

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-01-CDI-01	CDI-01 Communication Network Infrastructure	IDA-01 Communication and Data Infrastructure										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Separate cable networks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 2	Converged network infrastructure	0	+	0	+	+	0	+	0	+	+	0	0	0	0	
level 3	Universal Connectivity Grid (UCG)	0	++	0	++	++	0	++	0	++	++	0	0	0	0	
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-01-CDI-02	CDI-02 Communication Cabling Network Architecture	IDA-01 Communication and Data Infrastructure										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Unstructured cabling design	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 2	Structured cabling design	0	+	0	+	+	0	+	0	+	0	0	0	0	0	
level 3	Level 2 + standardized network components	0	++	0	++	++	0	++	0	++	0	0	0	0	0	
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-01-CDI-03	CDI-03 Integrated Communications Network Infrastructure	IDA-01 Communication and Data Infrastructure										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Multiple proprietary communication networks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 2	A non-singular IP-based network designed to connect main building systems	0	+	0	+	+	0	+	0	+	0	0	0	0	0	
















level 3	A single IP-based network designed to connect all technical systems	0	++	0	++	++	0	++	0	++	0	0	0	0	0	0
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
















CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-01-CDI-04	CDI-04 Level of Integration between Technical Systems (Quantity)	IDA-01 Communication and Data Infrastructure										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Separate systems	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 2	Partial integration between systems	0	+	0	+	+	+	+	+	+	+	0	0	0	+	
level 3	Full integration between systems	0	++	0	++	++	++	++	++	++	++	0	0	0	++	
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
















CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-01-CDI-05	CDI-05 Level of Integration between Technical Systems (Quality)	IDA-01 Communication and Data Infrastructure										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	One-way data interoperability	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 2	One-way data interoperability and functions control	0	+	0	+	+	+	+	+	+	+	0	0	0	+	
level 3	Two-ways data interoperability	0	++	0	++	++	++	++	++	++	++	0	0	0	++	
level 4	Two-way data interoperability and functions control	0	+++	0	+++	+++	+++	+++	+++	+++	+++	0	0	0	+++	

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-01-CDI-06	CDI-06 IoT and Internet Connectivity	IDA-01 Communication and Data Infrastructure										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Short range connectivity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 2	Long range connectivity	0	+	0	+	+	+	0	0	+	0	0	0	0		
level 3	Short + Long range connectivity	0	++	0	++	++	++	0	0	++	0	0	0	0		

level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-01-CDI-07	CDI-07 A/V Cabling and Interface	IDA-01 Communication and Data Infrastructure										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFI-01 Reduced Project Delivery Time and Cost 	EFI-02 Savings from Facility and Asset Management 	EFI-03 Savings from Higher Water and Energy Efficiency 	EFI-04 Increased Appraisal Value and ROI 	EFI-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Conventional A/V cables with proprietary interface	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 2	High-definition A/V cables with proprietary interface	+	0	0	+	0	0	+	+	+	+	0	0	0	0	
level 3	High-definition A/V cables with single universal interface	++	0	0	++	0	0	++	++	++	++	0	0	0	0	
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-01-CDI-08	CDI-08 In-Building Wireless (IBW) System	IDA-01 Communication and Data Infrastructure										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFI-01 Reduced Project Delivery Time and Cost 	EFI-02 Savings from Facility and Asset Management 	EFI-03 Savings from Higher Water and Energy Efficiency 	EFI-04 Increased Appraisal Value and ROI 	EFI-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Macro Wi-Fi coverage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 2	Standard Wi-Fi cabling infrastructure	0	+	0	+	0	+	+	+	+	+	0	0	0	0	
level 3	Scalable IBW solutions	0	++	0	++	0	++	++	++	++	++	0	0	0	0	
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-01-CDI-09	CDI-09 IoT Network Architecture	IDA-01 Communication and Data Infrastructure										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFI-01 Reduced Project Delivery Time and Cost 	EFI-02 Savings from Facility and Asset Management 	EFI-03 Savings from Higher Water and Energy Efficiency 	EFI-04 Increased Appraisal Value and ROI 	EFI-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Basic IoT platform	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 2	Level 1 + middleware capabilities	+	0	0	+	0	0	+	0	+	+	0	0	0	0	
level 3	Level 2 + integrated connectivity	++	0	0	++	0	0	++	0	++	++	0	0	0	0	
level 4	Level 3 + ubiquitous computing	+++	0	0	+++	0	0	+++	0	+++	+++	0	0	0	0	



CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-02-EG-01	EG-01 On-Site Renewable Energy Production	IDA-02 Energy Generation										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	10% of TAC	0	0	+	+	0	0	0	0	0	0	+	+	+	0	
level 2	25% of TAC	0	0	++	++	0	0	0	0	0	0	++	++	++	0	
level 3	>50% of TAC	0	0	+++	+++	0	0	0	0	0	0	+++	+++	+++	0	
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-02-EG-02	EG-02 Green Energy Procurement	IDA-02 Energy Generation										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	10% of TAC	0	0	+	+	0	0	0	0	0	0	+	+	+	0	
level 2	25% of TAC	0	0	++	++	0	0	0	0	0	0	++	++	++	0	
level 3	>50% of TAC	0	0	+++	+++	0	0	0	0	0	0	+++	+++	+++	0	
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-02-EG-03	EG-03 Smart Energy Metering & Benchmarking	IDA-02 Energy Generation										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Periodic energy metering	0	+	+	+	0	0	0	0	0	0	+	+	0	+	0
level 2	Advanced and automated metering infrastructure	0	++	++	++	0	0	0	0	0	0	++	++	0	++	0

level 3	IoT-based real-time energy metering	0	+++	+++	+++	0	0	0	0	0	0	+++	+++	0	+++	0
level 4	Level 3 + sub-metering	0	++++	++++	++++	0	0	0	0	0	0	++++	++++	0	++++	0

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-02-EG-04	EG-04 Energy Storage & Distribution	IDA-02 Energy Generation										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 1	Onsite-energy storage	0	+	+	0	0	0	0	0	0	0	+	+	0	+	0
level 2	Distributed Energy Storage System (DESS)	0	++	++	0	0	0	0	0	0	0	++	++	0	++	0
level 3	Dynamic grid integration	0	+++	+++	0	0	0	0	0	0	0	+++	+++	0	+++	0
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-02-EG-05	EG-05 Uninterruptible Power Supply	IDA-02 Energy Generation										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 1	Manual back-up power	0	+	+	0	0	0	0	0	0	0	+	+	0	+	0
level 2	Integrated UPS system	0	++	++	0	0	0	0	0	0	0	++	++	0	++	0
level 3	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-02-EG-06	EG-06 Power over the Ethernet	IDA-02 Energy Generation										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 1	Conventional POE network	0	+	+	+	0	0	+	+	0	+	+	0	+	0	0
level 2	Level 1 + LED lighting fixtures	0	++	++	++	0	0	++	++	0	++	++	0	++	0	0
level 3	Level 2 + Wi-Fi access points	0	+++	+++	+++	0	0	+++	+++	0	+++	+++	0	+++	0	0

level 4	Multi-purpose POE network	0	+++	+++	+++	0	0	+++	+++	0	+++	+++	+++	0	+++	0
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CODE	CAPABILITY	DOMAIN										INPUT PILLAR					
IDA-03-SSW-01	SSW-01 Building Access Administration	IDA-03 Safety, Security, and Well-being										Infrastructure, Devices & Applications					
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS															
		EFF-01	EFF-02	EFF-03	EFF-04	EFF-05	SBI-01	SBI-02	SBI-03	SBI-04	SBI-05	ENVI-01	ENVI-02	ENVI-03	ENVI-04	ENVI-05	
		Reduced Project Delivery Time and Cost	Savings from Facility and Asset Management	Savings from Higher Water and Energy Efficiency	Increased Appraisal Value and ROI	Savings from Capital Expenditure	Increased Safety, Security, and Emergency Response	Increased Access to Information and Occupants Control	Increased Comfort and Convenience	Improved Equity, Diversity, and Inclusion	Increased Productivity, Health and Wellbeing	Reduced Waste Generation	Increased Use of Renewables and Grid Stability	Efficient Use of Natural Resources	Improved Environmental Impacts	Increased Water Efficiency and Demand Control	
		level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		level 1	Discretionary access management	0	+	0	0	0	+	+	0	0	0	0	0	0	0
		level 2	Role-based access management	0	++	0	0	0	++	++	0	0	0	0	0	0	0
level 3	Rule-based access management	0	+++	0	0	0	+++	+++	0	0	0	0	0	0	0		
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

