owners", of Abbotsford's wellbeing.

One view of the IVSM is displayed below in Figure 1.

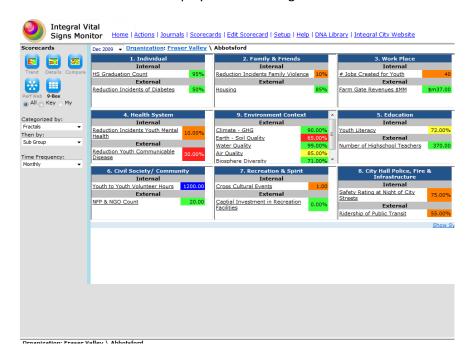


Figure 1: Prototype of Integral Vital Signs Monitor



Sub-Group	Indicator	Explanation	Metric & Frequency	Owner	Target
1. Individual					
Internal					
	HS graduation count	Basic schooling required for basic success in life	# HS grads/year as % total candidates	SD#34; Private HS	90% grad
	Awards Unclaimed as % Unclaimed ACF	Awards made by ACF but not claimed by youth	# awards unclaimed / year Annual	ACF	100% claimed
	Crime counts for youth	Crime counts indicate youth not contributing to social wellbeing & identify where interventions could occur to prevent	# Crime counts for youth related to drugs and gangs Monthly	Police	Reduce absolute counts and % of total youth
	Youth employment	Jobs filled by youth 13-18, 19-24, 25-34	# jobs filled by youth Quarterly?	MYERT? HRDC?	95% youth employment
External			-		
	Healthy Abbotsford Youth Data	Cluster of indicators tbd: nutrition, diabetes, obesity	Various tbd	SCOPE	Reduce incidence of diseases
	Youth Relationships with Adults	Youth who have relationships with adults see positive role models	% youth who have positive relationship with adult outside family – Annual	SD34 School Counsellors; private schools	100% youth have positive relationship with adult
	Shelter	Youth have adequate & affordable housing or co- housing	# housing units available of different qualities tbdefined	FV Housing Network; City Hall Social Services	100% youth have appropriate housing



Sub-Group	Indicator	Explanation	Metric & Frequency	Owner	Target
			Monthly? Quarterly?		
2. Family & Friends					
Internal					
	Incidents of family violence as % total families	Track families where violence occurs to identify where interventions could be effective	# incidents of family violence/month	Abbotsford Police	Reduce # incidents? Reduce % families with violence
	Trauma from war zones	Immigrants with war trauma who have moved to city bring unresolved personal and cultural conflicts with them to new city/country	# trauma victims receiving trauma resolution support / Quarter??	BC Healthy Communities?	100% trauma victims receive support
External					
	Housing	Families have affordable and appropriate housing for family size and income bracket	# housing units available at different economic ranges	FV Housing Network; City Hall Social Housing	100% families housed appropriately
	Generational differences in cultures	Track tensions between generations within cultures	# incidents related to generational differences / Month	Abbotsford Community Services	% incidents solved constructively
	Eldercare ratio	Ratio of eldercare offered in home vs institutions	# eldercare institutional beds as % total elder population? # eldercare home located	Community Health Services?	Increase % eldercare home in relation to % institutional



Sub-Group	Indicator	Explanation	Metric & Frequency	Owner	Target
			as % population? Annual		
3. Work Place					
Internal	New business start-ups	Measure of entrepreneurial opportunity and energy	# new business licences/Month	City Hall EDO	% increase Rolling 12 Month Average?
	Number of business licenses in total	Measure of ongoing business strength	# business licences/ Annual	City Hall EDO	% increase Rolling 12 month?
	Entrepreneurial recognition/ awards	Business recognized for innovation & success	# awards from inside city annual; # awards from outside city annual	Chamber of Commerce; City Hall EDO	Increase number of awards
	Adult employment	Jobs filled	# jobs Quarterly?	HRDC? Employment Council? CoC?	<5% unemployment
	Corporate Social Responsibility	How Orgs. Invest in social fabric of community	CSR \$ or equivalent investment Annual	Social Enterprise Ctr. Canada, BC	CSR as % GDP?? Target tbd
	Best organizations to work for recognition	Organization recognized by jury and/or peers for positive HR and OD practices	# awards from inside city annual; # awards from outside city annual	Best Practice Recognition award Juries, tbd	Increase number of awards
External					
	Capital investment in FFE	Measure of long term investment by organizations	\$ investment Annual	CRA/Stats Canada	Ratio of new investment to existing??
	Capital Investment in physical plant	Measure of long term investment by organizations	\$ investment in new building Annual	City Hall Building Permits	Ratio to existing plant?
	Key Industry	Measure	\$ gross and net	CRA/Stats	Sustainable

