Challenges in Developing Return on Investment (ROI) Evidence for Special Needs Groups and Contexts

Corrections and Re-Entry Education

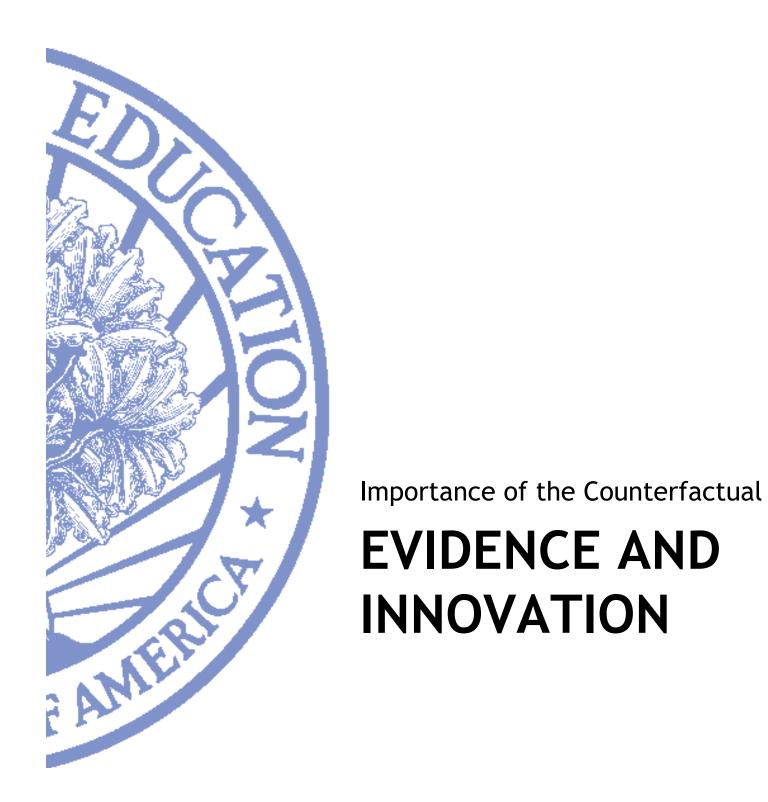
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Johan Uvin, Deputy Assistant Secretary U.S. Department of Education

Overview

- How we think about evidence and innovation
- Context for Corrections and Re-entry Education ROI
- "Proven programs" in Corrections Education
- Cost-effectiveness data on Corrections Education
- Pay for Success opportunities to realize and examine pre-specified savings/returns



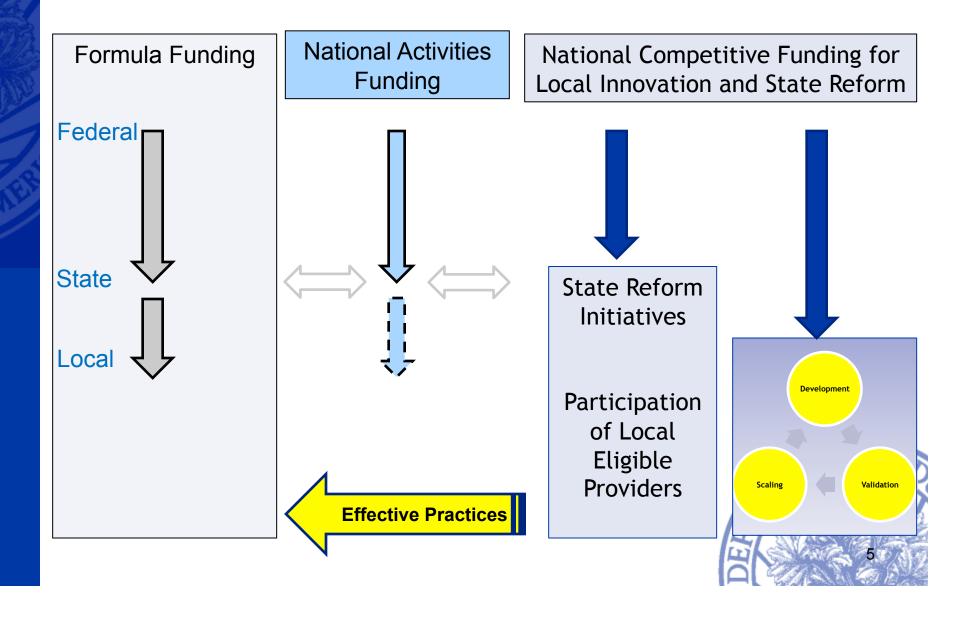


How We Talk About Innovation

Innovation product, process, strategy, or approach Invention that improves significantly upon the Greater Impact status quo and reaches scale Baseline **Trend** Scale

Note: The definition of innovation on this slide is presented as an overview of the concept, not as a specific definition in any of the Department's innovation programs.

