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# CanmetMINING Integrated Business Plan & EMMC 2020

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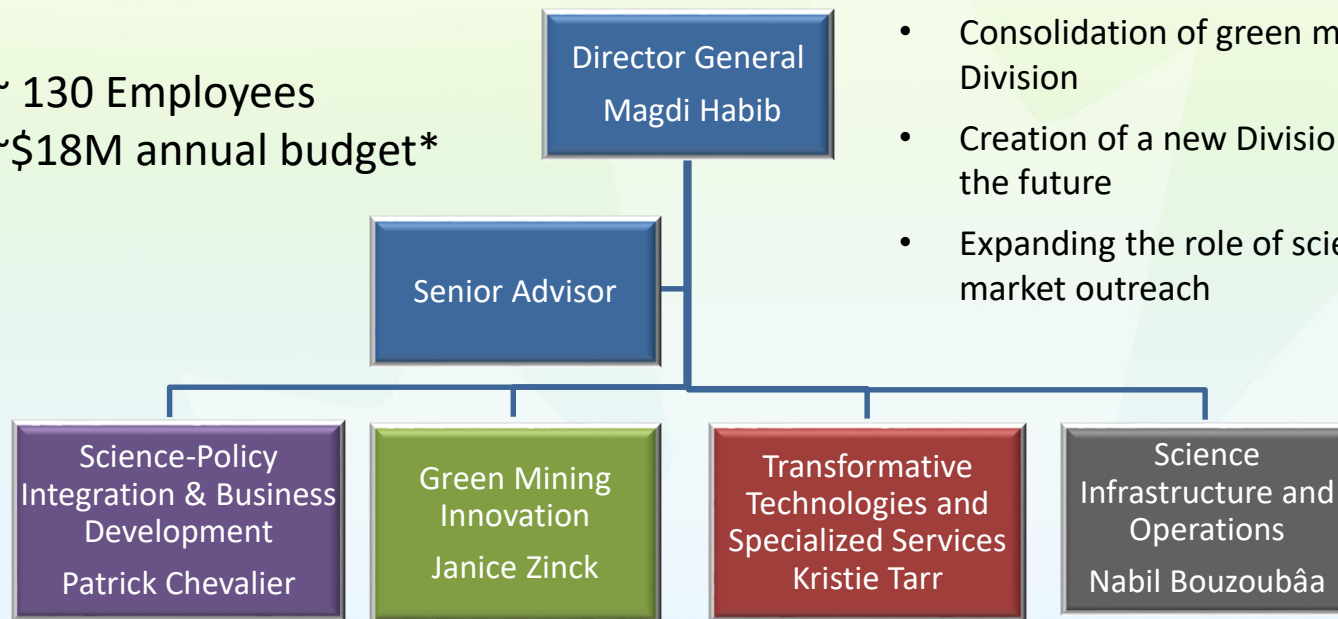
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# CanmetMINING's Integrated Business Plan

- Communicates our vision, priorities and the resources required to achieve them
- Outlines the restructuring of the Branch and HR plan to better position the organization to respond to the evolving needs and challenges associated with mineral resource development in Canada
- Includes:
  - Mandate and vision
  - Strategic context;
  - Partnerships & collaboration;
    - including new outreach strategy;
  - Research plan update and new GMI logic model
  - Operating environment and plans:
    - HR
    - facilities and equipment
    - financial assets

# Positioning for the Future: New Organizational Structure

~ 130 Employees  
~\$18M annual budget\*



## New structure implemented in 2018:

- Consolidation of green mining research under one Division
- Creation of a new Division to focus on technologies of the future
- Expanding the role of science-policy integration with market outreach

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\*budget including VNR and temporary funds

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# Our Vision, Mission and Mandate

- **Vision:** CanmetMINING is a trusted R&D organization and recognized as a global leader in Green Mining Innovation and the applications of digital technologies
- **Mission:** To drive Green Mining Innovation and application of digital technologies to generate economic and environmental benefits for the mining industry
- **Mandate:** To work collaboratively with mining stakeholders and other industries to de-risk and optimize technologies and generate science based knowledge to increase adoption of green mining technologies and inform regulations for sound decision making



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# The Strategic Context of Our Work

- Industry needs to adopt new technologies to transform Canada's resource potential into useful products in a cost-effective and environmentally friendly manner
- Government needs to ensure Canadian resource sector remains a source of jobs, prosperity and opportunity that does not create environmental liabilities
- Global economy moving to a greener future
  - Shift towards low carbon economy, clean technology, more sustainable practices
  - Important for competitiveness and social license to operate



