

Quantitative Policy Tools for Big Cities

Sophie Snyder

PhD Student

UCLA Fielding School of Public Health

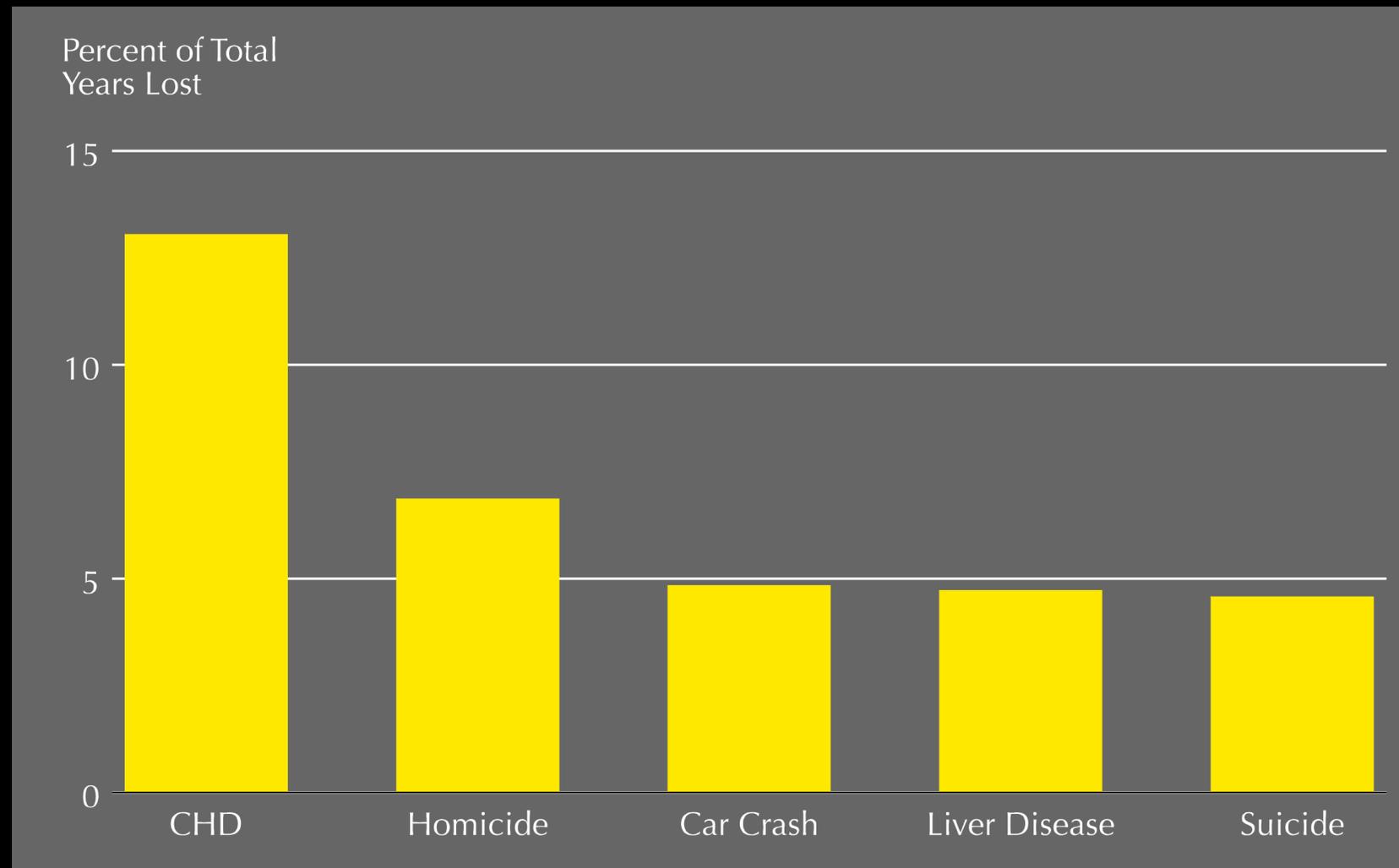
Faculty:

Fred Zimmerman, Jonathan Fielding,
Steve Teutsch, Brian Cole

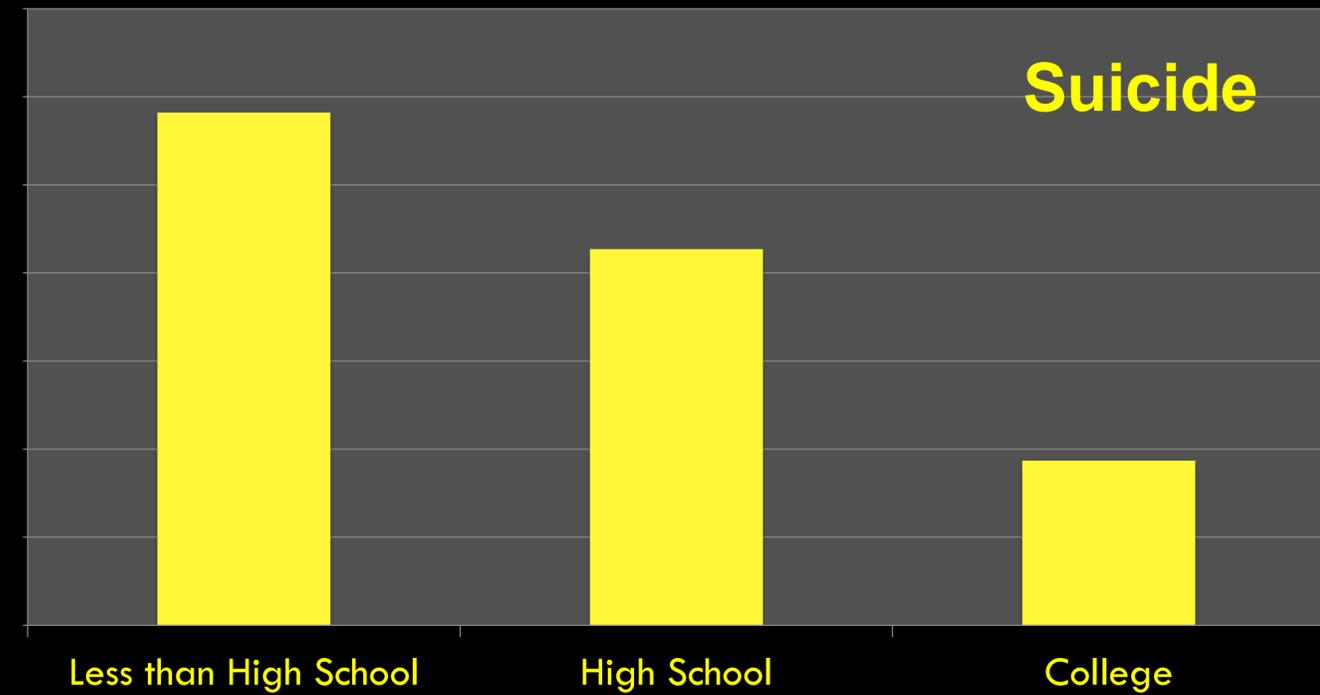
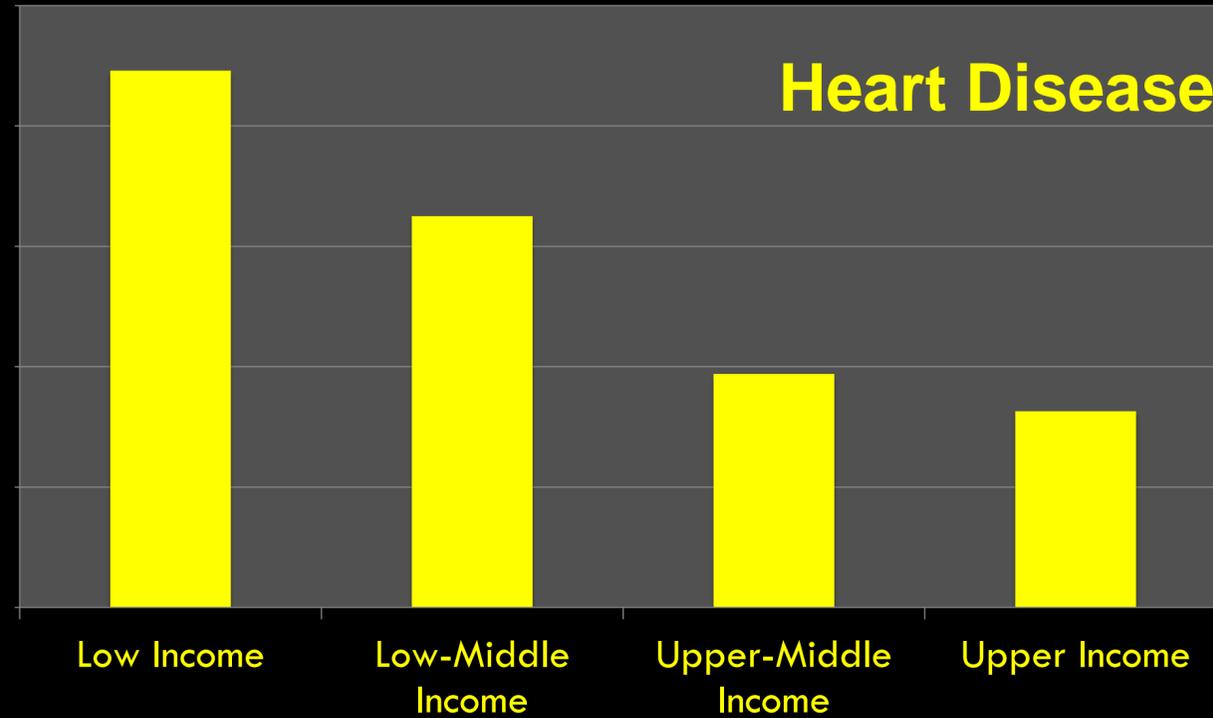


