



Kasturi Narayanan
NRC IRAP - Canada

Aeneas

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Canada and Eureka



Celebrating 10 years of Eureka success

Canada joined Eureka in 2012 and has since built a solid foundation of success, including more than:

300

participants in co-innovation
projects

600

international partners

34

countries

\$545M CAD

estimated project value

Sample Projects 1 of 3

- Flexible **Phase Array** System for High Efficiency and Scalable mmWave Wireless Communications' (HEFPA)

RF Syntheses and Front End - 24.25 GHz to 52.6 GHz

Led by Skyworks Canada. Partners' strengths in use- case definition, IC design, packaging and system engineering to implement the building blocks for various phased-array and hybrid-beam-forming configurations

PARTNER

C-COM Satellite Systems Inc / Carleton University / Eindhoven University of Technology / NXP Semiconductors Netherlands BV / Semiconductor Ideas to the Market BV (ItoM) / Skyworks Solutions Canada Inc. / University of Waterloo

Countries involved

 Canada

 Netherlands

Sample Projects 2 of 3

- Innovative Systems and Automated **Design** for 5G/6G Connectivity and Radar Applications [InnoStar]

100 GHz antenna array-in-package (AiP) and an active hybrid dielectric resonator antenna array for telecommunication applications with superior performance at 28 GHz and 100 GHz

160 GHz SiGe BiCMOS AiP and an advanced Si analogue front end for car radar

PARTNER

[Bluetest AB](#) / [CEMWorks Inc.](#) / [CHALMERS TEKNISKA HOEGSKOLA](#) / [Eindhoven University of Technology](#) / [Ericsson AB](#) / [Fraunhofer ENAS](#) / [Fraunhofer IIS/EAS](#) / [Gotmic AB](#) / [IMST GmbH](#) / [Infineon Technologies AG](#) / [MunEDA GmbH](#) / [NXP Semiconductors Netherlands BV](#) / [NXP Sweden](#) / [Stichting Chip Integration Technology Center](#) / [The Antenna Company Nederland BV](#)

Countries involved

 Sweden
 Canada
 Netherlands
 Germany

Sample Projects 3 of 3

- **Patient** and environment aware adaptive intelligent sensor systems [pAvIs]

4 large industries, 6 dynamic and innovative SMEs and 2 highly industry-oriented research organizations from five different countries.

1) Adaptive sensor arrays for MRI

2) neuromodulation devices for cochlear implants, deep brain stimulation and non-invasive wearables

PARTNER

[Bit and Brain Technologies, S.L.](#) / [Cochlear Technology](#)
[Centre Belgium](#) / [Eindhoven University of Technology](#) /
[GrAI Matter Labs BV](#) / [HealthTech Connex Inc.](#) /
[ICsense NV](#) / [INBRAIN Neuroelectronics](#) / [Instituto](#)
[Superior Tecnico, UTL](#) / [Philips Electronics Nederland](#)
[BV](#) / [Philips Medical Systems](#) / [SiliconGate LDA](#) /
[SystematIC design](#) / [TransEON Inc.](#)

Countries involved

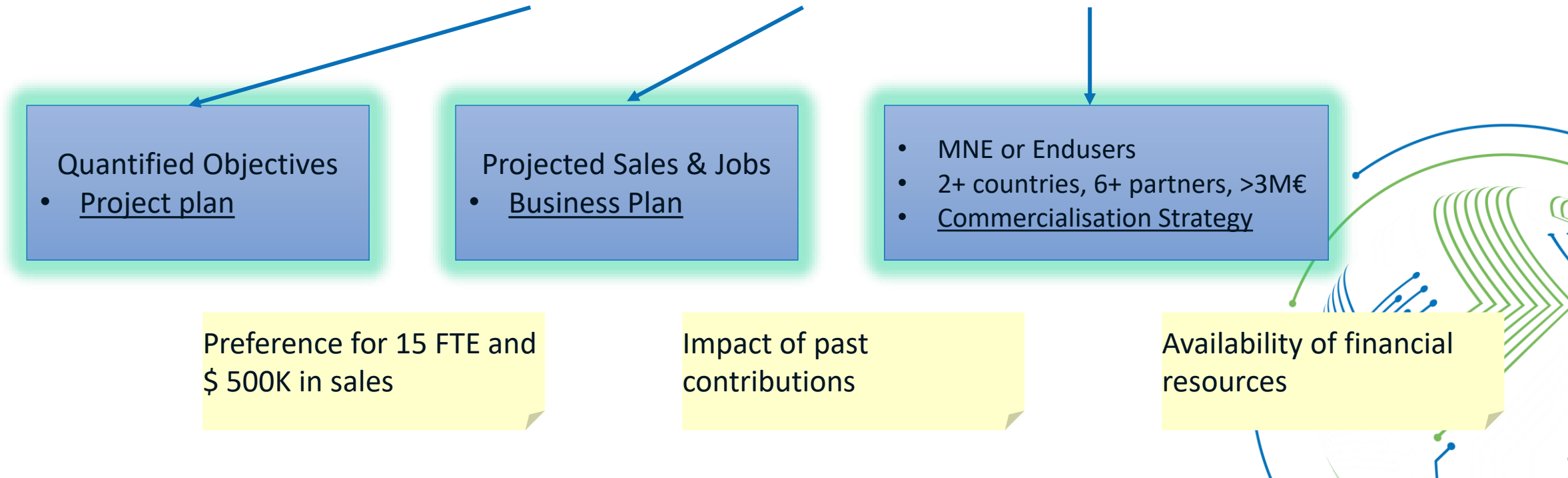
 Belgium
 Netherlands
 Canada
 Spain
 Portugal

Canadian participants funding opportunities



NRC IRAP

- ✕ Eligibility: Small or Medium-sized Enterprises
- ✕ Program Budget : \$ 2M/ year
- ✕ Contribution per firm: Up to \$1M over 3 years (% of salaries & contractors)
- ✕ What we look for? Innovation, Benefits to Canada, Added value





Kasturi Narayanan
NRC IRAP Canada
Industrial Technology Advisor

Thank you

Contact:

Kasturi.Narayanan@NRC-CNRC.GC.CA

+1 587-920-9233

More on:

<https://nrc.canada.ca>

