



Fiscal Year 2022 – Economic Impact Assessment

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Community Advisory Board Meeting

28 March 2024

Introduction

Overview

- Background
- Methodology
- Key Findings
- Illinois Based Impact
- Accessing Data
- Questions

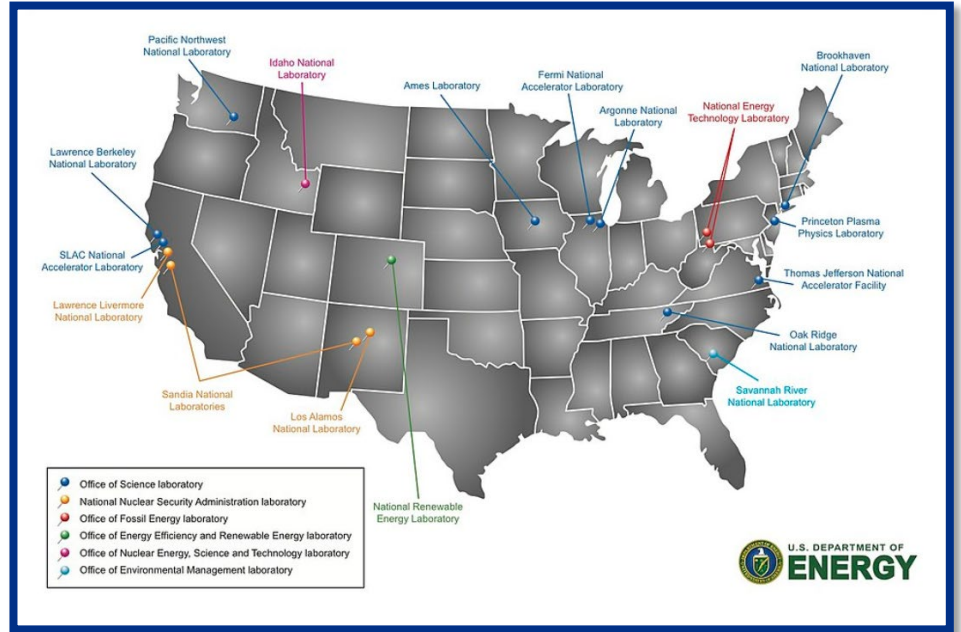
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Office of Strategy Management



Economic Impact Assessment Background

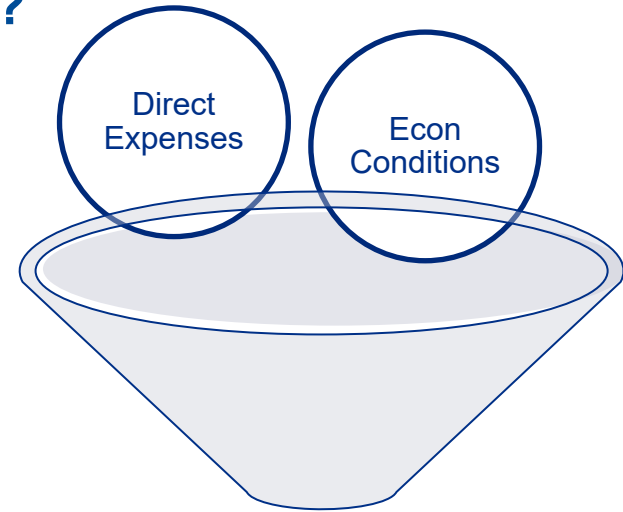
- National laboratories are recognized as significant contributors to local economies
- Many labs create annual economic analyses
- Updates our previous economic impact with improved methodology and recent budget and expenditures



[U.S. National_labs_map_0.jpg \(1024x791\) \(energy.gov\)](#)

What is an Economic Impact Assessment?

- The study of the impact on the economy of any type of project, event, program, or policy.
- A point-in-time measurement.
- Relies on mathematical tools to quantify changes in the economy.

