Collaborative and Coordinated Shared Space based PPP for DRR

To Create *Global* Collaboration Framework Through Coordinated *Country* Specific “Pilot Project Demonstrations” – *PPD’s*

In Support of

Global Platform for Disaster Risk Reduction Fourth Session, Geneva, Switzerland
May 19-23, 2013
1. Goals, Objectives and Members of the CANEUS Global Network
2. Major Achievements: Work and Outcome to Date
3. Future goals and contribution to post-HFA 2015
4. Possible synergies and overlaps with other networks and needs for coordination
CANEUS Global Network
Sole Purpose: Enable Productive Global Partnerships

Partnership Objective: To Leverage Complementary Competencies to Address Common Needs

SPACE-BASED PRACTICAL TOOLS & METHODS FOR RISK ASSESSMENT AND REDUCTION
CANEUS-Shared Small Satellites
CSSP (Collective Security, Safety, and Prosperity)

LIMITED OBJECTIVE DEMONSTRATIONS

Lessons Learned and need for UN led Global-Sat
# Need for Global Collaborative and Coordinated Public-Private-Partnership

<table>
<thead>
<tr>
<th>Major global and regional developments with Hyogo Framework for Action</th>
<th>Productive collaboration among multiple stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>A stronger and more sustainable disaster risk reduction and resilience</td>
<td>To reduce vulnerability of citizens worldwide to hazards</td>
</tr>
<tr>
<td>Outstanding issues and challenges</td>
<td>Development and use of emerging Aerospace tools and technologies</td>
</tr>
<tr>
<td>Crucial activities and priorities</td>
<td>Limited Objective Demonstrations – LOD’s</td>
</tr>
<tr>
<td>Shared resources</td>
<td>Reduced risks</td>
</tr>
<tr>
<td>Multi-Countries-Regions</td>
<td>Collective Safety &amp; Sustainable Prosperity</td>
</tr>
</tbody>
</table>
Answer

• Multi-national, shared emerging space-technology based tools and techniques will promote cooperation, trust and interdependence for the mutual benefit of all stakeholders concerned with disaster risk reduction.

• Complementary skill sets and resources from across the nations are needed to rapidly and cost-effectively apply emerging technologies and methodologies to benefit the “have’s” and “have-nots” for addressing evolving disaster needs by leveraging resources from public-private sectors.

• The ability to share information and resources will enable international partners to foster collaboration and cooperation to enhance their capability.
Objective of CSSP-PPP – LOD’s
At Global Platform 2013

1. CSSP objective is to demonstrate the benefits of sharing assets (Space, ground segment infrastructure, data products, etc,) in a multi-country and multisystem environment to support the activities of any given country to use the data to support their disaster reduction needs.

2. Provide a collaborative environment that can be used to identify issues related to such operational environment and identify solutions to resolve these problems based on “needs analysis” and how the emerging space technology based tools and resources can “bridge the gaps”.

3. Identify the issues to scale-up this project involving a larger number of countries and the barriers to prepare the foundation for the global PPP.
Global Platform Disaster Reduction
CSSP (Collaborative Shared Space-based PPP)

LIMITED OBJECTIVE DEMONSTRATIONS

Proposed Country-Specific Programs Leading to Globally Coordinated Strategy
PPP-Based CSSP LOD Program

Outcomes
• Needs analysis
• Technical issues
• Financials
• ConOps
• Barriers

Level 1: Cross Issues, Disaster Warning Data Acquisition and sharing
Level 2: Requirements Region Level Country Level
Level 3: Identification of Barriers

Horizontal issues:
Data Access, Data Sharing, Data Distribution
Cross requirements [Harvest the results of the LOD’s]

Program Management:
LOD Program [Specific countries, Representatives of the global requirements for the sharing of disaster data]
Technical Issues
Operational Issues (data)
CONOPS (Country)

Regions
Country X
Country B
Country A

Central Server
For User Management
External Data Sources
Maps, Sat., Imagery, VMS, AIS
Internet

Data Processing Tools Built on OS Platform
Secure Data Access Layer
Front End for Visualisation and collaboration

Project Demonstration support PPP
PPP-Based CSSP LOD Design

- Initial Planning
- LOD Design and outcomes
- Requirements
- Analysis & Design
- Financing
- Implementing
- Testing
- Implementation
- Outcomes
- Requirements
- Technical Issues
- CONOPS
- Barriers
- Lessons Learned
- Integration in the Global Strategy
What will be the expected outcome?

The discussion at the GP 2013 will help to formulate PPP based Limited Objective Demonstrations covering:

- Potential PPP Concepts
- Timelines
- Implementation Framework
- Success Criteria / Assessment
- National / Regional /Global Framework
Thank you!

CANEUS International
1425-904 Rene Levesque Blvd West
Montreal, Canada, H4X 2G6
Tel: 001-514-499-3959
mp@caneus.org

www.caneus.org/cssp