The Canadian High Arctic Research Station

Forum of Arctic Research Operators
Annual Meeting, April 2012
Montréal, Québec
Canada’s Northern Strategy

<table>
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<tr>
<th>Sovereignty</th>
<th>Social and Economic Development</th>
<th>Environmental Protection</th>
<th>Governance</th>
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<td>Exercising our Arctic sovereignty as international interest in the region increases.</td>
<td>Encouraging social and economic development and regulatory improvements that benefit Northerners.</td>
<td>Adapting to climate change challenges and ensuring sensitive Arctic ecosystems are protected for future generations.</td>
<td>Providing Northerners with more control over their economic and political destiny.</td>
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**DOMESTIC AND INTERNATIONAL DIMENSION**

**SCIENCE AND TECHNOLOGY UNDERPIN ALL FOUR PILLARS**

“Our Government will build a world-class arctic research station that will be on the cutting edge of arctic issues...this station will be built by Canadians, in Canada’s Arctic, and it will be there to serve the world.”
The niche for CHARS

• Signature facility in Canada’s North
• Year-round S&T activity directed at national priorities
• Leveraging partners, collaborators, and international scientists to address Canadian priorities
• Building Northern leadership through training, capacity building, and employment
• Growing the economy of the future in the North while engaging Northerners in its realization

MANDATE

To be a world-class research station in Canada’s Arctic that is on the cutting edge of Arctic issues. The Station will anchor a strong research presence in Canada’s Arctic that serves Canada and the world. It will advance Canada’s knowledge of the Arctic in order to improve economic opportunities, environmental stewardship, and the quality of life of Northerners and all Canadians.
# Major milestones

| Definition Phase | May 2008 – Multi-stakeholder Canadian Visioning Workshop  
|                 | 2008 – Benchmarking of polar stations  
| Feasibility Phase | Budget 2009 – ARIF: $85M, Feasibility Study: $2M  
|                 | August 2010 – Cambridge Bay location announced by Prime Minister  
|                 | December 2010 – Minister announced mandate  
|                 | March 2011 – 20 ARIF projects delivered at more than 40 sites  
|                 | September 2011 – Feasibility Study released on Science.gc.ca |
| Design Phase | Budget 2010 – CHARS Design phase: $18M over 4 years  
|              | June 2011 and March 2012 – CHARS Advisory Panel meetings  
|              | September 2011 to November 2011 – RFP for design firm tender  
|              | Next steps – Design, Construction manager tender, site selection and program implementation |

Currently in the design phase
CHARS mandate: components

1. **World-class facility** that is a hub for Canadian and international Arctic S&T

2. **Cutting-edge science and technology** (S&T) that delivers excellence and relevance

3. **Strong research presence** across Canada’s vast and diverse North
1. World-class facility: Cambridge Bay, Nunavut
1. World-class facility: Infrastructure components

Note: Components not to scale
2. Cutting-edge S&T: Delivering on the Northern Strategy

SCIENCE AND TECHNOLOGY UNDERPIN ALL FOUR PILLARS

Northern Strategy Pillars:
- Sovereignty
- Social and Economic Development
- Environmental Protection
- Governance

CHARS Priorities:
- Exercising sovereignty
- Resource development
- Environmental stewardship and climate change
- All four

Strong and healthy communities
2. Cutting-edge S&T: Delivering on mandate

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<th>The CHARS S&amp;T Program will...</th>
<th>CHARS will link between local and regional and national and international</th>
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<td>➢ Focus on priorities identified in the <em>Blueprint</em></td>
<td>Knowledge application</td>
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<td>➢ Be networked nationally and internationally</td>
<td>- Brokering and ensuring S&amp;T is useful and used</td>
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<td>➢ Have a significant research presence in Cambridge Bay</td>
<td>- Fostering synergies across sectors</td>
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<td>• In-house S&amp;T: Addressing local and regional issues</td>
<td><strong>Capacity building</strong></td>
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<td>• Monitoring: Brokering standards and running experimental and reference sites</td>
<td>- Development of Northern research capacity</td>
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<td>• Logistics: Ensuring researchers get into the field</td>
<td><strong>Education and outreach</strong></td>
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<td>- Building the next generation</td>
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3. Strong research presence

- In 2009, through the Arctic Research Infrastructure Fund, the Government of Canada invested $85M over 2 years in 20 projects at more than 40 sites to upgrade Canada’s Arctic S&T network.

- CHARS will anchor this strong research presence across Canada’s Arctic, and play a leadership role in international networks.
3. Strong research presence:

Canadian Network of Northern Research Operators

Jointly supported by CPC and AANDC

www.polarcom.gc.ca
Contact us

If you have comments or feedback on the Canadian High Arctic Research Station please contact Georgina Lloyd, A/Director, Arctic Science Policy Integration at Georgina.Lloyd@aadnc-aandc.gc.ca

To view the CHARS Feasibility Study, or for more information about CHARS, please go to science.gc.ca
Canadian High Arctic Research Station (CHARS) Infrastructure Workshop

What should we build so that you will come?

Open meeting (first come, first served)
Tues. April 24, 13:00 - 16:00
Room 511F
Palais des congrès de Montréal (5th floor)

Maximum participants: 50