

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 Laboratory and industry, ONAMI was created to accelerate research revenue and

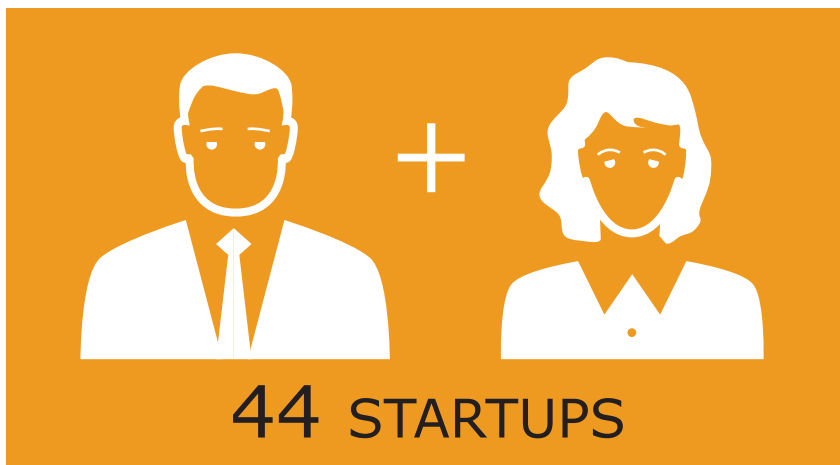
commercialization of resulting technology in Oregon.

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 collaborative, industry sponsored, and major research awards such as the NSF Center for Sustainable Materials Chemistry.

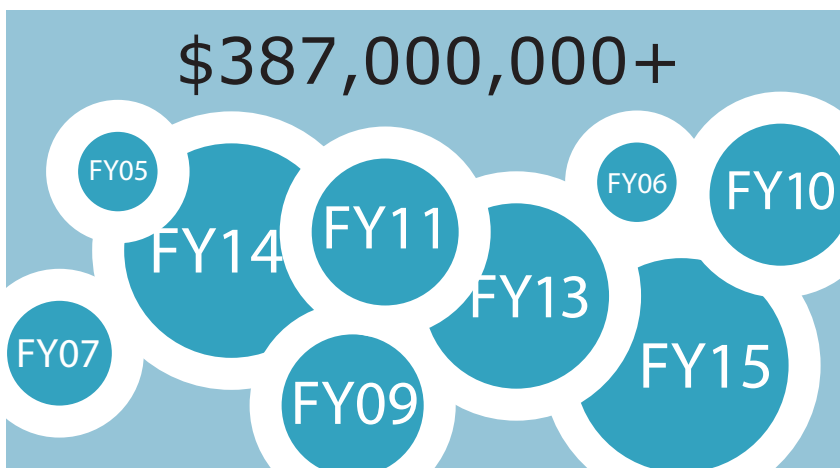
FIVE MEASURES OF SUCCESS:

1 Business startups » 44 » \$161 million funding



The ONAMI Commercialization Gap Fund matches technology from the Universities with entrepreneurial expertise from the business community. Through December 2014, ONAMI has awarded Gap Grants to over 44 University-Startup Company projects. Also through December 2014, these Oregon companies have garnered \$161M in leveraged capital and grant funding (approximately \$18M federal, \$132M private and \$11M in revenue). This compares to a total ONAMI gap grant expenditure of \$7.4M (out of a committed \$9.1M) since FY07.

2 Federal and private dollars leveraged » \$387+ 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 December 2014 exceeds \$351M. 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) » 187



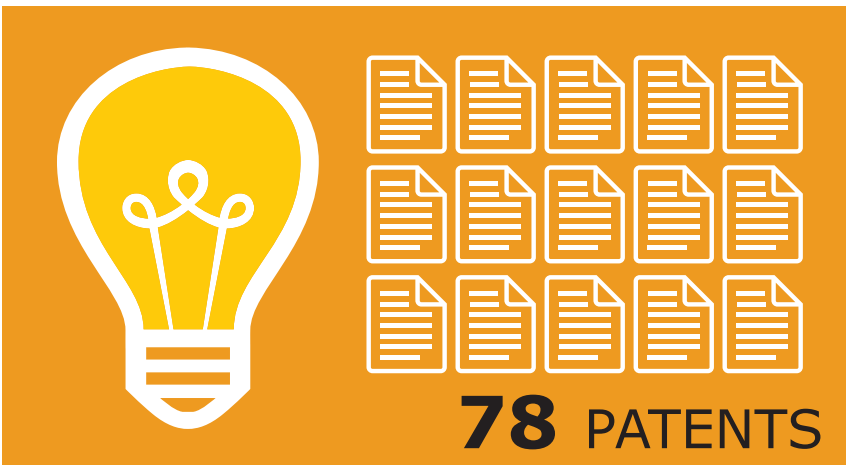
In December 2014, 187 full-time-equivalent jobs were reported by ONAMI Gap Grant companies. This figure continues to grow, especially due to the success of several gap companies that have received A-round funding or are positioned to do so in the near future. Additional jobs are created at the universities supporting Gap Grant company development.

4 Total financial leverage » \$548+ million to-date



Federal and Private Research Awards to ONAMI members FY05-2QFY15	\$351M
Private capital, SBIR, etc. funds to gap fund portfolio companies	\$161M
Major Corporate Gifts (equipment, facilities and services).....	\$36+M
Total leveraged to date	\$548+M

5 Patents » 78



Between FY05 and 2QFY15, ONAMI Member Researchers filed 428 patent applications and received 78 U.S. Patents in nanoscience or microtechnology. Licenses and licensing revenue are steadily climbing.