Draft Stylized Depiction of Formula & Innovation Funding Relationships



Was it the program/policy? is the first key question.

- Effectiveness first. Then, ROI/Benefit-Cost Analysis
- Importance of counterfactual

What Works Clearinghouse Evidence Standards for Causal Designs

Eligible Designs

- Randomized controlled trials (RCTs) Anecdotes and testimonials
- Quasi-experimental designs (QEDs) Case studies

Potentially Eligible Designs

- Regression discontinuity (RDD)
- Single case (SCD)

Ineligible Designs

- Descriptive
 - Correlational





Corrections and Re-Entry Education

CONTEXT

Federal Interagency Reentry Council



Multiple goals in different arenas can be addressed by effective re-entry policies and programs.

 Reentry presents a major opportunity to improve public safety, public health, workforce, education, family, and community outcomes.



Corrections - A Special ROI Opportunity

- Recidivism is a relatively easily and commonly measured outcome.
- The direct cost of confinement numbers that are readily available.
- The direct cost of confinement expensive!
- Going down a layer, **indirect costs**, these costs rapidly escalate
 - Crime costs victims' loss, police and courts
 - Crime prevention costs
 - Loss of productivity, tax payments, family support
- Indirect costs wide ranging estimates



Evidence on Effectiveness First

"PROVEN PROGRAMS"



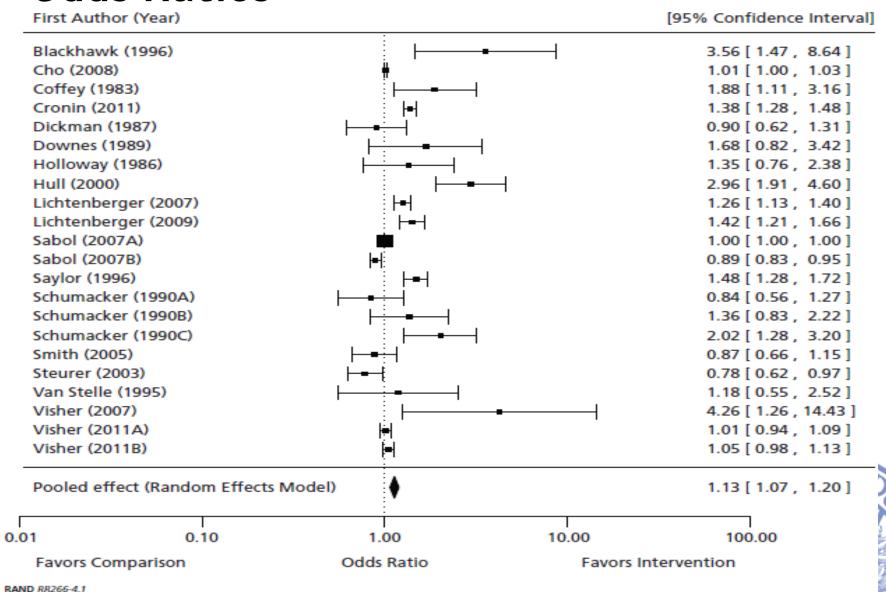
High quality and recent resource on correctional education impact...

- Mandated in the Second Chance Act of 2007 conduct a study of correctional education.
- Awarded competitively to the RAND Corporation
- August, 2013 meta analysis of research on adult correctional education published.
- Strong positive conclusions on recidivism, post release employment benefit and ROI.
- Education compares very favorably to other correctional treatment investments.

How did they do their analysis?

- Meta-analysis; not a meta-review. Uses the outcomes (effects) of studies.
- Needed to consider how recidivism was defined, at what time it was measured, and what metric was used (e.g., %).
- 71 effect size estimates from 50 studies were pooled.
- Random-effects models were used because there is substantial heterogeneity in effect size estimates across the different subpopulations.

Results from 22 most rigorous studies - Odds Ratios



What type of corrections education?

Estimates of the Effect of Correctional Education Participation on the Odds of Recidivating, by Program Type - Program Type Odds Ratio

Adult basic education	0.67*	0.57 to 0.79
Addit Dasic Education	0.07	0.57 to 0.

High school/GED (ASE) 0.70^* 0.64 to 0.77

Postsecondary education 0.49* 0.39 to 0.60

Vocational education 0.64* 0.58 to 0.72



^{*}p < 0.05.

