

National Network for Innovative Shipbuilding, Marine
Research and Training (iSMART)

Proposed iSMART Model

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Proposed iSMART Mission

- *Provide a framework for stakeholders to conduct collaborative and innovative research, development and education relevant to Canada's marine industry.*
- *Provide financial support to carry out R&D projects in collaboration with partners.*

Rational for the Proposed iSMART Model

- The proposed iSMART model is based on the outcomes of the UBC workshop and the successful experiences of CARIC.
- The proposed iSMART model should be developed recognizing the differences between Canada's aerospace and marine industries.



C A R I C
CONSORTIUM FOR
AEROSPACE RESEARCH AND
INNOVATION IN CANADA

iSMART

Proposed iSMART Model

- Organizational Elements
 - Membership
 - Governance
 - Management and Administration
 - Technical Committee
 - Education Committee
- Funding Model
- Annual Conference and Workshops

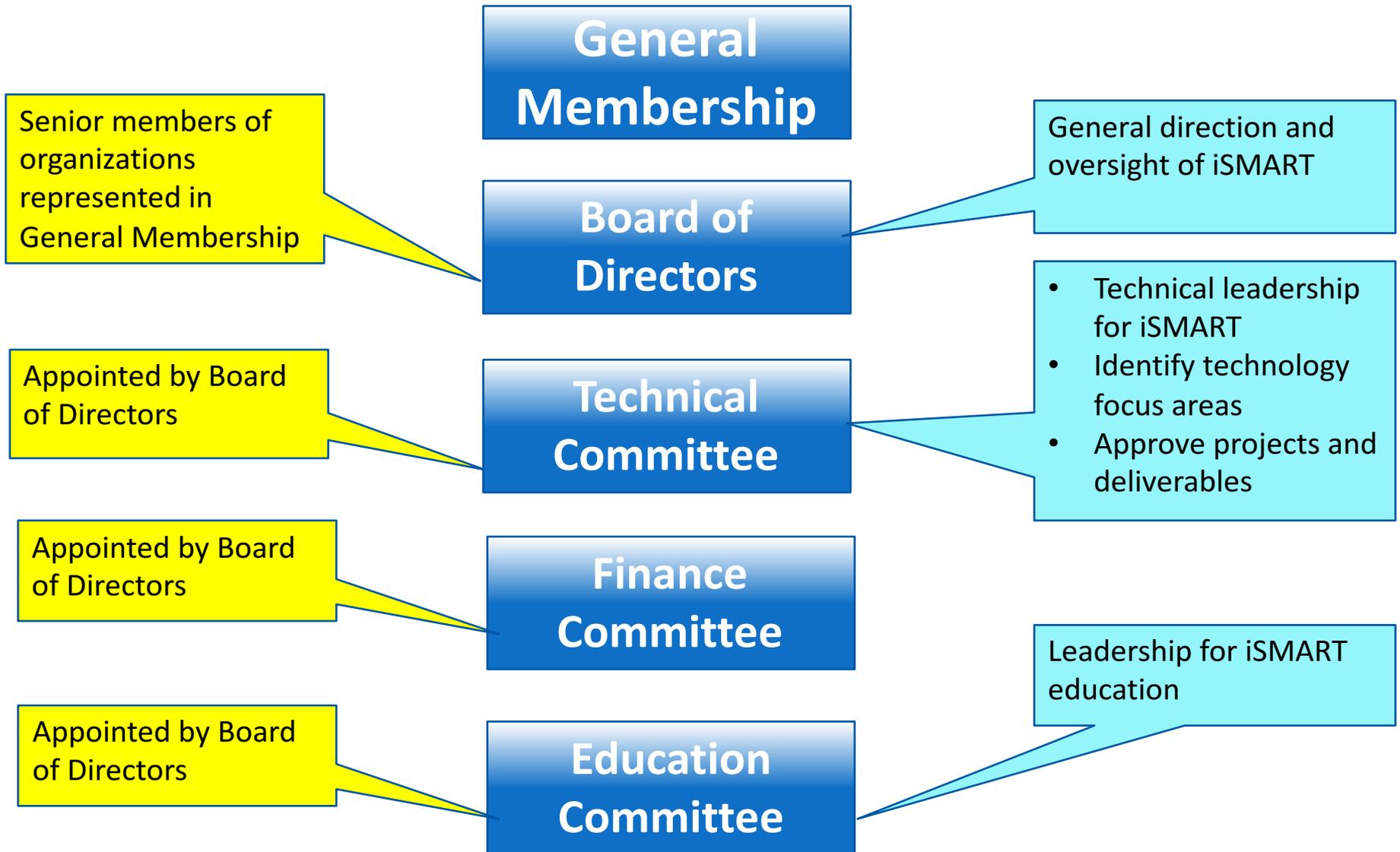
Membership

- The membership may include a wide range of organizations in the broader marine sector:
 - Shipyards
 - Suppliers to the marine industry
 - Engineering companies (consultants, designers, software companies and similar)
 - Universities and colleges
 - Research organizations
 - Government
- Associate members may include trade organizations, professional societies, etc.

Membership

- The membership can start with organizations represented at the UBC and MUN workshops and grow to include others.
- A membership fee may not be required in the first couple of years.

