Proposed Social Spending Innovation Research (SSIR) Initiative:
Harnessing American Entrepreneurial Talent to Solve Major U.S. Social Problems

The SSIR proposal seeks to replicate, in social spending, the great success of the Small Business Innovation Research (SBIR) program in technology development.

- The SBIR program funds technology development by entrepreneurial small companies. Under SBIR, created by Congress in 1982, 11 federal agencies allocate a small percentage of their annual research and development (R&D) budgets, for funding awards to small companies to develop and test innovative new technologies. The goal is to reach beyond the usual federal R&D grantees (e.g., universities, large defense contractors) to fund a new set of entrepreneurs. The program has spawned breakthrough technologies in diverse areas such as computer chip production, commercial satellite communications, and medical imaging; and has received consistently favorable reviews in assessments by the National Academy of Sciences and Government Accountability Office. Congress reauthorized and expanded SBIR with overwhelming bipartisan support in 1992, 2000, and 2011. It is now funded at over $2 billion per year.

- The proposed initiative, SSIR, would apply the successful SBIR approach in a different (non-technology) field—social spending—as discussed below. A version of SSIR focused on K-12 education, which was sponsored by Senators Orrin Hatch (R-UT), and Michael Bennet (D-CO), was enacted into law as part of the Every Student Succeeds Act of 2015. The attached appendix contains suggested legislative text to establish an SSIR program, adapted from the Hatch-Bennet legislation.

U.S. social spending critically needs an SBIR-like infusion of entrepreneurial new ideas and rigorous testing, because:

- Many activities/strategies (“interventions”) funded by government social programs are found to produce weak or no positive effects when rigorously evaluated. When evaluated in rigorous randomized controlled trials, social interventions in K-12 education, employment and training, crime prevention, and other areas are too often found ineffective or marginally effective. Interventions that produce sizable effects on important life outcomes do exist, as discussed below, but tend to be the exception. This pattern occurs not just in social spending, but in other fields where rigorous evaluations are conducted, such as medicine and business.

- Meanwhile, the United States has failed to make significant progress in key areas such as:

  - Poverty: The U.S. poverty rate now stands at 13.5%, and has shown little overall change (whether by official or alternative National Academy measures) since the late 1970s.

  - K-12 education: Reading and math achievement of 17-year-olds—the end product of our K-12 education system—is virtually unchanged over the past 40 years, according to official measures, despite a 90% increase in public spending per student (adjusted for inflation).

  - Well-being of low to moderate income Americans: The average yearly income of the bottom 40% of U.S. households, now at $22,500, has changed little since the 1970s.

- Yet, entrepreneurs in the research, nonprofit, and for-profit sectors have developed a few interventions found highly effective in rigorous testing, illustrating what is possible. Examples, evaluated in well-conducted randomized controlled trials, include:
- **Nurse-Family Partnership** – a nurse visitation program for low-income, first-time mothers during pregnancy and children’s infancy (reduced child abuse/neglect and injuries by 20-50% over 2-15 years, compared to the control group).

- **Per Scholas Job Training** – a program for low-income, low-skilled workers that provides training in information technology (2-3 years after program entry, increased workers’ earnings by about 30%, or $4,000-$5,000 per year, compared to the control group).

- **New York City’s Small Schools of Choice** – small public high schools created citywide in mostly high-poverty communities to replace large, low-performing high schools (4 years later, produced a 6-10 percentage point increase in the four-year high school graduation rate, versus the control group).

- Such examples are rare because federal social spending has no systematic mechanism—analagous to SBIR—to fund and test innovative field-initiated ideas. Federal agency evaluation funds generally focus on programs selected for testing by Congress or the agency, rather than initiated by entrepreneurs in the field. Agency research funding—such as that of the Institute of Education Sciences and National Institutes of Health—supports field-initiated ideas but is primarily focused on academic researchers and rarely funds entrepreneurial practitioners in nonprofit, for-profit, and state/local government organizations.

SSIR would use a streamlined, three-phase process—modeled on SBIR—to fund the development and rigorous testing of innovative social interventions. Specifically:

- **SSIR programs would be established at federal agencies using existing federal funds.** For example, Congress could direct federal agencies to restructure their existing discretionary social programs to incorporate the SSIR grantmaking process outlined below. Alternatively, as in SBIR, Congress could direct each agency to allocate a small percentage of its discretionary social spending (e.g., 0.5%) to fund a new SSIR program at that agency.

