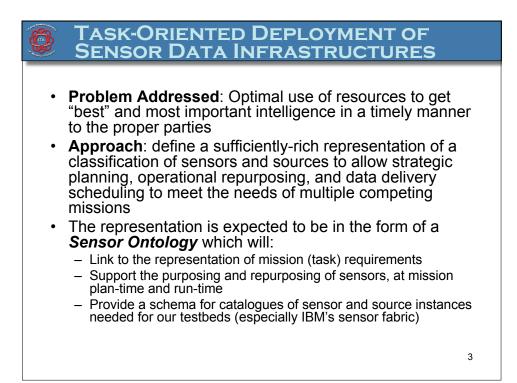


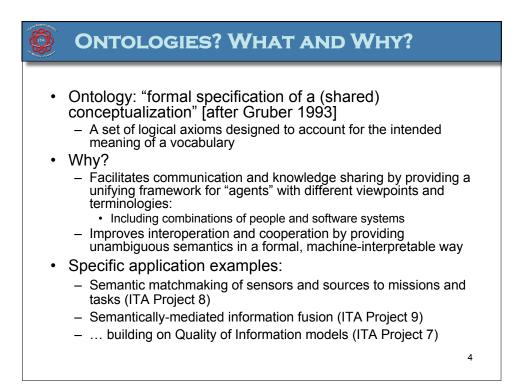


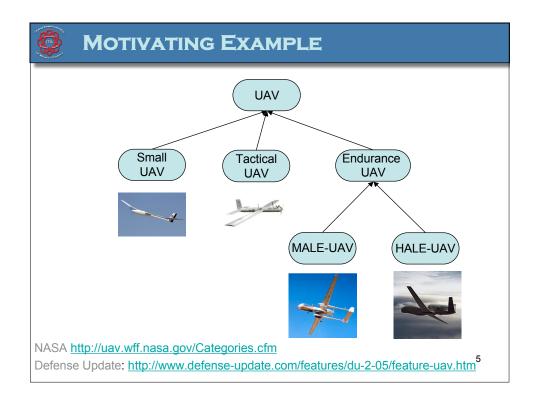
"ISR* resources are typically in high demand and requirements usually exceed platform capabilities and inventory
"The foremost challenge of collection management is to maximize the effectiveness of limited collection resources within the time constraints imposed by operational requirements"
*ISR = intelligence, surveillance and reconnaissance

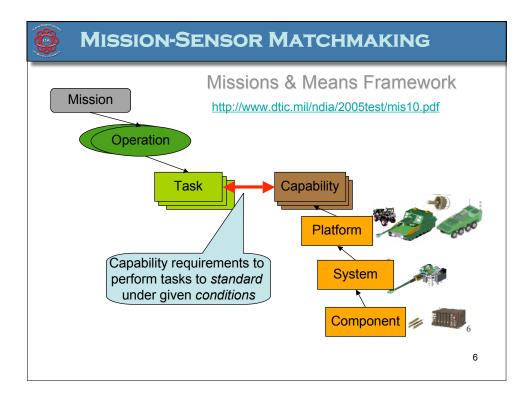
JP 2-01 Joint and National Intelligence Support to Military Operations http://www.dtic.mil/doctrine/jel/new_pubs/jp2_01print.pdf

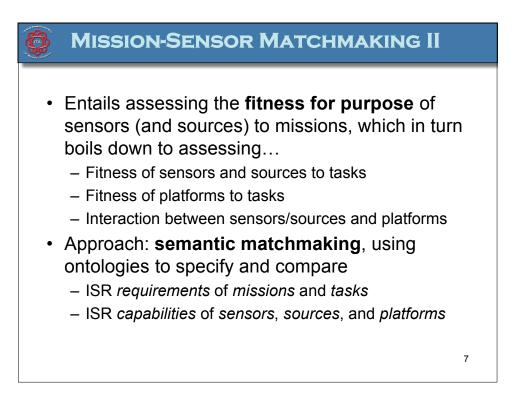
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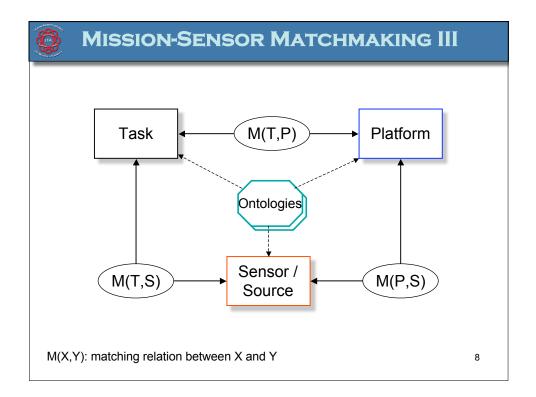