Sub-Group	Indicator	Explanation	Metric &	Owner	Target
			Frequency		
	healthy	results of key	profit	Canada	ROI
	performance	industries; eg.	Annual	City EDO	
		Agriculture			
	Farm Gate	Measure Ag	\$ revenues,	Ag Assn.	Sustainable
	Input/output	production and	expenses,		ROI
		returns by	profits		
		commodity	Annual		
			Annual		
	Processing	Measure	\$ added value	Processors;	Sustainable
	Gate	manufacture &	to farm gate	Stats Can	ROI
	Input/output	processing	Annual		
	Food/A-	returns Measure info	\$ added value	Stats Can	Sustainable
	Food/Ag		'	Stats Can	
	Support	technology,,	to processor		ROI
	Industry	resource, financial	and farm gates Annual		
	Input/output	services for	Alliludi		
		support biz returns			
	Food Plate –	Measure	\$ added value	Associations?	Sustainable
	Commercial	restaurant &	to support,	Stats Can	ROI
	Commercial	food supply	processor and	Stats Carr	1101
		returns	farm gates		
		recarris	Annual		
	Food Plate –	Measure retail	\$ added value	Restaurant &	Sustainable
	retail /	& home food	to support,	Food supplier	ROI
	household	supply returns	processor and	Associations?	
		,	farm gates	Stats Can	
			Annual		
4. Health					
System					
Internal					
	Leadership	Capacity of	Best Practise	BP Org tbd	Rating improve
		leadership	Assessment		as % or on
		performance			likert scale
	Community	How health	Community	Tbd	Rating
	Relationship	system relates	rating system		improves from
		to its client			public
		base			perspective
	Mental Health	Youth Mental	Mental health	FHA	100%
		health needs	incidents for		Response rate
		special	youth		to mental

Sub-Group	Indicator	Explanation	Metric & Frequency	Owner	Target
		attention to prevent complications as adults	Monthly		health needs
	Mind spirit	Learning and faith contribute to health prevention and healing	Tbd	Tbd	Rating improves
External					
	Healthy Abbotsford population strata	To measure health of community members	Cluster of indicators tbd: life expectancy, infant mortality, diabetes, obesity Various tbd Quarterly?	SCOPE	Increase life expectancy,; reduce mortality; reduce incidence of diseases
	Infectious disease incidents	Measure resilience to infectious disease	Tbd	FHA	Reduce incidence ID rates
	Capital investment in FFE	Measure of long term investment by health institutions	\$ investment Annual	FHA; BC Min Health	Ratio of new investment to existing??
	Capital Investment in physical plant	Measure of long term investment in health institutions	\$ investment in maintaining and replacement building Annual	City Hall FHA; BC Min Health	Ratio to existing plant?
5. Education					
Internal					
	High School Teacher Performance	Measure qualitative Capacity of HS teaching performance	Self, Student, Peer, Leadership ratings	SD 34; Ministry Ed; Private assessors eg Fraser Institute	Improve performance ratings annually
	High school	Measure	Measures of	Tbd if such	First stage