CODE	CAPABILITY	DOMAIN										INPUT PILLAR					
IDA-03-SSW-02	SSW-02 Access Control Integration	IDA-03 Safety, Security, and Well-being										Infrastructure, Devices & Applications					
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS															
		EFF-01	EFF-02	EFF-03	EFF-04	EFF-05	SBI-01	SBI-02	SBI-03	SBI-04	SBI-05	ENVI-01	ENVI-02	ENVI-03	ENVI-04	ENVI-05	
		Reduced Project Delivery Time and Cost	Savings from Facility and Asset Management	Savings from Higher Water and Energy Efficiency	Increased Appraisal Value and ROI	Savings from Capital Expenditure	Increased Safety, Security, and Emergency Response	Increased Access to Information and Occupants Control	Increased Comfort and Convenience	Improved Equity, Diversity, and Inclusion	Increased Productivity, Health and Wellbeing	Reduced Waste Generation	Increased Use of Renewables and Grid Stability	Efficient Use of Natural Resources	Improved Environmental Impacts	Increased Water Efficiency and Demand Control	
		level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		level 1	Single non-integrated access control	0	+	0	0	0	+	+	0	0	+	0	0	0	0
		level 2	integrated access control network	0	++	0	0	0	++	++	0	0	++	0	0	0	0
level 3	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

CODE	CAPABILITY	DOMAIN										INPUT PILLAR					
IDA-03-SSW-03	SSW-03 Access Control Systems	IDA-03 Safety, Security, and Well-being										Infrastructure, Devices & Applications					
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS															
		EFF-01	EFF-02	EFF-03	EFF-04	EFF-05	SBI-01	SBI-02	SBI-03	SBI-04	SBI-05	ENVI-01	ENVI-02	ENVI-03	ENVI-04	ENVI-05	
		Reduced Project Delivery Time and Cost	Savings from Facility and Asset Management	Savings from Higher Water and Energy Efficiency	Increased Appraisal Value and ROI	Savings from Capital Expenditure	Increased Safety, Security, and Emergency Response	Increased Access to Information and Occupants Control	Increased Comfort and Convenience	Improved Equity, Diversity, and Inclusion	Increased Productivity, Health and Wellbeing	Reduced Waste Generation	Increased Use of Renewables and Grid Stability	Efficient Use of Natural Resources	Improved Environmental Impacts	Increased Water Efficiency and Demand Control	
		level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		level 1	Physical card/tag-based access control	0	+	0	+	0	+	+	0	0	+	0	0	0	0
		level 2	Smartphone/device-based access control	0	++	0	++	0	++	++	0	0	++	0	0	0	0

level 3	Level 2 + multi-methods authentication	0	+++	0	+++	0	+++	+++	0	0	+++	0	0	0	0	0
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-03-SSW-04	SSW-04 Surveillance Systems	IDA-03 Safety, Security, and Well-being										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBB-01 Increased Safety, Security, and Emergency Response 	SBB-02 Increased Access to Information and Occupants Control 	SBB-03 Increased Comfort and Convenience 	SBB-04 Improved Equity, Diversity, and Inclusion 	SBB-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 1	Surveillance cameras at building's entrances	+	+	0	0	0	+	+	0	0	+	0	0	0	0	0
level 2	Surveillance cameras at strategic locations	++	++	0	0	0	++	++	0	0	++	0	0	0	0	0
level 3	Integrated surveillance system	+++	+++	0	0	0	+++	+++	0	0	+++	0	0	0	0	0
level 4	Level 3 + real-time analytics system	++++	++++	0	0	0	++++	++++	0	0	++++	0	0	0	0	0

