Logic Model for CMC Microsystems



2020-21

Outcome

Highlights

610 trained HQP moved to industry in Canada

14 new startups

245 patents applied for/issued

430 collaborations with industry, **\$34.3M**

150 awards

4,030 publications

65 universities/colleges to connect **10,000** academic participants with **1,000** companies

• Increased social, environmental and economic benefits for Canada (productivity, sales, employment, profits) from advanced technology products and services such as Internet of Things (IoT), 5G, artificial intelligence (AI)

• Advances in Canada's digital economy

Long term outcomes

- Increased startups specialized in advanced technology including hardware
- Increased development and commercialization of advanced technology products and services

- Improved research capacity in advanced technology
- Increased internationally competitive research in advanced technology
- Increased leading-edge researchers attracted to Canada

Intermediate Outcomes

- Increased industrial research investment attracted to Canada by academic researchers
- Increased in collaboration between academia and industry
- Increased publications in international journals
- Increased access to a broad portfolio of technologies for research
- Increased HQP with industry relevant skills
- Increase development of functional prototypes
- Faster time to student graduation and industry entry
- Increased engagement between CNDN partners and users
- Increase cooperative relationships with organizations worldwide

Immediate Outcomes

- Designs created using industry-grade computer aided design (CAD) tools
- Knowledge shared

- Hardware prototypes manufactured in commercial foundries or university nanofabrication labs
- New supply chains

- Platforms developed through contract engineering and R&D work
- Industry/academic workshops
- Course materials and quickstart quides
- Community success stories
- Partnerships

Outputs

 Provision of computer aided design tool and design environment through desktop or cloud based services (CAD)

- Provision of microsystem prototyping services: manufacturing, packaging and assembly (FAB)
- Provision of contract engineering services, equipment rental services, and technical support for R&D projects (LAB) projects (LAB)
- Outreach and engagement activities
- Provision of expert support and training

Activity