



# e-BO Enterprises

*a brief intro*

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# Delivering TRUST for your critical business

By technology integration of  
IT, OT and Software systems

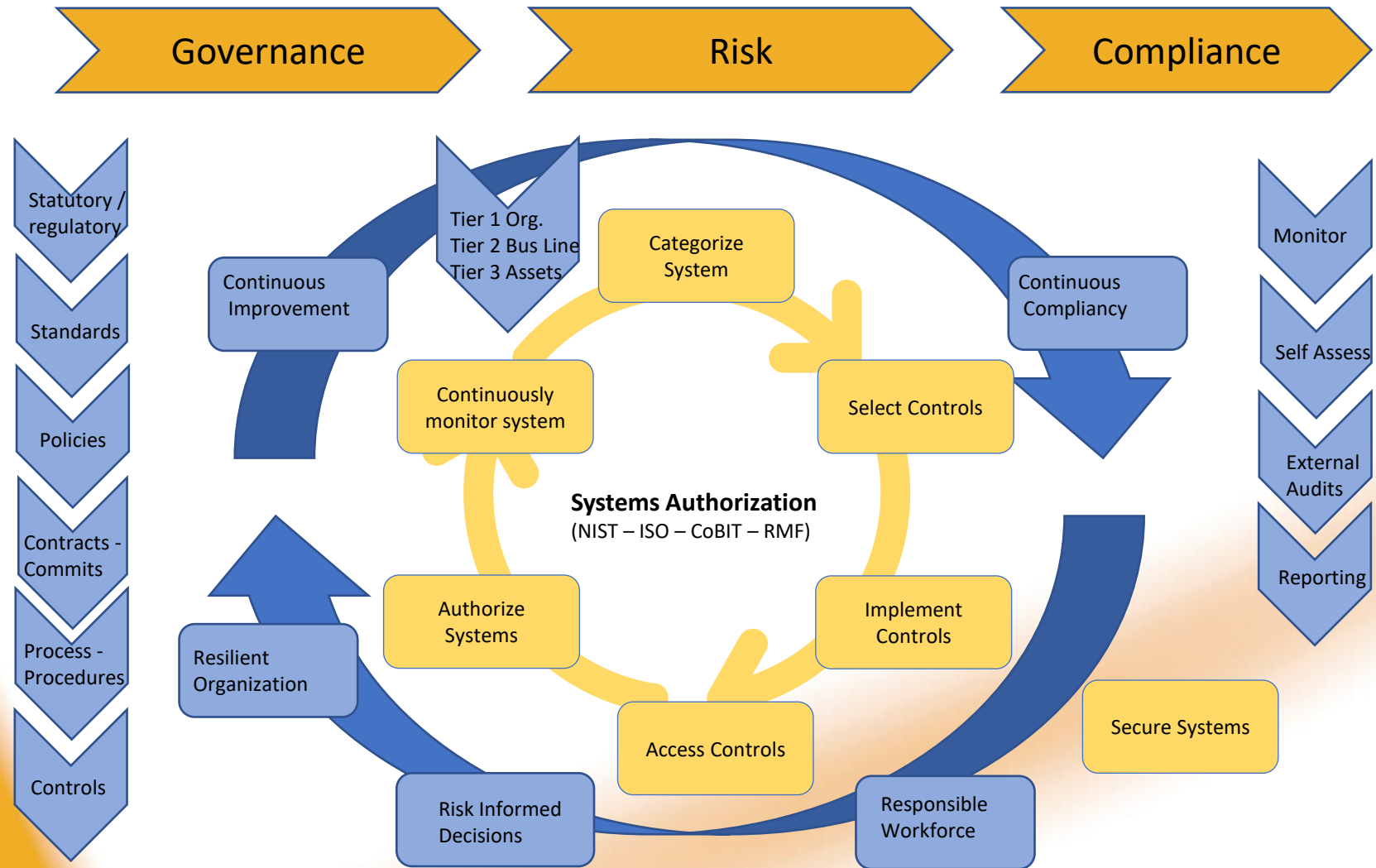
Spanning the digital transformation journey in support of  
Industry 4.0 & 5.0 adoption