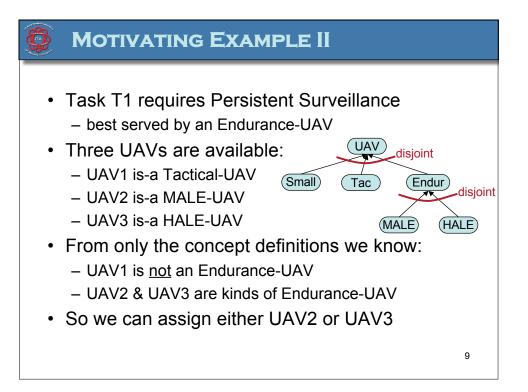


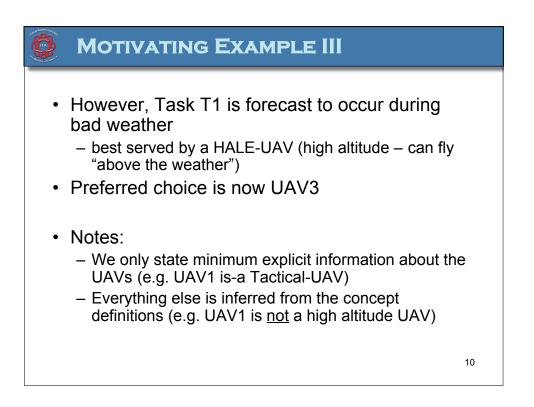


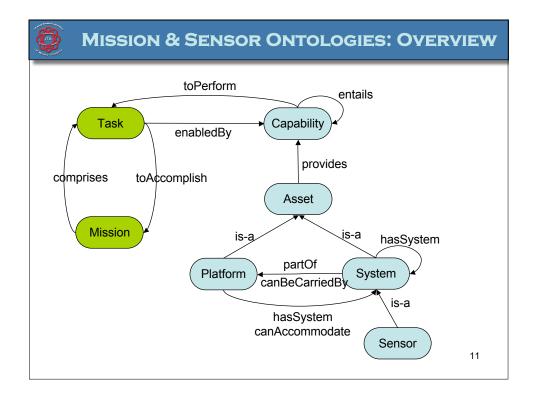




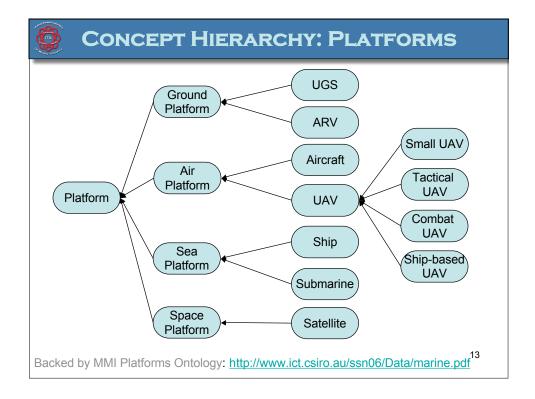


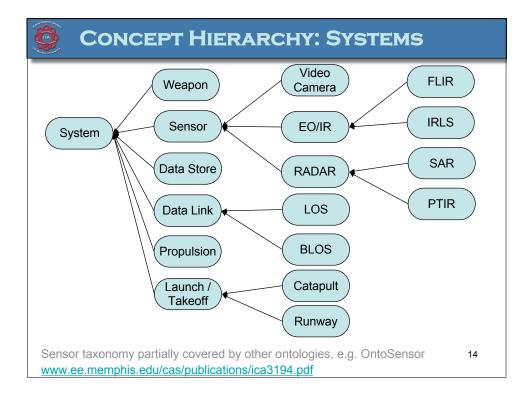


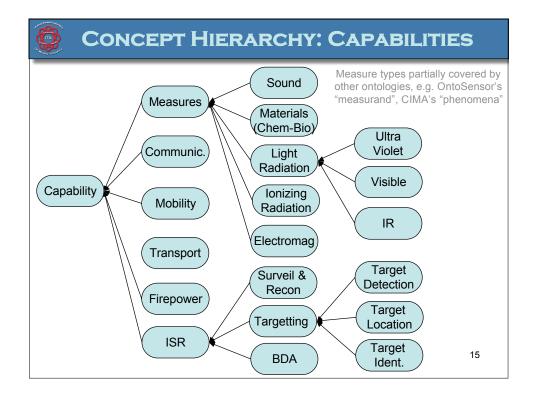


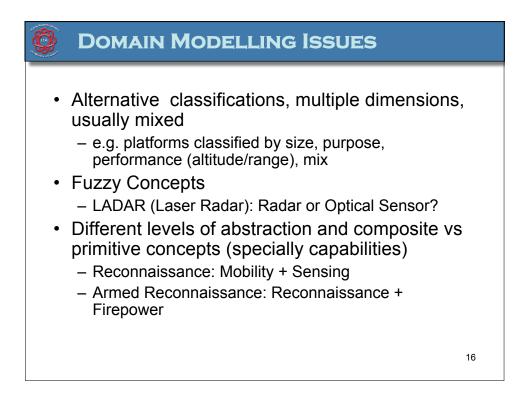


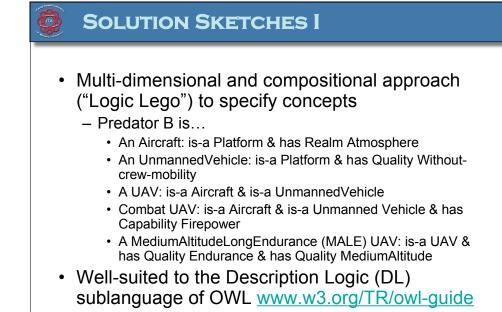












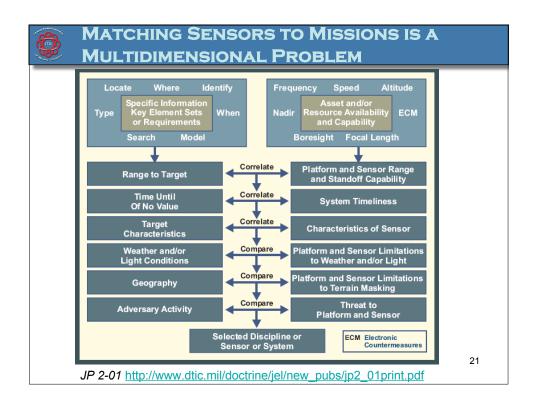
SOLUTION SKETCHES II Use **multiple dimensions** to capture the capability specifications of sensors/platforms/missions For platforms Mobility - Realm - Performance (range, endurance/dwell time, altitude, speed, etc...) • Application type (Surveillance, Reconnaissance, TA, BDA...) Firepower Launch/Recovery System Communications · Vulnerability/Survivavility Availability For Sensors · Phenomena Detected (type and spectrum) • Performance (Quality of data, accuracy, etc) Weather/Terrain/Contamination influence Vulnerability Availability 18

