

EXHIBIT 1

ANDREW DYKE

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Dr. Andrew Dyke, a Senior Economist and partner at ECONorthwest, has expertise in program evaluation and applied microeconomic analysis in a variety of areas. He has developed and applied sophisticated econometric models in labor, education, state human services, crime, and other areas. His published research includes a peer-reviewed study examining the relationship between election cycles and the criminal justice system, an evaluation of North Carolina job-training programs that was cited the President's Council of Economic Advisor's July 2009 "Preparing the workers of today for the jobs of tomorrow" report. Recent work at ECONorthwest includes projects on K-12 and post-secondary education, workforce development, benefit-cost analysis, child support enforcement, healthcare, and regional modeling of local labor markets and other aspects of the economy.

Prior to joining ECONorthwest, Dr. Dyke was most recently a finance and policy analyst for the Public Health Division of Oregon Department of Human Services. Dr. Dyke has also taught economics and statistics courses at the University of North Carolina-Chapel Hill, Portland State University, and Pacific University.

SELECTED PROJECT EXPERIENCE

- For a private client, reviewed studies on the costs associated with labeling products as containing genetically modified organisms.
- For an Oregon tribe, analyzed historical data on tribal membership and tribe health plan utilization to develop forecasts through 2030 of (a) tribal and health plan membership by age, gender, and geography; (b) health plan utilization; and (c) cost of forecast claims activity. Findings were to inform strategic planning regarding the Tribe's self-insured health plan and wellness center.
- For a West Coast tribe, assessed the feasibility of a new health clinic to be developed by a third part near the tribe's existing clinic operations. The analysis incorporated demographic and facility-siting data to develop measures of relative clinic "supply" near the tribe's existing facility.
- For a private medical provider, ECONorthwest conducted a multi-site market analysis and developed recommendations for strategies targeting specific markets across selected metropolitan areas and market segments. Work included developing data on current and forecast population demographics, market activity, and economic conditions relevant to health insurance markets.
- For a private insurer, conducted a comprehensive market penetration and facility site analysis. The project included conducted a detailed analysis of selected local health insurance markets, assessed recent local, state, and national market trends, and developed recommendations for long and short-term marketing strategies.
- For the Washington State Liquor Control Board, developed an econometric model of liquor store siting that determined the optimal store types and locations across the state.

- For a Washington hospital, ECONorthwest conducted a market analysis for selected outpatient procedures in support of a Certificate of Need application. The project included a geospatial analysis of the location of patient residences relative to the site at which they received services, an analysis of the market concentration for the selected procedures
- For Multnomah County, Oregon and TriMet, the Portland-area regional transit authority, developed and implemented semiannual economic and revenue forecasts.
- For Puget Sound Regional Council, prepared a 30-year regional economic and demographic forecast for the Puget Sound regional economy.
- For Puget Sound Partnership, provide statistical, survey instrument development, and other quantitative support for the development of "practices" and "social capital" indices for the 12-county Puget Sound Region
- For Metro, Portland, Oregon's regional planning organization, evaluated the effectiveness of Metro's CPDG program, which funds planning projects throughout the Metro Region.
- For Lane Transit District (LTD), conducted and reported on economic analysis to support LTD's board make a statutorily required determination about whether the local economy has recovered "to an extent sufficient to warrant" a payroll tax increase authorized in statute.
- For Oregon's Department of Transportation, implemented ECONorthwest's model of highway cost allocation to attribute the costs imposed and revenues generated by vehicles of different weights.
- For the Transportation Research Board/National Academy of Sciences, developed a non-user benefit supplement to AASHTO's manual on user-benefit analysis for highway improvements.
- For Oregon's Department of Transportation, implemented ECONorthwest's model of highway cost allocation to attribute the costs imposed and revenues generated by vehicles of different weights.
- For Portland Development Commission, evaluated Portland's five limited residential tax exemption programs and suggested policy recommendations to achieve better alignment of program goals and intended outcomes.
- For Oregon Department of Justice, analyzed and reported on foreclosure and foreclosure mitigation activity to inform housing advocates and lawmakers of SB 628's impacts and help guide future development of Oregon's foreclosure mitigation efforts.
- For the Seattle City Auditor, in partnership with MEF Associates, conducted an evaluability assessment of the Seattle Youth Violence Prevention Initiative, a city program designed to reduce violence among high-risk youth.
- For Worksystems, Inc. (WSI), assessed post-participation educational outcomes for participants in WSI's SummerWorks youth summer employment program.
- For Oregon's Department of Community Colleges and Workforce Development, evaluated the efficiency of Oregon's Employer Workforce Training Fund (EWTF) at meeting stated

program goals and quantifying the value of EWTF-funded activities to program trainees, Oregon businesses, and taxpayers.

