

# Early Childhood Development as Economic Development

*Early Childhood Development in Indian Country*  
*Oct. 5, 2016*



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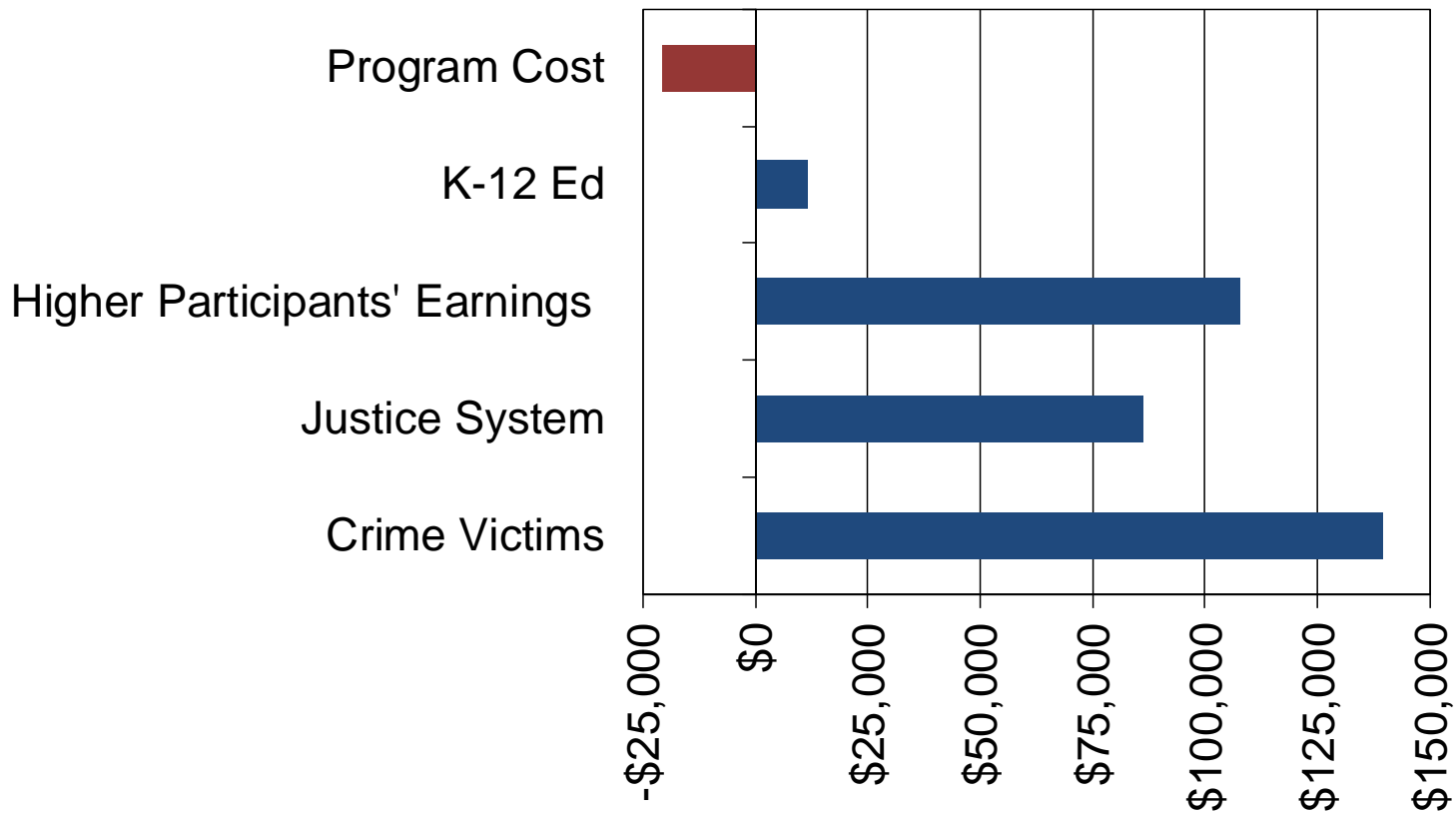


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*The views expressed here are those of the authors and not necessarily those of the Federal Reserve Bank of Minneapolis or the Federal Reserve System.*

# Benefits Far Exceed Costs

## Perry Preschool – Costs and Benefits Over 62 Years




Source: Schweinhart, et al. (2005)