Governance

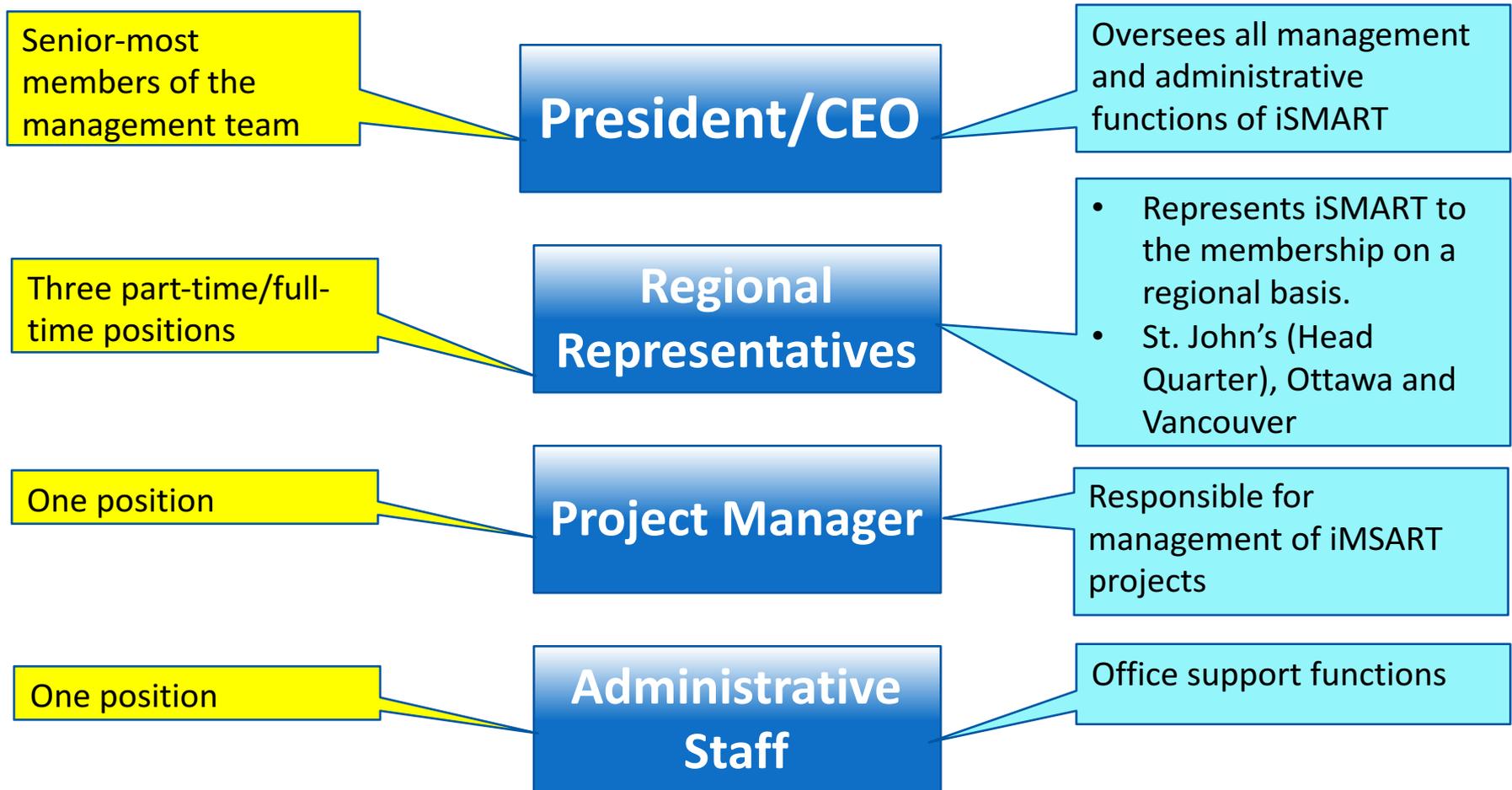


Board of Directors

- The workshop organizing committee will act as the Interim Board.
- Primary tasks of the Interim Board are to establish the Network and attract more members from the marine sector.
- After a two-year term, the Interim Board will be replaced by a Board elected by the membership.

Management and Administration

- Management and administrative services to be provided by a small dedicated team



Technical Committee

- iSMART will facilitate collaborative and innovative research and development, focusing on the seven priority areas identified at the UBC workshop.
- Guidelines for project development will need to be established
 - Identifying areas of focus for each call for proposal
 - Funding (sources and target ratios between core funding and industrial contribution)
 - Assessment criteria, for example, based on Technology Readiness Level (TRL)
 - Dissemination of research outcomes subject to IP agreements
 - Procedures for project proposal submission, evaluation and approval