- For Oregon’s Department of Community Colleges and Workforce Development, evaluated ARRA-funded workforce development programs in Oregon. The evaluation included analysis of the long- and short-term economic impacts of program investments and a profile of the extent to which youth program participants re-engaged in education following participation.
- Under a US Department of Labor WIRED grant administered by Worksystems, Inc., expanded ECONorthwest’s workforce development resource map to include seven Oregon counties and three counties in Southwest Washington. Oregon’s Department of Community Colleges and Workforce contracted with ECONorthwest for the development a similar, statewide map.
- Evaluated the BizConnect program, which was implemented under a federal WIRED grant in a 10-county region in and around Portland, and seeks to help schools coordinate career-related learning experiences with businesses.
- For Worksystems, Inc. and the regional Workforce Investment Board, conducted and analyzed a comprehensive survey of workforce development providers in Multnomah and Washington Counties to produce a regional workforce development resource map.
- For Worksystems, Inc., and the City of Portland, developed a resource map of local economic development agencies and a companion resource map of dropout recovery, prevention and retention programs in the Portland area.
- For Worksystems, Inc., the City of Portland, and the Portland Schools Foundation, developed a detailed presentation and associated data appendix on the status of youth in Multnomah and Washington counties, with a focus on “disconnected” youth—individuals 14-24 who are out of school and unemployed.
- For the City of Hillsboro, assessed workforce development service availability and the need for services among residents of the city’s enterprise zone.
- For the Oregon State Criminal Justice Commission, analyzed Oregon’s portfolio of crime prevention programs and assisted CJC in estimating the benefits derived from the portfolio; completed a statistical analysis of recidivism using data from Oregon’s Department of Corrections.
- For the State of Washington, Division of Child Support Enforcement, evaluated the impacts of hospital-based efforts to encourage fathers to voluntarily attest to paternity.
- For the State of Washington, Division of Child Support Enforcement, evaluated a child support demonstration project to improve the state’s electronic child support referral processes.
- For U.S. Department of Human Services Office of Child Support Enforcement, evaluated the implementation and effectiveness of a performance-based incentive payment system for state child support agencies.
- For the State of Washington, Division of Child Support Enforcement, evaluated a child support demonstration project to assist parents in developing and filing parenting plans, for the State of Washington Division of Child Support Enforcement.

- For the Bill & Melinda Gates Foundation, developed a scenario impact model to help guide strategy and implementation of initiatives designed to increase the college readiness of public school students in the United States (ongoing).
- For the Bill & Melinda Gates Foundation, developed a scenario impact model to help guide strategy and implementation of initiatives designed to increase post-secondary educational attainment of the working-age population in the United States (ongoing).
- For the I Have a Dream foundation, evaluate educational outcomes for students of the foundation's Dreamers school and develop a model to help program staff target dropout prevention resources (ongoing).
- For Oregon's Quality Education Commission, conducted a statewide, student-level analysis of post-secondary enrolment and used model output to identify Oregon high schools whose students demonstrate exceptionally high or exceptionally low engagement in post-secondary education, after controlling for student and school characteristics.
- For the Chalkboard Project, in partnership with Education Northwest, conducting the local evaluation for Chalkboard's Teacher Incentive Fund grant that will allow seven Oregon School districts to further implement elements of Chalkboard's CLASS project, including value-added modeling of teacher and principal effectiveness and new performance based compensation systems, and revamped professional development initiatives. Project work includes student growth modeling for participating districts (ongoing).
- In collaboration with Chalkboard Project, Attendance Works, and the Child and Family Poverty Center, analyzed and reported on the extent of chronic absenteeism in Oregon and the relationships among chronic absenteeism and academic outcomes.
- Provided Oregon's Indian tribes with quantitative and qualitative data that illustrate the condition of education for tribal members in Oregon (e.g., student achievement, degree attainment, postsecondary enrollment).
- For Open Meadow Alternative Schools, conducted an evaluation of Step Up, the organization's 9th grade transition program. The evaluation includes a small RCT implemented during 2010 and 2011 at one of the Step Up school sites. The evaluation will include analysis of outcomes for several 9th grade cohorts of participants as they progress from 9th grade to graduation (ongoing).
- For Employers for Education Excellence (E3), conducted an econometric analysis of outcomes at schools funded by E3's Oregon Small Schools Initiative to determine progress made by Initiative schools towards improving student outcomes (ongoing).
- For the Chalkboard Project, analyzed student achievement and high school completion outcomes to inform Chalkboard and other stakeholders about the progress being made in Oregon school districts participating in Chalkboard's CLASS project.
- For a number of Oregon school districts and an ESD, in partnership with Chalkboard Project, analyzed enrollment, spending, and student outcomes to characterize the relative efficiency of school district operations and to help districts identify potential savings where spending exceeds statewide averages.