1/3

of all premature deaths in
LA County are
caused by just 5
things



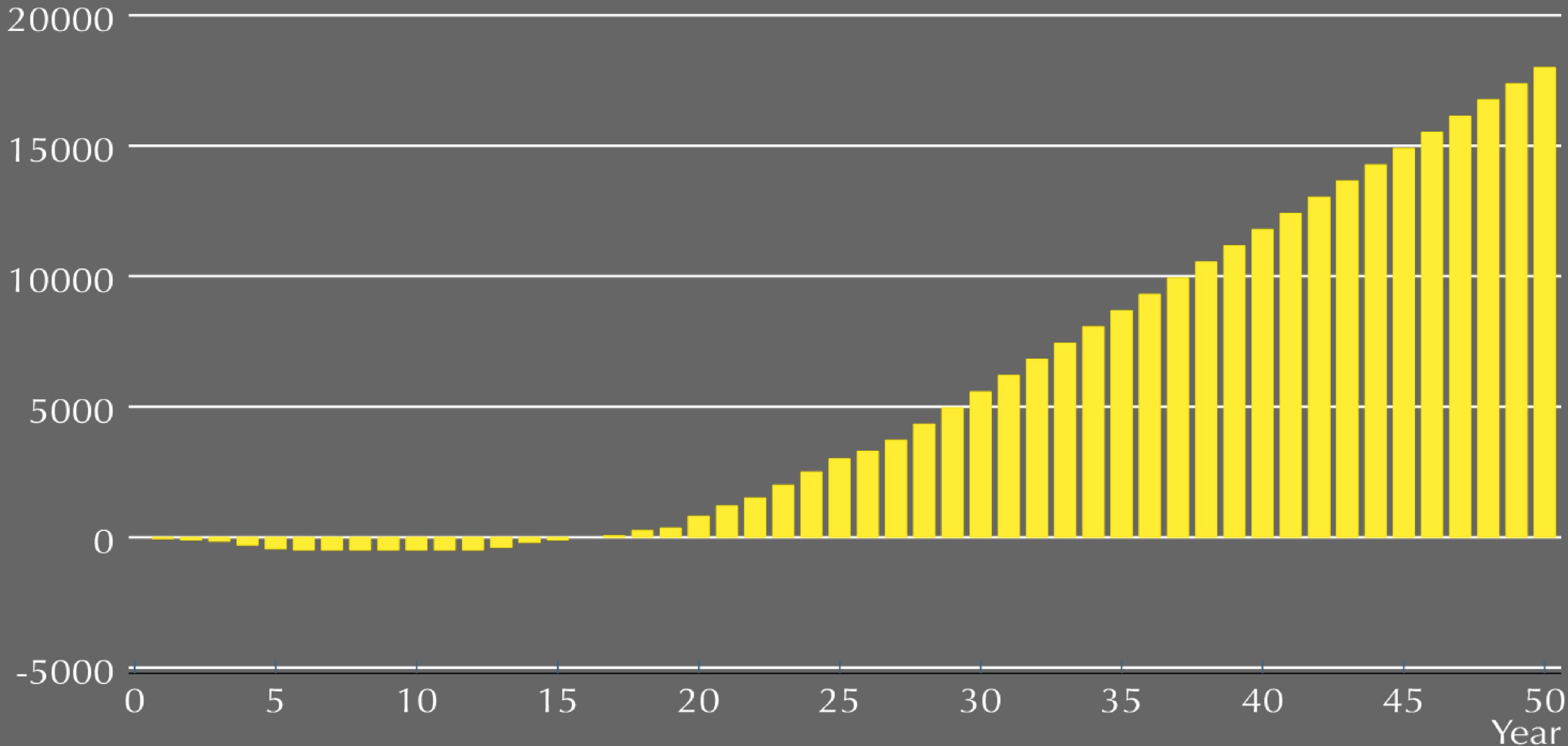
...and they all have the same social etiology



**We
know
What to
Do**



Cumulative Net Cash Flow (\$) per Beneficiary



What we're doing

Literature Scan

Clearing Houses

Blueprints for Healthy Youth Development

County Health Rankings & Roadmaps

Edutopia

SAMHSA

CA Evidence-Based Clearinghouse for Child Welfare

Center for Health and Health Care in Schools

Guide to Community Preventive Services

University of Washington Population Health Institute

Washington State Institute for Public Policy

Initial Ranking Criteria

- Timeline
- Number of Effect Sizes
- Significance of Effect Sizes
- Probability of Positive Returns