# Benefit-Cost Ratios for Early Childhood Development Longitudinal Studies

- Perry Preschool
  - \$16 to \$1
- Abecedarian Educational Child Care
  - \$4 to \$1
- Chicago-Child Parent
  - \$10 to \$1
- Elmira Prenatal/Early Infancy Project
  - \$5 to \$1

Sources: Schweinhart, et al. (2005); Masse & Barnett (2002); Reynolds, Temple, White, Ou, & Robertson (2011); Karoly, et al. (1998)




# Home visiting program for growth-stunted young children shows long-term benefits

Based on randomized control trials

- Jamaica. Age 22.
  - Higher education attainment, reduced crime, and 25% higher earnings
- Replication in Colombia. Post-program (age 3 and 4).
  - Stronger cognition and receptive language
- Replication underway in India.



# Principles for bringing early childhood development to scale

- Target resources to vulnerable children and families
  - Start prenatal
  - Empower parents
  - Assess and improve quality
  - Long-term commitment
- 

The Saint Paul

# Early Childhood Scholarship Program

Helping Families Get High-Quality Child  
Care and Early Education

Now enrolling 3-year-old children in Saint Paul's Frogtown and  
North End neighborhoods!

Tam si no yog lub sijhawm rau cov menyuam muaj hnuv nyoog 3 xyooos uas nyob hauv St. Paul  
ob koog zej zog Frogtown thiab North End cuv npe koom peb!

Imminka waxa la qorayaa ilmaha 3 sanno jirka ah ee xaafadaha Frogtown iyo North End ee  
Saint Paul!

¡Ahora registrando a los niños de 3 años de edad de los vecindarios de Saint Paul, Frogtown  
y North End!



# Early Learning Scholarships – White Earth Reservation

## Year 2 Report Summary

- Selected families with the highest need, 144 children
- Scholarships linked with parent mentor and child development trainings
- Scholarships were incentive for programs to enroll in the Parent Aware quality rating system
- Scholarships enabled programs to increase quality and serve more low-income families and children with special needs

Source: Chen, W., Ferguson, K., Campell, A., & Spiker, D. (2014)



## Sources

- Chen, W., Ferguson, K., Campell, A., & Spiker, D. (2014, October). *Evaluation for Minnesota's Race to the Top-Early Learning Challenge funds to promote access to high-quality programs: Year 2 annual report*. Menlo Park, CA: SRI International.
- Gertler, P., Heckman, J. J., Pinto, R., Zanolini, A., Vermeersch, C., Walker, S. Chang, S.M., Grantham-McGregor, S. (2014). "Labor market returns to an early childhood stimulation intervention in Jamaica." *Science* 344.6187, 998-1001.
- Heckman, J. J., Moon, S.H., Pinto, R., Savelyez, P., & Yavitz, A. (2010). "The Rate of Return to the HighScope Perry Preschool Program." *Journal of Public Economics* 94(1-2), 114-28.
- Karoly, L.A., Greenwood, P.W., Everingham, S.S., Hoube, J., Kilburn, M.R., Rydell et al. (1998). *Investing in Our Children: What We Know and Don't Know About the Costs and Benefits of Early Childhood Interventions*. Santa Monica, Cal.: RAND Corporation.
- Masse, L.N., & Barnett, W.S. (2002). *A Benefit-Cost Analysis of the Abecedarian Early Childhood Intervention*. New Brunswick, N.J.: National Institute for Early Education Research.
- Meghir, C. *Early Childhood Interventions: Experimental and Observational Evidence: An International Perspective*. Presentation to the Human Capital Research Collaborative, University of Minnesota, Sept. 15, 2016. Accessed on Oct. 2, 2016. <https://www.humancapitalrc.org/news-and-events/2016/hcrc-visiting-scholar-seminar>.
- Reynolds, A.J., Temple, J.A., Robertson, D.L., & Mann, E.A. (2002). "Age 21 Cost-Benefit Analysis of the Title I Chicago Child-Parent Centers." *Educational Evaluation and Policy Analysis* 4(24), 267-303.
- Schweinhart, L.J., Montie, J., Xiang, Z., Barnett, W.S., Belfield, C.R., & Nores, M. (2005). *Lifetime Effects: The High/Scope Perry Preschool Study Through Age 40*. Ypsilanti, Mich.: High-Scope Press.