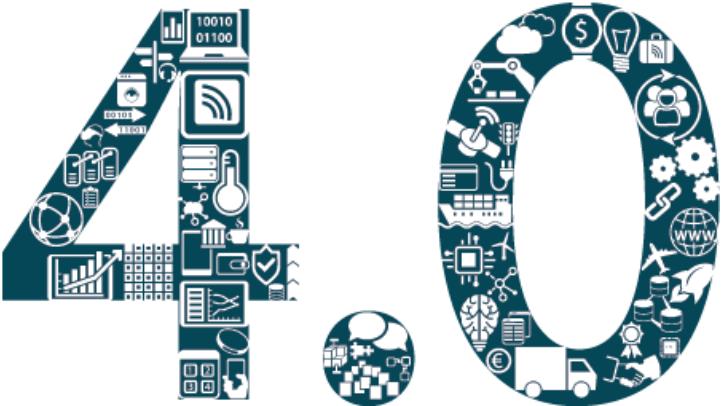


INDUSTRY



Revolution

Presented by:

Ahmed Gomaa

Operational Technology Consultant
Senior Automation Engineer



ABOUT IKEN

IKEN helps organizations become more lean, sustainable, & more profitable through achieving operational excellence, improved assets utilization, optimized production, and enhanced supply chain responsiveness.

IKEN is an industry 4.0 technologies value integrator, providing best specialized business solutions using sensors, applications, big data, analytics, artificial intelligence & actuators with necessary digital security protection to deliver outstanding business results aligned with customers' goals and strategy.

IKEN with its shareholding company ACT (Advanced Computer Technology) have more than 500 employees, 30+ years of market experience, and 100s of references in many sectors, enabling customers to successfully overcome their pressing business challenges such as productivity, quality, and competitiveness by integrating digital transformation emerging technologies to match each customer's specific business challenges.

MISSION

“Optimizing the ROI of our customers through leading resilient & secure Industry 4.0 Digital Transformation by providing best emerging technology solutions with highest quality personalized service.”

**“To become Middle-East & Africa best integrator delivering resilient & secure
Industry 4.0 Digital Transformation.”**

What we Do?

Organizational Transformation Services

- Industry 4.0 Organizational Readiness Assessment
- Organizational Governance
- Organizational Development based on Best Practices optimized for the Egyptian Market

Industry 4.0 Applications

- Modeling & Simulation
- Integrated Dashboarding
- Advanced Analytics & Big Data
- Digital Twinning
- Artificial Intelligence
- Predictive Maintenance
- Responsive Human Interfacing
- Vertical and Horizontal Integration
- Reverse Engineering
- Additive Manufacturing

Digital Security

- GRC Service
- VAPT Covering IT, OT and IOT Environments
- Strategy & Governance
- Digital Security (IT, OT, IoT Security Solution Delivery)
- Security Transformation
- Digital Security Consultancy Service

Iken Academy

- Change Management & Digital Readiness
- Industry 4.0 Technology & IT/OT Security

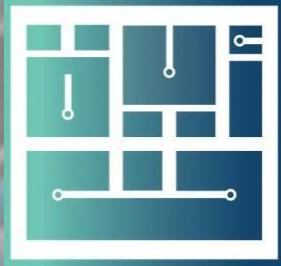
Enabling Strategic Alliances

- Shareholding/Strategic Alliance
- MENA Strategic Service Partner
- Strategic Digital Transformation Partner
- Strategic Digital Transformation Partner
- Cooperation Protocol
- Collaborative Organization
- Strategic Local Partner



- [Advanced Computer Technology (ACT)]
- [General Electric Digital]
- [Arab Organization for Industrialization (AOI)]
- [Ministry of Military Production (MOMP)]
- [Ain Shams University (E-Hub)]
- [Amazon Web Services (AWS)]
- [Contellect/e-File]





Industry 4.0 Transformation



I4.0 Transformation

Iken provide several Industry 4.0 solutions using many emerging technologies such as, Artificial Intelligence, Industrial IoT, Digital Security, Big Data, Additive Manufacturing, & Autonomous Robots. Capitalizing on our compounded years of expertise and our strategic alliances & Partners, we enable our customers to have a unique customized solution that delivers outstanding business results facilitating their Digital Transformation journey.