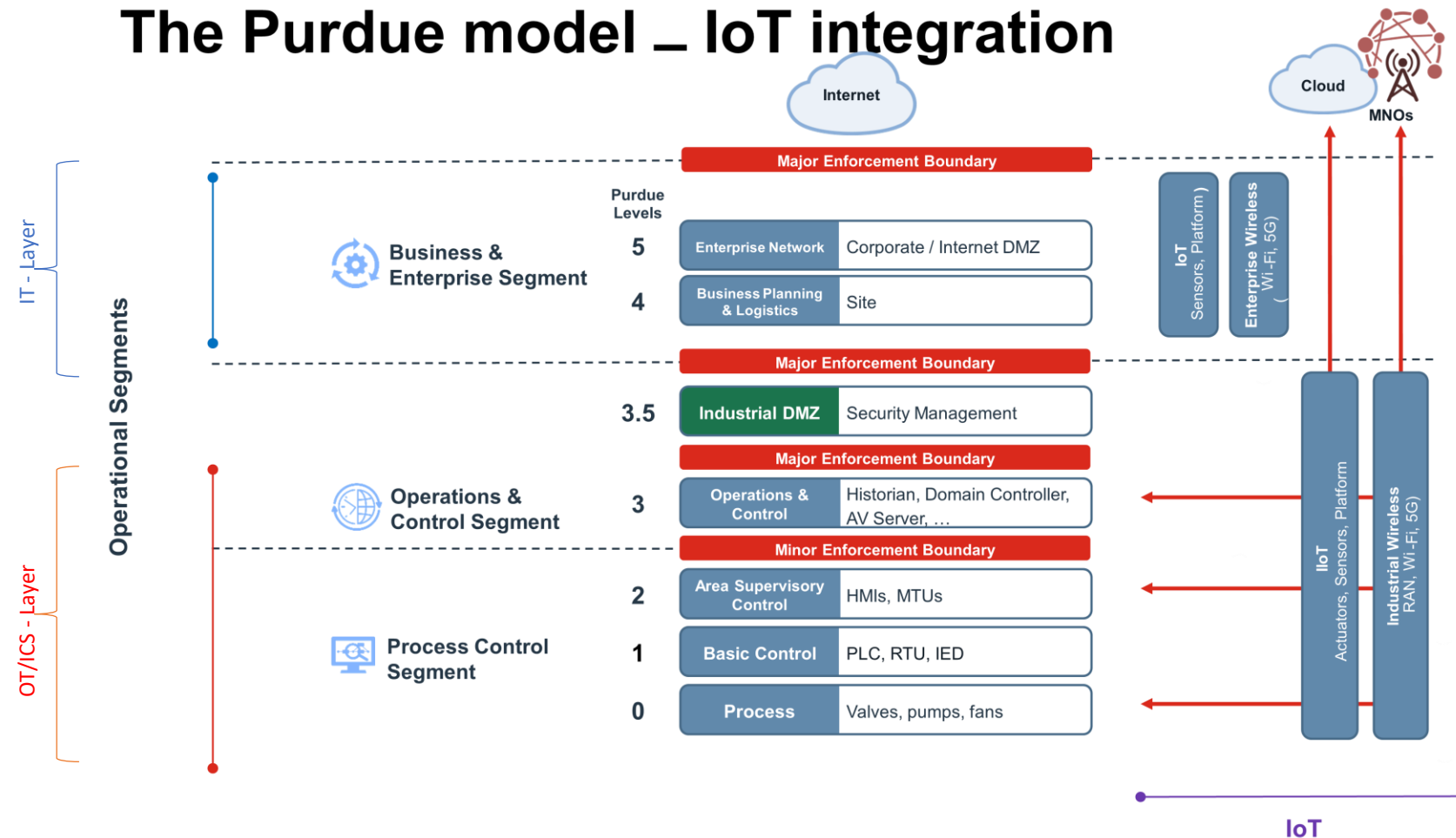
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# Operational Governance model