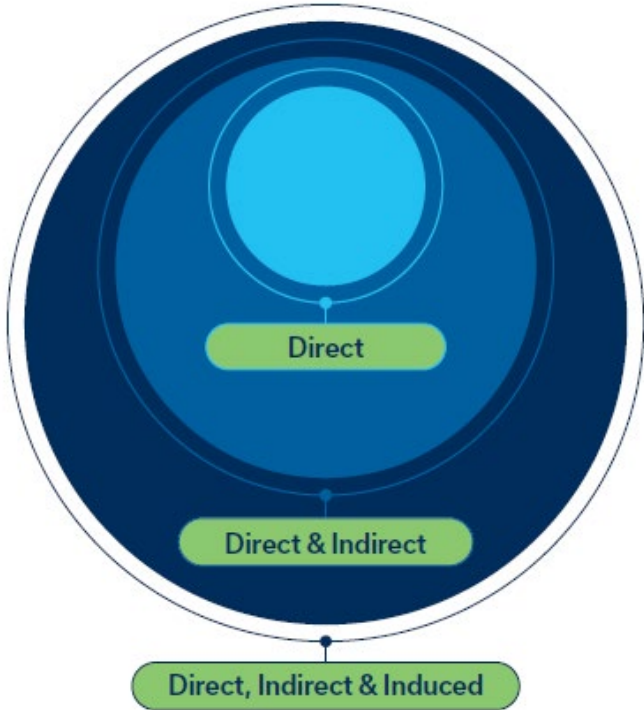


Output



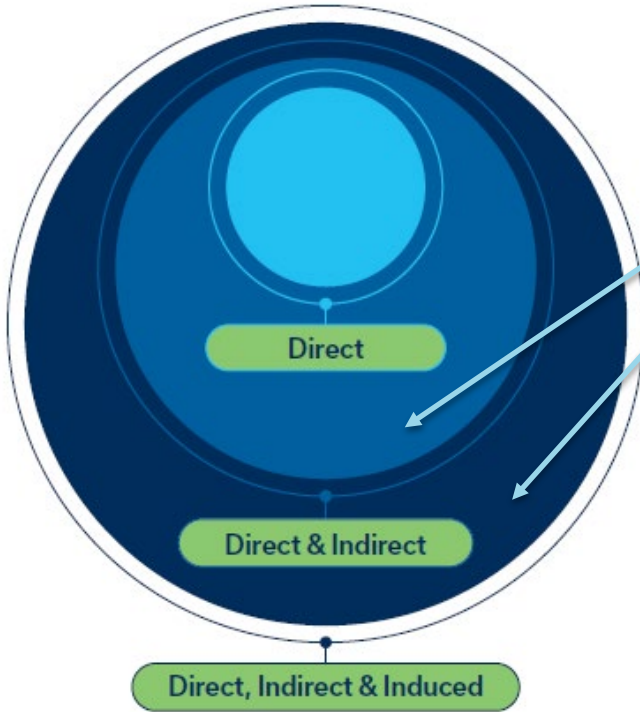
- Total Economic Output
- Indirect & Induced Effects
- Value Add (GDP)
- Labor Income
- Jobs Created/Sustained

Economic Impact Assessment Methodology



DIRECT
The direct labor, procurement and operating expenses that were incurred <i>(the economic impact of FY22 operations)</i>
INDIRECT
Impacts that are generated as the result of business-to-business transaction <i>(the impact of transactions with subcontractors and suppliers within the region)</i>
INDUCED
Impacts that are generated as a result of business-to-consumer spending <i>(the impact of paychecks spent by employees within the economy)</i>

Methodology Important Components



Household income and value-added are significant metrics that appear in both indirect and induced output

Household Income = all forms of employment compensation

Value-added = a measure of GDP. Everything (except raw materials) in producing a good or service