Key Benefits

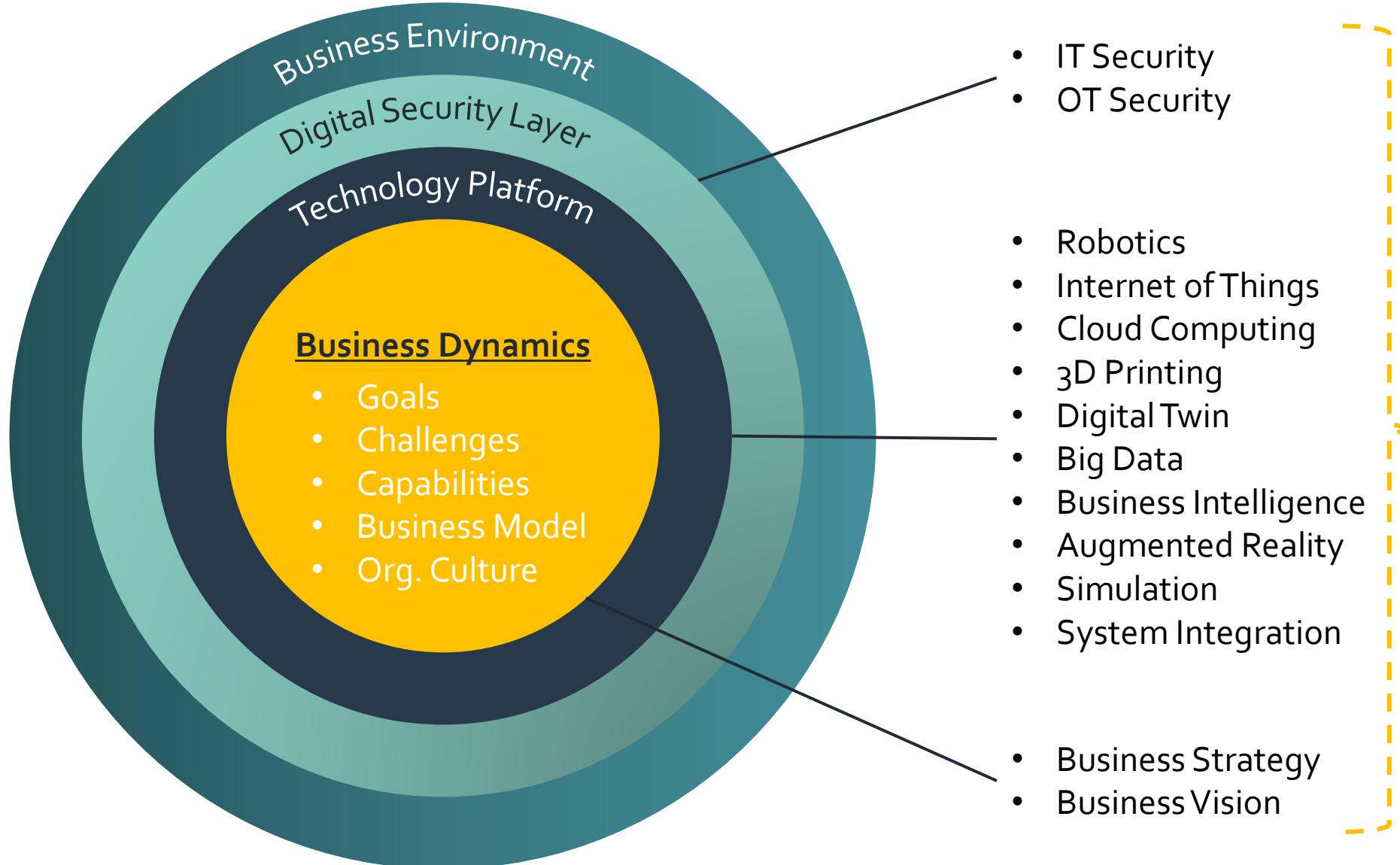
1 Noticeable increase in return on investment (ROI) & Competitiveness