- **Each agency SSIR program would focus on a broad area (e.g., job training, crime prevention, health care delivery), and award grants through a competitive process.** Applicants could include nonprofit, for-profit, research, or state/local government organizations, with a priority for organizations that obtain a partial match of funds from other sources to help ensure the project’s sustainability. Grants would include:
  - Early-phase grants (e.g., $50,000-$300,000) to fund the development and feasibility testing of an intervention which has promising prior research, for the purpose of determining whether the intervention can be successfully implemented in real-world settings (e.g., public schools, unemployment insurance offices, community health clinics);
  - Mid-phase grants (e.g., $0.5-3.0 million) to fund implementation and a rigorous evaluation of an intervention that has been successfully implemented under an early-phase grant (or other effort meeting similar criteria), for the purpose of measuring the intervention’s impact on important outcomes, such as employment and earnings, high school graduation, criminal arrests, or health; and
  - Expansion grants (e.g., $3-7 million) to fund implementation and a rigorous replication evaluation of an intervention found to produce sizable, important impacts under a mid-phase grant (or other effort meeting similar criteria), for the purposes of delivering the intervention on a larger scale and determining whether its sizable impacts can be successfully reproduced and sustained over time.

**Conclusion:** Modeled on the successful SBIR program, the proposed initiative—SSIR—would infuse U.S. social spending with a critically-needed supply of entrepreneurial new ideas, shown in rigorous testing to produce important improvements in people’s lives.
See attached appendix for suggested legislative text to establish an SSIR program. This text has been adapted from language included in the Every Student Succeeds Act of 2015 (Public Law 114-95), establishing the Education Innovation and Research program at the U.S. Department of Education.
APPENDIX – SUGGESTED LEGISLATIVE TEXT

GRANTS FOR INNOVATION AND RESEARCH

(a) PROGRAM AUTHORIZED—

(1) IN GENERAL: From funds reserved under section [insert relevant section], the Secretary shall make grants to [insert eligible group(s)] to enable them to—

(A) create, develop, implement, replicate, or take to scale entrepreneurial, evidence-based, field-initiated innovations to improve [insert goal of funding]; and

(B) rigorously evaluate such innovations, in accordance with subsection (b).

(2) DESCRIPTION OF GRANTS: The grants described in paragraph (1) shall include—

(A) early-phase grants to fund the development, implementation, and feasibility testing of a program, which prior research suggests has promise, for the purpose of determining whether the program can be successfully implemented in [inserted targeted setting(s), such as public schools];

(B) mid-phase grants to fund implementation and a rigorous evaluation of a program that has been successfully implemented under an early-phase grant described in subparagraph (A) or other effort meeting similar criteria, for the purpose of measuring the program’s impact and cost effectiveness, if possible using existing administrative data; and

(C) expansion grants to fund implementation and a rigorous replication evaluation of a program that has been found to produce sizable, important impacts under a mid-phase grant described in subparagraph (B) or other effort meeting similar criteria, for the purposes of—

(i) determining whether such impacts can be successfully reproduced and sustained over time; and

(ii) identifying the conditions in which the program is most effective.

(b) EVALUATION—Each recipient of a grant under this section shall conduct an independent evaluation of the effectiveness of the program carried out under such grant, which for measuring impact shall employ random assignment, whenever feasible, or other research methods that allow for the strongest possible causal inferences when random assignment is not feasible.

(c) TECHNICAL ASSISTANCE—The Secretary may reserve not more than [X] percent of the funds appropriated under section 4601(b)(2)(A) for each fiscal year to provide technical assistance for eligibility entities, including evaluation support.
References


7 U.S. Census Bureau, Current Population Reports, 2016, op. cit., no. 4. This refers to inflation-adjusted income. It includes income from the economy (such as earnings) but not government transfers (such as Food Stamps). However, the evidence suggests that the overall story of income stagnation for the bottom 40% of households changes little even when one adjusts income for government transfers and other items that affect household living standards. Specifically, the Census Bureau’s alternative, National Academy of Sciences-based poverty measures make adjustments for government transfers, as well as factors such as state and local taxes, work expenses such as child care, out-of-pocket medical expenses, and geographic
differences in housing costs. These adjustments change the poverty rate in any given year, as well as the composition of those in poverty, but do not change the overall trend in the poverty rate over time – i.e., little overall progress since the late 1970s. (The relevant citations are in endnote 5.) Although the National Academy-based poverty measures only apply to a subset of the bottom 40% of U.S. households, their corroboration of no meaningful improvement for that key subset suggest that similar findings would be obtained for the larger group.