Key Findings

Fermilab National Accelerator Laboratory's

Fiscal Year 2022

ECONOMIC IMPACT



\$1.6 billion

total economic output

\$1.3 billion

Illinois

\$275 million

South Dakota



7,242

jobs created/sustained

Fermilab worked with

900+ small businesses



\$70 million+

spent with small businesses
across America

Future economic impact projections
for DOE flagship projects:

LBNF/DUNE (estimated through FY30)

\$4.3 billion

economic output

2,750

jobs sustained/year

PIP-II (estimated through FY28)

\$1.26 billion

economic output

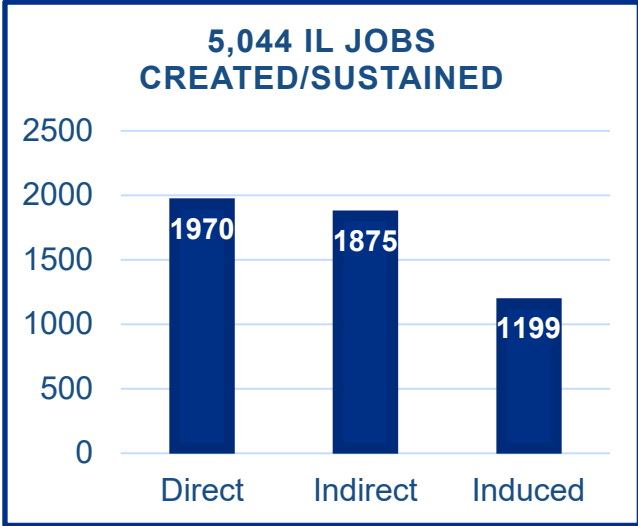
466

jobs sustained/year



Key Findings - Illinois Economic Modeling

Nearly \$1.3 billion in economic output



Illinois Construction

Created \$96M in total economic output

- Direct input of \$49M
- Indirect output of \$19M
- Induced output of \$28M
- Value added \$55M
- Contributed to IL household income \$42M

Illinois Operations

Created nearly \$1.2B in total economic output

- Direct input of \$575M
- Indirect output of \$255M
- Induced output of \$357M
- Value added \$788M
- Contributions to household income \$529M

Local Economy

5,089 Batavia visitors generated \$17M in economic output

- Direct input of \$9.4M
- Indirect output of \$3.6M
- Induced output of \$4M
- Value added \$10.6M
- Contributions to household income \$5.8M

Key Findings - Illinois Transaction Information

*For every 100
Fermilab jobs
created an additional
156 jobs are created
or sustained through
Illinois*