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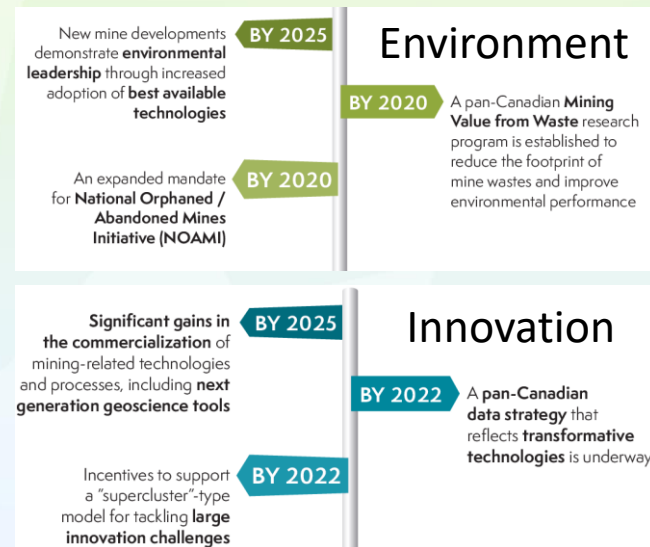
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# Science Policy Integration

- The CanmetMINING research agenda is driven by the need to address industry needs in alignment with Government of Canada priorities and a contribution to public good
- CanmetMINING is working in several areas identified as priorities under the Canadian Minerals and Metals Plan
  - Environment – footprint reduction, action on mine waste, rehabilitation and closure, climate change adaptation, renewed NOAMI
  - Innovation - de-risking new technologies, adapting to meet new frontiers and new technology challenges
- Leading discussions on policy options related to clean technologies and their adoption by industry





# Energy & Mines Ministers

- Deliverables for 2020 (July 26-28 in Whitehorse)
  - Continued emphasis on competitiveness - innovation and sustainability
  - Green Mining Innovation
    - Expand the Science and Engineering Laboratories Network
    - Continue to work and leverage funding for the Mining Value from Waste Program
  - Mine reclamation and abandoned mines (CMMP):
    - Task force led by NRCan to explore national mine reclamation standard
    - Renewal of the National Orphaned-Abandoned Mines Initiative.

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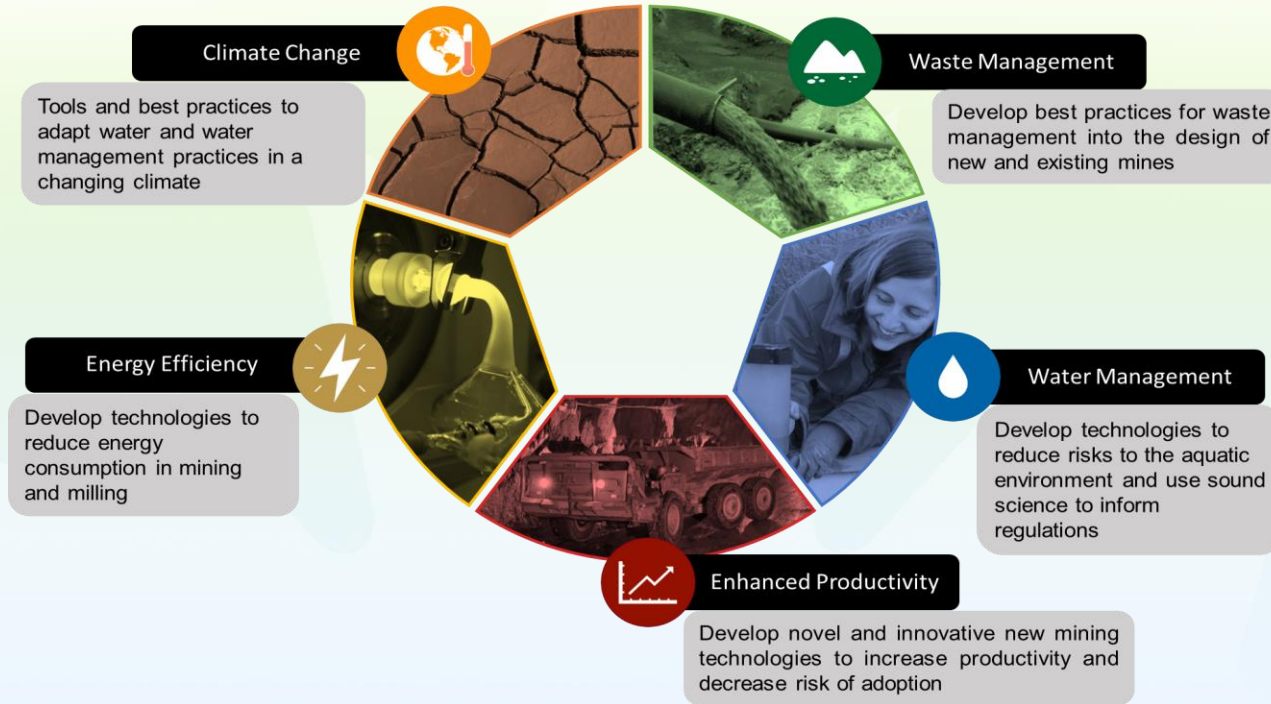