# The Purdue Model as a base Framework

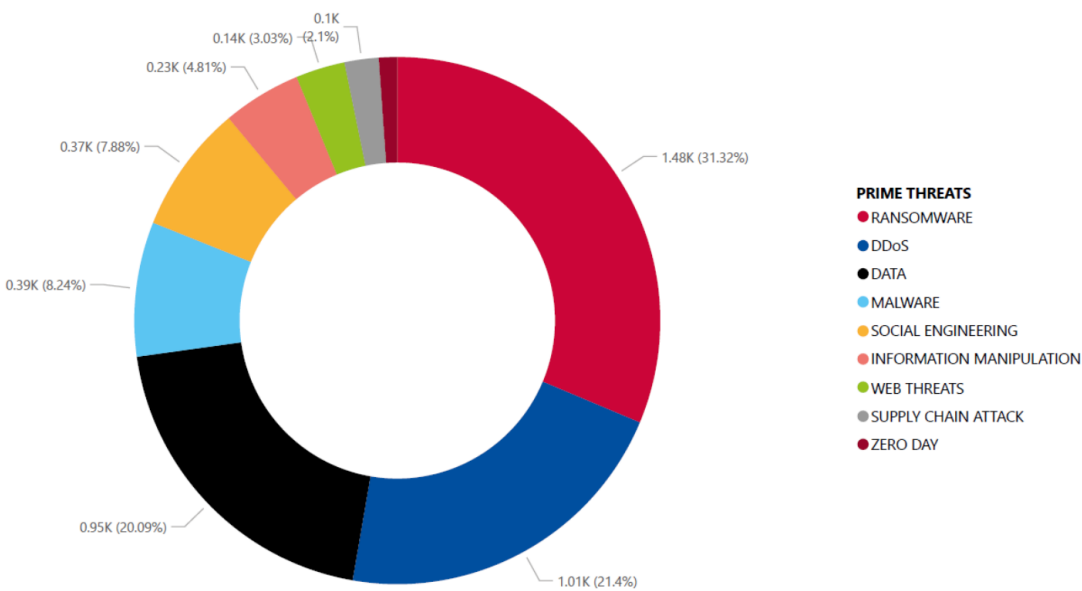


# CyberSecurity Threat Landscape – Enisa

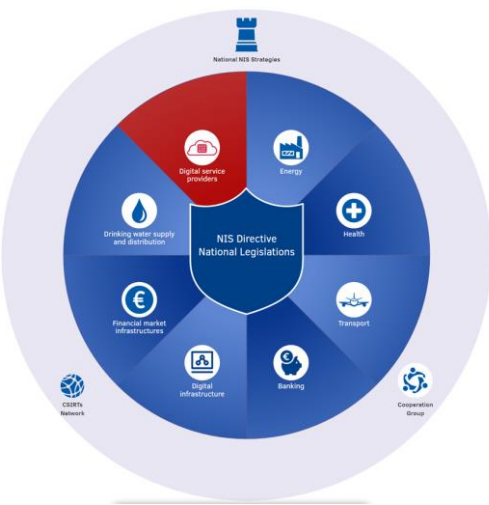
Figure 1: ENISA Threat Landscape 2022 - Prime threats



Figure 2: Breakdown of analysed incidents by threat type (July 2022 till June 2023)



[NIS Directive tool — ENISA \(europa.eu\)](https://europa.eu/nis-directive-tool)



# NIS-2 Scope Centre for CyberSecurity BE

Sector	Subsector	Jurisdiction	NIS-1 & CER entities (+ equivalent)	Large entities (more than 250 employees or more than 50 million revenue)	Medium (more than 50 employees or more than 10million revenue)	Small & Micro
Annex I: Sectors of high criticality						
1. Energy	Electricity; district Heating &cooling; Gas; Hydrogen; oil;	The Member State(s) where it is established	Essential	Essential	Important, except if identified as essential by Member State	Not in Scope, except if identified as essential or important by national authorities due to sole service, significant impact, essential to society
2. Transport	Air; Water; Rail; Road					
	Special case: Public Transport: only if identified as CER					
3. Banking	Credit institutions (attention: DORA lex specialis)					
4. Financial Market Infrastructure	Trading venues, central counterparties (attention: DORA lex specialis)					
5. Health	Healthcare providers; EU reference laboratories; R&D of medicinal products; manufacturing basic pharma products and preparations; manufacturing of medical devices critical during public health emergency Special case: entities holding a distribution authorization for medicinal products: only if identified as CER					
6. Drinking Water						
7. Waste Water	(only if it is an essential part of their general activity)					
8. Digital Infrastructure	Qualified trust service providers	One stop: Only the MS where they have their main establishment	Essential	Essential		
	DNS service providers (excluding root name servers)					
	TLD name registries	Member State in which they provide their services	Essential	Essential		
	Providers of public electronic communications networks					
	Non-qualified trust service providers	The Member State(s) where it is established		Essential	Important, except if identified as essential by Member State	Important, except if identified as essential based on National risk assessment
	Internet Exchange Point providers					
	Cloud computing service providers					
	Data centre service providers					
	Content delivery network providers					
	Managed (Security) Service Providers					
8a. ICT-service management		MS that established them	Essential			
9. Public Administration entities	Of central governments (excluding judiciary, parliaments, central banks; defence, national or public security). Of regional governments: risk based. (Optional for Member States: of local governments)					
	Operators of ground-based infrastructure (by MS)		The Member State(s) where it is established	Essential	Important, except if identified as essential by Member State	Not in Scope, except if identified as essential or important
Annex II: other critical sectors						
1. Postal and courier services		The Member State(s) where it is established	Essential	Important, except if identified as essential by Member State		
2. Waste Management	(only if principal economic activity)					
3. Chemicals	Manufacture, production, distribution					
4. Food	Production, processing and distribution					
5. Manufacturing	(in vitro diagnostic) medical devices; computer, electronic, optical products; electrical equipment; machinery; motor vehicles, trailers, semi-trailers; other transport equipment (NACE C 26-30)					
6. Digital providers	online marketplaces, search engines, social networking	One stop: Only the MS where they have Main establishment	Important, except if identified as essential by Member State			
7. Research	Research organisations (excluding education institutions)	Member State(s) where established				
Entities providing domain name registration services		One stop: Only the MS where they have Main establishment	All sizes, but only subject to Article 3(3) and Article 28			

