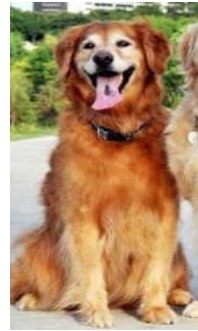


PRIORITIZING MISSION OBJECTIVES

Ranking System

- How important is each Mission Objective?
 - Scale: 1, 3, 5, 8, 13



1

3

5

8

13

SAMPLE CATEGORY PRIORITIZATION WORKSHEET

Mission Objectives	Categories (Please Label)														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
IDENTIFY															
Asset Management (ID.AM)	2	1	1	1			1	H	1		H	1	H		
Business Environment (ID.BE)										1		2		3	3
Governance (ID.GV)															
Risk Assessment (ID.RA)														2	2
Risk Management Strategy (ID.RM)					H	H			3	3		3		1	1
PROTECT															
Access Control (PR.AC)										2		H	1		
Awareness and Training (PR.AT)															H
Data Security (PR.DS)	H		2	2		1	2	H					2		
Information Protection Processes & Procedures (PR.IP)		H		3	H				2		H			H	
Maintenance (PR.MA)						2									
Protective Technology (PR.PT)						3									
DETECT															
Anomalies and Events (DE.AE)		2		H							2	H		H	H
Security Continuous Monitoring (DE.CM)			3		1					H			2H		
Detection Processes (DE.DP)	1					H	3	1	H		1				
RESPOND															
Response Planning (RS.RP)			H	H				2				H	H	H	H
Communications (RS.CO)											3				
Analysis (RS.AN)		3													
Mitigation (RS.MI)	3				2	H	H		H	H			3		
Improvements (RS.IM)															
RECOVER															
Recovery Planning (RC.RP)	H	H	H	H		H	H	3	H	H	H	H	H	H	H
Improvements (RC.IM)					3										
Communications (RC.CO)															

RANKING THE MISSION OBJECTIVES BY TRANSPOSING MISSION TO CYBER

1. Ensure Secure and Timely Communications
2. Plan, Deploy, and Operate Network
3. Manage Data Collection and Storage
4. Build Privacy into CV Program
5. Improve Mobility for Passenger Vehicles
6. Provide Transportation Efficiency for Commercial Vehicles and Fleets



7. Manage Users
8. Assure Asset Security and Operational Viability
9. Conduct Data Analyses
10. Minimize Driver Distraction and Workload
11. Measure and Evaluate Performance
12. Perform Strategic Communications to Facilitate Business and Driver Adoption

CYBERSECURITY FRAMEWORK PROFILE DEVELOPMENT

CV Pilot Mission Objectives



Draft CV Pilot CSF Profile (Representative Excerpt)