Effect of CE Is Large Versus Most Programs

Program (Number of program effects examined)	Recidivism Reduction
Intensive supervision: treatment-oriented approaches (11)	16.7%
RAND correctional education study (67)	12.0-13.0%
Drug treatment in the community (6)	9.3%
Vocational education in prison (4)	9.0%
Adult drug courts (57)	8.0%
General education in prison (11)	7.0%
Drug treatment in prison (therapeutic community or outpatient) (20)	5.7%
Drug treatment in jail (9)	4.5%
Employment/job training in the community (16)	4.3%
Intensive supervision: surveillance-oriented programs (23)	0%
Life skills education for adults (4)	0%
Adult boot camp (22)	0%
Electronic monitoring to offset jail time (9)	0%
A TAKE OF	

Source: Aos, Miller, and Drake (2006). Evidence-based public policy options to reduce future prison construction, criminal justice costs, and crime rates. Olympia: Washington State Institute for Public Policy

In sum: Correctional Education Improves Inmates' Outcomes after Release

- Improves inmates' chances of not returning to prison.
- Participants in correctional education programs had a 43 percent lower odds of recidivating than those who did not. This translates to a reduction in the risk of recidivating of 13 percentage points.
- May improve their chances of obtaining employment after release. The odds of obtaining employment postrelease among participants was 13 percent higher than the odds for those who did not participate in correctional education.
- Inmates exposed to computer-assisted instruction learned slightly more in reading and substantially more in math in the same amount of instructional time.

Correctional education is effective for a broad spectrum of prisoners.

- Consistent positive effect sizes with wide variety of education services, advanced and basic, academic and occupational.
- A broad spectrum of prisoners benefit unlike other "correctional treatment" services.

"When you put this in perspective, and couple these effect sizes with a significant number of offenders who are released each year who could benefit from correctional education, this elevates correctional education to one of the most productive and important reentry services."

*Gerald G. Gaes; "The Impact of Prison Education Programs on Post-Release Outcomes"



Emerging Evidence

COST-EFFECTIVENESS

Is Correctional Education Cost-Effective?

Although correctional education is effective, is it cost-effective?

- Hypothetical pool of 100 inmates
- Direct costs of correctional education programs and of incarceration itself
- Three-year re-incarceration rate

These are conservative estimates, as they only include direct costs.

- Estimate of direct costs of providing education to inmates range from \$140,000 to \$174,400 for the 100 inmates or \$1,400 to \$1,744 per inmate.
- Three-year reincarceration costs for those who did not receive correctional education are between \$2.94 million and \$3.25 million, versus \$2.07 million and \$2.28 million for those who did. Re-incarceration costs are thus \$870,000 to \$970,000 less for those who receive correctional education.



New Ways of Thinking about ROI

PAY FOR SUCCESS

Evaluation goal, Rikers SIB

- To determine the reduction in recidivism bed days (RBD) for youth in DOC custody as a result of the implementation of ABLE program
- RBD is the number of days youth spent in jail after the initial release
- RBD will be measured twice
 - After 12 months in community
 - After 24 months in community

Study background

- Experimental approach was attempted, but deemed unfeasible
 - Frequent movement of youth between program and control groups
 - High contamination between groups
 - Dilution of ABLE effect that would lead to inaccurate impact estimate
- A historical comparison group is the most rigorous approach that can be successfully implemented in this setting

Study cohort

- 16-18 year old youth admitted to Rikers Island between Jan. 1, 2013 and Dec. 31, 2013
- Reside at Rikers for more than 6 days
- Include both detainees and sentenced youth
- Include both females and males
- All youth meeting criteria, regardless of actual exposure to ABLE

NYC SIB: Key parties in the "deal"

- Investor: Goldman Sachs
- Fund Manager: MDRC (NYC based non-profit)
- Service Providers: Osborne Association and Friends of Island Academy
- Government Partner: Department of Correction
- Program Evaluator: Vera



^{*}Courtesy of Jim Parsons; Substance Use and Mental Health Program; Vera Institute of Justice

Evaluating SIBs

- A valuable opportunity to test and evaluate innovative programs
- Measuring process (as well as outcomes)
- Taking initiatives to scale
- May require complex evaluation designs
- Requires an investment of resources that may not be part of the ROI calculation
- Deciding what can be monetized and measured
- Timelines for robust evaluation may be at odds with the needs of government and investors

^{*}Courtesy of Jim Parsons; Substance Use and Mental Health Program; Vera Institute of Justice



