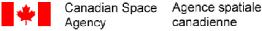
Thematic Sessions Results

Session 4: Earth Observation and Satellite Services

Moderator: Luc Brûlé

Rapporteur: Walter Peruzzini







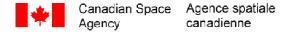
- What do you consider to be the technological and economic opportunities in space applications (Sat Com, EO, navigation, space situational awareness-SSA)?
- CSA to be the Hub of identification of new ideas and manage priority setting process.
- Taking into account global situation.
- CSA role to nurture new promising ideas. Government to use procurement to stimulate innovation.
- Must have <u>export</u> potential
- Maintain Radar leadership.
- Debris is a huge problem SSA is the solution
- Mitigate space debris, is there an opportunity? Get the big pieces down first.
- Higher demand for high resolution optical images development of applications rather than generating data. Combing data (radar and optical). Industry could make a case for building their own ground stations.







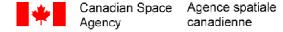
- Are there new and emerging areas of space activities where Canada should envisage taking a leading position?
- Green House Gas and air quality monitoring
- Disaster management. Canada can and should take leadership.
- Handling big data. How to bring together different data types. Need for knowledge based system.
- Machine to machine data handling and processing.
- Hyperspectral addressed by multi-spectral on microsat.
- Market is changing (growing), more consumers have a desire for processed EO data and derived user friendly information, motion imagery.
- Pipelines monitoring
- Micro and nano sats are enablers because break-even point goes down







- How can we maximize benefits from our investments?
- ➤ Data downlink is becoming a limiting factor. More ground stations are required, and on-board processing is also a promising avenue.
- Make a commitment for smaller more frequent, regular missions.
- Open data policy
- Opportunities generated from ESA program
- > PPP's. Government to establish a mechanism or the right model, works in a mature market only.







- Create new mechanism to involve scientists.
- ➤ Call for experts when launching missions. Separate scientist selection from prime selection.
- ➤ For scientist, call for ideas (sensors) on a regular basis. Open the process.
- New opportunities must be aligned with Canadian foreign policies (whole of government approach)