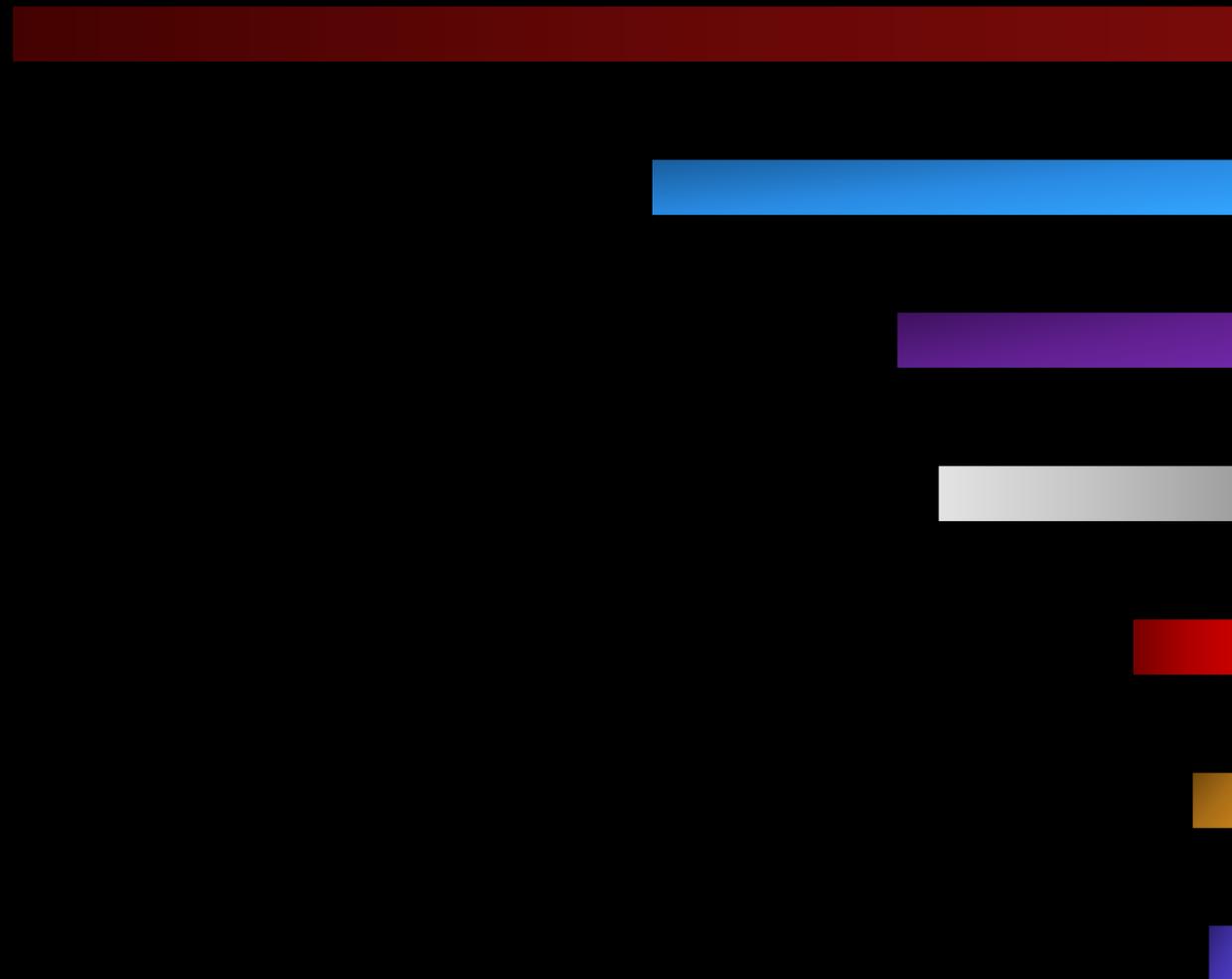


Final Selection Criteria

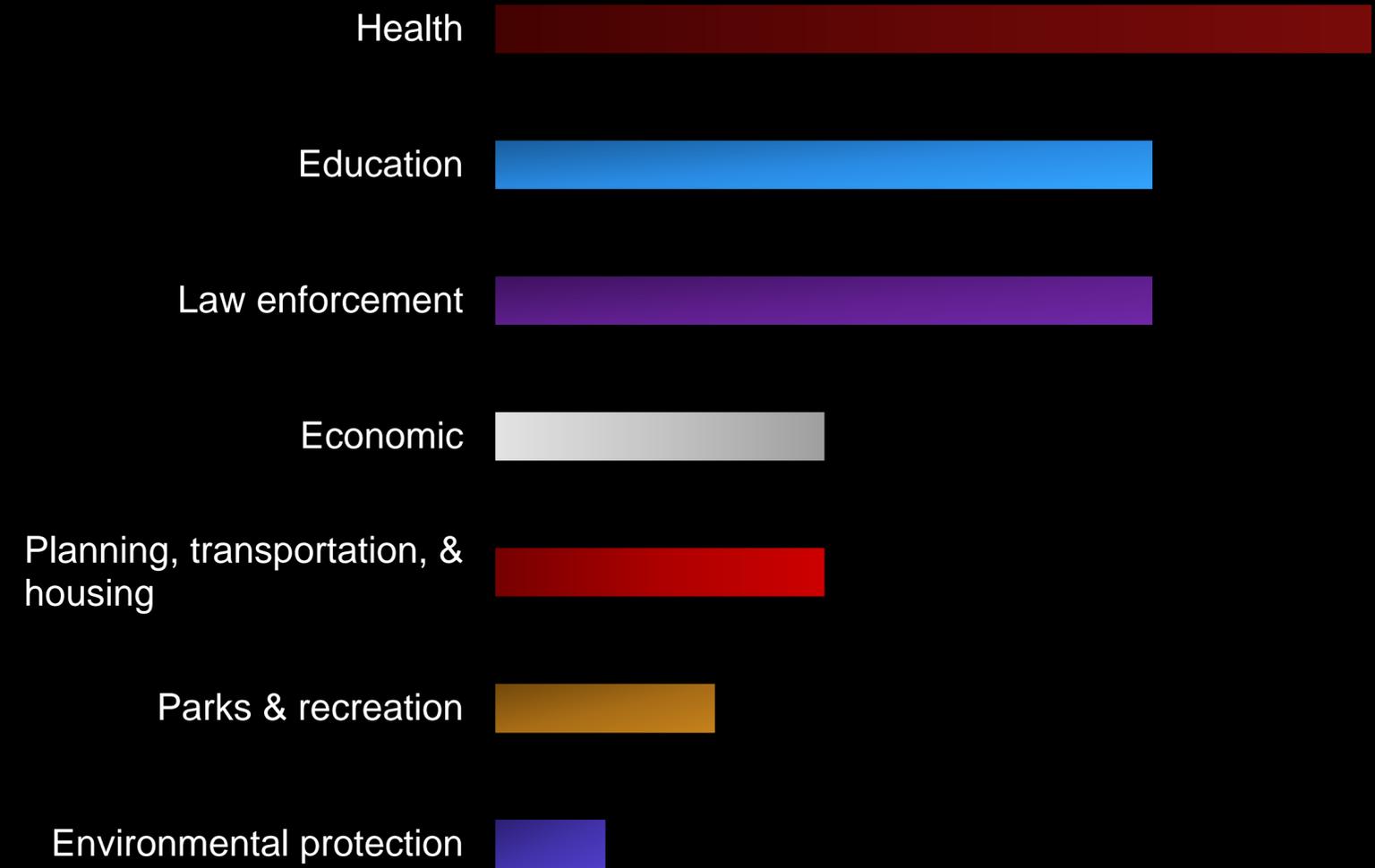
- Political Feasibility
- Intersectoral Nature
- Diversity of Sectors
- Population Served