Function	Category	Subcategory	Informative References	Mission Objectives											
				1	2	3	4	5	6	7	8	9	10	11	12
IDENTIFY (ID)	Asset Management (ID.AM)	ID.AM-1: Physical devices and systems within the organization are inventoried	<ul style="list-style-type: none"> CIS CSC 1 COBIT 5 BA03.01, BA03.02 ISA 62443-2-1:2009 4.2.3.4 ISA 62443-3-3:2013 SR T.8 ISO/IEC 27001:2013 A.8.1.1, A.8.1.2 NIST SP 800-53 Rev. 4 CM-6, RM-5 	*	***	*	*	**	***	*	***	*	*	*	
			<ul style="list-style-type: none"> CIS CSC 2 COBIT 5 BA03.01, BA03.02, BA03.05 ISA 62443-2-1:2009 4.2.3.4 ISA 62443-3-3:2013 SR T.8 ISO/IEC 27001:2013 A.8.1.1, A.8.1.2, A.12.3.1 NIST SP 800-53 Rev. 4 CM-6, RM-5 	*	***	*	*	**	**	*	***	*	*	*	
			<ul style="list-style-type: none"> CIS CSC 12 COBIT 5 DSS05.02 ISA 62443-2-1:2009 4.2.3.4 ISO/IEC 27001:2013 A.13.2.1, A.13.2.2 NIST SP 800-53 Rev. 4 AC-4, CA-5, CA-9, PR-5 	*	***	***	*	***	***	*	**	*	*	*	**
			<ul style="list-style-type: none"> CIS CSC 12 COBIT 5 APO02.02, APO10.04, DS01.02 ISO/IEC 27001:2013 A.11.6 NIST SP 800-53 Rev. 4 AC-20, SA-3 	*	**	**	*	**	**	*	***	*	*	*	**
			<ul style="list-style-type: none"> CIS CSC 13, 14 COBIT 5 APO03.03 												
PROTECT (PR)	Identity Management, Authentication and Access Control (PR.AC)	ID.BE-2: The organization's place in critical infrastructure and its industry sector is identified and communicated	<ul style="list-style-type: none"> COBIT 5 APO08.01, APO08.04, APO08.05, APO10.03, APO10.04, APO10.05 ISO/IEC 27001:2013 A.15.1.1, A.15.1.2, A.15.1.3, A.15.2.1, A.15.2.2 NIST SP 800-53 Rev. 4 CP-2, SA-12 												
			<ul style="list-style-type: none"> COBIT 5 APO02.06, APO03.01 ISO/IEC 27001:2013 Clause 4.1 NIST SP 800-53 Rev. 4 PM-8 												
			<ul style="list-style-type: none"> COBIT 5 APO02.01, APO02.06, APO03.01 ISA 62443-2-1:2009 4.2.2.1, 4.2.3.6 NIST SP 800-53 Rev. 4 PM-11, SA-14 	*	***	***	*	***	***	*	**	*	*	*	**
			<ul style="list-style-type: none"> COBIT 5 APO10.01, BA104.02, BA109.02 ISO/IEC 27001:2013 A.11.2.2, A.11.2.3, A.12.1.3 NIST SP 800-53 Rev. 4 CP-8, PE-9, PE-11, PM-8, SA-14 	*	***	***	*	***	***	*	**	*	*	*	**
			<ul style="list-style-type: none"> COBIT 5 BA103.02, DSS04.02 ISO/IEC 27001:2013 A.11.1.4, A.17.1.1, A.17.1.2, A.17.2.1 NIST SP 800-53 Rev. 4 CP-2, CP-11, SA-13, SA-14 	*	***	***	*	***	***	*	**	*	*	*	**
DETECT (DE)	Security Continuous Monitoring (DE.CM)	ID.BE-4: Dependencies and critical functions for delivery of critical services are established	<ul style="list-style-type: none"> COBIT 5 APO08.01, APO08.04, APO08.05, APO10.03, APO10.04, APO10.05 ISO/IEC 27001:2013 A.15.1.1, A.15.1.2, A.15.1.3, A.15.2.1, A.15.2.2 NIST SP 800-53 Rev. 4 CP-2, SA-12 												
			<ul style="list-style-type: none"> COBIT 5 APO02.06, APO03.01 ISO/IEC 27001:2013 Clause 4.1 NIST SP 800-53 Rev. 4 PM-8 												