Sub-Group	Indicator	Explanation	Metric & Frequency	Owner	Target
	student performance	developmental capacity of HS grads	multiple intelligences Annual	measures are available	might be to establish measures of multiple intelligences
	Literacy & numeracy	Measure of literacy & numeracy indicates basic skills needed for career success	Literacy rates Numeracy rates ESL Annual	SD34; private schools; Ministry Ed	Achieve grade 6 literacy and numeracy rates in 99% or population
External					
	High school teachers	Measure quantitative availability of HS teachers per population	#'s teacher/ high school population	SD34; private schools; BC Ministry Education	Maintain optimal ratios
	Capital investment in FFE	Measure of long term investment by education institutions	\$ investment Annual	SD34; Private Schools; UFV; BC Min Ed/ Advanced Ed	Ratio of new investment to existing??
	Capital Investment in physical plant	Measure of long term investment education institutions	\$ investment in maintaining and replacement building Annual	SD34; Private Schools; UFV; BC Min Ed/ Advanced Ed	Ratio to existing plant?
6. Civil Society/ Community					
Internal					
	Leadership key NFP's & NGO's	Strategic capacity measure of civil society leadership	Leadership assessment of: ACS, UWFV, CFFV, ACF	Boards of Directors; some BP assessor? Vancouver Foundation? UW Canada? CFC ? tbd	Improved rating of leadership capacity >80% tbd
	Volunteer hours	People who volunteer for	# volunteer hours by youth	UWFV? UFV NFP Institute?	# volunteer hours/capita

Sub-Group	Indicator	Explanation	Metric &	Owner	Target
			Frequency		
		their community give back and take	and for youth Monthly		tbd
		responsibility for outcomes			
External					
	# NFP & NGO Organizations	These orgs support the social and cultural safety net of community	Ratio of NFP & NGO to for profit and govt organizations Annual	City Hall business licence?	Establish some optimal ratio?
	Employers who invest employee hours as volunteer hours for community	These orgs support the orgs who support social and cultural safety net of community	# volunteer hours paid by for profit or government orgs. Annual	CoC???	Increase % tbd # volunteer hours/standard annual work hours of all orgs.
	Value Revenues & Investments in NFP	What resources do these orgs use to support the social and cultural safety net of community?	Ratio of NFP & NGO Annual Expenditures to for profit and govt organizations Annual	Stats Can??	Establish some optimal ratio?
7. Recreation & Spirit					
Internal					
	Sports Awards	Awards received by sports athletes, coaches, sponsors	# awards Quarterly	City Hall AHR; Sports Associations; BC, Canadian Min. Of Sport	Increase # awards by 10% per annum
	Arts Awards	Awards received by artists, art teachers, sponsors	# awards Quarterly	City Hall AHR; Arts Associations; BC, Canadian Min. Of Heritage, Culture	Increase # awards by 10% per annum

Sub-Group	Indicator	Explanation	Metric &	Owner	Target
			Frequency		
	Cross-cultural	Connecting	# of cross-	City Hall AHR;	Increase
	events	cultures	cultural events	event licenses;	number events
		reduces		Police	by 20%?? tbd
		conflict	Annual	security?	
		because			
		strangers			
		become			
	Inter-faith	neighbours Connecting	# of inter-faith	City Hall AHR;	Increase
	events	faiths reduces	events	event licenses;	number events
	events	conflict	events	Police	by 20%?? tbd
		because	Annual	security?	by 20%: tbu
		strangers	74111441	Security:	
		become			
		neighbours			
External					
	Capital	Measure of	\$ investment	City Hall AHR;	Ratio of new
	investment in	long term	Annual	faith	investment to
	FFE	investment by		community	existing??
		recreation &			
		faith			
		institutions			
	Capital	Measure of	\$ investment in	City Hall AHR;	Ratio to
	Investment in	long term	maintaining	faith	existing plant?
	physical plant	investment	and	community	
		recreation & faith	replacement building		
		institutions	Annual		
		Ilistitutions	Aiiiuai		
8. City Hall &					
Infrastructure					
Internal					
	Leadership –	Measure	Self,	C Private	Improve
	staff	qualitative	Community,	assessors eg	performance
		Capacity of	Peer,	Fraser	ratings
		Leadership	Leadership	Institute	annually
		performance	ratings		
			Annual		
	Leadership –	Measure	Measures of	Tbd if such	First stage
	elected	developmental	performance	measures are	might be to
		capacity of		available	establish
		Elected	Annual		measures of
		Leadership			multiple