Categories of Programs and Policies

1150



29



Perinatal

Early childhood

Adolescence

Young adults

Adults

Seniors

'Centering Pregnancy'

Nurse-family partnership

Universal pre-kindergarten

Reduce kindergarten class

Breast feeding programs - maternity care

'Knowledge is Power'

Targeting truancy

Mentoring highschool grad

'Harmony Project'

Functional family therapy

Multi-systemic therapy

Cognitive behavior (depression)

'Positive Action'

Behavioral parent training

Behavioral couples' therapy - substance abuse

Home-based depression care mgmt

Electronic screening & brief intervention

CBT: high/mod risk offenders

Community employment training

Mental health courts

Outpatient non-intensive drug treatment

Multi-comp school based obesity prevention

Sex education - risk reduction

Streetscape design

Child safety seat distribution

Increase minimum wage

Increase Earned Income

Multi-component ground water management

Alcohol availability reduction policies

Tenant-based rental assistance

Lead abatement

Category specific interventions

Policies for whole lifetime

Planning, transportation & housing

Environmental protection

Parks & recreation

Law enforcement

Education

Health

Economic

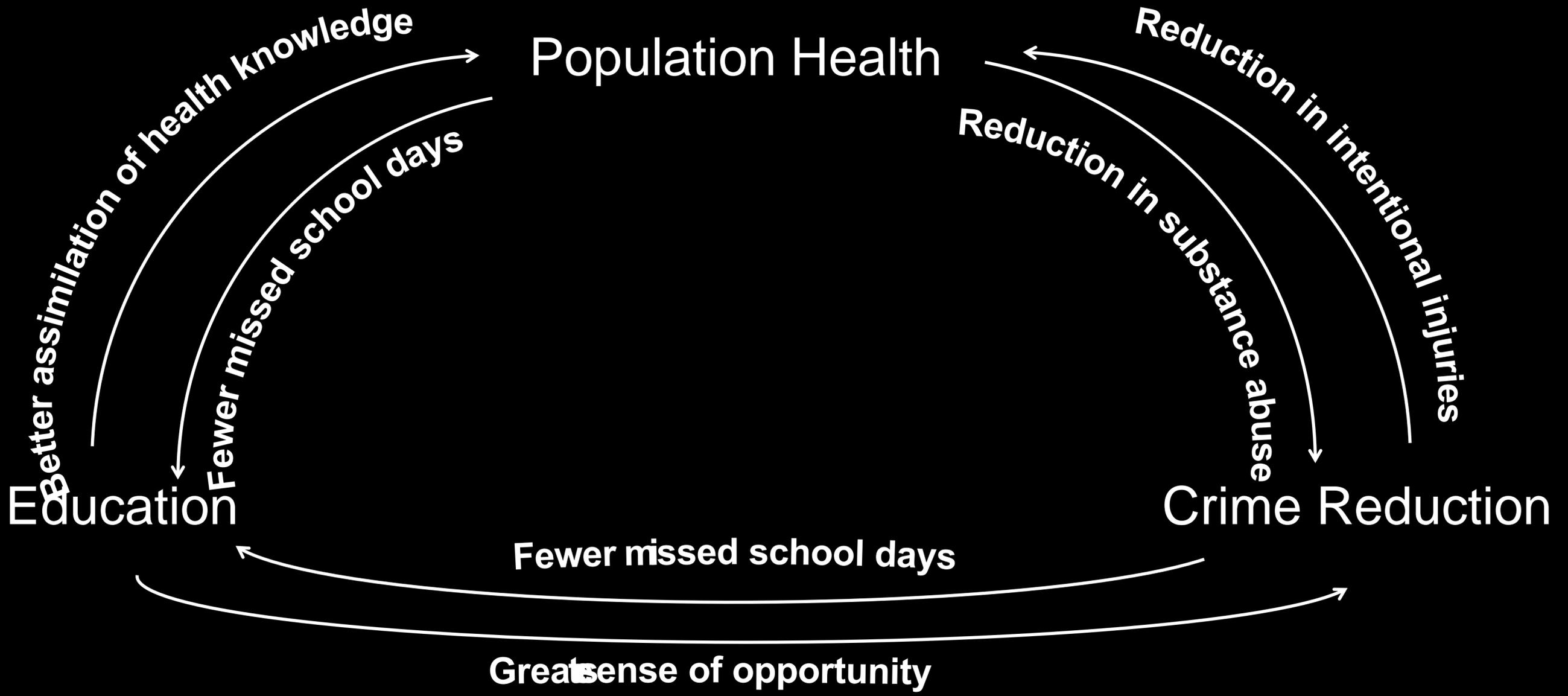
3 Signal Outcomes



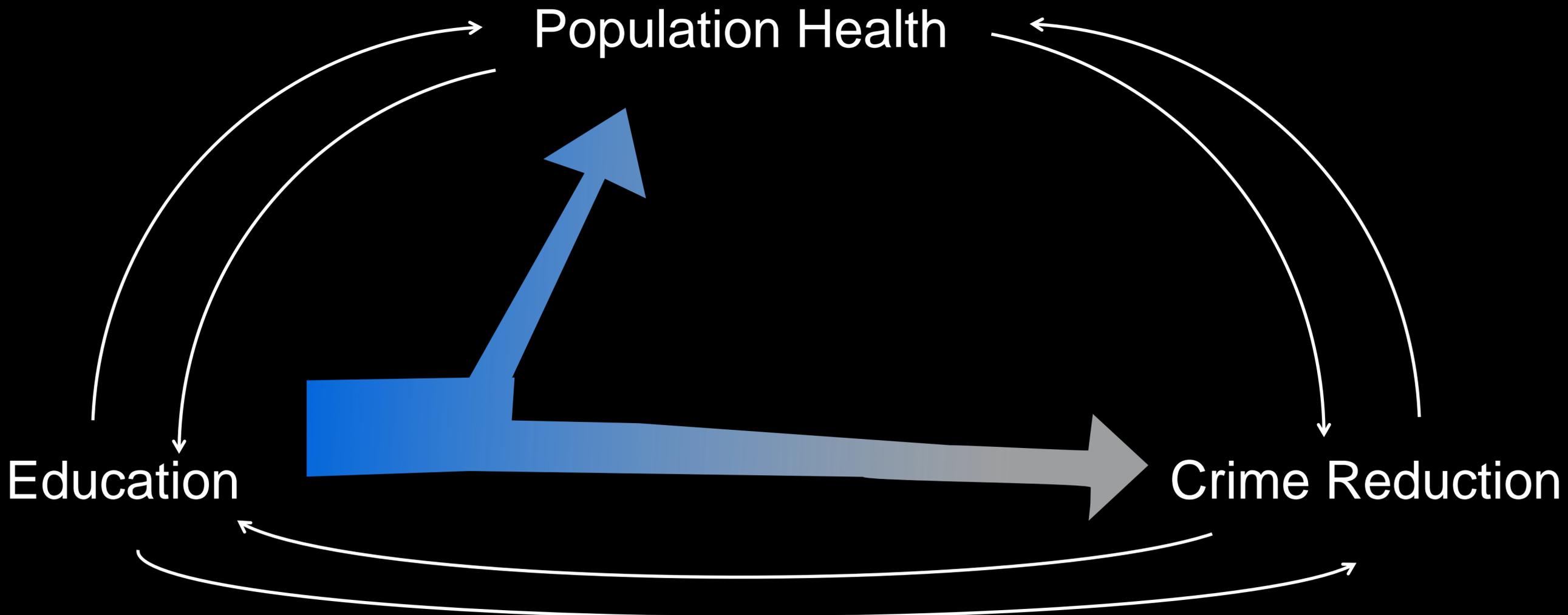
