

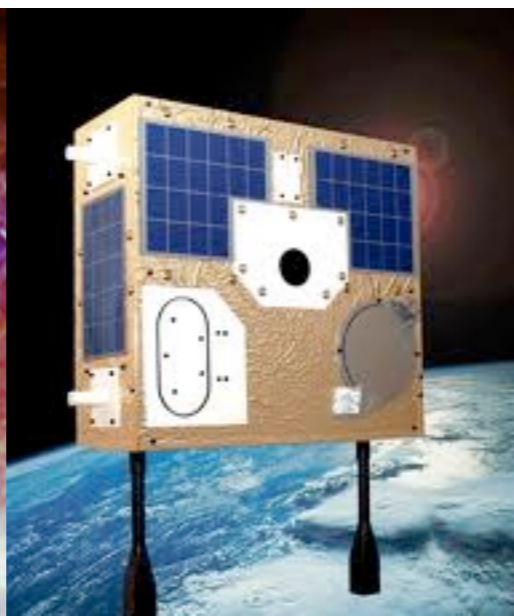
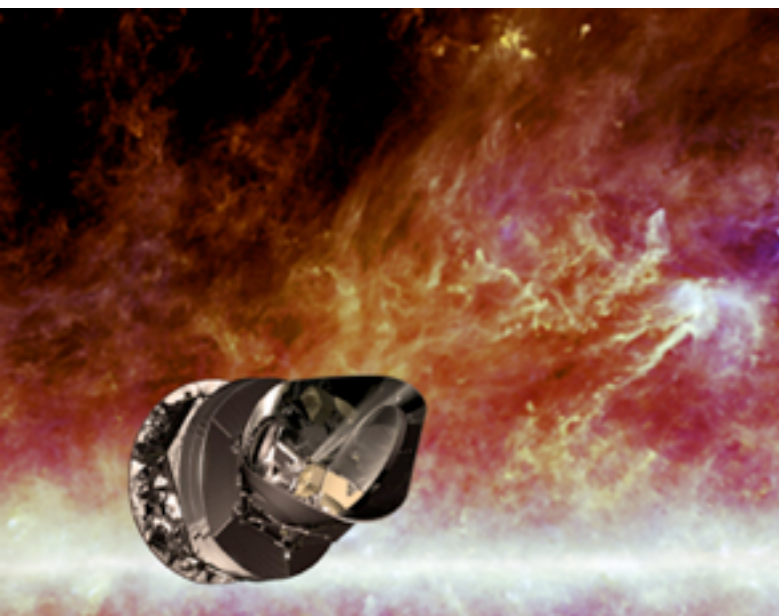
# The JCSA Perspective

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Committee Page: [http://casca.ca/?page\\_id=288](http://casca.ca/?page_id=288)

# Missions over the past decade

- MOST
- Planck
- Herschel
- FUSE
- Balloon missions: BLAST, EBEX, SPIDER



# Current / Committed Missions

- **BRITE**-Constellation - 6 nanosats, launches started last year, Canadian satellites launch next week!
- **NEOSSat** - launched 2013
- **ASTROSAT** (UVIT) - launch early 2015?
- **ASTRO-H** (CAMS) - launch late 2015
- **JWST** (FGS/NIRISS) - launch 2018

# Future mission possibilities - 2020s

- **CASTOR** - (Côté) technology studies, needs a Phase 0
- **WFIRST** - (Hudson)
- **WISH** - (Sawicki) Japanese IR wide field imager
- **SPICA** (Safari) - (Naylor)
- **ATHENA+** - (Gallo) X-ray
- **Balloon missions** - ongoing opportunities

# The financial reality

- reduced CSA budget
  - expensive ongoing commitments
- current budget insufficient to lead a major mission
  - would need a new funding stream
- new space projects have very long lead times
  - need to stay connected to possible opportunities
- opportunities on balloons - free launches, HQP training

