

Economic Impact on Oregon

ONAMI—the Oregon Nanoscience and Microtechnologies Institute—is the first of three Oregon Signature Research Centers.

A deep collaboration among Oregon universities, Pacific Northwest National Lab and industry, ONAMI was created to accelerate research

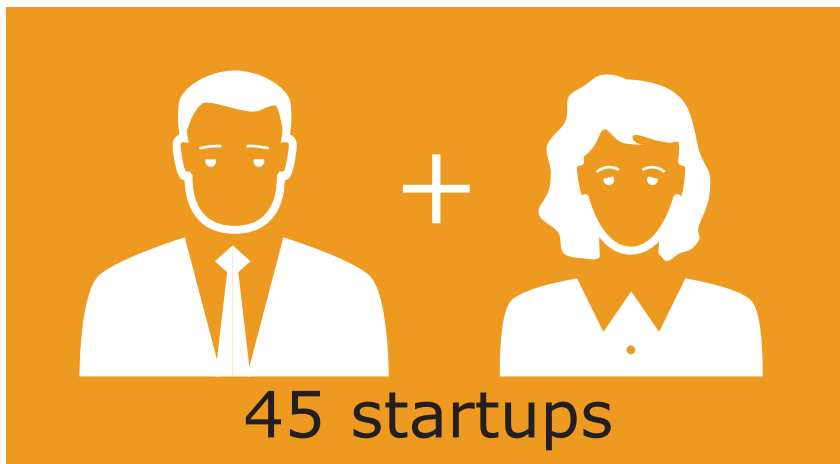
revenue and commercialization of resulting technology in Oregon.

This effort has been very successful and frequently cited (e.g. by NSF, NGA, DOC/EDA) as a national example for innovation-based economic development and regional collaboration in advanced technology.

ONAMI's three major programs are 1) a professionally managed commercialization gap fund, 2) support and promotion of shared user facilities for industry and academic researchers and 3) matching grants for industry sponsored research awards, including SBIR/STTR sub-awards.

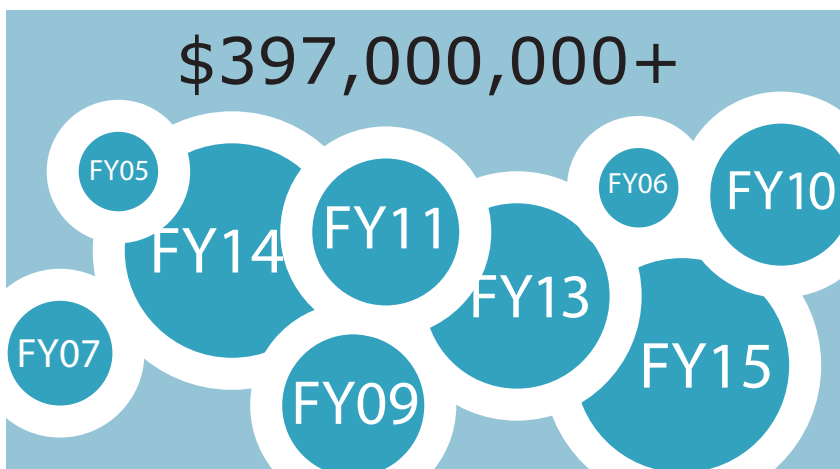
Five measures of success:

1 Business startups » 45 » \$165 million funding



The ONAMI Commercialization Gap Fund matches university technology with entrepreneurial expertise from the business community. From FY07 through FY15, ONAMI funded 53 Gap Grant projects—45 University-Startup Company teams—at a cost of \$7.9M. In the same period, those Startup Companies raised \$165M (approximately 82% from private capital, 11% from federal grants and 7% in revenue).

2 Federal and private dollars leveraged » \$397+ million



Annual nanoscience and microtechnology research awards to ONAMI members from Federal and private sources have risen from \$9M in FY2004 before ONAMI was incorporated, to consistently above \$30M a year. The total of net research awards from FY2005 through June 2015 exceeds \$361M. In addition, industry and private entities have made significant donations of equipment, facilities and services, exceeding \$36M.

3 Number of people employed (not including research growth impact) » 194



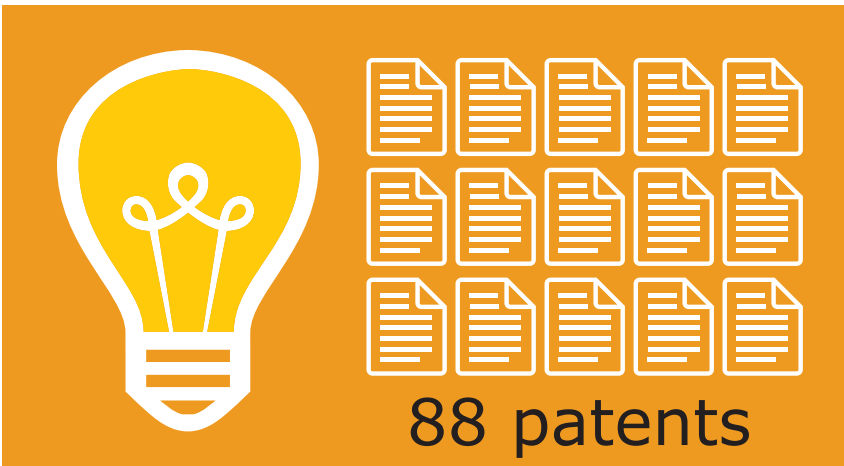
In June 2015, 194 full-time-equivalent jobs were reported by ONAMI Gap Grant companies. This figure continues to grow, especially due to the success of several gap companies that have received A-round funding or are positioned to do so in the near future. Additional jobs are created at the universities supporting Gap Grant company development.

4 Total financial leverage » \$562+ million to-date



Federal and Private Research Awards to ONAMI members FY05-FY15.....	\$361M
Private capital, SBIR, etc. funds to gap fund portfolio companies	\$165M
Major Corporate Gifts (equipment, facilities and services).....	\$36+M
Total leveraged to date	\$562+M

5 Patents » 88



Between FY05 and FY15, ONAMI Member Researchers filed 458 patent applications and received 88 U.S. Patents in nanoscience or microtechnology. Licenses and licensing revenue are steadily climbing.