

# KING COUNTY GIS CENTER

*We help you put GIS to work*

## The Sound to Summit Region Pursues a Collaborative Approach to GIS

Greg Babinski, MA, GISP  
*King County GIS Marketing & Business Development Manager*

Catherine Crook  
*City of Kent GIS Supervisor*

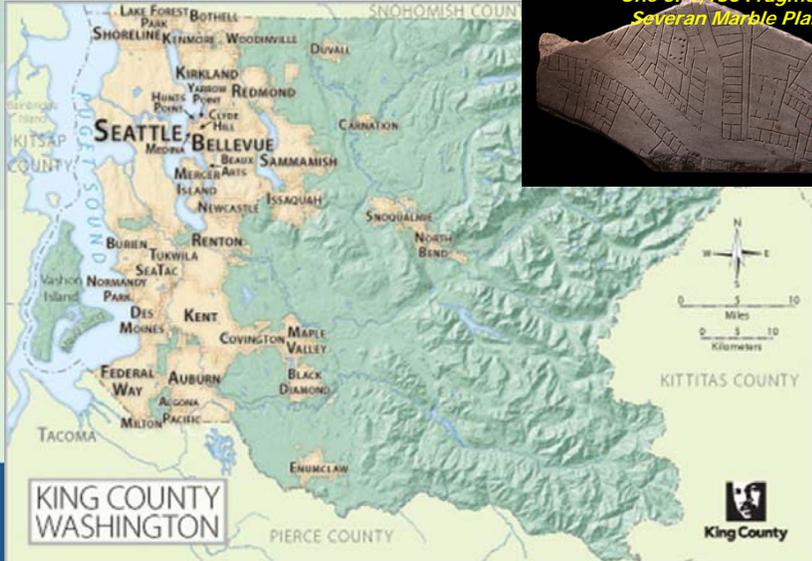
Heather Minella  
*Snoqualmie Tribe GIS Program Manager*

King County GIS User Group Meeting  
Seattle, WA – October 3, 2018



***Geography has always been a major integrative element in municipal administration.***

- Dr. Costis Toregas, President-Emeritus of the Public Technology Institute, (United Nations Conference on GIS)



*One of 1,186 Fragments of the Severan Marble Plan of Rome*



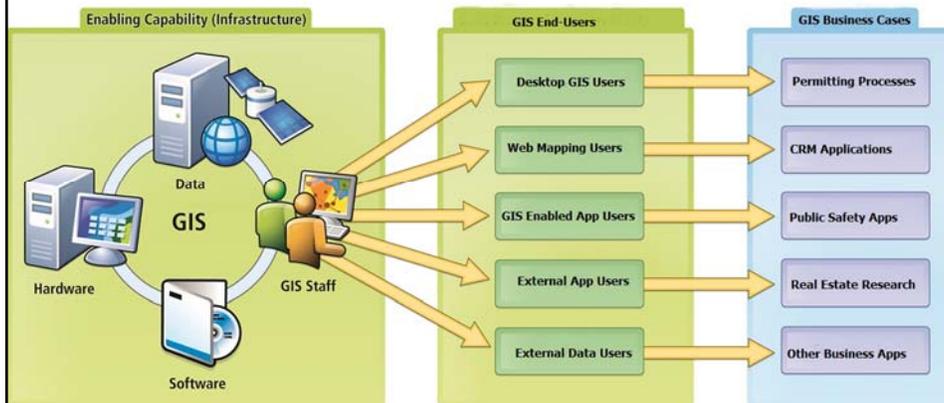
KING COUNTY WASHINGTON

## Outline

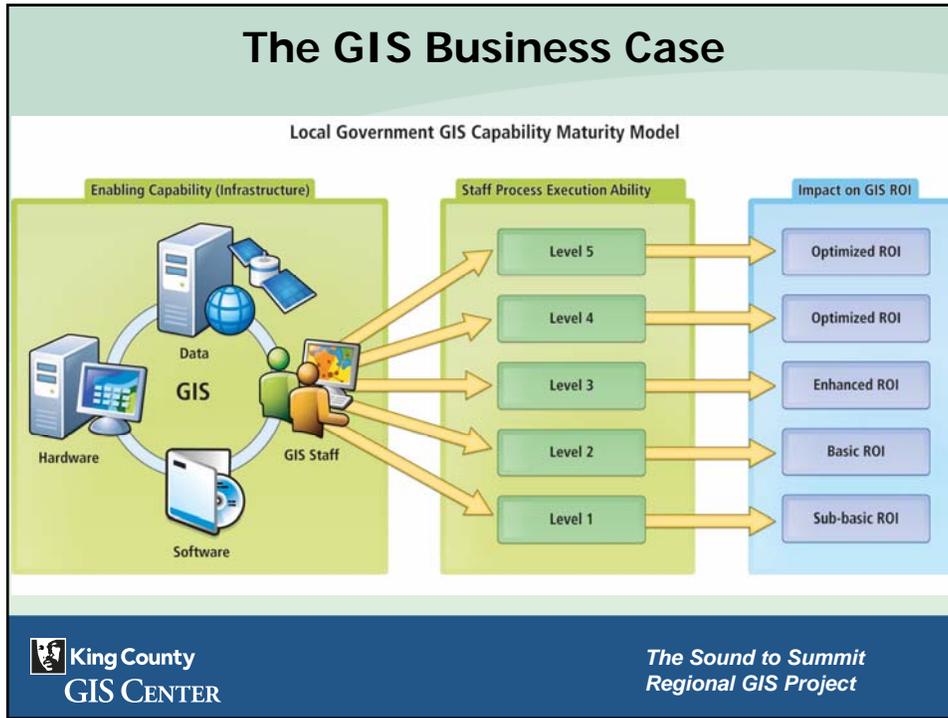
- ✓ The Benefits of GIS
- ✓ The Challenges of Sustainable GIS Operations
- ✓ Who Uses GIS in King County?
- ✓ A survey of Regional GIS *in Action!*
- ✓ Past attempts at Regional GIS in King County
- ✓ A Modern Business Case for Regional GIS
  - ✓ City of Kent
  - ✓ Snoqualmie Tribe
  - ✓ Beaux Arts Village
- ✓ The Sound to Summit Regional GIS Project