2 Increase in operational control, and efficiency,

3 Improving production Agility, flexibility, & customer centricity

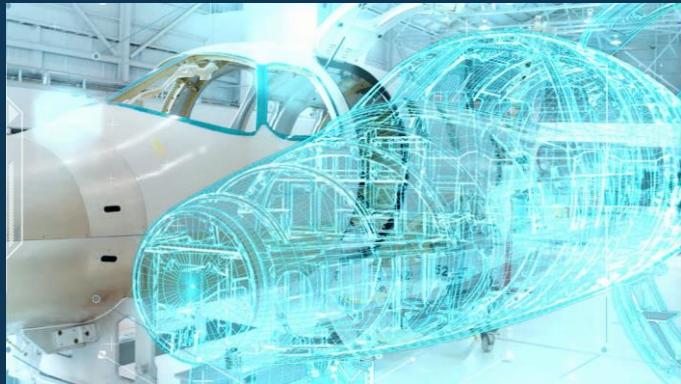
4 Live data driven decision support

Digital Transformation Framework



Digital
Transformation
Strategy
& Road map

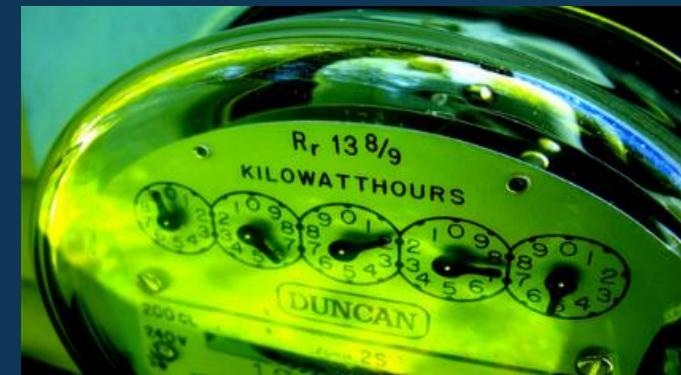
Some DT 4.0 Solutions



Digital Twinning



Predictive Maintenance



Energy Optimization



Smart Grid



Smart Inventory



Smart Farming

Industry 4.0 Applications



Agriculture

- Supply Chain Efficiency
- Increase production yield
- Accurate traceability
- Increased farming quality
- Cost & Time Reduction
- Improved Produce Safety
- Early Pets/Weather Threats
- Notification

Utilities

- Increase Network control
- Decrease non-revenue waste
- Improve distribution efficiency
- Remote working capabilities
- Troubleshoot blinks, sags, and swells
- keeping track of peak usage timings

Manufacturing

- Dashboarding
- Efficient Automation
- Mass Customization
- Reverse Engineering
- Vertical / Horizontal Value Chain Integration
- Through-engineering

Industry 4.0 Applications



City Management

- Enhanced citizen & government engagement
- Safety and community management
- Reduced environmental footprint
- Utilities Smart Management
- Predictive Maintenance

Retail

- Personalized Shopping Experience
- Smart Warehousing
- Advanced Check-outs
- Online/Offline Integration
- Dynamic Pricing
- Responsive Merchandising
- High Product Information Visibility
- Customers Data Monetization

Health

- Reducing healthcare costs.
- Predicting epidemics.
- Avoiding preventable deaths.
- Improving quality of life.
- Reducing healthcare waste.
- Improving care efficiency & quality
- Developing new drugs and treatments.

