Geoint: Accelerating Decision Advantage for Security

Decision Support System for Armed Forces

Air Vice Mshl Sanjay Bhatnagar VM VSM (Veteran)

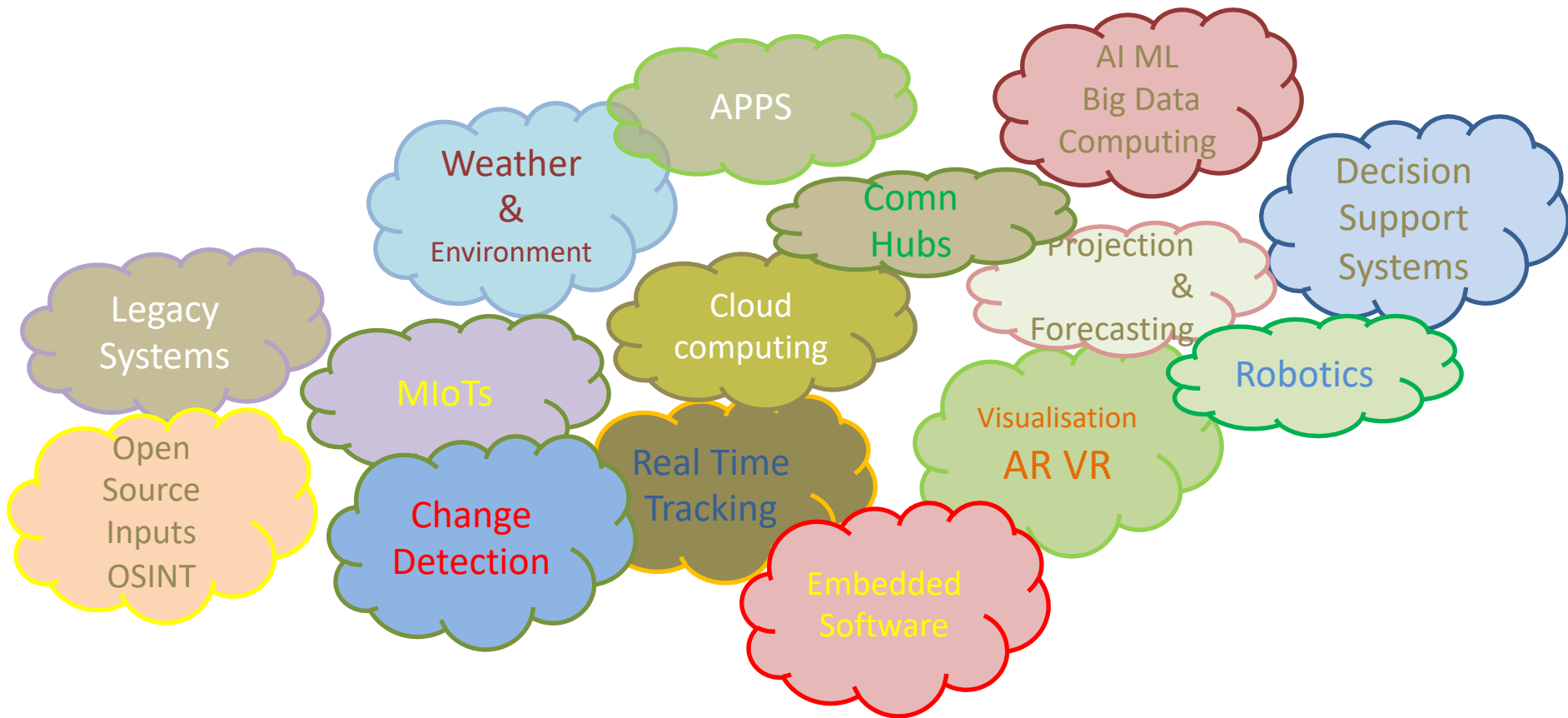Disclaimer
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GeoSpatial Building Blocks: Military System

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- Synchronise humungous data from myriad of sources in different formats.
- Deliver a CoP.

Decision Support System (DSS).

Cranking Up Combat Capabilities: Net Centric Capabilities

- Integrated Air Command and Control System (IACCS) by BEL.

- Integrated Perimeter Security System (IPSS) by BEL.

- Strike Planning & Weapon Delivery System.

- Information Management and Analysis Centre (IMAC) for IN.

- Integrated Battlefield Surveillance Centres. Project 'Sanjay'

- Arty Combat Comd Control & Comn System. Project 'Shakti'

- Situational Awareness Module for Army (SAMA)- (op, Igs & managerial).

- Weather Forecasting Software for Indian Army (NCMRWF).

- IAF's Centre of Excellence (CoE) for AI under the UDAAN.

- A robust communication backbone – NFS & AFNET.

Key Enabler: Armed Forces GeoSpatial Capabilities

- Creation of Defence Space Agency (DSA).

- Space Sector Reforms: 2020

- Creation of IN-SPACe & NSIL.

- Sharing Space related testing & certification facilities for pvt agencies.

- Creation of ISpA.

- National GeoSpatial Policy 2022.

- Indian Space Policy 2023.

- Throbbing Indian Private Spacetech companies.

- Policy level encouragement.

- Academia proactively involved.

Armed Forces: Wishlist

- Arrest the Geoint and Space technology gap vis-à-vis China.

- A National Geoint framework.

- Reliable data integration for a CoP (multi spectral sensors).

- Robust and resilient 'change detection' capability.

- Dynamic & Persistent Decision Support Systems in various domains.

- Analysis, modeling, simulation & visualisation tools for DSS.

- Virtual Area Network (VAN) over various tools.

Way Forward

- Close Interaction between the Indian Industry, <u>Academia</u> & Users.

- Collaboration with Friendly Foreign Counties, within the framework of being a major defence partner (MDP).

Thank you
&
Jai Hind.

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Time	Speaker	Appointment	Topic
0900	Air Vice Mshl Sanjay Bhatnagar VM VSM (Veteran)	Advisor, BEL, India	Decision Support System for Armed Forces & Opening Remarks.
0915	Madhav Ragam,	Vice President - Public Sector, Maxar Technologies, Singapore	
0925	Col Milan Patnaik	DGMI	Advances in Generative AI for SAR to EO Translation
0935	Royston Ong	Business Development Manager (Defense & Intelligence), Asia Pacific, Esri, Singapore	
0945	Dr. Rao Ramayanam	Senior Sales Executive – International, HawkEye 360, US	Space-based Radio Frequency (RF) Monitoring: Equipping: Analysts with a Powerful Tool for Geospatial Intelligence
0955	Arpan Sahoo	Co-founder and COO at KaleidEO	
1005	Lt Col Piyush Shukla	Corps of Engrs, Indian Army	Leveraging Advanced Geospatial Technologies for Defence
1015	Paolo Pasquali	Technical Director & President, sarmap sa, Switzerland	Wide-area, Hierarchical and Activity-based Structured Obsn with satellite SAR technologies
1015	Q&A		