## The GIS Business Case

Municipal GIS Infrastructure/Business Case Model



*End result is a variety of financial and non-financial benefits.*



## The Business Case for GIS

**GIS delivers significant ROI for King County:**  
**\$776 million in net financial benefits from 1998-2010, and \$87-180 million in 2010 alone.**

**RICHARD O. ZERBE, JR.**

Richard O. Zerbe, Jr.  
Daniel J. Evans Professor of Public Affairs  
Ph.D., Duke University, 1969

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**Areas of Specialization:**  
Law and Economics, Benefit-Cost Analysis, Antitrust,  
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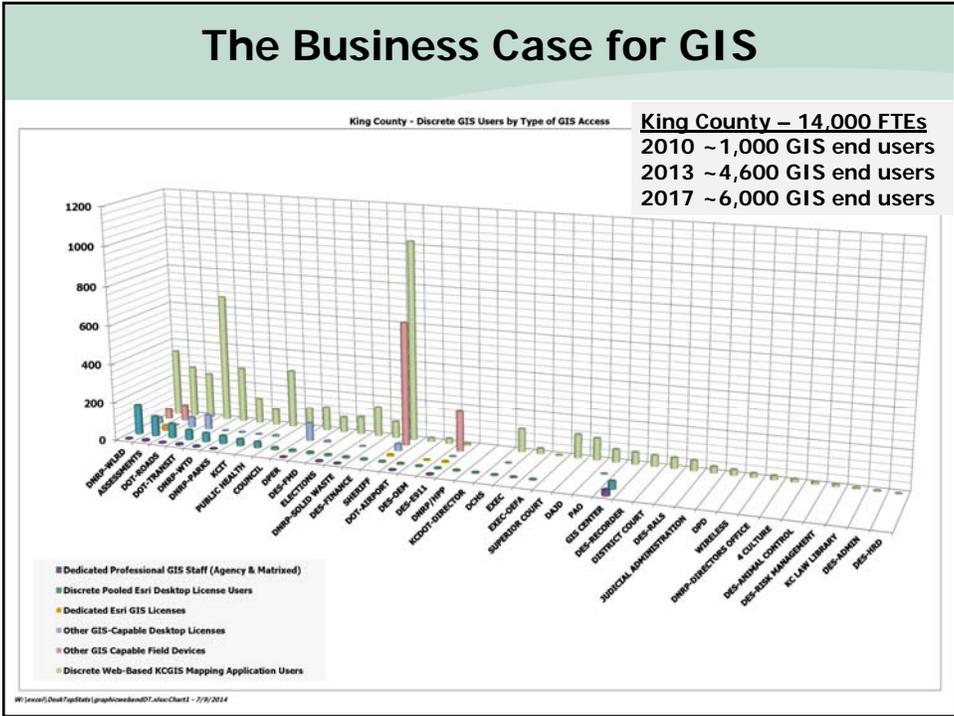
Richard O. Zerbe, Jr. joined the Evans School faculty in 1981, and holds and adjunct appointment with the University of Washington School of Law. He teaches environmental ethics, microeconomics, government regulation, law and economics, and benefit-cost analysis.

	Estimate 1 (new demand curve)	Estimate 2 (old demand curve)
Gross Benefits	B + C + D + E + F	B + C + D + E
Costs	C + E	C + E
Net Benefits	B + D + F	B + D

**AN ANALYSIS OF BENEFITS FROM USE OF GEOGRAPHIC INFORMATION SYSTEMS BY KING COUNTY, WASHINGTON**  
 -Prof. R. O. Zerbe  
<http://tinyurl.com/kgisroi>

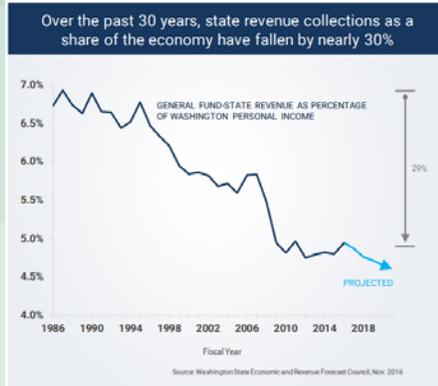
*The Sound to Summit*  
Regional GIS Project

# The Business Case for GIS



# The Challenges of Sustainable GIS

## The Structural Imbalance in Washington State\* ....



...and what it means for GIS

\*See: <https://ofm.wa.gov/sites/default/files/public/budget/statebudget/18supp/highlights/budget17/04Revenue.pdf>

## The Challenges of Sustainable GIS

How has GIS responded to the structural imbalance?