			<ul style="list-style-type: none"> COBIT 5 APO02.01, APO02.06, APO03.01 ISA 62443-2-1:2009 4.2.2.1, 4.2.3.6 NIST SP 800-53 Rev. 4 PM-11, SA-14 	*	***	***	*	***	***	*	**	*	*	*	**
			<ul style="list-style-type: none"> COBIT 5 APO10.01, BA104.02, BA109.02 ISO/IEC 27001:2013 A.11.2.2, A.11.2.3, A.12.1.3 NIST SP 800-53 Rev. 4 CP-8, PE-9, PE-11, PM-8, SA-14 	*	***	***	*	***	***	*	**	*	*	*	**
			<ul style="list-style-type: none"> COBIT 5 BA103.02, DSS04.02 ISO/IEC 27001:2013 A.11.1.4, A.17.1.1, A.17.1.2, A.17.2.1 NIST SP 800-53 Rev. 4 CP-2, CP-11, SA-13, SA-14 	*	***	***	*	***	***	*	**	*	*	*	**
RESPOND (RS)	Analysis (RS.AN)	ID.BE-5: Resilience requirements to support delivery of critical services are established for all operating states (e.g. under duress/attack, during recovery, normal operations)	<ul style="list-style-type: none"> COBIT 5 APO08.01, APO08.04, APO08.05, APO10.03, APO10.04, APO10.05 ISO/IEC 27001:2013 A.15.1.1, A.15.1.2, A.15.1.3, A.15.2.1, A.15.2.2 NIST SP 800-53 Rev. 4 CP-2, SA-12 												
			<ul style="list-style-type: none"> COBIT 5 APO02.06, APO03.01 ISO/IEC 27001:2013 Clause 4.1 NIST SP 800-53 Rev. 4 PM-8 												
			<ul style="list-style-type: none"> COBIT 5 APO02.01, APO02.06, APO03.01 ISA 62443-2-1:2009 4.2.2.1, 4.2.3.6 NIST SP 800-53 Rev. 4 PM-11, SA-14 	*	***	***	*	***	***	*	**	*	*	*	**
			<ul style="list-style-type: none"> COBIT 5 APO10.01, BA104.02, BA109.02 ISO/IEC 27001:2013 A.11.2.2, A.11.2.3, A.12.1.3 NIST SP 800-53 Rev. 4 CP-8, PE-9, PE-11, PM-8, SA-14 	*	***	***	*	***	***	*	**	*	*	*	**
			<ul style="list-style-type: none"> COBIT 5 BA103.02, DSS04.02 ISO/IEC 27001:2013 A.11.1.4, A.17.1.1, A.17.1.2, A.17.2.1 NIST SP 800-53 Rev. 4 CP-2, CP-11, SA-13, SA-14 	*	***	***	*	***	***	*	**	*	*	*	**
RECOVER (RC)	Recovery Planning (RC.RP)	ID.BE-5: Resilience requirements to support delivery of critical services are established for all operating states (e.g. under duress/attack, during recovery, normal operations)	<ul style="list-style-type: none"> COBIT 5 APO08.01, APO08.04, APO08.05, APO10.03, APO10.04, APO10.05 ISO/IEC 27001:2013 A.15.1.1, A.15.1.2, A.15.1.3, A.15.2.1, A.15.2.2 NIST SP 800-53 Rev. 4 CP-2, SA-12 												
			<ul style="list-style-type: none"> COBIT 5 APO02.06, APO03.01 ISO/IEC 27001:2013 Clause 4.1 NIST SP 800-53 Rev. 4 PM-8 												
			<ul style="list-style-type: none"> COBIT 5 APO02.01, APO02.06, APO03.01 ISA 62443-2-1:2009 4.2.2.1, 4.2.3.6 NIST SP 800-53 Rev. 4 PM-11, SA-14 	*	***	***	*	***	***	*	**	*	*	*	**
			<ul style="list-style-type: none"> COBIT 5 APO10.01, BA104.02, BA109.02 ISO/IEC 27001:2013 A.11.2.2, A.11.2.3, A.12.1.3 NIST SP 800-53 Rev. 4 CP-8, PE-9, PE-11, PM-8, SA-14 	*	***	***	*	***	***	*	**	*	*	*	**
			<ul style="list-style-type: none"> COBIT 5 BA103.02, DSS04.02 ISO/IEC 27001:2013 A.11.1.4, A.17.1.1, A.17.1.2, A.17.2.1 NIST SP 800-53 Rev. 4 CP-2, CP-11, SA-13, SA-14 	*	***	***	*	***	***	*	**	*	*	*	**