17

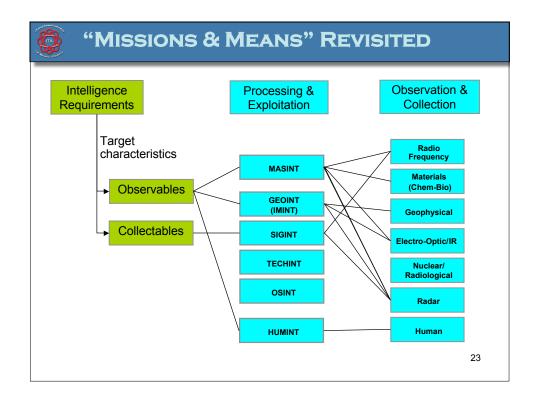
SOLUTION SKETCHES III

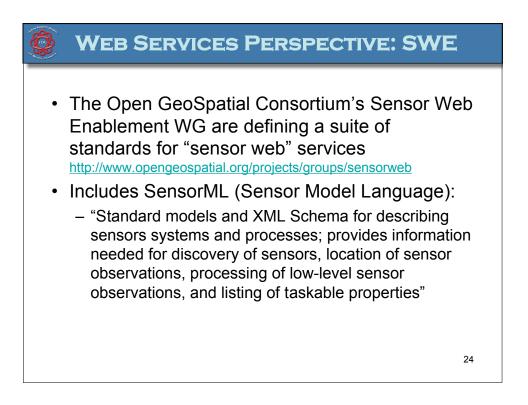
- For missions (intelligence requirements)
 - Target characteristics
 - Range to the target
 - Timeliness
 - · Battlespace factors
 - Threat
 - Terrain
 - Contamination
 - Weather

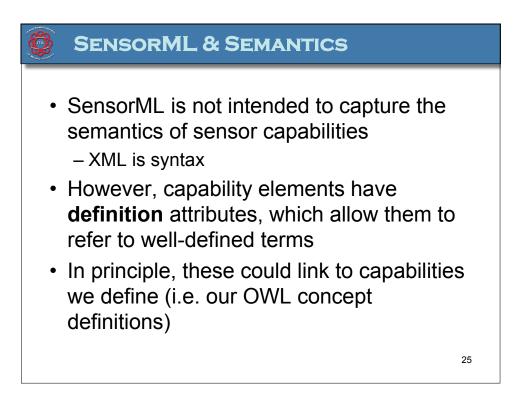


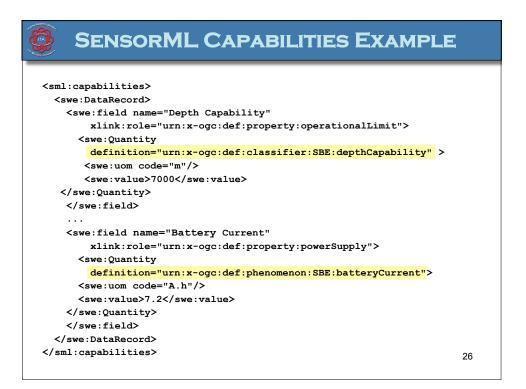


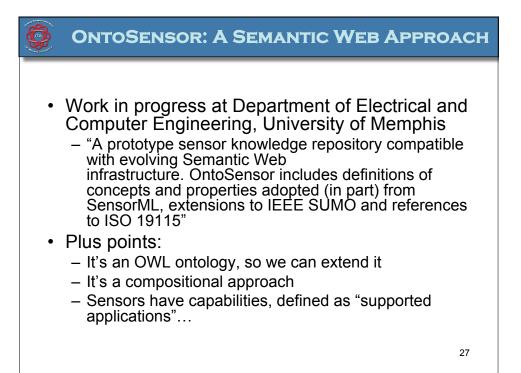
			Joint Battlespace Awareness			
Planning & Direction	Observation & Collection (All Domains)	Processing & Exploitation	Analysis & Production	Dissemination & Integration	Evaluation & Feedback	Develop & Maintain Shared SA & Understanding
Identify Info & Collection Requirements	Radio Frequency	MASINT	Indications & Warning	Develop Databases & Applications		Access/Share Info on Adversary/ Neutral/Noncombatants
Conduct Collection Management	Materials (Chem-Bio)	HUMINT	Current Intelligence	Enable Smart Pull/Push for Intel Products		Access/Share Blue Force SA
Build Collection Plan	Geophysical	GEOINT (IMINT)	General Military Intelligence	Enable Real-time Intel for Warfighter		Access/Integrate Geospatial Info
Develop ISR Architecture	Electro-Optic/ IR	SIGINT	Intelligence Preparation of the Battlespace			Reachback For SME
	Nuclear/ - Radiological	TECHINT	Operational Intel & Targeting Intel			Display tailored, relevant SA info -UDOP-
	Radar -	OSINT	Science & Technology			
	Human		Counter Intelligence			
			Modeling & Simulation			
			Predictive Intelligence			