Sub-Group	Indicator	Explanation	Metric & Frequency	Owner	Target
					intelligences
	Community Relationships/ Engagement	How often, in what forums does city hall engage with community	# of city hall meetings outside city hall Monthly	City Hall; taxpayers association	12 meetings per annum
	Voter turnout	Number of population participating in democratic process	# voters per eligible voters Tri-Annual (election years)	City Hall	100% voter turnout
	Public safety	Available security from Police, Fire, Ambulance services	# police, fire, ambulance per population; Response times; Crime rates	City Hall; FHA	Target response times; reduction in crime rates
	Research/ Learning	What is city hall learning to improve, change, start, stop doing?	# Research projects per annum; # new processes; # changed processes stopped; Measures of effectiveness (achieving objectives); efficiency (achieving optimal resource use)	City Hall	Set targets for # projects; # new changed, stopped processes. Improve effectiveness, efficiency
	Foresight	Setting a vision for 30 year time horizon; imagining scenarios with possible constraints sets	Annual Convening community dialogues, scenario exploration; setting targets	Mayor, City CEO	Strategic Plan Objectives Attained vs Measures set

Sub-Group	Indicator	Explanation	Metric & Frequency	Owner	Target
		a direction for the city to develop strategic plans	Annual		
External	Eco-Footprint / Energy Use	Measure of carbon-based energy use for population and resource use of city	Eco-footprint measure Monthly Annual	City Hall	Reduce eco footprint to 1 planet or less
	Water System	Measure of water for city	Measure water use per capita and total population	City Hall; Water departments; BC Min Natural Resources	Reduce water use to per capita measure
	Food System	Meeting nutrition al requirements	Measure nutrition per capita and total population	SCOPE? FHA? Private sector food production, distribution	Attain consumption 80% Recommended
	Food System	Food consumption and requirements	Measure calorie use per capita and total population Annual	??tbd	Increase local food production to 80% consumption
	Waste Management System	Waste production and recycling requirements	Measure solid waste and liquid per capita and total population Monthly?	??tbd	Increase waste recycling to 100% over time
	Public Safety Capital investment in FFE	Measure of long term investment by public safety services	\$ investment Annual	City Hall; FHA	Ratio of new investment to existing??
	Public Safety Capital Investment in physical plant	Measure of long term investment in public safety	\$ investment in maintaining and replacement	City Hall; FHA	Ratio to existing plant?

Sub-Group	Indicator	Explanation	Metric & Frequency	Owner	Target
		services	building Annual		
	Transportation	Mobility from one part of city to another; and from this city to other cities	Kilometres of 3 grades of road per capita.	City Hall; BC Ministry Highways; Canada Min Transport.	Optimal km per capita for each grad of road
	Transportation – Transit	Use of public transit by residents	Measure availability and use of public transit Monthly	City Hall; BC Ministry Transportation	Increase % use of public transit
	Transportation – Air, Rail	Use of air, rail to connect to other cities	Measure availability and use of air, rail transit Monthly	City Hall; BC Ministry Transportation	Sustainable use air, rail related to eco- footprint
	Communication	Accessibility of Phones, wired, wireless, cable, TV, radio, internet, postal services, couriers	Km of installed modes per capita; # households with communication modes installed	Service Providers	Increased accessibility per capita tbd
	Energy Distribution	Homes and businesses served by electricity, oil, gas	kwH per household and per business kjoules per household and per business	Service Providers	Reduce energy consumption; reduce carbon intensity; reduce carbon emissions per household and business
	Energy Production	Energy produced by waste recycling; wind; water; solar production	kwH sold to grid for local and or distant use	Producer; BC Hydro	Increase energy production
	Land Use	Land use set out in official community	OCP approved by BC Min Environ & Land	BC Min Environ & Land Use	Optimal use of land per capita

Sub-Group	Indicator	Explanation	Metric & Frequency	Owner	Target
		plan (OCP)	Use		
			Annual		
9. Environment Context					
	Climate	Climate Change to local climate	Change in ambient air temperature; sea temperature; sea level	Climate Canada??	Ranges tbd
	Earth	Soil Quality	Measures for soil productivity, resilience	Ag Canada? Ag BC	Ranges tbd
	Water	Water Quality	Daily	City Hall; water management orgs.; CFSA	Ranges tbd
	Air	Air Quality	Daily	Weather Canada;	Ranges as set for health
	Biosphere Diversity	The greater bio-diversity the more resilient the biosphere	Measure bio- diversity Annual	UFV? UBC? Suzuki Fd?	Ranges tbd for Fraser Valley bio-region
	Eco-Region Sustainability	Taking responsibility for the watershed in which located	Eco-Region Health Measure	Fraser Basin Council	Green targets tbd