

Kenneth B. Winnick, MS, MBA

Economics & Environmental Data Consultant

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Academic Education

2006 M.B.A. Technology Management, University of Washington, Seattle, WA
1981 M.S. Marine Ecology, University of Oregon, Eugene, OR
1976 B.S. Biology & Engineering, Union College, Schenectady, NY

Selected Professional Education

2002 PMP Certification. PMI (Project Management Institute) Refresher Course
2000 Software Project Management, 2000, Construx Software, Bellevue, WA
1999 Project Delivery Systems (PDS), various PM classes, CH2M HILL, Bellevue, WA
1989-... Various ESRI Arc/INFO & Arc/GIS Classes

Experience Highlights

Mr. Winnick is an innovative technical analyst and manager with 25 years of experience focused on the development and use of information systems to analyze a wide variety of water, transportation, energy, environmental, and social issues. He has developed and managed GIS (Geographic Information System) and Data Analysis Groups at major Fortune-1000 firms and transit agencies, including CH2M HILL, URS Corporation, Tetra Tech FW, and Sound Transit in Seattle. Ken is also a skilled negotiator.

- Board Member on the University of Washington GIS Certificate Program, 2002-present.
- 15 years of extensive hands-on and management experience in GIS and remote sensing.
- Developed and managed 3 GIS Labs over 15 years, for Tetra Tech, URS, and Sound Transit.
- Skilled in IT/GIS strategic planning and negotiations.
- Board member candidate for the Wilderness Awareness School, Duvall, WA

Current Positions

GIS Consultant

Provide GIS and economics consulting for various clients in academia, non-profits, and business. Recent and current clients include Washington Dental Service, GeoEducation & Research, Earth Economics (a non-profit focused on ecological valuations), Earth Systems (a geologic analysis company), and a UW research group performing a satellite-based river meander study in South America.

President. Winnick & Associates, LLC. Seattle, WA

In 2007, Ken restarted his vintage 1988 company, Winnick & Associates. The company develops information systems and performs economic and environmental data analysis for environmental, sustainability, and renewable energy projects. W&A is focused on helping fast growing renewable energy and renewable resource companies succeed.

Previous Positions

Information Solutions Director, NW Region. CH2M HILL, Bellevue, WA

Manager for the GIS and Information Solutions lines of business within the Environmental Group. PM and lead tech on selected projects.

- Instituted a SDLC (Software Development Life Cycle) methodology for GIS projects.
- GIS strategic plans for the King County Information Technology Plan, and for the Bunker Hill Superfund Site (EPA).
- Personnel interviews for the USAF/PACAF GEOBASE Strategic Plan. GEOBASE is the Air Force's enterprise GIS.
- Coordinated the successful procurement of a \$1.2 million high resolution airborne mapping project for the USAF in Korea (GEOBASE).

- Web-based GIS-Transportation Improvement Project demonstration project for Puget Sound Regional Council (PSRC), Seattle, WA.

GIS Manager. URS Corporation (previously Dames & Moore), Seattle, WA

Developed and managed the GIS Group for the Northwest region. Leveraged growth from a few existing Forest Service contracts to a million dollar per year operation. Responsible for all management aspects of an eight-person work group.

- Developed the GIS and Database groups for SoundTransit Link Light Rail, under contract with the PSTC (Puget Sound Transit Consultants) Joint Venture. This enterprise information system integrated EIS development, engineering, and real estate acquisition, and employed six staff members. Approximate project size, \$800,000.
- Procured and managed a \$750,000 GIS based habitat prediction model for Weyerhaeuser Corporation, in support of their Habitat Management and Conservation Programs (HMP/HCP).
- Managed a \$300,000 GIS development and analysis project related to permitting of the “Cross Cascades Pipeline Project” for Texaco Transportation and the Olympic Pipeline Company (OLPC). The system provided for analysis and mapping of water and environmental issues.
- Developed the GIS and mapping for the Kitsap County Greenways Plan. This project won awards on the national level under the ISTE program.

GIS Manager. Tetra Tech FW (previously EBASCO), Bellevue, WA

Developed and managed the first consultant based GIS Group in the Northwest. Grew the group from a very small support operation to a group generating close to \$1 million of revenue per year. Responsible for all management aspects of a six-person work group. PM on multiple projects.