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-03-SSW-05	SSW-05 Occupancy Detection System	IDA-03 Safety, Security, and Well-being										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBB-01 Increased Safety, Security, and Emergency Response 	SBB-02 Increased Access to Information and Occupants Control 	SBB-03 Increased Comfort and Convenience 	SBB-04 Improved Equity, Diversity, and Inclusion 	SBB-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 1	People counting at the building entrances	0	+	+	0	+	+	+	0	0	+	0	0	0	0	0
level 2	Occupancy detection at public spaces	0	++	++	0	++	++	++	0	0	++	0	0	0	0	0
level 3	IoT-based occupancy detection network	0	+++	+++	0	+++	+++	+++	0	0	+++	0	0	0	0	0
level 4	Level 3 + occupancy pattern and behavior tracking	0	++++	++++	0	++++	++++	++++	0	0	++++	0	0	0	0	0

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-03-SSW-06	SSW-06 Fire Prevention System	IDA-03 Safety, Security, and Well-being										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBB-01 Increased Safety, Security, and Emergency Response 	SBB-02 Increased Access to Information and Occupants Control 	SBB-03 Increased Comfort and Convenience 	SBB-04 Improved Equity, Diversity, and Inclusion 	SBB-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 1	Standalone smoke detectors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 2	Smoke detector network connected to fire control panel	0	0	0	+	0	+	0	0	+	+	0	0	0	0	0
level 3	Level 2 + heat detectors	0	0	0	++	0	++	0	0	++	++	0	0	0	0	0

level 4	Integrated fire prevention and suppression system	0	0	0	+++	0	+++	0	0	0	0	0	0	0	0	0
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CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-03-SSW-07	SSW-07 Carbon Monoxide Detection System	IDA-03 Safety, Security, and Well-being										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFI-01 Reduced Project Delivery Time and Cost 	EFI-02 Savings from Facility and Asset Management 	EFI-03 Savings from Higher Water and Energy Efficiency 	EFI-04 Increased Appraisal Value and ROI 	EFI-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 1	Standalone carbon monoxide detectors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 2	Carbon monoxide detector network connected to gas control panel	+	0	0	0	+	0	0	0	+	+	0	0	0	0	0
level 3	Integrated carbon monoxide detection system	++	0	0	0	++	0	0	0	++	++	0	0	0	0	0
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-03-SSW-08	SSW-08 Visitor Management System	IDA-03 Safety, Security, and Well-being										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFI-01 Reduced Project Delivery Time and Cost 	EFI-02 Savings from Facility and Asset Management 	EFI-03 Savings from Higher Water and Energy Efficiency 	EFI-04 Increased Appraisal Value and ROI 	EFI-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 1	Analogue check-in/ visitor registration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 2	Digital visitors' registration application	0	0	0	+	0	+	+	+	0	0	0	0	0	0	0
level 3	Integrated visitor registration and management system	0	0	0	++	0	++	++	++	0	0	0	0	0	0	0
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-03-SSW-09	SSW-09 Indoor Environment Monitoring System	IDA-03 Safety, Security, and Well-being										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFI-01 Reduced Project Delivery Time and Cost 	EFI-02 Savings from Facility and Asset Management 	EFI-03 Savings from Higher Water and Energy Efficiency 	EFI-04 Increased Appraisal Value and ROI 	EFI-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 1	Single IEQ element monitoring	0	+	+	0	+	+	+	+	0	+	+	+	+	+	+
level 2	Multi IEQ elements monitoring	0	++	++	0	++	++	++	++	0	++	++	++	++	++	++
level 3	IoT-based IEQ monitoring system	0	+++	+++	0	+++	+++	+++	+++	0	+++	+++	+++	+++	+++	+++
level 4	Integrated IEQ monitoring system	0	++++	++++	0	++++	++++	++++	++++	0	++++	++++	++++	++++	++++	++++