High-School Graduation

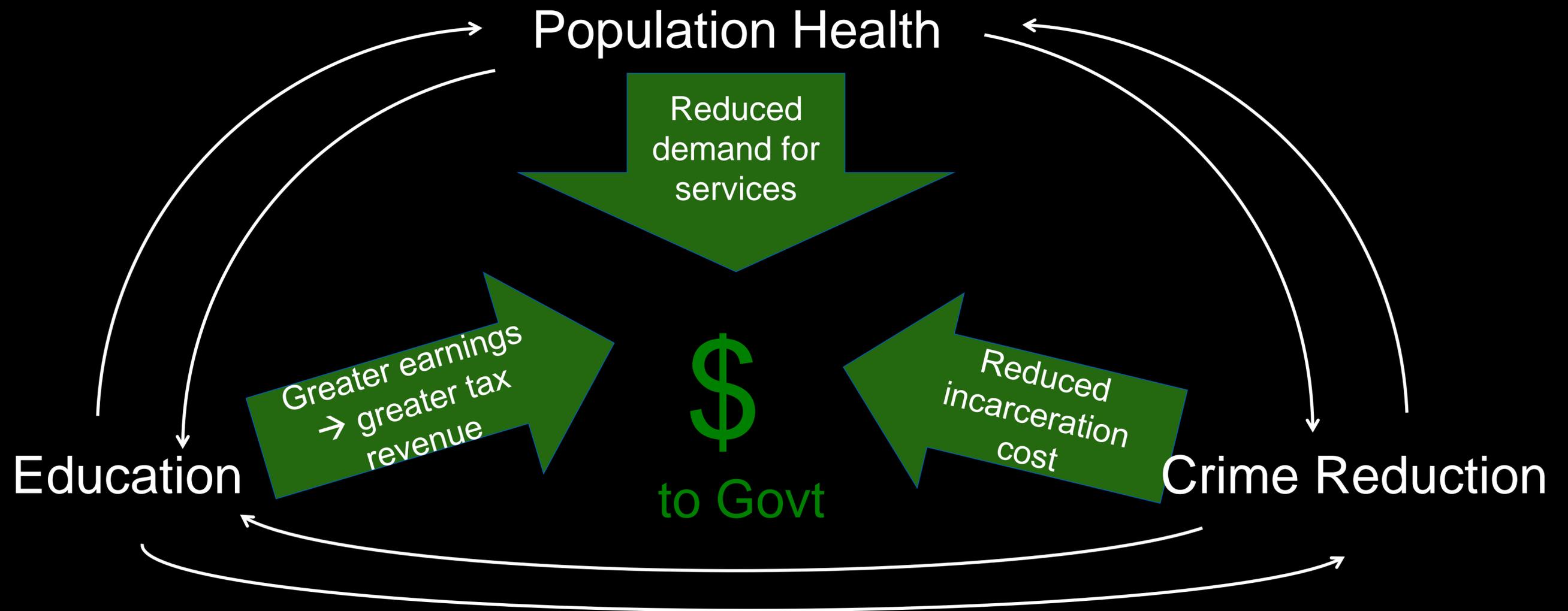
Years of Life Lost

Rates of Violent Crime

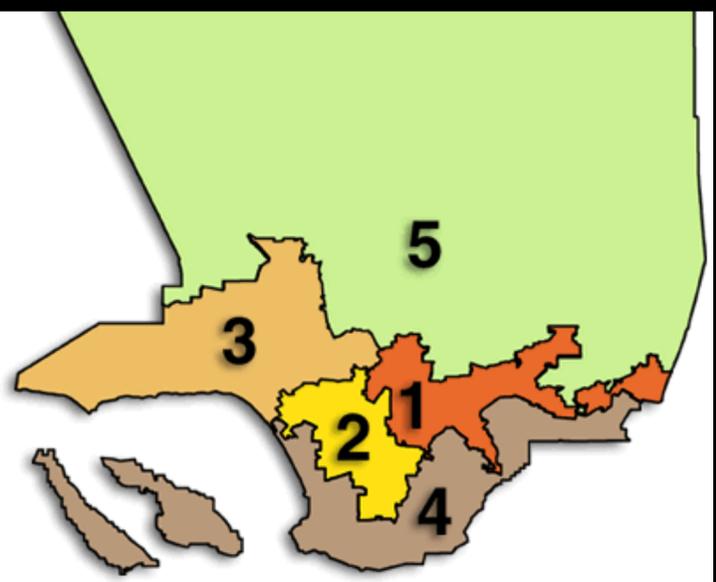


Universal
Pre-K

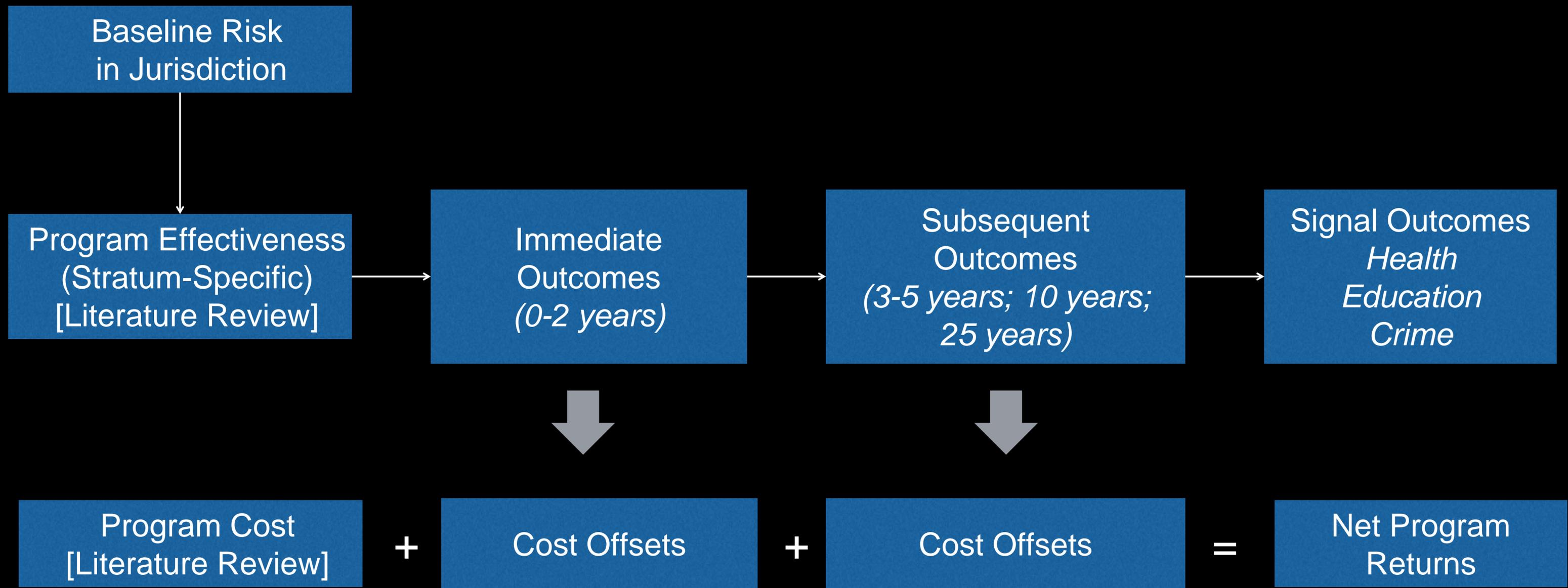




Jurisdictions



Stratum-Specific Effectiveness Model



Sensitivity Testing

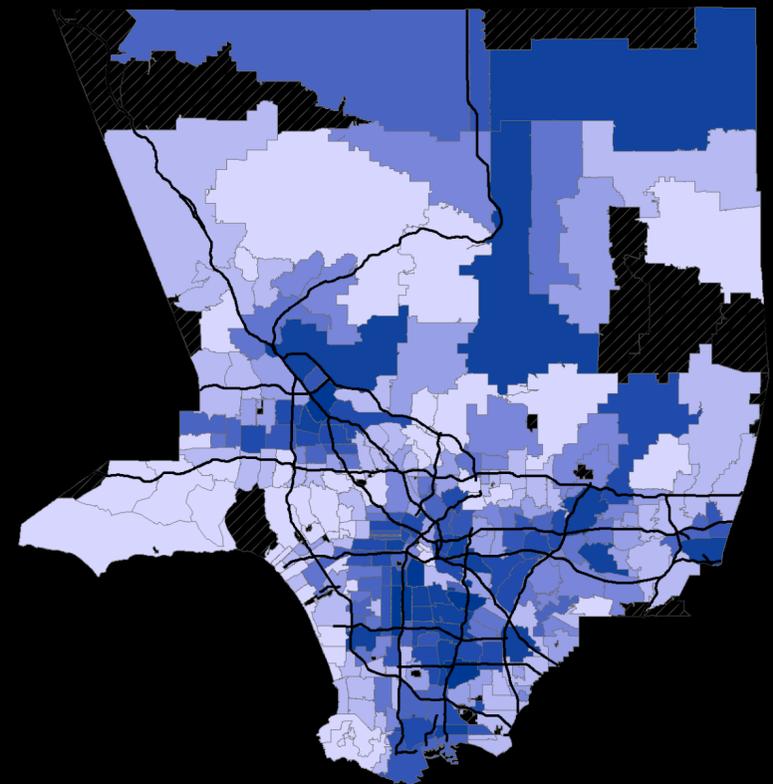
Monte Carlo

Pull each parameter from its empirical distribution

Target 1,000,000 runs

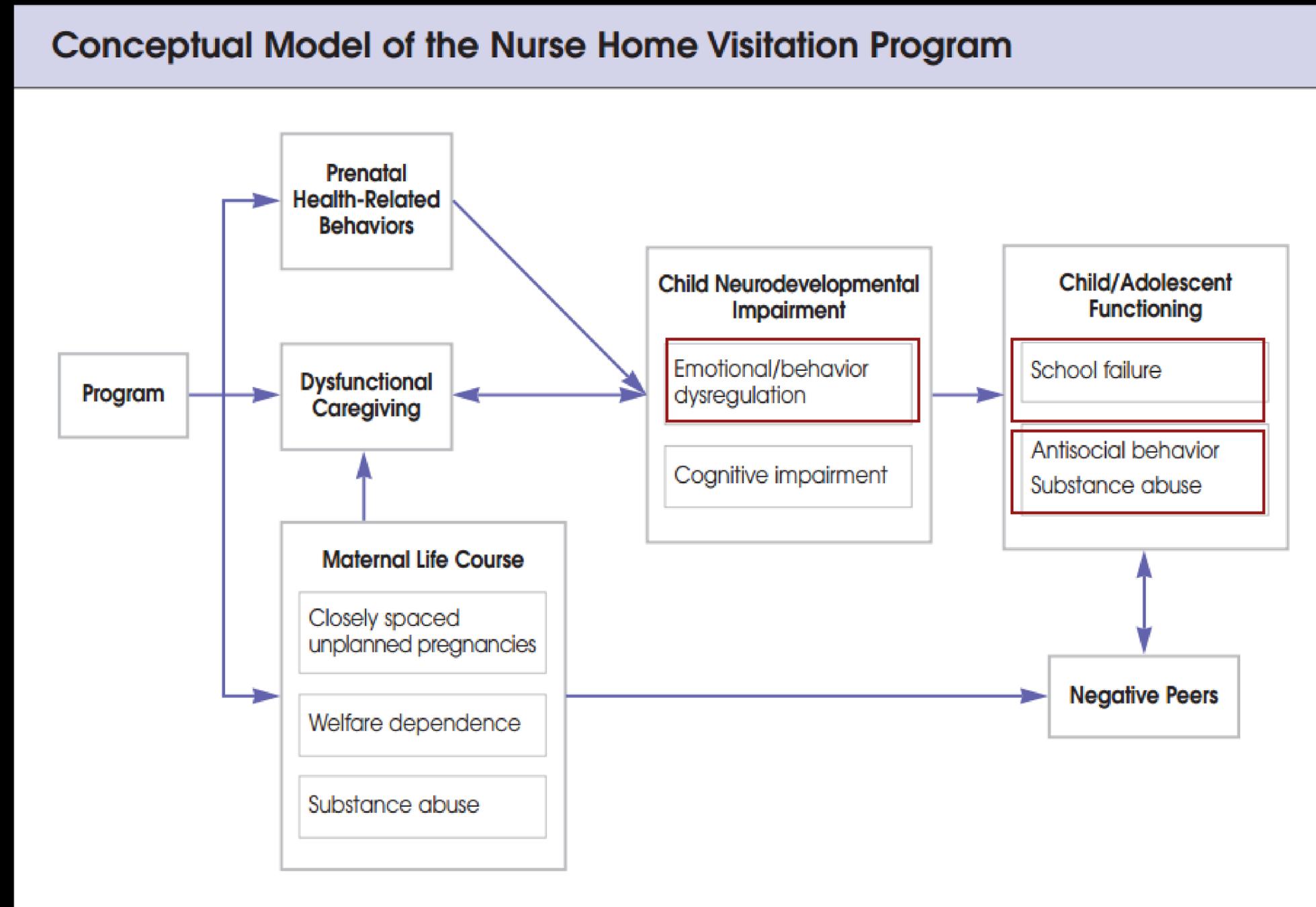
Preliminary Program: Nurse Family Partnerships

- LA County currently pays for 1,100 beneficiaries a year
- 32,000 are eligible
- Nurse home visits in first two years of life
- Costs \approx \$6,000/year for 2 years