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# CanmetMINING: The Five Priorities



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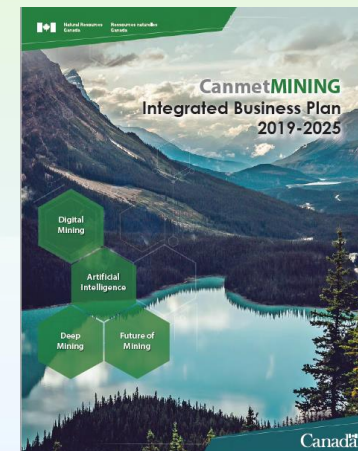
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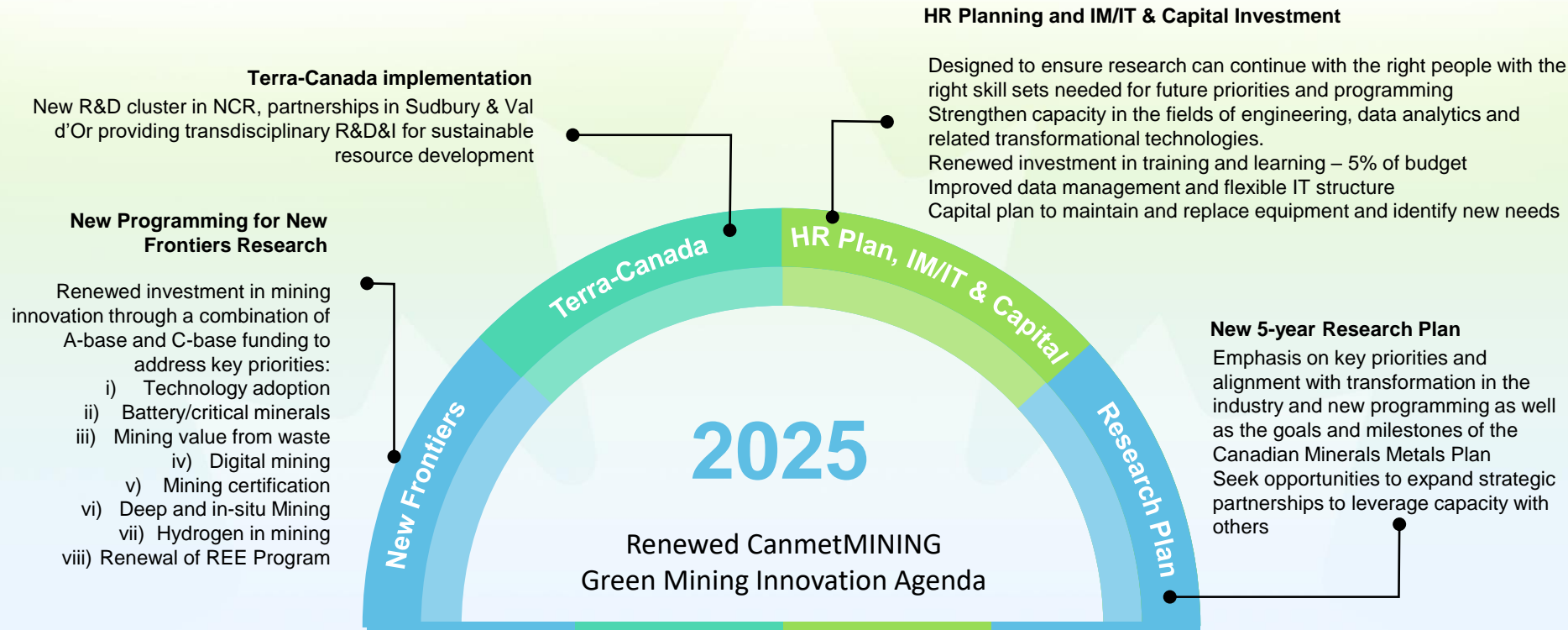


# R&D Results and Expected Outcomes

- The plan provides an update at the mid-point of CanmetMINING's five year research agenda:
  - Four research priorities expanded to five to better reflect full range of work:
    - Energy efficiency; Enhanced productivity; Waste management; Water management; **Climate change NEW**
  - Communicates the achievements to date under each priority
  - Communicates expected achievements by March 2021
  - Reflects new work started by the transformative technologies group
- The plan also provides the updated Green Mining Innovation logic model
  - Overarching framework to explain the short-, medium-, and long-term outcomes CanmetMINING aims to achieve
  - Addresses future business needs beyond current research plan to 2025
  - Addresses funding, demographics, infrastructure, equipment and new skills needed



# Moving Forward



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# Questions