- ✓ Lower cost hardware & IT infrastructure
- ✓ Lower data costs
- ✓ Lower imagery costs
- ✓ Lower ~~software costs~~— open source alternatives
- ✓ More powerful software and hardware = productivity
- ✓ Better trained and more experienced GIS professionals = productivity
- ✓ And in the future ?????



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## The Challenges of Sustainable GIS

How *will* GIS responded to the structural imbalance or the next financial crisis?

### GIS in Tough Economic Times

*A technology for revitalization*

*An 8.5 percent national unemployment rate (March 2009)*

*A 6.2 percent decline of the gross domestic product in the fourth quarter of 2008*

*The failure of thousands of businesses including household names like Circuit City and Lehman Brothers*

These numbers make the extent of the current downturn clear. There is an immediate need to deal with effects of job losses and high foreclosure rates on local communities. Revitalizing the United States economy will be a formidable task that will require innovative approaches to challenges such as modernizing energy generation and rebuilding the nation's infrastructure.

Unlike previous recessions, government and business have a powerful technology for dealing with diagnosing and treating the ailing economy on the local, state, and national levels. GIS has evolved beyond the

that have taken them back and are targets for vandals.

Local governments in two California cities, Chula Vista and Riverside, have GIS applications that address the problems of poor house maintenance and graffiti and minimize the negative impact of vacant houses on neighborhood values. Articles in this issue explain why GIS has been invaluable in enforcing the home maintenance ordinance in Chula Vista and identifying and prosecuting taggers in Riverside.

**New Strategies and Sources**

**...bottom line – GIS and its big costs are a big target for reductions during a financial crisis.**



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# Who Uses GIS in King County?



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# Who Uses GIS in King County?

Jurisdiction	2012 Est	FTES	GIS	GIS	GIS	GIS	Cartograph	Other	GIS	Per Capita Staffing (per 100,000 pop)
		Total	Lead	Analyst	Technician	Programmer	GIS	GIS	Budget	
Algona	3,070	0.00								0.00
Auburn	76,347	2.50	0.50	1.00	1.00				IT/GIS From Auburn Budget: Ir	3.27
Beaux Arts	300	0.00								0.00
Bellevue	124,600	6.00	1.00	5.00				\$ 976,735	Deputy City Manager/IT/GIS	4.82
Black Diamond	4,170	0.00							IT is contracted!	0.00
Bothell	36,567	3.00	1.00	2.00					ISD/GIS	8.20
Burien	47,730	1.00	0.50		0.50				IT & GIS	2.10
Camation	1,785	0.00							Ref a need to start utility mapping to qualify	0.00
Clyde Hill	2,980	0.00							Ref need to continue gis mapping for PW, t	0.00
Covington	17,750	2.00	1.00		1.00					11.26
Des Moines	29,700	1.00	1.00						Split Duties/Funding 3 depts	3.37
Duval	6,900	0.00							PW ref's GIS and minor work but does not!	0.00
Enumclaw	11,030	0.00							One PW Cadd Tech may do some mapping	0.00
Federal Way	89,460	3.00		2.00	1.00				IT/GIS 1 Analyst in IT, 1 in Mayor's i	3.35
Hunts Point	390	0.00								0.00
Issaquah	31,150	2.00	1.00				1.00		1 police IT/GIS/911 analyst	6.42
Kenmore	21,020	0.00							No apparent GIS	0.00
Kent	119,100	4.00	1.00	3.00					PublicWorks/KGIS Coordinator in Planning	3.36
Kirkland	81,480	7.00	1.00	5.50	0.50				IT/GIS	8.59
Lake Forest Pa	12,640	0.00							Ref to GIS & mapping in budget, but no app	0.00
Maple Valley	23,340	1.00		1.00					Finance/IT	4.28
Medina	2,990	0.00								0.00
Mercer Island	22,690	3.00	1.00	1.00	1.00					13.22
Milton	7,239	0.00								0.00
Newcastle	10,460	0.00						\$ 17,000	Budget is for sw (?) and GIS consulting wor	0.00
Normandy Parl	6,350	1.00		1.00					Ref on website to 'GIS Staff' but none ident	15.75
North Bend	5,855	1.00		1.00					Community & Economic Development/GIS	17.08
Pacific	6,535	0.00								0.00
Redmond	55,360	5.00	1.00	2.00	1.00	1.00			Finance/IT/Customr/Service/GIS	9.03
Renton	93,910	3.00	1.00	2.00				\$ 460,920	Admin/IT 1 GIS Tech in PW for utility d	3.19
Sammamish	47,420	1.50	1.00		0.50					3.16
SeaTac	27,210	2.00	0.50	1.50					Finance/IT/GIS	7.35
Seattle	616,500	36.00								5.84
GIS Section Management			1.00	1.00						
GIS Data Maint (Water & DWW)			3.00					6.00		Other = Assoc & Asst CE Specialists: GIS leads = 1 supe
GIS Products & services			1.00	3.00				1.00		Other = Training Program
GIS Application Development			3.00			5.00				Leads = 1 supe & 1 x Technical Lead & 1 x Task Lead
City GIS Coordination			6.00		4.00	1.00		1.00		Leads = 1 supe & 1 x Data Admin Lead, 1 x SW Admin le
SCL										