Cybersecurity Framework

Function	Category	Subcategory
IDENTIFY (ID)	Asset Management (ID.AM)	COBIT 5 APO08.01, APO08.04, APO08.05, APO10.03, APO10.04, APO10.05
	Division Environment (ID.DE)	ISO/IEC 27001:2013 A.15.1.1, A.15.1.2, A.15.1.3, A.15.2.1, A.15.2.2
	Governance (ID.GV)	NIST SP 800-53 Rev. 4 CP-2, SA-12
	Risk Assessment (ID.RA)	COBIT 5 APO02.06, APO03.01
	Risk Management Strategy (ID.RM)	ISO/IEC 27001:2013 Clause 4.1
PROTECT (PR)	Supply Chain Risk Management (ID.SC)	NIST SP 800-53 Rev. 4 PM-8
	Identity Management, Authentication and Access Control (PR.AC)	COBIT 5 APO02.01, APO02.06, APO03.01
	Awareness and Training (PR.AT)	ISA 62443-2-1:2009 4.2.2.1, 4.2.3.6
	Data Security (PR.DS)	NIST SP 800-53 Rev. 4 PM-11, SA-14
	Information Protection Processes and Procedures (PR.IP)	COBIT 5 APO10.01, BA104.02, BA109.02
DETECT (DE)	Maintenance (PR.MA)	ISO/IEC 27001:2013 A.11.2.2, A.11.2.3, A.12.1.3
	Protective Technology (PR.PT)	NIST SP 800-53 Rev. 4 CP-8, PE-9, PE-11, PM-8, SA-14
	Anomalies and Events (DE.AE)	COBIT 5 BA103.02, DSS04.02
	Security Continuous Monitoring (DE.CM)	ISO/IEC 27001:2013 A.11.1.4, A.17.1.1, A.17.1.2, A.17.2.1
	Detection Processes (DE.DP)	NIST SP 800-53 Rev. 4 CP-2, CP-11, SA-13, SA-14
RESPOND (RS)	Response Planning (RS.RP)	COBIT 5 BA103.02, DSS04.02
	Communications (RS.CO)	ISO/IEC 27001:2013 A.11.1.4, A.17.1.1, A.17.1.2, A.17.2.1
	Analysis (RS.AN)	NIST SP 800-53 Rev. 4 CP-2, CP-11, SA-13, SA-14
	Mitigation (RS.MI)	
	Improvements (RS.IM)	
RECOVER (RC)	Recovery Planning (RC.RP)	
	Improvements (RC.IM)	
	Communications (RC.CO)	

CYBERSECURITY FRAMEWORK PROFILE CONTENTS AND USE

CSF Core				Mission Objectives												
Function	Category	Subcategory	Informative References	Mission Objectives												
				1	2	3	4	5	6	7	8	9	10	11	12	
				Ensure Secure and Timely Communications	Plan, Deploy, and Operate Network	Manage Data Collection and Storage	Build Privacy into CV Program	Improve Mobility for Passenger Vehicles	Provide Transportation Efficiency for Commercial Vehicles and Fleets	Manage Users	Assure Asset Security and Operational Viability	Conduct Data Analyses	Minimize Driver Distraction and Workload	Measure and Evaluate Performance	Perform Strategic Communications to Facilitate Business and Driver Adoption	
IDENTIFY (ID)	Asset Management (ID.AM): The data, personnel, devices, systems, and facilities that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to business objectives and the organization's risk strategy.	ID.AM-1: Physical devices and systems within the organization are inventoried	<ul style="list-style-type: none"> CIS CSC 1 COBIT 5 BA08.01, BA09.02 ISA 62443-1:2009 4.2.3.4 ISA 62443-3:2013 SP7.8 ISO/IEC 27001:2013 A.8.1.2 NIST SP 800-53 Rev. 4 CM-PM5 	*	***	*	*	**	***	*	***	*	*	*	*	
		ID.AM-2: Software platforms and applications within the organization are inventoried	<ul style="list-style-type: none"> CIS CSC 2 COBIT 5 BA08.01, BA09.02, BA08.05 ISA 62443-1:2009 4.2.3.4 ISA 62443-3:2013 SP7.8 ISO/IEC 27001:2013 A.8.1.2, A.12.5.1 NIST SP 800-53 Rev. 4 CM-PM5 	*	***	*	*	**	**	*	***	*	*	*	*	
		ID.AM-3: Organizational communication and data flows are mapped	<ul style="list-style-type: none"> CIS CSC 12 COBIT 5 DSS05.02 ISA 62443-1:2009 4.2.3.4 ISO/IEC 27001:2013 A.13.2.1, A.13.2.2 NIST SP 800-53 Rev. 4 AC-CAS, CA-9, PL-3 	*	***	***	*	***	***	*	**	*	*	*	*	**
		ID.AM-4: External information systems are cataloged	<ul style="list-style-type: none"> CIS CSC 12 COBIT 5 APO02.02, APO10.04, DSS01.02 ISO/IEC 27001:2013 A.11.2.6 NIST SP 800-53 Rev. 4 AC-SA-3 	*	**	**	*	**	**	*	***	*	*	*	*	**
		ID.AM-5: Resources (e.g.,	<ul style="list-style-type: none"> CIS CSC 13 COBIT 5 APO03.05 													