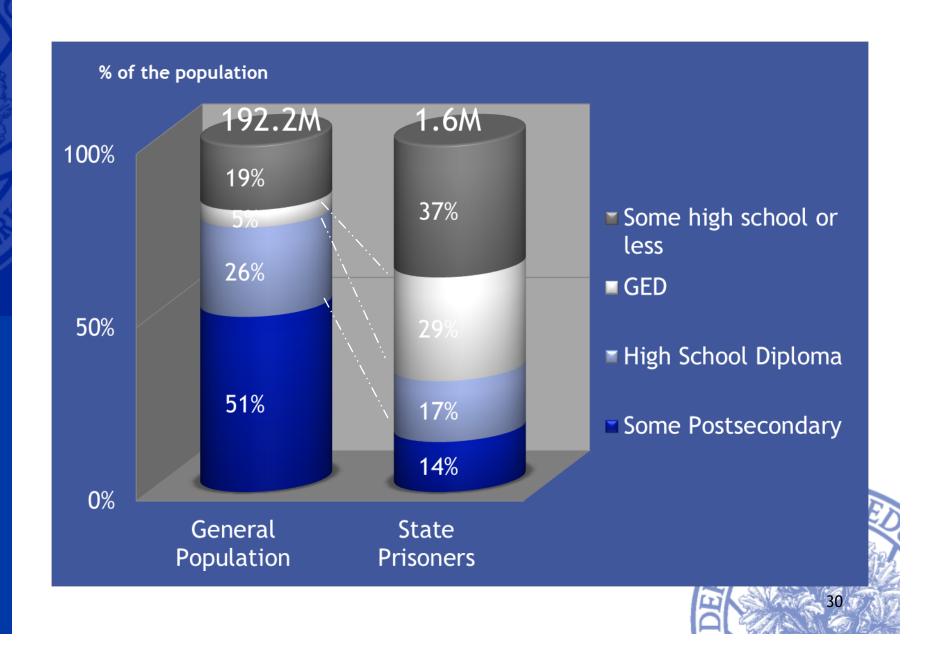
Why It Matters

NEED IS GREAT; CONSEQUENCES ARE SEVERE

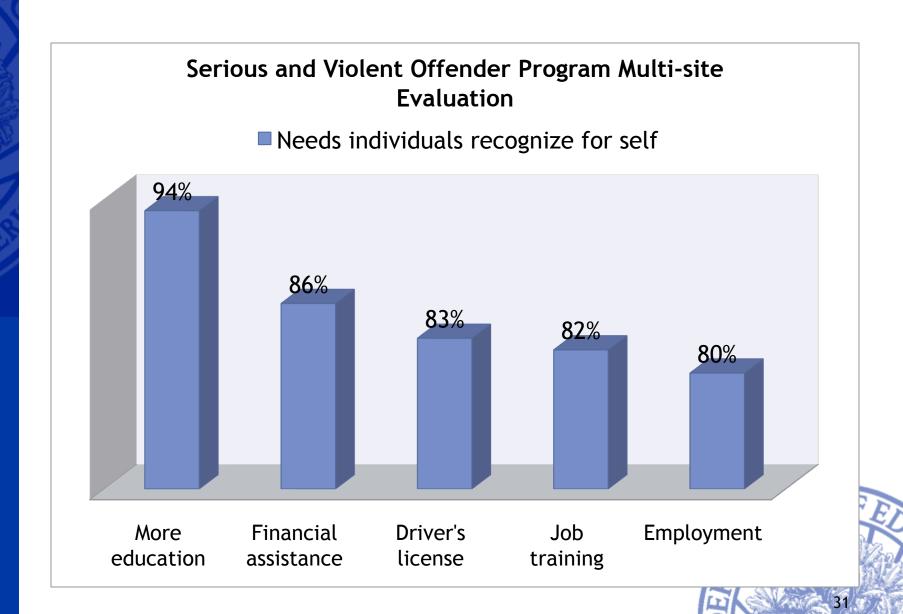
Only about 63% of State prisoners have a high school credential.

- Two out of three high school credentials are GED's, not diplomas.
- Even among those with a credential, most have skill deficits.
- Lack of credentials, low academic skills, lack of specific job skills - all work in combination with criminal history, "resume gaps," and lack of a functional support network and other issues to inhibit labor market entry.

Educational Profile of State Prisoners



Prisoners recognize their educational needs





So What?

IMPLICATIONS AND RECOMMENDATIONS

Closing thoughts

- OVAE developed a re-entry model taking into account available evidence to date.
- Through a partnership with Justice, OVAE is testing the model through demonstration projects.
- In the context of re-entry policies and programs, the evidence available indicates Correction Education is a program area where investments in both delivery and net impact studies and ROI analyses make sense because the savings/returns dwarf costs of incarceration.
- Further exploration of various program types and "providers" can yield more precise information.
- Corrections Education is worth considering for a PFS effort.
 Justice and Education are exploring this.