

Towards the institutionalization of space cooperation in LA: political and legal aspects for its implementation

CRECTEALC/SWF/SRE Workshop
Space Policy in Latin-America and the Carribean:
Looking to the Future

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Presentation Outline

- 1 Introduction
- 2 Historical review
- 3 Rationale of space cooperation in LA
- 4 Models of space cooperation
- 5 Proposal: three-phased plan
- 6 Conclusions

Introduction

- Space applications for national and regional development
- Participation of Latin-American (LA) countries in space activities faces financial and technical limitations
- Missing two elements for space cooperation
 - (1) concrete space programme and;
 - (2) a defined legal model to implement space cooperation

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Historical Review

Precedents of space cooperation in LA

- The Inter-American Committee for Space Research
- The Latin-American School on Space Research

Four regional proposals

- The South American Space Agency (SASA)
- The Latin-American Space Agency (LASA)
- The Pan-American Space Organization (PASO)
- The Satellite project Simon Bolívar

Current forum for LA space cooperation

- Space Conference of the Americas (CEA)

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The rationale for space cooperation in LA

- Why it would be necessary for LA countries to invest in space activities if they can purchase information and services from foreign satellite operators?
- Why should LA countries invest in space activities rather than deal with problems of poverty?

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Models of cooperation 1/3

The European Space Agency

- The European Space Research Organization (ESRO)
- The European Launcher Development Organization (ELDO)
- European Space Conference

Three main elements in the establishment of ESA

- ESA did not start from zero
- ESA relied on experienced staff of ESRO and ELDO
- ESA started operations when the main European facilities has already been set up

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Models of cooperation 1/3

Towards the LASA

- Define the first LA space programme
- Budget and time (funding sources)
- Location of headquarters and LA space facilities
- Some countries will have to contribute part of their space experience and space assets for the common benefit of the region

Models of cooperation 2/3

The Disaster Monitoring Constellation (DMC)

- Algeria, Nigeria, China, Turkey, England and Spain
- Know-How Transfer Training (KHTT) programme
- Assistance for establishing space facilities
- Low cost satellite and practical experience

Towards a LA Satellite Constellation - What is needed?

- Four to six LA countries
- Definition of scope and objectives of the space programme
- Work on its implementation

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On which of the different problems the first Latin-American space programme should focus?

AQUARELSat “Water Monitoring Constellation”

- Water and food security
- Four small Earth observation satellites

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Models of cooperation 3/3

Under the framework of the Organization of American States

- The Inter-American Telecommunication Commission (CITEL)
- The Department of Sustainable Development
- Towards the Inter-American Space Commission?

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Proposal

Third-phased plan

- First-phase: AQUARELSat the Water Monitoring Constellation
- Second-phase: the LASA
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Conclusions

- Focus the discussion on the definition of the first space programme
- Small-scale space programme will provide direction to the regional space policy, hands-on in space missions and further evolution of regulatory and organizational issues
- AQUARELSat the Water Satellite Constellation → impact at national, regional and international level
- The institutional consolidation of LA space cooperation is a long-term plan that should start as soon as possible

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