Prioritized Subcategories for Each Mission Objective

- Industry and mission/business contexts inform priority Subcategories
 - Suggests areas of focus for newer cybersecurity programs
 - Provides a crosswalk for established programs demonstrate their capabilities
- Three levels:
 - = High Priority
 - = Moderate Priority
 - = Other Implemented Subcategories
- Organizations should strive to conduct activities in support of all relevant Subcategories
- Organizations have the flexibility to determine how and in what order they address High and Moderate Priority Subcategories
- Implementation details may facilitate use

SUMMARY OF SUBCATEGORY PRIORITIES BY MISSION OBJECTIVE

Function	Category	Subcategory	Mission Objectives											
			1	2	3	4	5	6	7	8	9	10	11	12
IDENTIFY (ID)	Asset Management (ID.AM): The data, personnel, devices, systems, and facilities that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to business objectives and the organization's risk strategy.	ID.AM-1: Physical devices and systems within the organization are inventoried	•	••••	•	•	••	••••	•	••••	•	•	•	
		ID.AM-2: Software platforms and applications within the organization are inventoried	•	••••	•	•	••	••	•	••••	•	•	•	
		ID.AM-3: Organizational communication and data flows are mapped	•	••••	••••	•	••••	••••	•	••	•	•	•	
		ID.AM-4: External information systems are catalogued	•	••	••	•	••	••	•	••••	•	•	•	
		ID.AM-5: Resources (e.g., hardware, devices, data, time, personnel, and software) are prioritized based on their classification,	•	••••	••	•	••	••••	•	••••	•	•	•	

FRAMEWORK SUBCATEGORIES

Function	Category	Subcategory	Informative References
IDENTIFY (ID)	Asset Management (ID.AM): The data, personnel, devices, systems, and facilities that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	ID.AM-1: Physical devices and systems within the organization are inventoried	CIS CSC 1 COBIT 5 BAI09.01, BAI09.02 ISA 62443-2-1:2009 4.2.3.4 ISA 62443-3-3:2013 SR 7.8 ISO/IEC 27001:2013 A.8.1.1, A.8.1.2 NIST SP 800-53 Rev. 4 CM-8, PM-5
		ID.AM-2: Software platforms and applications within the organization are inventoried	CIS CSC 2 COBIT 5 BAI09.01, BAI09.02, BAI09.05 ISA 62443-2-1:2009 4.2.3.4 ISA 62443-3-3:2013 SR 7.8 ISO/IEC 27001:2013 A.8.1.1, A.8.1.2, A.12.5.1 NIST SP 800-53 Rev. 4 CM-8, PM-5
		ID.AM-3: Organizational communication and data flows are mapped	CIS CSC 12 COBIT 5 DSS05.02 ISA 62443-2-1:2009 4.2.3.4 ISO/IEC 27001:2013 A.13.2.1, A.13.2.2 NIST SP 800-53 Rev. 4 AC-4, CA-3, CA-9, PL-8
		ID.AM-4: External information systems are catalogued	CIS CSC 12 COBIT 5 APO02.02, APO10.04, DSS01.02 ISO/IEC 27001:2013 A.11.2.6 NIST SP 800-53 Rev. 4 AC-20, SA-9
		ID.AM-5: Resources (e.g. hardware)	CIS CSC 13, 14