Document Markings							
Revision: Baseline	Document No: COSMIC-E02-C014-2024-A						
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Title: Mapping of 2024 COSMIC Products to COSMIC Objectives							



**RELEASE DATE: 08/23/2024** 

COSMIC-E02-C014-2024-A

## COSMIC

## CONSORTIUM FOR SPACE MOBILITY AND IN-SPACE SERVICING, ASSEMBLY AND MANUFACTURING (ISAM) CAPABILITIES

## MAPPING OF 2024 COSMIC PRODUCTS TO COSMIC OBJECTIVES

Mathew R DeMinico COSMIC Secretary of the Steering Committee The Aerospace Corporation

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## **REVISION AND HISTORY PAGE**

Revision No.	Description	Release Date
Baseline	Initial Baseline	8/23/2024

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	Focus Area:		RT		DI		ME				PR		WD			CME			
	Metric:	ISAM Tech Taxonomy	ISAM Tech Inventory	Collect data for an ISAM Critical Capabilities Roadmap	ISAM Testbeds Taxonomy / Organizing Schema	ISAM Demonstration Infrastrucutre Inventory (digital, ground, flight)	Demonstration Infrastructure Executive Summary / annual report	ISAM Capability taxonomy	ISAM Use Cases	ISAM funding opportunities	Collect data for an ISAM Critical Capabilities Roadmap	Repository of ISAM Policies and Regulation	Policy Education Seminar Series	Inventory of ISAM Education Advocates	Curation of ISAM Challenging Topics to Inform Curriculum, Capstones, and Competitions	Compilation of Existing ISAM STEM Resources and Outreach Opportunities	COSMIC Lexicon	Mapping of Products to COSMIC Key Objectives	Mapping of Products to National ISAM Implementation Plan
Multi-Channel	Establish coordination of regular communication channels to enable cross- agency government facilitation in support of the ISAM National Strategy Support open discussions on capability																		
Communications	development, ecosystem economics, and mission applications																		
	Provide forums and tools to share information, discuss opportunities, and address concerns									х			х			х			
ISAM Capabilities	Promote coordinated development and demonstration of new ISAM technologies		х	x		х				х	x				х				
	Facilitate access to digital, ground, and space test opportunities and infrastructure to transform technologies into fielded capabilities					x	х												
	Incubate and encourage promising technologies with applications to new ISAM markets		х	х					х	x	х				х	х			
	Facilitate transfer of ISAM technologies to commercial market Encourage collaboration among		Х	х					х	х	х								
Ecosystem	government and private members			х			х		х	х	х	х	х						Х
Economics	Support and coordinate with organizations that develop open standards and norms	х			х			х				х	х				х	х	
	Examine and navigate the ISAM legal and regulatory perspectives											х	х						
Mission Applications	Collaborate to define future missions and architectures that require or benefit from ISAM capabilities ("guide stars")			x					х		x								x
	Identify opportunities for the incorporation of ISAM into government and commercial space activities			x					x		x								х
	Maintain knowledge of available ISAM capabilities, ongoing activities, and existing facilities, and communicate this information to mission and technology developers Prioritize environmental sustainability		x	x		x	х		x	x	x			x		x			x