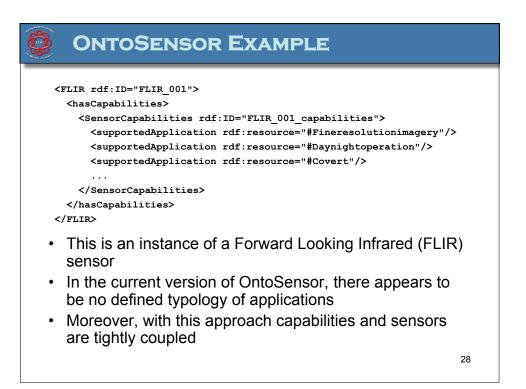


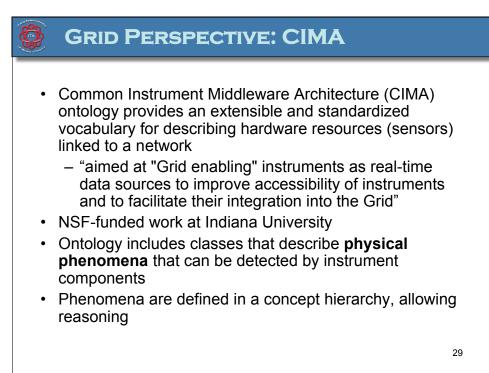


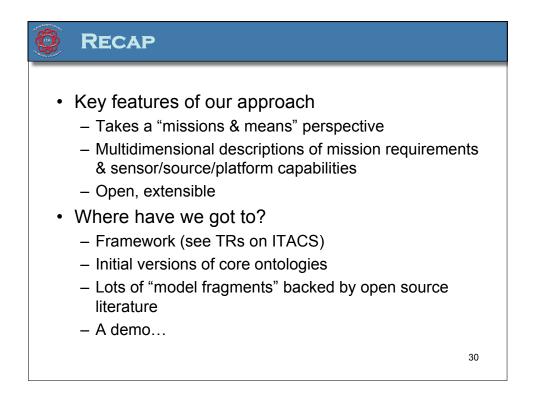


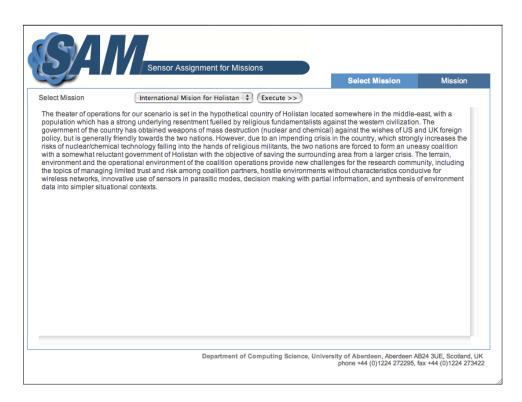












			Select Mission	Mission
	Operations		Requirement	
otage Dirty Bor king Insurgent		 ✓ Surveillance ✓ IMINT ✓ LongEndurance Add Requirements 	-	-
	Details :: Sab	otage Dirty Bomb		
Commander's Intent Description	to mount an intervention operation in order to deny Coalition intelligence agencies have received info Holistan across the border into Rugistan to carry o insurgents as The sword of Jihad.	rmation about a plan to	smuggle nuclear material f	rom a facility in

O O O Available Requirements	
Available Requirements	
 □ Capability □ Platform_Specific_Capabilities □ Other_Capabilities □ UAV_Performance □ UAVFlyingAltitude □ UAVRangeAndEndurance □ ShortRange □ CloseRange □ CloseRange □ CloseRange □ SIGINT □ OSINT □ HUMINT ♥ MINT 	
 Firepower Reconnaissance_Surveillance_Target_Aquisition DamageAssessment Reconnaissance Surveillance MissileWarningAndSpaceSurveillance CoastalSurveillance 	
ConstantSurveillance BorderSurveillance BattlefieldSurveillance WideAreaSurveillance	33