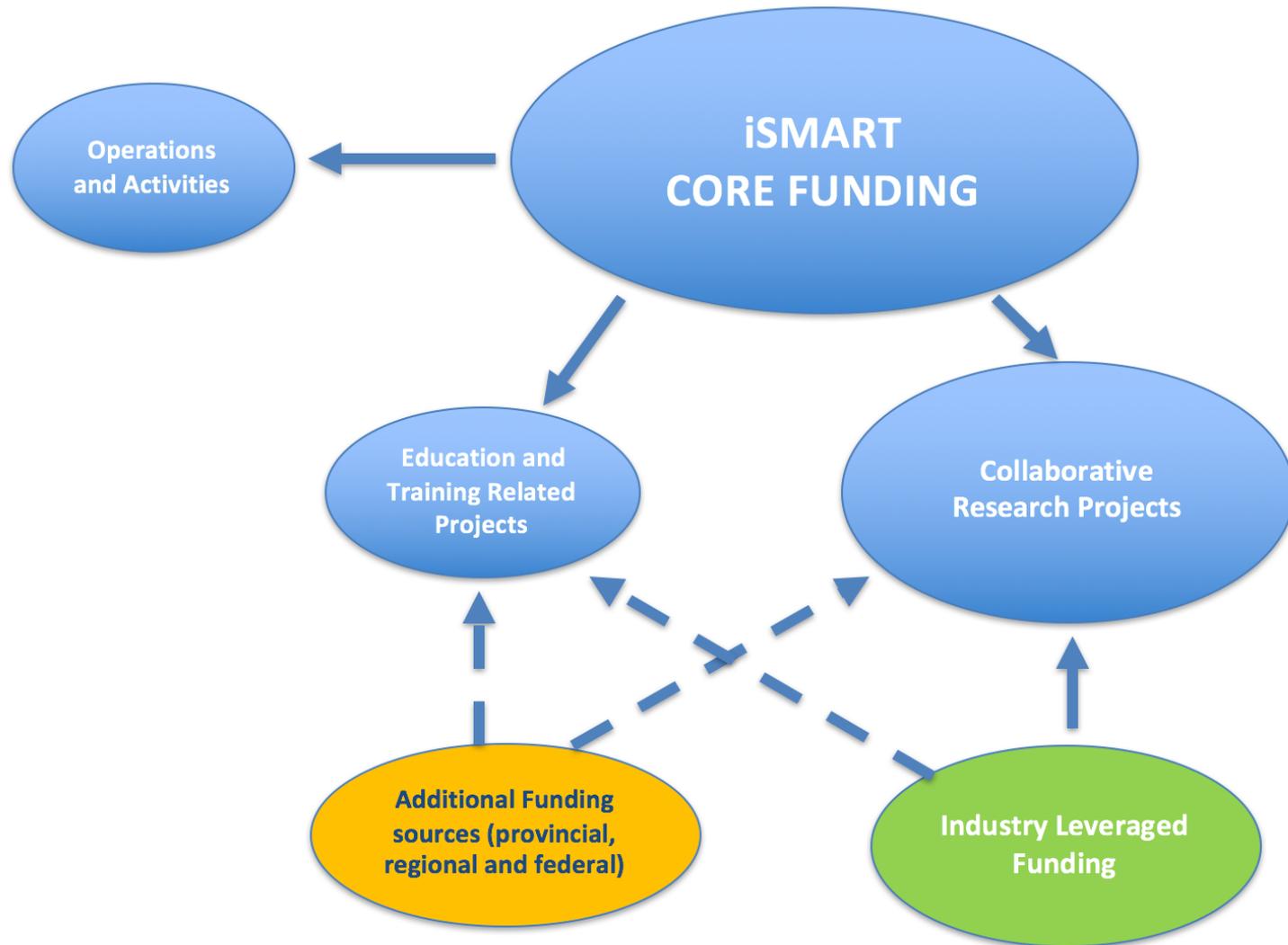
Education Committee

- iSMART will facilitate education and training important to the marine sector, focusing on the five areas identified at the UBC workshop.
- Including short-term (e.g. short courses) and long-term (e.g. curriculum development) projects.
- Guidelines for project development will need to be established
 - Identifying areas of focus for each call for proposal
 - Funding (sources and target ratios between core funding and industrial support)
 - Assessment criteria
 - Procedures for project proposal submission, evaluation and approval

Financial Support

- Core funding from federal government - \$5M/year for six years to support the iMSART network, activities and projects.
- Industrial leveraged fund for projects important to the marine industry, including potential ITB related industry contribution.
- Additional funding from traditional federal programs such as NSERC, and possibly from regional and provincial funding agencies.
- Collaborative projects will typically involve partners from three stakeholder groups (academia, industry and government agencies). Industry-led collaborative projects will be encouraged.

Financial Support – Flow Chart



Annual Conference and Workshops

- Annual conferences will be held alternately in Atlantic, Eastern and Western Canada regions.
- Annual conferences will focus on technical development and advances in research.
- Various connectivity events in other conferences such as CANSEC, DEFSEC, MASS, etc.
- Workshops will be dedicated to address particular topics, such as training.

Action Plan

- Immediate short term
 - To prepare a proposal for the core funding in the next three months.
- Short term (before we secure the core funding)
 - NSERC CREATE program to establish a pan-Canadian network for the training of HQP (six year scope). Letter of Intent Spring 2017/ Proposal Fall 2017/ Award Spring 2018.
 - Encouraging research projects, led by universities and in collaboration with industry and government agencies, through NSERC Engage and Collaborative Research Development (CRD).
 - Seeking support through the NSS ITB opportunities.
- Long term
 - To support collaborative projects with its core funding, leveraged funds from industry (including NSS ITB opportunities), NSERC, provincial and regional funding sources.

Key Discussion Points

- iSMART model
 - Vision/Mission Statement
 - Organizational Structure
 - Membership - Membership Fees?
 - Funding Model