GLOBAL SPACE GOVERNANCE
WITH A UNITED NATIONS
SPACE SITUATIONAL AWARENESS ARCHITECTURE

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THE ISSUE:
INCREASING SPACE TRAFFIC

+ SMALL SATELLITES, MICROSATS, NANOSATELLITES
+ COMMON AEROSPACE VEHICLES
= CONGESTED AS NEVER BEFORE & WOULD INCREASE IN FUTURE
NATURAL DEBRIS LIKE ASTEROIDS, COMETS, ETC

ARTIFICIAL OR MAN MADE DEBRIS

- 22,000 OBJECTS OF 10 CM OR MORE IN DIAMETER IN ORBIT AS PER US SSN DATA

SOURCE: SPACE SECURITY INDEX 2012
<table>
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<tr>
<th>OTHER MANMADE ISSUES</th>
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<tr>
<td>PELLET ASATs (1970-80)</td>
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<td>Air Launched (1985) US &amp; RUSSIA</td>
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<td>CO-ORBITAL ASATS TESTED BY RUS IN 1970</td>
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<td>NETWORK INTERFERENCE AND JAMMING</td>
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<td>EMP: US &amp; RUSSIA (1960-70)</td>
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<td>MICRO/NANO SATS IN ASAT ROLES</td>
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THE NEED FOR OBSERVATION, AWARENESS OF SPACE IS PARAMOUNT!!!

• NO ARGUMENT POSSIBLE AGAINST IT
• EVERYBODY NEEDS IT
WHY DON’T EXISTING SYSTEMS SUFFICE

• NO SYSTEM DESIGNED SPECIFICALLY FOR SSA
  - A BMEW SYSTEM ≠ A SSA SYSTEM
• NO COUNTRY CAN UNDERTAKE SSA ALONE
• EXISTING SYSTEMS ARE ONLY PART SYSTEMS COVERING THE NORTHERN HEMISPHERE
THE PROPOSED SOLUTION

• PLUG THE SOUTHERN HEMISPHERE WITH A SPECIFICALLY DESIGNED SSA SYSTEM -UNSSA
• CONNECT UNSSA WITH EXISTING SSA SYSTEMS FOR COMPREHENSIVE COVERAGE
• INCLUDE ELEMENTS OF SPACE WEATHER, SDA, SATCOM CARRIER ID, DISASTER MITIGATION IN UNSSA.
• CONSOLIDATED NOT PIECEMEAL GOVERNANCE
BASIC SSA CONSTITUENTS
THE LEGISLATIVE POSITION

• **GENERAL CONTEXT**: SSA IMPACTS ALL THE PRIME PRINCIPLES OF SPACE LAW – PEACEFUL USES, COMMON INTEREST, FREEDOM, INT COOP.

• **SPECIFIC CONTEXT:**

• US NOT LEGALLY BOUND TO PROVIDE SSA.

• UN – ONLY INSTITUTIONALISED STRUCTURE MANDATED BY 193/195 (BY CONSENT) TO

→ MAINTAIN INT PEACE & SECURITY (ART-I)
→ DEVELOP FRIENDLY RELATIONS (ART-II)
→ CENTRE FOR HARMONIZING ACTIONS OF NATIONS FOR COMMON ENDS (ART-IV)
THE LEGISLATIVE POSITION-2

- **STATES**

- **ART-IX:** LEGAL OBLIGATION ON STATES TO “TAKE MEASURES TO AVOID HARMFUL INTERFERENCE”

- **ART-VI:**
  - STATES BEAR INTERNATIONAL RESPONSIBILITY FOR NATIONAL ACTIVITIES IN OUTER SPACE.
  - ACTIVITIES SHALL REQUIRE CONTINUOUS SUPERVISION
CONCLUSION

• PROPOSED UNSSA PREMISED ON MITIGATING COMMON THREATS WITH A COMMON RESPONSE MECHANISM – NO CONSENT ISSUES AS IN ISMA

• UNSSA IMPACTS ALL AREAS OF GLOBAL SPACE GOVERNANCE

• FIRST VISIBLE STEP TO “UNIVERSALISATION”.