## Who Uses GIS in King County?

Jurisdiction	2012 Est	FTES		GIS		GIS		GIS		Cartography		Other		Budget	Per Capita Staffing (per 100,000 pop)
		Total	Lead	Analyst	Technician	Programmer	GIS	GIS	GIS	GIS	GIS				
Shoreline	53,270	1.50	1.00		0.50									Administrative Service/GIS	2.82
Skykomish	200	0.00													0.00
Snoqualmie	11,320	1.00		1.00										IT/GIS	8.83
Tukwila	19,080	1.00	1.00											PW/GIS and (?) Community Development/C	5.24
Woodinville	10,960	0.25		0.25										IT = GIS Refer to GIS but only 1 x IT staff	2.28
Yarrow Point	1,060	0.00													0.00
<b>Total King County Cities:</b>		88.75	28.50	33.25	11.00	7.00	1.00								#DIV/0!
<b>Total Pop w/ GIS</b>	<b>1,647,159</b>	88.75													5.39
Port of Seattle		4.00	1.00	1.00		2.00								Eric Drinkpoel (plus 2 x programmer & 1 x d	#DIV/0!
Sound Transit		2.00	1.00	1.00										Mike Strong Lead, 1 x analyst via linkedin s	#DIV/0!
PSRC		4.00	1.00	3.00										Andy Norton - 1 analyst is a Lidar Analyst	#DIV/0!
King Conservation District		0.00	0.00												#DIV/0!
PSE		0.00													#DIV/0!
PSCAA		0.00	0.00												#DIV/0!
Muckleshoot Tribe		1.00	1.00											Grant Timenbwa	#DIV/0!
Snoqualmie Tribe		1.00	1.00											Heather Minella per Greg S.	#DIV/0!
Norcom		0.00													#DIV/0!
ValleyComm		1.00	1.00												#DIV/0!
WS Ferry		0.00													#DIV/0!
<b>King County</b>	<b>2,044,000</b>	49.15													2.40
KCGIS Center		27.00	4.00	18.00		3.00	1.00	1.00							#DIV/0!
Other KCIT GIS		8.65	2.00	6.65											#DIV/0!
Other KC Agencies		13.50	3.50	10.00											#DIV/0!



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## A Survey of Regional GIS *in Action!*

### REPORT ON NATIONAL SURVEY OF MULTI-ORGANIZATIONAL GIS PROGRAMS

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Available at: [www.urisa.org/gmi](http://www.urisa.org/gmi)



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# A Survey of Regional GIS *in Action!*

Table 3: Summary of the Local/Regional GIS Program Name and their Tenure (years in operation)

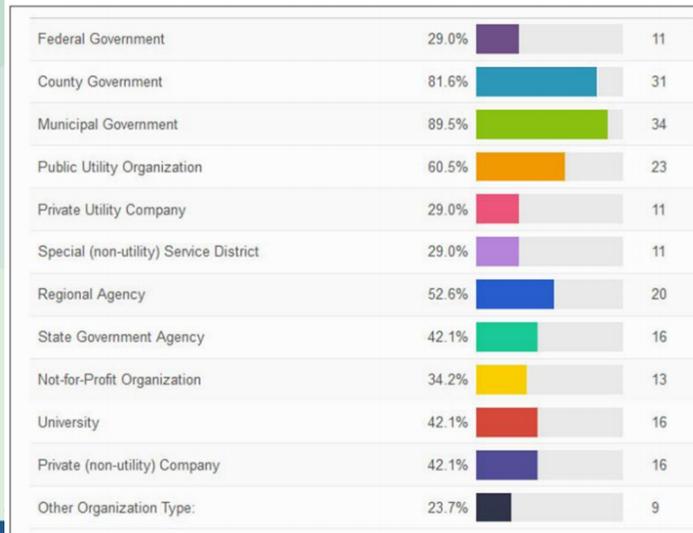
Respondent Organization	GIS Program Name (if applicable)	City/State Location	Tenure of GIS Program
Milwaukee County (WI)	Milwaukee County Automated Mapping and Land Information System (MCAMLIS)	Milwaukee, WI	9
Pulaski Area (AR) GIS (PAGis)	Pulaski Area Geographic Information System (PAGis)	Little Rock, AR	26
City of Oshkosh (WI)	not applicable	Oshkosh, WI	20
Muscatine (IA) Area Geographic Information Consortium (MAGIC)	Muscatine (IA) Area Geographic Information Consortium (MAGIC)	Muscatine, IA	14
Atlantic County (NJ) Office of GIS	Atlantic County Office of GIS	Northfield, NJ	17
Clark County (KY) Consortium for GIS	Clark County Consortium of Geographic Information Systems	Winchester, KY	17
Southwestern Pennsylvania Commission	not applicable	Pittsburgh, PA	21
Washington County (MD)	not applicable	Hagerstown, MD	8
San Diego County (CA)	San Diego Geographic Information Source (SanGIS)	San Diego, CA	30
City of Hayden, ID	Kootenai County GIS, North Idaho Regional Resource Center, Idaho Geospatial Council	Hayden, ID	15
Oregon Metro	Regional Land Information System (RLIS)	Portland, OR	25
City of Phoenix, AZ	not applicable	Phoenix, AZ	20
County of Allegheny (PA)	not applicable	Pittsburgh, PA	14
Lane Council of Governments (LOCG)	Regional Land Information Database (RLID)	Eugene, OR	40
Johnson County (KS)	AIMS (Automated Information Mapping System)	Olathe, KS	28
Nashville Davidson County (TN)	Metro GIS	Nashville, TN	18
Metro GIS (Twin Cities, MN)	Metro GIS	St Paul, MN	18
Arrowhead Regional Development Commission (MN)	North Shore GIS Consortium	Duluth, MN	5
Knoxville Knox County KUB GIS (KUGIS)	Knoxville Knox County Knoxville Utilities Board (KUB) GIS (KUGIS)	Knoxville TN	29
Allen County (IN)	Map Consortium	Fort Wayne, IN	5
Palm Beach County (FL)	Countywide GIS (CWGIS)	West Palm Beach, FL	20
Planning and Development Services of Kenton County (KY)	Land Information of Northern Kentucky GIS or LinkGIS	Fort Mitchell, KY	28
Sacramento Area Council of Governments (CA)	Sacramento County GIS Cooperative, Yolo County GIS Cooperative	Sacramento, CA	12
Gwinnett County (GA)	Gwinnett GIS Community Partnership (informal name)	Lawrenceville, GA	5
Berkeley County (SC)	Berkeley County GIS Consortium	Moncks Corner, SC	23
Butte County Association of Governments (CA)	Butte County Association of Governments Regional GIS	Chico, CA	17
City of Mississauga (ON)	not applicable	Mississauga, ON	NA
Contra Costa County (CA)	Bay Area Regional GIS Council (BARR-GC)	Martinez, CA	NA