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-04-SP-01	SP-01 Parking Guidance System	IDA-04 Smart Parking										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	External parking signage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 2	External detailed parking signage (total counts + type of available lots, zones)	0	+	0	+	0	+	+	+	0	+	0	0	0	0	
level 3	Level 2 + internal signage and indicators	0	++	0	++	0	++	++	++	0	++	0	0	0	0	
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-04-SP-02	SP-02 Unauthorized Occupancy Detection System	IDA-04 Smart Parking										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Manual parking audit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 2	Automated detection system	0	+	0	0	0	+	+	+	0	0	0	0	0	0	
level 3	Integrated detection and reporting system	0	++	0	0	0	++	++	++	0	0	0	0	0	0	
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-04-SP-03	SP-03 Parking Payment System	IDA-04 Smart Parking										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Response 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Manual payment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 2	Onsite vending machine	0	+	0	0	0	+	+	+	0	0	0	0	0	0	

level 3	At-gate payment system	0	++	0	0	0	++	++	++	0	0	0	0	0	0
level 4	App-based payment	0	+++	0	0	0	+++	+++	+++	0	0	0	0	0	0

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-04-SP-04	SP-04 Parking Mobile Application Services	IDA-04 Smart Parking										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBB-01 Increased Safety, Security, and Emergency Response 	SBB-02 Increased Access to Information and Occupants Control 	SBB-03 Increased Comfort and Convenience 	SBB-04 Improved Equity, Diversity, and Inclusion 	SBB-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Parking occupancy information	0	+	0	0	0	+	+	+	0	0	0	0	0	0	
level 2	Parking Booking Services	0	++	0	0	0	++	++	++	0	0	0	0	0	0	
level 3	Parking navigation services	0	+++	0	0	0	+++	+++	+++	0	0	0	0	0	0	
level 4	EV charging information	0	++++	0	0	0	++++	++++	++++	0	0	0	0	0	0	

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-04-SP-05	SP-05 On-site EV Charging Station	IDA-04 Smart Parking										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBB-01 Increased Safety, Security, and Emergency Response 	SBB-02 Increased Access to Information and Occupants Control 	SBB-03 Increased Comfort and Convenience 	SBB-04 Improved Equity, Diversity, and Inclusion 	SBB-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Public EV charging pole	0	+	+	0	+	+	+	+	+	0	0	+	0	+	
level 2	Building's designated EV charging Pole	0	++	++	0	++	++	++	++	++	0	++	0	++	0	
level 3	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-04-SP-06	SP-06 On-Demand Charging	IDA-04 Smart Parking										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBB-01 Increased Safety, Security, and Emergency Response 	SBB-02 Increased Access to Information and Occupants Control 	SBB-03 Increased Comfort and Convenience 	SBB-04 Improved Equity, Diversity, and Inclusion 	SBB-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Dumb charging	0	+	+	0	+	+	+	+	0	0	+	0	+	0	
level 2	Dumb charging for set time	0	++	++	0	++	++	++	++	0	0	++	0	++	0	
level 3	Adaptive time charging	0	+++	+++	0	+++	+++	+++	+++	0	0	+++	0	+++	0	



Input Pillar: Infrastructure, Devices & Applications

Domain: IDA-05 HVAC Systems and Sensors

IDA-05-HVACSS

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-05-HVACSS-01	HVACSS-01 Heating/Cooling Emission Control Equipment	IDA-05 HVAC Systems and Sensors										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency ReHVACSSense 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Thermostatic valves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 2	Digital controller	0	+	+	+	0	0	+	0	+	+	0	+	0		
level 3	BMS-integrated controller	0	++	++	++	0	0	++	0	++	++	++	++	0		
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0		

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-05-HVACSS-02	HVACSS-02 Air Flow Rate and Pressure Configuration	IDA-05 HVAC Systems and Sensors										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency ReHVACSSense 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0		
level 1	On/Off time configuration	0	0	0	0	0	0	0	0	0	0	0	0	0		
level 2	Multi-stage configuration	0	+	+	+	0	0	+	0	+	+	0	+	0		
level 3	Automatic flow rate/pressure configuration	0	++	++	++	0	0	++	0	++	++	++	++	0		
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0		