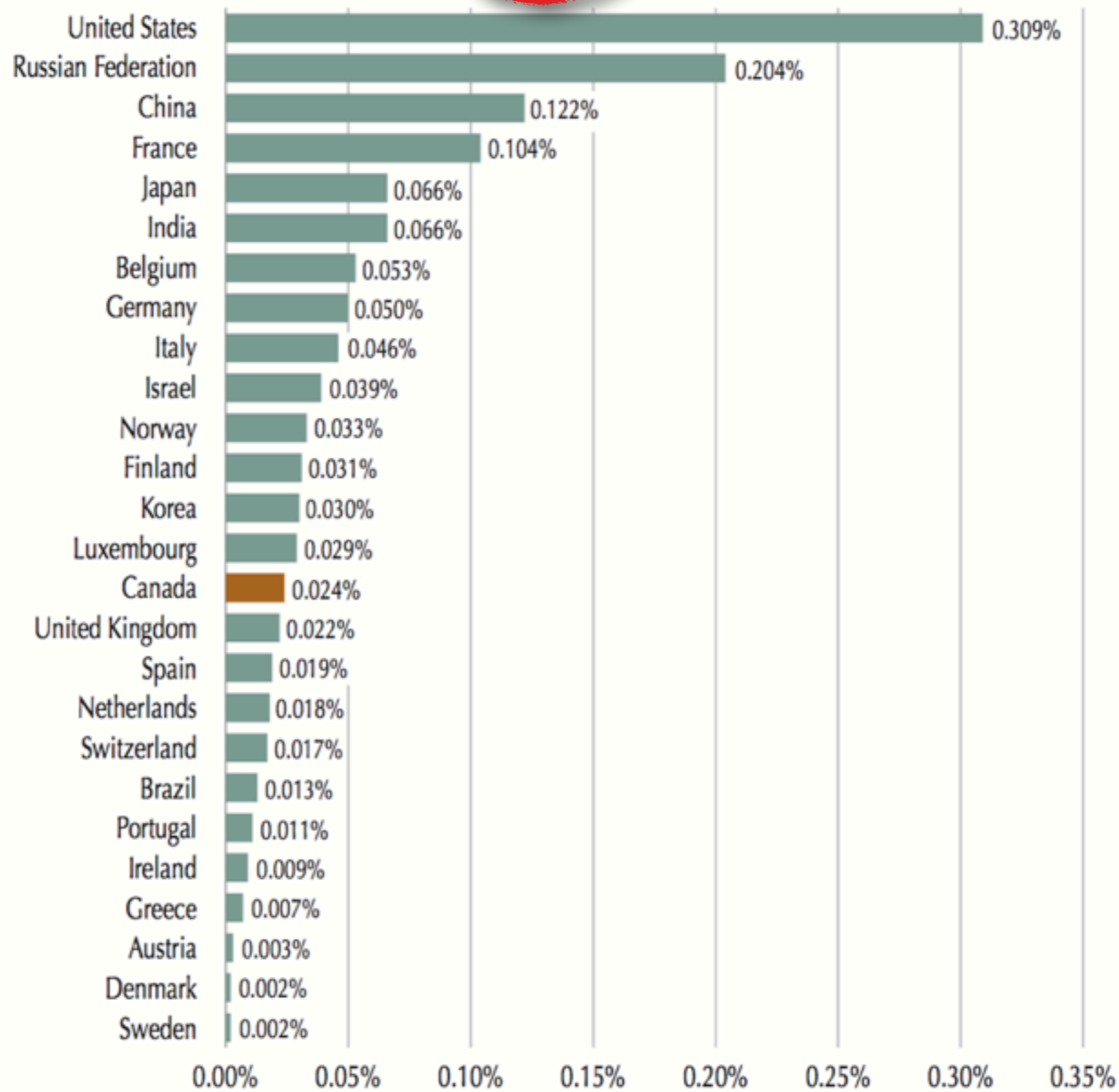
# Comments from the JCSA

- Many space astronomy missions are ‘big science’
  - need for relevant agencies to work together
  - requires international partnerships
  - need to fund scientists as well as mission hardware (SSEP HQP training program is an excellent example)
- Would like Canada to be ambitious, we should be leading major missions

# Key Issues for the MTR

- given financial constraints, how do we maintain a healthy space astronomy portfolio?
  - small role in many projects versus flagship mission
  - very far from ideal of other agencies with regular calls for missions of different sizes
  - need continuity for university scientists, CSA staff and industry
- lobbying for better-funded CSA
  - space is critical for our science, public interest in space is huge
- funding for science exploitation - return on investment
  - NASA model?
  - collaboration with NSERC?

Figure 10: Space budgets of selected OECD and non-OECD countries as a share of GDP - 2009



Source: OECD.

GDP = gross domestic product

OECD = Organisation for Economic Co-operation and Development

from the Emerson Report



Figure 5.2. **Conservative estimates of space budgets of G20 countries, 2010**

Current USD million