- For Open Meadow Alternative Schools (OMAS), analyzed student characteristic and outcome data and developed an evaluation database tool containing this data that will allow OMAS staff to implement and monitor program improvement initiatives.
- For the Chalkboard Project, conducted an analysis of Oregon Department of Education data to provide a statistical portrait of Oregon's Hispanic students and their teachers, and of the Hispanic-White achievement gap.
- For the Chalkboard Project, analyzed National Center for Education Statistics survey data to assess teacher professional development practices in Oregon relative to those in other states.
- For the Chalkboard Project, contributed analysis for Chalkboard's annual report on the condition of K-12 education in Oregon (multiple years).
- Benchmarked the conditions of Black Oregonians in education, housing, and employment and developed a public policy agenda for the *The State of Black Oregon* report. Urban League of Portland.
- For the Black Parent Initiative and Chalkboard Project, conducted an analysis of Oregon Department of Education data to provide BPI with a statistical portrait of Black students and their teachers in Multnomah County, and the Black-white achievement gap.
- For the SEED Foundation, as a subcontractor to Education First, developed a return-on-investment (ROI) model for public investments in proposed SEED public boarding schools in Ohio. Customized the model to incorporate district-specific data for five Ohio school districts. The analysis also included an investigation of potential funding sources.

COMMUNITY SERVICE

- Member of the education data advisory teams for the Greater Portland Vancouver Indicators Project and the Portland Schools Foundation's Cradle to Career Initiative. Both projects seek to develop community indicators and to use indicator data to drive greater community engagement and provider alignment to improve regional outcomes (ongoing).

SELECTED PUBLICATIONS AND PRESENTATIONS

- Tapogna, John, Kevin E. Cahill, and Andrew Dyke. 2014. "Comparing Spending and Academic Results is Imperative." Idaho ED News (July).
- Panelist, "Making the Business Case for Livable Communities," Creating Livable Communities for All Ages Conference, Portland, 2014.
- "Chronically Absent Students: An Opportunity to Expand Public Health Partnerships with Educators", with T. Henderson, presented at the 2013 Oregon Public Health Association annual conference.
- Raphael, J., Dyke, A., and Scott, C. The Correspondence Between High School Writing Scores and First-Year Community College Remediation in Oregon. Portland, OR: Education Northwest, REL Northwest, 2011.
- "Electoral Cycles in the Administration of Criminal Justice", *Journal of Public Choice*, vol. 133, December 2007, pp. 417-437.

- “The Effects of Welfare-To-Work Program Activities and Training on Labor Market Outcomes”, with Carolyn J. Heinrich, Peter R. Mueser, and Kenneth R. Troske, *Journal of Labor Economics*, vol. 23, no. 4, July 2006, pp. 567-608.
- “The Effect of Layoffs on Economic Crime”, with Helen Tauchen, working paper.
- “Trends in educational attainment of Oregon’s labor force,” presented at the 2009 Pacific Northwest Regional Economics Conference.
- “Economic Realities of Healthcare Reform in Oregon,” presented at the 2008 Oregon Health Summit.
- “Electoral Cycles in the Administration of Criminal Justice”, presented at the Southern Economics Conference, 2003.
- “Do Welfare Recipients Really Vote With Their Feet: Intrastate Migration and Welfare Reform in North Carolina”, with Dean Duncan, Michelle Dylan, Monica Kum, and Nan Park, presented at the APPAM Fall Research Conference, 2000.