Available at: [www.urisa.org/gmi](http://www.urisa.org/gmi)



# A Survey of Regional GIS *in Action!*

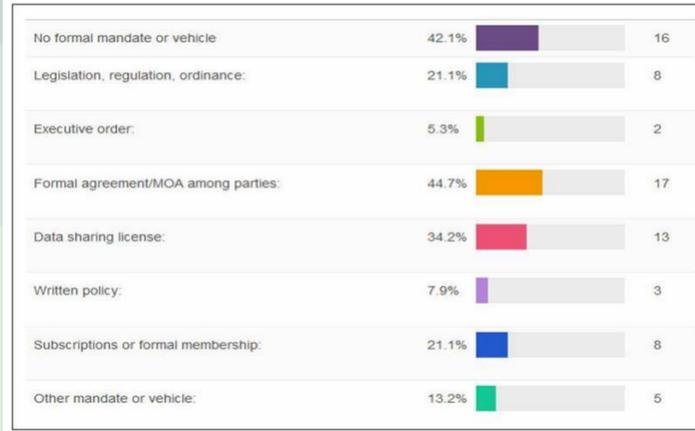
Figure 2: Organization Types of Users



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## A Survey of Regional GIS *in Action!*

Figure 5: Formal Mandate and Administrative and Legal Vehicles



Available at: [www.urisa.org/gmi](http://www.urisa.org/gmi)



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## A Survey of Regional GIS *in Action!*

Table 7: Types of GIS Coordination, Activities, and Services Provided by the Multi-Organizational GIS Program

Activities and Services	Scores with Percentage and Number of Responses for each Item					Weighted Score
	1	2	3	4	5	
Hosting/operation of servers and/or network infrastructure	24.3% 9	5.4% 2	13.5% 5	8.1% 3	48.6% 18	3.51
Software license management and allocation	30.6% 11	13.9% 5	13.9% 5	11.1% 4	30.6% 11	2.97
Hosting of software and data for access by user organizations	19.4% 7	8.3% 3	8.3% 3	19.4% 7	44.4% 16	3.61
Management of vendor/contractor product/service contracts and agreements	19.4% 7	16.7% 6	13.9% 5	19.4% 7	30.6% 11	3.25
Developing and communicating standards for GIS data format, quality, and management	0.0% 0	5.4% 2	24.3% 9	27.0% 10	43.2% 16	4.08
Management of server and network infrastructure	27.8% 10	11.1% 4	16.7% 6	8.3% 3	36.1% 13	3.14
Coordination and management of major GIS database development projects	10.8% 4	8.1% 3	13.5% 5	29.7% 11	37.8% 14	3.76
Supporting a coordinated process for ongoing GIS database updates	5.3% 2	0.0% 0	23.7% 9	21.1% 8	50.0% 19	4.11
Performing ongoing maintenance/quality control of data and metadata	13.2% 5	5.3% 2	18.4% 7	13.2% 5	50.0% 19	3.82
Joint/Coordinated development of custom applications	15.8% 6	18.4% 7	26.3% 10	13.2% 5	26.3% 10	3.16
User technical support/helpdesk services	24.3% 9	5.4% 2	29.7% 11	18.9% 7	21.6% 8	3.08
Coordinated training programs and/or services	21.6% 8	10.8% 4	29.7% 11	21.6% 8	16.2% 6	3.00
Special GIS project services	10.5% 4	5.3% 2	21.1% 8	42.1% 16	21.1% 8	3.58