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-05-HVACSS-03	HVACSS-03 Distribution Pumps in Network	IDA-05 HVAC Systems and Sensors										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency ReHVACSSense 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0		
level 1	On/Off time configuration	0	0	0	0	0	0	0	0	0	0	0	0	0		
level 2	Multi-stage configuration	0	+	+	+	0	0	+	0	+	+	0	+	0		



CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-06-ICL-01	ICL-01 Lighting Control's Coverage	IDA-06 Intelligent and Connected Lighting										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Resilience 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Floor level-based control	0	+	+	+	0	0	0	+	+	0	+	+	0	+	0
level 2	Room-based control	0	++	++	++	0	0	0	++	++	0	++	++	0	++	0
level 3	Zone-based control	0	+++	+++	+++	0	0	0	+++	+++	0	+++	+++	0	+++	0
level 4	Fixture-based control	0	++++	++++	++++	0	0	0	++++	++++	0	++++	++++	0	++++	0

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-06-ICL-02	ICL-02 Lighting Control's Automation	IDA-06 Intelligent and Connected Lighting										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Resilience 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 1	Manual on/off switch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 2	Programmed control	0	+	+	+	0	0	0	+	+	0	+	+	0	+	0
level 3	Automated single-factor control	0	++	++	++	0	0	0	++	++	0	++	++	0	++	0
level 4	Automated multi-factor control	0	+++	+++	+++	0	0	0	+++	+++	0	+++	+++	0	+++	0

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-06-ICL-03	ICL-03 Lighting Control's Flexibility	IDA-06 Intelligent and Connected Lighting										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency Resilience 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 1	Manual on/off switch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 2	Multi-Illuminance level control	0	+	+	+	0	0	0	+	+	+	+	+	0	+	0

level 3	Level 2 + multi-lighting fixtures controls	0	++	++	++	0	0	0	++	++	++	++	++	0	++	0
level 4	Luminaire-Level Space Lighting Control (LLC)	0	+++	+++	+++	0	0	0	+++	+++	+++	+++	+++	0	+++	0

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-06-ICL-04	ICL-04 Interior Lighting Fixtures	IDA-06 Intelligent and Connected Lighting										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency ReliCense 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 1	Traditional lighting fixtures (non-LED)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
level 2	LED lighting fixtures	0	+	+	+	0	0	0	+	+	+	+	+	0	+	0
level 3	Level 2 + dimmable lighting fixtures	0	++	++	++	0	0	0	++	++	++	++	++	0	++	0
level 4	Level 3 + color tunable lighting fixtures	0	+++	+++	+++	0	0	0	+++	+++	+++	+++	+++	0	+++	0

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-07-DBE-01	DBE-01 Shading System Control	IDA-07 Dynamic Building Envelop										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency ReDBEonse 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Manual operation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 2	Programmed operation	0	+	+	0	0	0	+	0	+	+	+	+	0		
level 3	IoT-based operation	0	++	++	0	0	0	++	0	++	++	++	++	0		
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0		

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-07-DBE-02	DBE-02 Operable Windows Control	IDA-07 Dynamic Building Envelop										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency ReDBEonse 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0		
level 1	Manual operation	0	0	0	0	0	0	0	0	0	0	0	0	0		
level 2	Programmed operation	0	+	+	0	0	0	+	0	+	+	+	+	0		
level 3	IoT-based operation	0	++	++	0	0	0	++	0	++	++	++	++	0		
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0		

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-07-DBE-03	DBE-03 Shading System Components	IDA-07 Dynamic Building Envelop										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency ReDBEonse 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0		
level 1	Operable exterior shading system	0	0	0	0	0	0	0	0	0	0	0	0	0		
level 2	Level 1 + Interior shading/blind system	0	+	+	0	0	0	+	0	+	+	+	+	0		



CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-08-HDSS-01	HDSS-01 Smart Flush Toilets/Urinals	IDA-08 Hydraulic Devices, Systems & Sensors										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency ReHDSSonse 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Automatic flushing based on proximity sensor	0	+	+	+	0	0	0	+	0	0	+	+	+	+	
level 2	Level 1 + low flow/ water efficient based on water sensors	0	++	++	++	0	0	0	++	0	0	++	++	++	++	
level 3	Level 2 + overflow protection	0	+++	+++	+++	0	0	0	+++	0	0	+++	+++	+++	+++	
level 4	Level 3 + built-in tank leak sensors with alert system	0	++++	++++	++++	0	0	0	++++	0	0	++++	++++	++++	++++	

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-08-HDSS-02	HDSS-02 Smart Faucets	IDA-08 Hydraulic Devices, Systems & Sensors										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency ReHDSSonse 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Automatic on/off based on proximity or touch sensor	0	+	+	+	0	0	0	+	0	0	+	+	+	+	
level 2	Level 1 + low flow/ water efficient use based on water sensors	0	++	++	++	0	0	0	++	0	0	++	++	++	++	
level 3	Level 2 + overflow protection	0	+++	+++	+++	0	0	0	+++	0	0	+++	+++	+++	+++	
level 4	Level 3 + built-in faucet and supply pipe leak sensors with alert system	0	++++	++++	++++	0	0	0	++++	0	0	++++	++++	++++	++++	

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-08-HDSS-03	HDSS-03 Smart Water Meters	IDA-08 Hydraulic Devices, Systems & Sensors										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency ReHDSSonse 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Traditional water metering	0	+	+	0	0	0	+	0	0	0	+	0	0	+	
level 2	Advanced and automated metering	0	++	++	0	0	0	++	0	0	0	++	0	0	++	

level 3	Level 2 + sub-metering network	0	+++	+++	0	0	0	+++	0	0	0	+++	0	0	0	+++
level 4	IoT-based real-time water metering	0	++++	++++	0	0	0	++++	0	0	0	++++	0	0	0	++++

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-09-VT-01	VT-01 Lift / Elevator Dispatching	IDA-09 Vertical Transport										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency ReVtense 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Conventional dispatching control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 2	Smart grouping system	0	+	+	+	+	+	+	+	+	0	+	0	0	0	
level 3	IoT-based dispatching	0	++	++	++	++	++	++	++	++	0	++	0	0	0	
level 4	Demand-based dispatching	0	+++	+++	+++	0	+++	+++	+++	+++	0	+++	0	0	0	

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-09-VT-02	VT-02 Lift / Elevator power recovery	IDA-09 Vertical Transport										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency ReVtense 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Power recovery with capacitor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 2	UPS-integrated power recovery	0	+	+	+	+	+	0	0	0	+	+	+	+	0	
level 3	Level 2 + smart grid integration	0	++	++	++	++	++	0	0	0	++	++	++	++	0	
level 4	//	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

CODE	CAPABILITY	DOMAIN										INPUT PILLAR				
IDA-09-VT-03	VT-03 Lift / Elevator Energy Consumption	IDA-09 Vertical Transport										Infrastructure, Devices & Applications				
LEVEL OF INTELLIGENCE INDICATORS		IMPACT/ OUTCOME PILLARS & DOMAINS														
		EFF-01 Reduced Project Delivery Time and Cost 	EFF-02 Savings from Facility and Asset Management 	EFF-03 Savings from Higher Water and Energy Efficiency 	EFF-04 Increased Appraisal Value and ROI 	EFF-05 Savings from Capital Expenditure 	SBI-01 Increased Safety, Security, and Emergency ReVtense 	SBI-02 Increased Access to Information and Occupants Control 	SBI-03 Increased Comfort and Convenience 	SBI-04 Improved Equity, Diversity, and Inclusion 	SBI-05 Increased Productivity, Health and Wellbeing 	ENVI-01 Reduced Waste Generation 	ENVI-02 Increased Use of Renewables and Grid Stability 	ENVI-03 Efficient Use of Natural Resources 	ENVI-04 Improved Environmental Impacts 	ENVI-05 Increased Water Efficiency and Demand Control 
level 0	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 1	Conventional vertical transport	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
level 2	High-performance vertical transport	0	+	+	+	+	+	0	0	0	+	+	+	+	0	