Illinois Local Impact

\$93.4 million in procurement awards

\$41 million to small businesses

496 of 2,400 students and postdocs from IL

400 of the 900 small businesses were in Illinois

Key Findings - Other Illinois Economic Highlights

Economic impact expands beyond the mathematical models



Over 500 IL teachers
gained professional
development



35,000 K-12 students
attended field trips



An average of 170 visitors
to Batavia/week

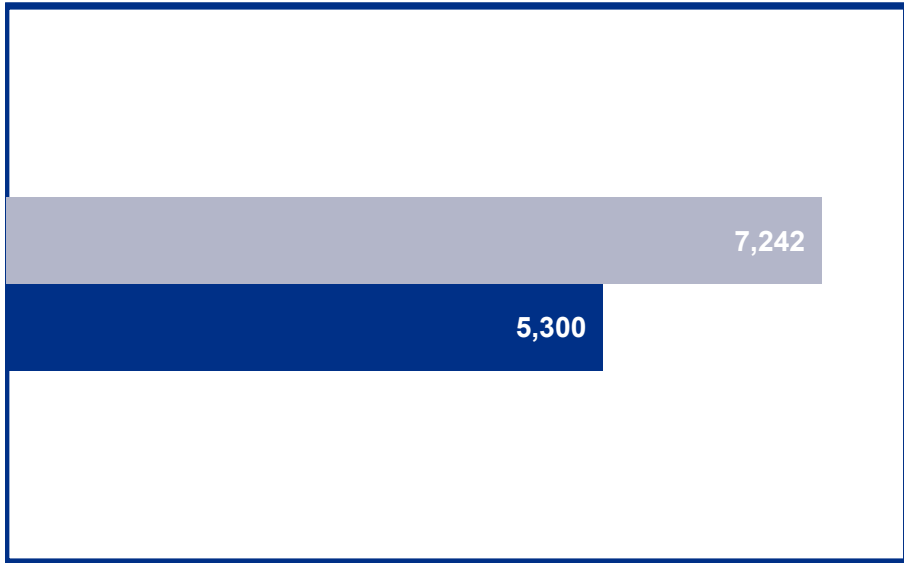


Economic impact from
Fermilab visitors sustained
nearly 120 jobs

Measuring Progress (FY18 – FY22)

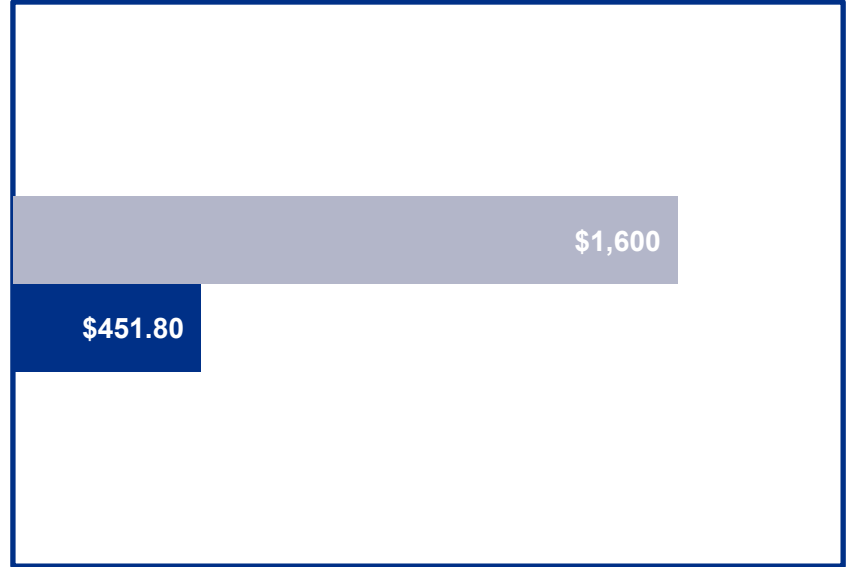
TOTAL JOBS CREATED/SUSTAINED

■ FY22 ■ FY18



TOTAL ECONOMIC OUTPUT (MILLIONS)

■ FY22 ■ FY18



About Fermilab

About

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Fermilab is America's particle physics and accelerator laboratory.

What are we made of? How did the universe begin? What secrets do the smallest, most elemental particles of matter hold, and how can they help us understand the intricacies of space and time?

Since 1967, Fermilab has worked to answer these and other fundamental questions and enhance our understanding of everything we see around us. As the United States' premier particle physics laboratory, we do science that matters. We work on the world's most advanced particle accelerators and dig down to the smallest building blocks of matter. We also probe the farthest reaches of the universe, seeking out the nature of dark matter and dark energy.

Fermilab's **2,160 employees** include scientists and engineers from all around the world. Fermilab collaborates with more than 50 countries on physics experiments based in the United States and elsewhere.

Fermilab's 6,800-acre site is located in Batavia, Illinois, and is managed by the [Fermi Research Alliance LLC](#) for the [U.S. Department of Energy Office of Science](#). FRA is a partnership of the University of Chicago and Universities Research Association Inc., a consortium of 89 research universities.

For more about who we are and what we do, follow the links below. Contact us at fermilab@fnal.gov or by calling 630-840-3351.

<https://economicimpact.fnal.gov>

Thank you & questions



Please feel free to contact me if you have any additional questions
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