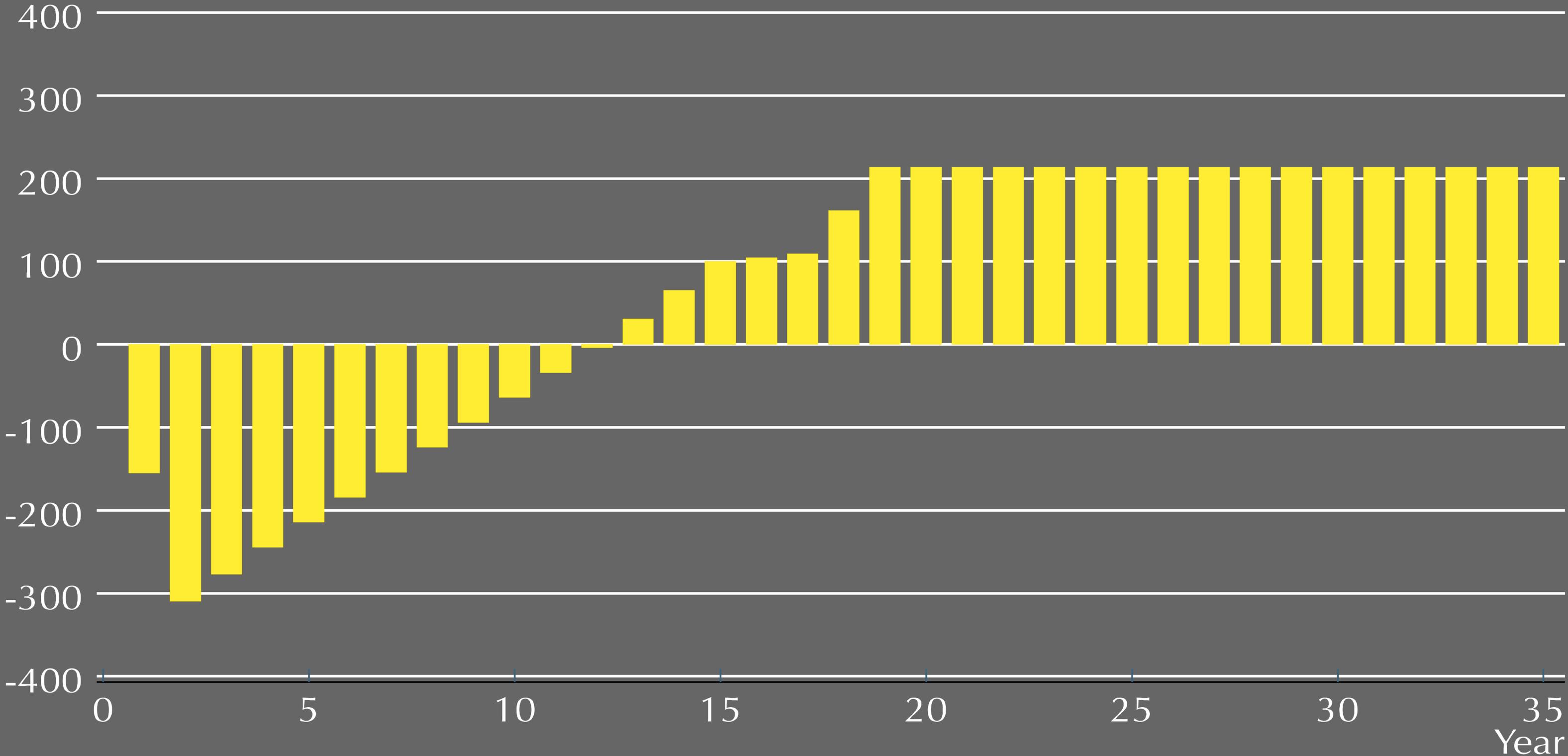


Low-Income Births in LA County

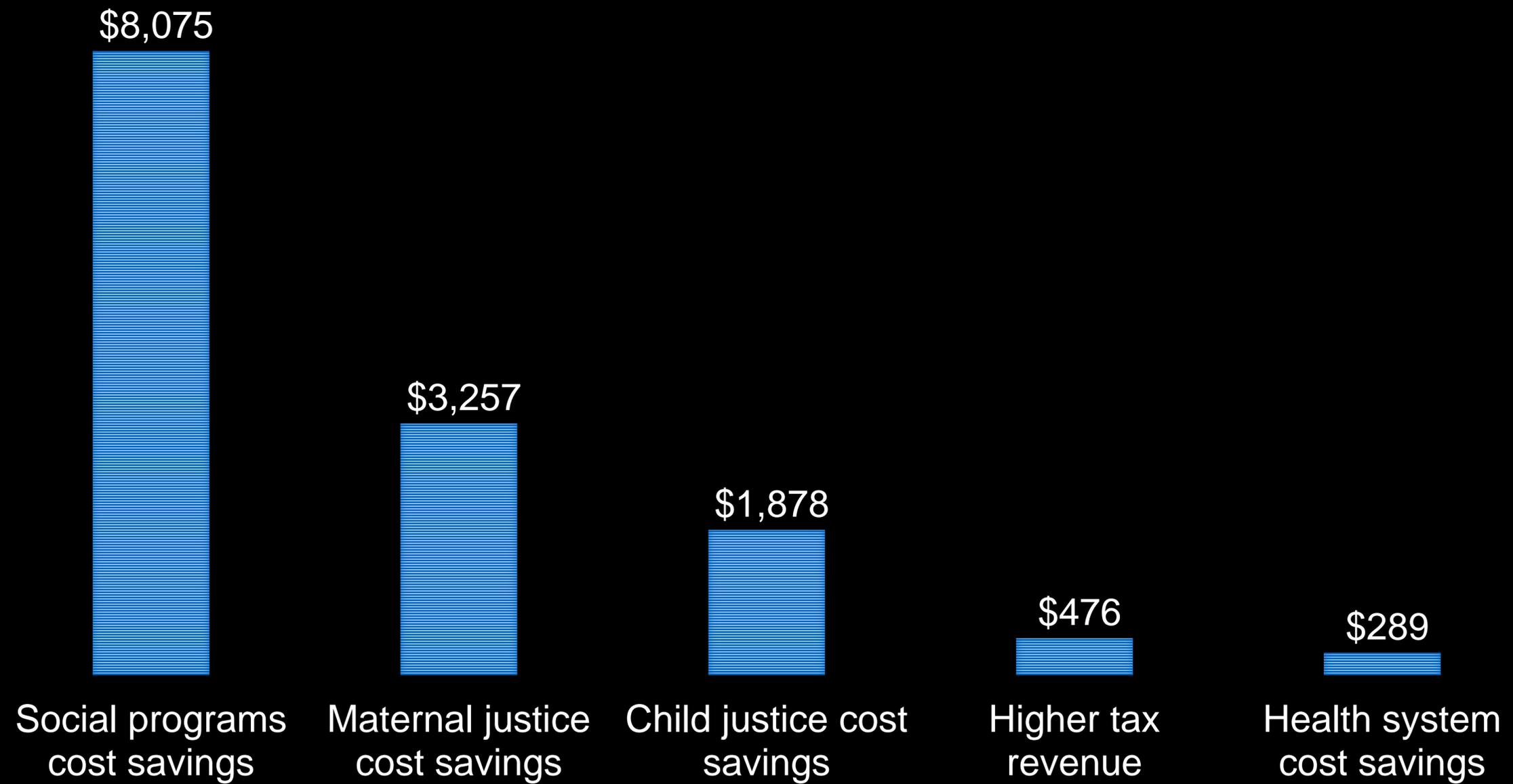
Reductions in Crime, Suicide & Improvements in Education



Annual Net Govt Cash Flow (\$ Millions)



NFP Savings



Dynamic Interactive Goal-Oriented Analysis

- Choose a social or health goal
 - (e.g. improve high-school graduation rate; reduce years of life lost)
- What is the best intervention to get to that goal?
 - (best = least cost, most equitable, etc)

WSIPP Example

All Research Areas

Juvenile Justice

Adult Criminal Justice

Child Welfare

Pre-K to 12 Education

Children's Mental Health

Health Care

Substance Abuse

Adult Mental Health

Public Health & Prevention

Juvenile Justice

PDF

For questions on benefit-cost results relating to Juvenile Justice, contact [Elizabeth Drake](#).