- Developed the GIS for the multidimensional May Creek Basin Plan for King County. Integrated a variety of HEC & HSPF models.
- Developed and managed the GIS mapping and analysis for \$6 million in Timber Sale multidimensional EIS (Environmental Impact Statement) projects in Alaska. A spectrum of environmental issues were considered in light of proposed timber harvest planning.
- Managed development of a \$250,000 GIS software system for ACOE (Army Corps of Engineers) Missouri River Master Operating Manual Review and Update.
- Managed GIS application development for Risk Assessment studies at Hanford and Rocky Mountain Arsenal.

Selected Projects

Sound Transit, Link Light Rail Department, Seattle, Washington. Mr. Winnick marketed, developed and managed the Agency GIS Center and associated real estate data systems for the Link Light Rail Division of the Regional Transit Agency, Sound Transit. Also developed a web based internal mapping application.

Ecological Economics Evaluation. Earth Economics and King Conservation District, Seattle, WA. Performed GIS and modeling support for ecological economics evaluation of the King County Conservation District in Washington. The KCD covers a majority of King County.

King County IT Department, Seattle, WA. Mr. Winnick collaborated with Moss Adams Advisory Service to conduct an IT Strategic Plan for King County. Ken Winnick conducted the GIS portion of the plan, which incorporated key client interviews.

Habitat Conservation Program (HCP), Weyerhaeuser Company Timberlands Information Services. Managed a team of five ARC/INFO programmers and cartographers to design, develop, implement, and test a suite of wildlife habitat models and automated map procedures. Duties included project management, design guidance, quality control, and

integration with existing forestry software. Results were integrated into the SW Washington Habitat Management Plan.

Cross Cascades Pipeline EFSEC Permits, Texaco Transportation. Managed the GIS and database components for all aspects of route selection and permit application for a proposed 228-mile petroleum pipeline. A wide variety of maps were produced in addition to a 100-page map atlas designed to illustrate the major permitting issues. Performed similar studies on a wide variety of shorter pipeline applications

EPA, Bunker Hill. Mr. Winnick developed the IS/GIS Strategic Plan for the Bunker Hill Superfund Site. The plan was developed according to a methodology developed by Mr. Winnick, and was designed to incorporate input and develop consensus from a variety of parties with differing agendas

GIS & Economic Analysis, Washington Dental Service, Seattle, WA.

Working with GeoEducation & Research, LLC, Winnick & Associates provided GIS demographic analysis of several mobile dentistry programs around the US.

Transportation Improvement Project (TIP) WebGIS, Puget Sound Regional Council, Seattle, Washington. Managed a project to develop a web-based GIS (WebGIS) ArcIMS application for the Puget Sound Regional Council's transportation improvement program.

Polk Inlet EIS; Control Lake; Ushk Bay; and Eight Fathom EIS's, USDA Forest Service, Ketchikan and Sitka, Alaska (4 separate projects).

GIS manager for these four large timber sale EIS projects. Worked closely with personnel in the areas of timber inventory, transportation planning, watersheds, geomorphology, soils, fisheries, wildlife, endangered species, non-forest vegetation, recreation, economics, visual impacts, and subsistence issues. Developed numerous automated procedures to support initial analyses, field work, road card generation, stand management planning, and development of management alternatives.

Map Enabled Web Site (MEWS), U.S. Army, Germany. Provided marketing and concept development for a "U.S. Army Logistics Locator" for the Army Logistics Automation Division, Mobile Positioning Initiative.

May Creek Basin Plan, King County, Washington. Managed the GIS elements for this large, interdisciplinary basin study. Used GIS to integrate hydrologic simulation (HSPF) and hydraulic (HEC-II) models to simulate existing and future runoff, river flows, and flooding in the basin.

Initial Watershed Assessment, Washington Department of Ecology. Managed the GIS for this project. GIS maps and procedures were developed to assess the status and trends in water use, stream flow, water quality, and aquatic habitat in four resource inventory areas in Washington state.

ISTEA Greenways Plan, Kitsap County, Washington. Provided the GIS management for the county's ISTEA-funded Greenways Plan, which became a part of the Comprehensive Plan. This project won awards at the national level and was recognized by the Secretary of Transportation.

Missouri River Master Water Control Manual Review and Update, U.S. Army Corps of Engineers, Omaha Division. Managed the development of a very large GIS vegetation and wildlife database along the Missouri River, from Montana to the Mississippi River. The GIS was integrated with a variety of river response models to evaluate hydro operations.