# A Survey of Regional GIS *in Action!*

Table 9: Importance and Impact of Limitations and Obstacles

Limitation/Obstacle	Scores with Percentage and Number of Responses for each Item					Weighted Score
	1	2	3	4	5	
Legal, policy, or political obstacles to cross-organizational collaboration	7.9% 3	10.5% 4	26.3% 10	21.1% 8	34.2% 13	3.63
Loss of control or effective management of GIS programs in participating organizations	15.8% 6	18.4% 7	26.3% 10	28.9% 11	10.5% 4	3.00
Use of different software presents technical problems	39.5% 15	18.4% 7	21.1% 8	10.5% 4	10.5% 4	2.34
Differences in database architecture and format inhibits common database model	23.7% 9	10.5% 4	26.3% 10	15.8% 6	23.7% 9	3.05
Different needs for custom GIS applications works against joint development/support	21.1% 8	21.1% 8	28.9% 11	18.4% 7	10.5% 4	2.76
Getting start-up and ongoing funding will be difficult	2.6% 1	23.7% 9	18.4% 7	31.6% 12	23.7% 9	3.5
Effective technical support for users could suffer	26.3% 10	26.3% 10	34.2% 13	10.5% 4	2.6% 1	2.37
Problems with assigning and coordinating roles for data update	21.1% 8	15.8% 6	21.1% 8	28.9% 11	13.2% 5	2.97

Available at: [www.urisa.org/gmi](http://www.urisa.org/gmi)

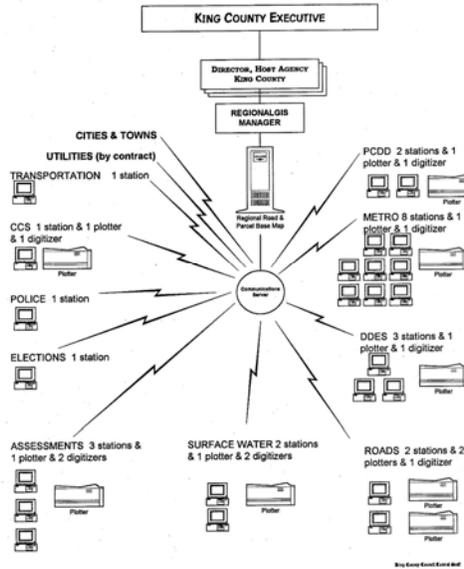


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## Past Attempts at Regional GIS in King County

1993 King County Council Proposal

DIAGRAM OF THE "CORE" REGIONAL GIS SYSTEM (18 months / \$6.5 million)



## Past Attempts at Regional GIS in King County

1999 King County Council Proposal



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## A Modern Business Case for Regional GIS

### Potential Focus Areas for Regional GIS

- ✓ Data development and maintenance
- ✓ Sensed imagery acquisition
- ✓ Project management
- ✓ Application development and maintenance
- ✓ System administration
- ✓ Data management and database administration
- ✓ Regional software license management
- ✓ Regional cloud and/or server administration
- ✓ Statewide county assessment GIS services
- ✓ Training

## A Modern Business Case for Regional GIS

### Potential Focus Areas for Regional GIS

✓ Data development and maintenance

Source: Karl Johansen, *Reassessing the Puget Sound Regional GIS Option*

**Others...**

- Address Data
- Imagery
- Parcel Data
- Geodetic Control
- ESJ Data

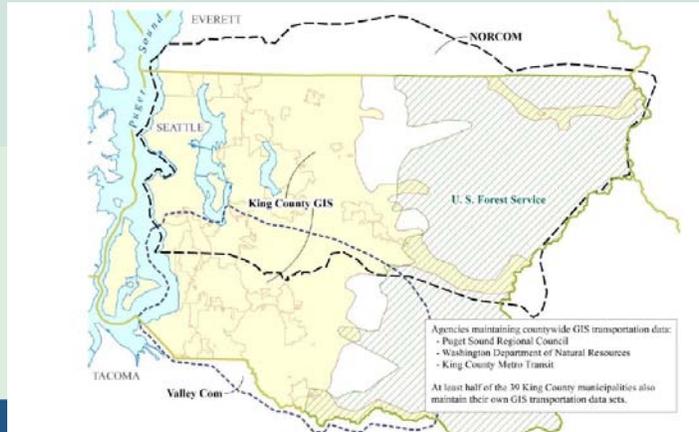


Figure 1 – King County, Washington: overlapping geographic extents of GIS transportation network data



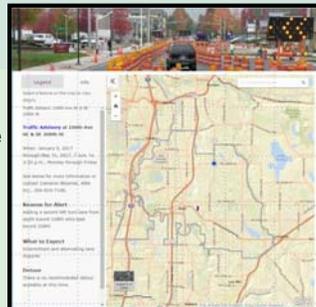
### Regional GIS Collaboration and the City of Kent

**Greater need to:**

- Adopt a community-centric GIS focus
- Take a better inter-agency/ jurisdiction approach
- Seek out best practices and standards
- Target shared services and resources

**Accomplish this by:**

- Combining resources
- Combining skills and expertise
- Sharing services
- Integrating processes
- Sharing information



## Regional GIS Collaboration and the City of Kent

**2017 GIS Day**




**An information sharing culture and framework**

- That will facilitate and encourage joint working between partner agencies
- Better use, improved quality and integration of information resources that already exist in some government jurisdictions and not others
- Leading to better services and strategic advantage for more GIS collaboration between local jurisdictions
- Strong GIS relationships created allowing for regional planning and standardization
- Increase the effectiveness of local government operations and save money. Improved productivity and operational efficiency and effectiveness



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## Snoqualmie Indian Tribe GIS



Reclaim and defend  
ancestral lands

To plan for a resilient,  
thriving community and  
grow as a nation





Document  
history and  
culture to  
reinforce  
cultural identity



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## A Regional GIS for Snoqualmie Tribe

**HISTORICAL AND CURRENT TRIBAL BOUNDARIES**

**Increase Visibility:**

- Tribe can control what information is distributed
- The Tribe can provide the information it wants to provide rather than another agency doing it for them.