## NIS2 Directive Enhancing Cybersecurity

- *Broader scope*  
cross sector and organizations
- *Risk Management & Cyber Resilience*  
Incident response plans
- *Incident Reporting & Cooperation*  
Report cyber incidents / quicker response
- *Security Measures & Requirements*  
Ensure baseline level security
- *Penalties & Enforcement*  
Stronger incentive to adhere to the requirements
- *Security Culture & Awareness*  
Well-informed workforce to protect valuable assets & respond to threats
- *Continuous Improvement*  
Regularly update & adapt to evolving threats
- *Cross-Border Cooperation*  
Coordinated response to potential cyber incidents

# Industrial Security op's Centre



IEC 62443 – ISO27001 – NIS2 ready

# Foundations for a Sustainable OT Security Program

## Define Goals



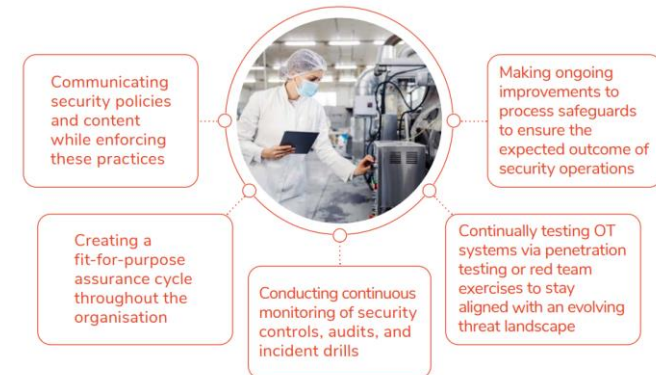
## Program design & controls



## Control Deployment

- 1 The OT programme management should carefully plan for the entire remediation period and have their main specialists evaluate architecture designs, planned controls and component purchases, and align these with other functional upgrades and planned downtime.
- 2 The management team should break the master schedule down into phases, with related timetables for purchase and integration.
- 3 The management team should share these planned timetables with engineering and plant operations teams to limit the impact on existing systems, ongoing operations, and feasibility checks.
- 4 With engineering-level approval, the OT programme managers should then share plans with executive teams for final purchasing approval.

## Maximize Long term impact



# Evolution of Security Services – NIS2

## Specialized Services

- **Specialized OT Security Services**
- **Compliance & NIS2 alignment**
- **Incident Response Services**
- **Risk Assessment & Management**

## Continuous Enablement & Awareness

- **Training & awareness programs for OT staff**
- **Continuous monitoring of OT Networks & advanced anomaly detection**
- **Secure-by-Design approach for OT/ICS systems**

## Collaboration & Communication

- **Cross sector collaboration among organizations & critical infrastructure sectors**
- **Managed security services, freeing organizations to focus on core operations while ensuring security of critical assets**



Corporate Market

- OT/ICS convergence
- Industrial Cyber Security
- Safeguarding physical assets
- Operational IT Service across Europe

## Public safety – Firefighting

Enterprises service bus for fire  
brigades

Analyzing all applications and sensor  
data with graphical dashboards

Standardizing and exchanging data  
across zones

Unified communication services



## Public safety- Defence

Defence classified networks through  
cloud technology for secured data  
distribution

Information exchange gateways for  
cross-domain security

Secured remote access



## *e-BO Market*

## Private 5G networks

Providing private 5G networks for critical and  
zero latency operations (e.g. drones for surveillance, health care, ...)



## Public safety - Coast Guard

Maritime Situational Awareness & Incident  
Response Management

## Renewable Energy

The beating heart of your wind farm is digital

OT Security protecting your assets



**Securing**  
what's critical

Industrial OT Security  
IEC62443 & NIS2 Compliance



**Offshare**

One platform for every  
business activity in your  
offshore wind farm



**OSS in a BOX**  
CONNECT · CONTROL · CONVERT

An integrated and cyber secure  
solution with all necessary  
equipment



Thank You

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