

## Radarsat Contellation Mission (RCM)

Canada's next generation of Earth Observation Satellites

MS. KIMBERLY CHAN

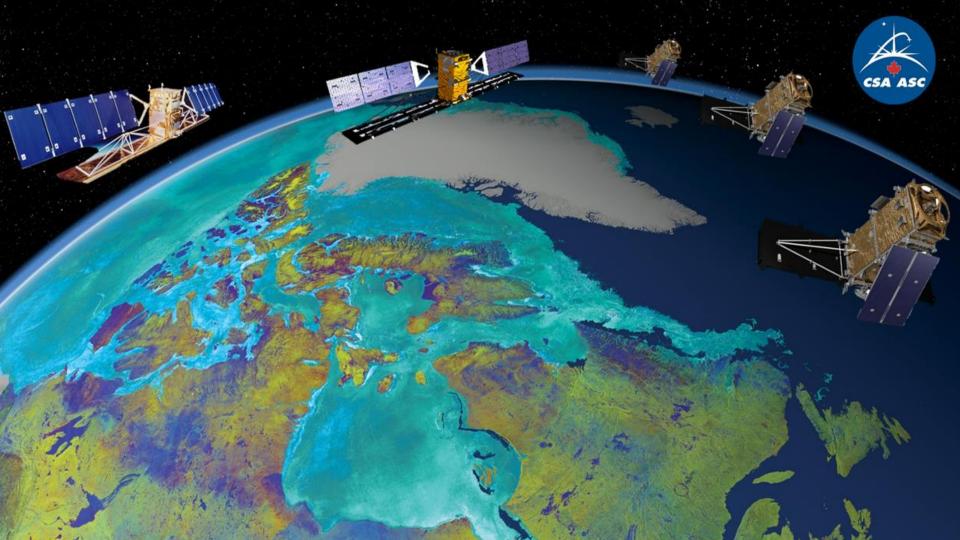




## The RADARSAT CONSTELLATION MISSION (RCM)









RADARSAT Constellation Mission:



**CANADA'S NEW GENERATION OF EARTH OBSERVATION SATELLITES** 





## MAIN USES



Monitor the environment. oceans and ice; support emergency teams during natural disasters: detect ships





50 times more than the first generation

of RADARSAT











- Monitoring **climate change**, land use evolution and even human impacts on the environment by highlighting changes over time through composite images.
- Detecting and **tracking ships**, including those conducting illegal fishing, and <u>helping emergency teams</u> save lives during natural disasters.
- Creating ice maps for <u>safer ship navigation</u> and commercial maritime transportation.
- Monitoring the **integrity of infrastructure** like highways, bridges and railway corridors.
- Measuring changes in permafrost and ground movement to support northern communities, build houses and infrastructure safely, and plan airport runways and their operation and maintenance.
- Maximizing crop yields for farmers while reducing energy consumption and the use of potential pollutants.
- Supporting the operations of the Canadian Armed Forces to further **global peace and security**.



"We need high-quality data to make evidence-based decisions. The RADARSAT Constellation Mission will provide improved data for the critical services our government provides to Canadians, including monitoring climate change, protecting the health of our oceans, forests and crops; and supporting our first responders' disaster relief efforts."

- The Honourable Navdeep Bains, Minister of Innovation, Science and Economic Development



Canadä

## Canadian Space Agency



Agence spatiale canadienne