Program name <small>(click on the program name for more detail)</small>	Date of last literature review	Total benefits	Taxpayer benefits	Non-taxpayer benefits	Costs	Benefits minus costs (net present value)	Benefit to cost ratio	Chance benefits will exceed costs
Functional Family Therapy (youth in state institutions) NEW	Dec. 2014	\$37,554	\$8,012	\$29,542	(\$3,358)	\$34,196	\$11.21	100 %
Aggression Replacement Training (youth in state institutions) NEW	Dec. 2014	\$28,955	\$6,126	\$22,829	(\$1,552)	\$27,403	\$18.69	96 %
Functional Family Therapy (youth on probation) NEW	Dec. 2014	\$29,944	\$7,728	\$22,216	(\$3,357)	\$26,587	\$8.94	100 %
Multisystemic Therapy for substance abusing juvenile offenders	Sep. 2013	\$27,227	\$5,235	\$21,991	(\$7,578)	\$19,648	\$3.60	76 %
Multisystemic Therapy	Apr. 2012	\$23,082	\$5,495	\$17,587	(\$7,576)	\$15,507	\$3.05	92 %
Aggression Replacement Training (youth on probation) NEW	Dec. 2014	\$16,076	\$4,121	\$11,955	(\$1,552)	\$14,524	\$10.38	96 %
Family Integrated Transitions (youth in state institutions) NEW	Dec. 2014	\$25,586	\$6,419	\$19,167	(\$11,565)	\$14,021	\$2.22	76 %
Functional Family Parole (with quality assurance)	Jan. 2013	\$14,478	\$3,475	\$11,003	(\$4,478)	\$10,000	\$3.24	79 %
Multidimensional Treatment Foster Care	Jun. 2014	\$17,286	\$4,256	\$13,031	(\$8,111)	\$9,175	\$2.13	67 %
Multidimensional Family Therapy (MDFT) for substance abusers	Jul. 2014	\$14,185	\$4,281	\$9,904	(\$7,805)	\$6,380	\$1.82	67 %
Coordination of Services	Apr. 2012	\$6,446	\$1,693	\$4,753	(\$406)	\$6,040	\$15.90	76 %
Therapeutic communities for chemically dependent juvenile offenders	Dec. 2012	\$10,364	\$2,628	\$7,735	(\$4,576)	\$5,788	\$2.27	76 %
Drug court	Jul. 2014	\$7,318	\$2,092	\$5,226	(\$3,159)	\$4,159	\$2.32	65 %

WSIPP NFP



Nurse Family Partnership for low-income families

Benefit-cost estimates updated December 2014. Literature review updated April 2012.



The Nurse Family Partnership program provides intensive visitation by nurses during a woman's pregnancy and the first two years after birth; the program was developed by Dr. David Olds. The goal is to promote the child's development and provide support and instructive parenting skills to the parents. The program is designed to serve low-income, at-risk pregnant women bearing their first child.

BENEFIT-COST

META-ANALYSIS

CITATIONS

Benefit-Cost Summary

Program benefits		Summary statistics	
Participants	\$11,607	Benefit to cost ratio	\$2.77
Taxpayers	\$9,955	Benefits minus costs	\$17,332
Other (1)	\$9,540	Probability of a positive net present value	71 %
Other (2)	(\$3,928)		
Total	\$27,174		
Costs	(\$9,842)		
Benefits minus cost	\$17,332		

WSIPP NFP Detailed Analysis

Detailed Monetary Benefit Estimates					
Source of benefits	Benefits to				Total benefits
	Participants	Taxpayers	Other (1)	Other (2)	
From primary participant					
Crime	\$0	\$1,323	\$3,932	\$659	\$5,914
Labor market earnings (test scores)	\$1,971	\$841	\$979	\$0	\$3,791
Child abuse and neglect	\$1,130	\$355	\$0	\$178	\$1,663
K-12 grade repetition	\$0	(\$94)	\$0	(\$47)	(\$141)
K-12 special education	\$0	(\$1,007)	\$0	(\$506)	(\$1,513)
Property loss (alcohol abuse/dependence)	\$0	\$0	\$0	\$0	\$1
Health care (disruptive behavior disorder)	\$12	\$38	\$47	\$19	\$116
Subtotals	\$3,114	\$1,456	\$4,959	\$302	\$9,831
From secondary participant					
Crime	\$0	\$201	\$729	\$97	\$1,027
Labor market earnings (hs grad)	\$9,593	\$4,092	\$4,750	\$0	\$18,436
Public assistance	(\$945)	\$2,996	\$0	\$0	\$2,051
Health care (educational attainment)	(\$155)	\$1,211	(\$898)	\$606	\$764
Subtotals	\$8,493	\$8,499	\$4,581	\$703	\$22,277
Adjustment for deadweight cost of program	\$0	\$0	\$0	(\$4,934)	(\$4,934)
Totals	\$11,607	\$9,955	\$9,540	(\$3,928)	\$27,174

Make it Yours

MLB APR 7

Postponed
STL CHC

4:10 PM PT
BAL TB

4:10 PM PT
ATL MIA

5:10 PM PT
COL MIL

6:40 PM PT
SF ARI

7:05 PM PT
TEX OAK

7:10 PM PT
SD LAD

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MLB Standings - 2015

Resources

Standings Expanded Standings Vs. Division Standings

Division League Overall 2015 Regular Season

American League

EAST	W	L	PCT	GB ^	HOME	ROAD	RS	RA	DIFF	STRK	L10
Boston Red Sox	1	0	1.000	-	0-0	1-0	8	0	+8	W1	1-0
Baltimore Orioles	1	0	1.000	-	0-0	1-0	6	2	+4	W1	1-0
Toronto Blue Jays	1	0	1.000	-	0-0	1-0	6	1	+5	W1	1-0

Plan YOUR Season

MLB ▾ APR 7 ▾

Postponed
STL CHC

4:10 PM PT
BAL TB 1-0 0-1

4:10 PM PT
ATL MIA 1-0 0-1

5:10 PM PT
COL MIL 1-0 0-1

6:40 PM PT
SF ARI 1-0 0-1

7:05 PM PT
TEX OAK 0-1 1-0

7:10 PM PT
SD LAD

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2015 ▾ Spring Training ▾

Cactus League

- A's Oakland Athletics
- KC Kansas City Royals
- LA Los Angeles Dodgers
- SD San Diego Padres
- A Arizona Diamondbacks

AL East

- Orioles
- Red Sox
- Yankees
- TB Rays
- Blue Jays

AL Central

- White Sox
- Indians
- Tigers
- KC Royals
- Twins

AL West

- Astros
- Angels
- A's Athletics
- Mariners
- Rangers

NL East

- Braves
- Marlins
- Mets
- Phillies
- Nationals

NL Central

- Cubs
- Reds
- Brewers
- Pirates
- Cardinals

NL West

- Diamondbacks
- Rockies
- Dodgers
- Padres
- Giants

STRK	L10
L2	8-2
W4	7-2
L3	3-5
W2	7-2
W5	6-4

Thank you
Sophie Snyder
sds.snyder@gmail.com