**Small Shop:**

- Save money
- Greater potential for collaboration
- Access to subject matter experts




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## A Regional GIS for Beaux Arts Village

**Challenges:**

- Minimal infrastructure for which we are responsible – mainly streets and our water-distribution lines.
- Low use of that infrastructure, when compared with large jurisdictions that have a daily influx of workers.
- Limited capital funds, which creates the need for grant funding whenever we have a large project.
- Limited personnel who could/would be trained to maintain our records – we have just two part-time clerks on the payroll here; all other staff are contract personnel.

**Opportunity:**

*If this is a plan to look at creating an opportunity to participate in a Regional GIS System that would give us access to GIS information without the need to maintain anything more than our limited infrastructure for the database, the Town could benefit greatly.*

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# Sound to Summit Regional GIS Project

## Charter

- ✓ **Strategic Objective:**
  - ✓ Determine the best feasible way to organize and operate geographic information system (GIS) services within the region to enable enhanced use and business effectiveness from GIS, increase ROI, and decreased cost.
  - ✓ Develop uniform GIS policies and procedures
  - ✓ Minimize technical differences and share technical expertise
  - ✓ Enable smart communities across jurisdictional boundaries
  - ✓ Standardized, store, and share high-quality data
  - ✓ Enable GIS mutual aid and 24x7 support
  - ✓ Build capacity through economies of scale
  - ✓ Facilitate buy-in for large collaborative priority initiatives that support the entire region.

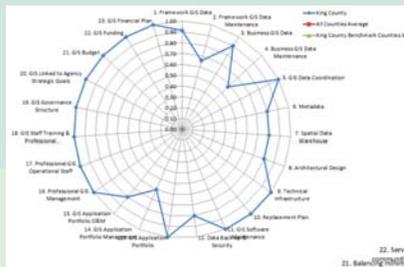


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# Sound to Summit Regional GIS Project

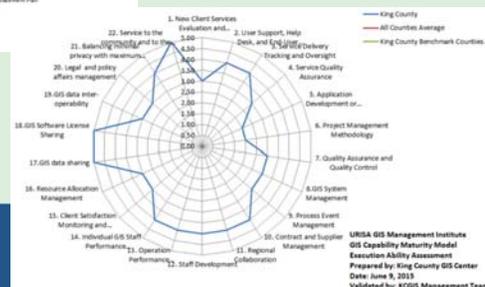
## Charter

- ✓ **Goals:**
  1. Research and report on the baseline GIS resources and capability for public jurisdictions within the geographic focus area.



Utilize Countywide URISA GMI GIS Assessment Site License:

- ✓ GIS Capability Components
- ✓ GIS Data
- ✓ GIS Data Maintenance
- ✓ GIS Process Maturity



URISA GIS Management Institute  
GIS Capability Maturity Model  
Execution Ability Assessment  
Prepared by: King County GIS Center  
Date: June 8, 2015  
Validated by: KCOIS Management Team

# Sound to Summit Regional GIS Project

## Charter

✓ **Goals:**

1. Research and report on the baseline GIS resources and capability for public jurisdictions within the geographic focus area.
2. Provide an option for public jurisdictions to research and report on the baseline return on investment currently achieved by their agency within the geographic focus area.

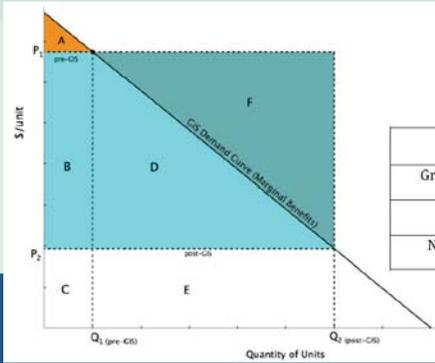
**RICHARD O. ZERBE, JR.**

Richard O. Zerbe, Jr.  
Daniel J. Evans Professor of Public Affairs  
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**Areas of Specialization:**  
Law and Economics, Benefit-Cost Analysis, Antitrust,  
Environmental Economics, Economic History

Richard O. Zerbe, Jr. joined the Evans School faculty in 1981, and holds an adjunct appointment with the University of Washington School of Law. He teaches environmental ethics, microeconomics, government regulation, law and economics.



	Estimate 1 (new demand curve)	Estimate 2 (old demand curve)
Gross Benefits	B + C + D + E + F	B + C + D + E
Costs	C + E	C + E
Net Benefits	B + D + F	B + D

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# Sound to Summit Regional GIS Project

## Charter

✓ **Goals:**

1. Research and report on the baseline GIS resources and capability for public jurisdictions within the geographic focus area.
2. Provide an option for public jurisdictions to research and report on the baseline return on investment currently achieved by their agency within the geographic focus area.
3. Research and report on state of the art regional collaborative GIS operations in other geographic areas.
4. Facilitate ongoing research and information sharing about the future of GIS related to technology, commercial conditions, and political environment.
5. Study feasible options within the local environment for a future collaborative regional GIS approach that: a) maximizes overall effectiveness, b) maximizes ROI, c) enables broader GIS use, and d) controls costs in a way that is sustainable into the future.
6. Present a range of options for implementation: a) status quo, b) recommended option, and c) alternate recommendations.
7. For each option, report on the level of effort, including financial requirements, to achieve the end state.
8. For each option, report on the forecast future state of GIS resources and capability.
9. For each option, report on the estimated future ROI impact.
10. For each option, report on the level of associated risk.
11. For each option, propose quantifiable performance metrics to help verify achievement of future enhanced GIS capability and ROI.
12. Provide a road map for next steps, including opt-in/opt-out alternatives for public jurisdictions.



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## Sound to Summit Regional GIS Project

### Steering Committee:

City of Bellevue: Scott Gebhardt  
 City of Enumclaw: Darci Hanson  
 City of Kent: Catherine Crook (Secretary)  
 City of Kirkland: Brenda Cooper  
 City of Mercer Island: Leah Llamas  
 Muckleshoot Tribe: Grant Timentwa  
 City of Renton: Tim Moore (Vice Chair)  
 City of Seattle: Steve Beimborn  
 Snoqualmie Tribe: Heather Minella  
 City of Covington: Shawn Buck  
 King County: Greg Babinski (Chair)

Project Sponsor: Bob Potts, King County IT

### Advisory Committee:

Geoff Almvig: Skagit County  
 Ian von Essen: Spokane County  
 Matt Freid: City of Portland  
 Tim Nyerges: University of Washington  
 Chris Owen: City of Walla Walla  
 Cy Smith: State of Oregon  
 Joanne Markert: State of Washington GIS Coordinator



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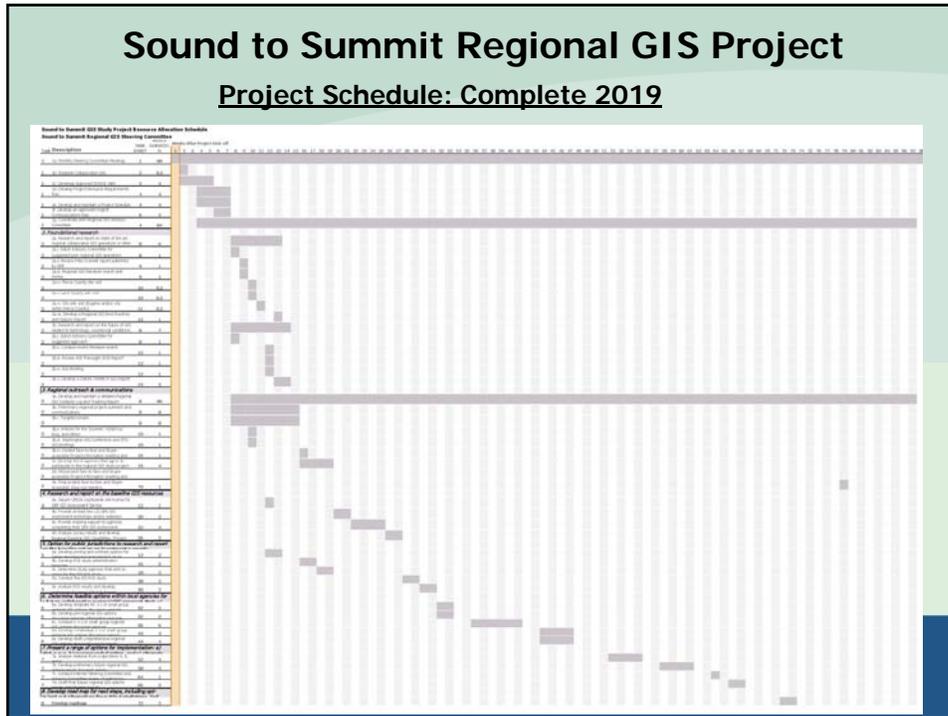
### Project Scope of Work

#### Task

1. Project management
2. Foundational research
  - a. Research and report on state of the art regional collaborative GIS operations in other geographic areas (Ref Charter Goal 3)
  - b. Research and report on the future of GIS related to technology, commercial conditions, and political environment (Ref Charter Goal 4)
3. Regional outreach & communications
4. Research and report on the baseline GIS resources and capability for public jurisdictions within the geographic focus area (ref Charter goal 1)
5. Option for public jurisdictions to research and report on the baseline return on investment currently achieved by their agency within the geographic focus area (ref Charter goal 2)
6. Determine feasible options within local agencies for a future collaborative regional GIS approach that:
  - a) maximizes overall effectiveness, b) maximizes ROI, c) enables broader GIS use, and d) controls costs in a way that is sustainable into the future (ref Charter goal 5)
7. Present a range of options for implementation: a) status quo, b) recommended option, and c) alternate recommendations (ref Charter goal 6)
8. Develop road map for next steps, including opt-in/opt-out alternatives for public jurisdictions (ref Charter goal 12)



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## Sound to Summit Regional GIS Project

**Project kick-off meetings:**

Monday, 10/22: King County  
 Tuesday, 10/23: City of Kirkland  
 Wednesday, 10/24: City of Kent

**Agenda**

- A. Welcome and Review Agenda
- B. Introductions
- C. S2S GIS Steering Committee and Advisory Committee composition and roles
- D. Problem Statement – Why Consider a Regional GIS Approach Now? [5]
- E. Regional GIS Case Studies and considerations (2-3 examples to validate the approach)
- F. Breakout session and report back– what are your problems and issues?
- G. S2S Scope of Work, Level of Effort and Schedule
- H. Potential Level of effort to participate in the study
- I. Potential benefits from participation in the study
- J. Open Discussion
- K. Wrap up and next steps



**King County**  
GIS CENTER

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### Discussion? Questions?



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