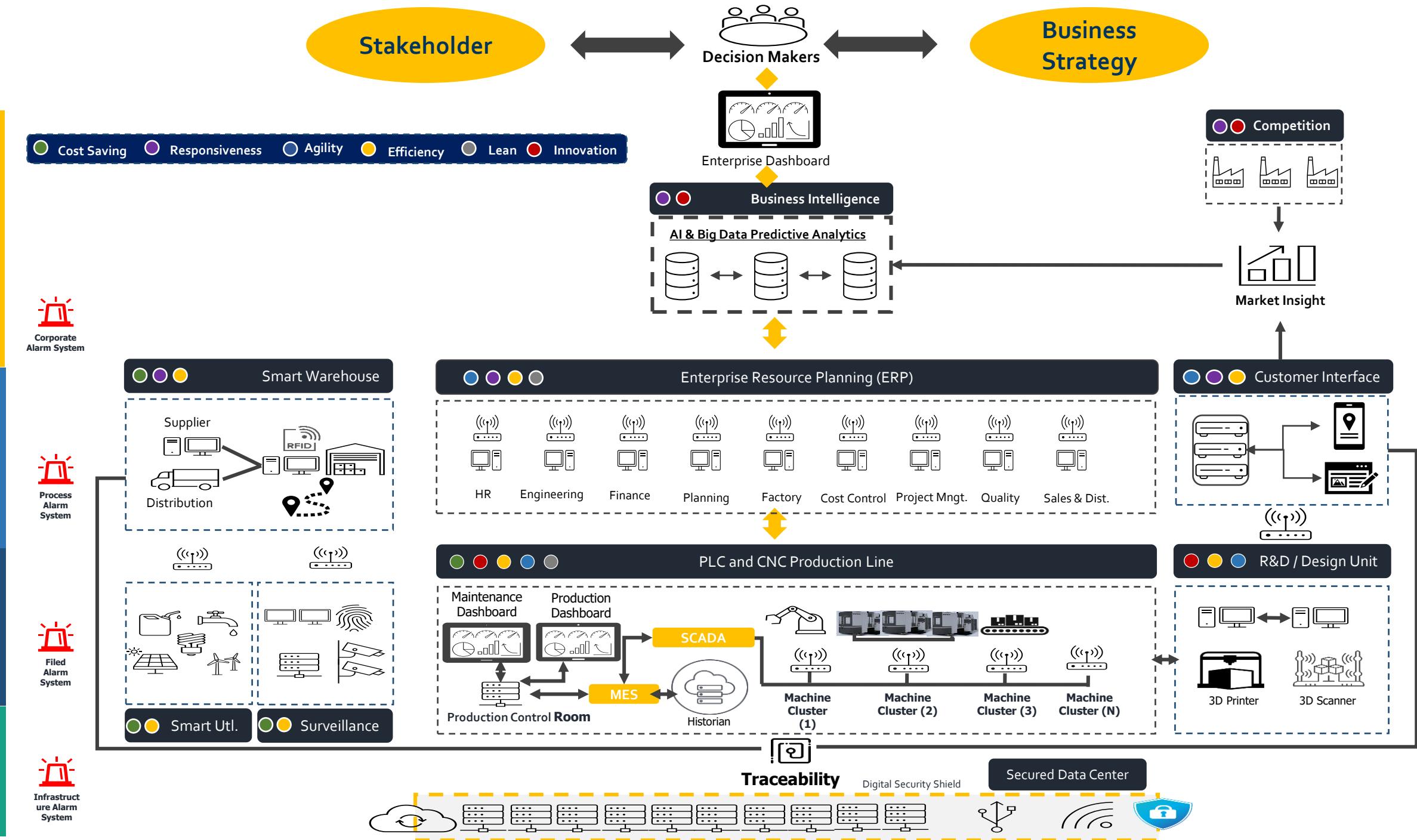
Industry 4.0 Applications



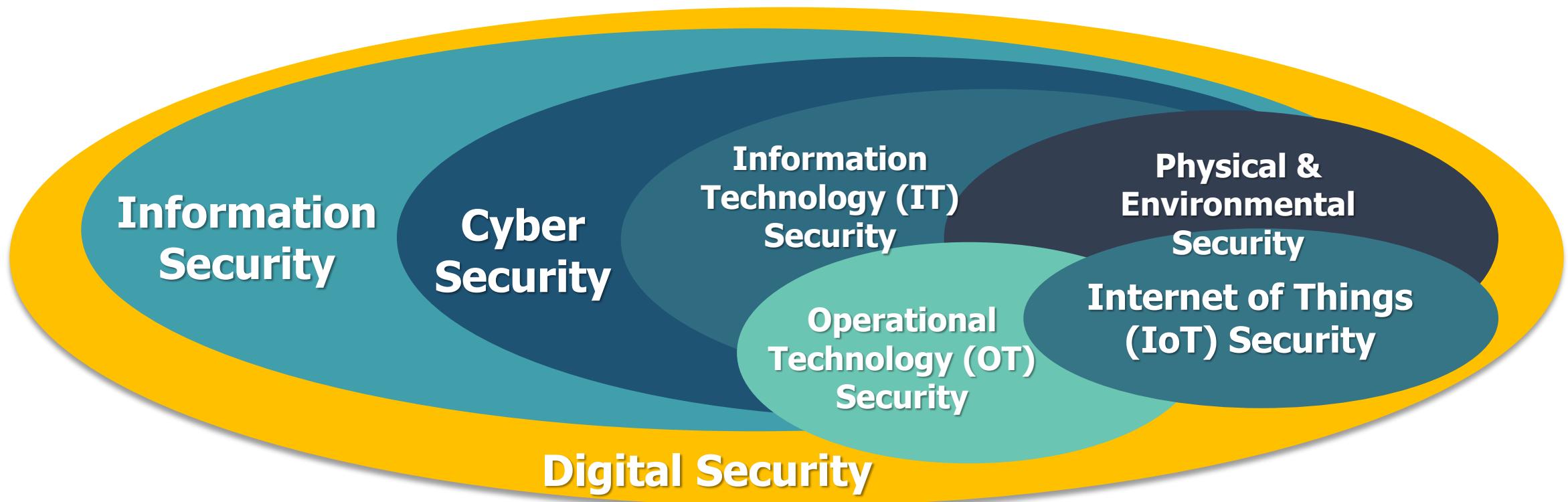
Banking	Oil & Gas	Aviation	Education
<ul style="list-style-type: none">• Block chain and distributed ledger technology• Process digitization• Digital/Mobile Banking• E-commerce & Point of Sale• AI Risk Mitigation & Calculation	<ul style="list-style-type: none">• Dashboarding• Efficient Remote Working System• Enterprise Learning Systems• Digital Twin• Asset Information System	<ul style="list-style-type: none">• Ground Handling• Master Planning• Airport Safety and Security• Converged Communications IOT• IT-OT Infrastructure• Land Side• Air Side• Facility	<ul style="list-style-type: none">• Accelerate Remote Learning• Personalized Learning• Choice of Education Tools• Project-based Learning• Field-specific Experience• Exam Pattern and Assessment

Example: Smart Factory





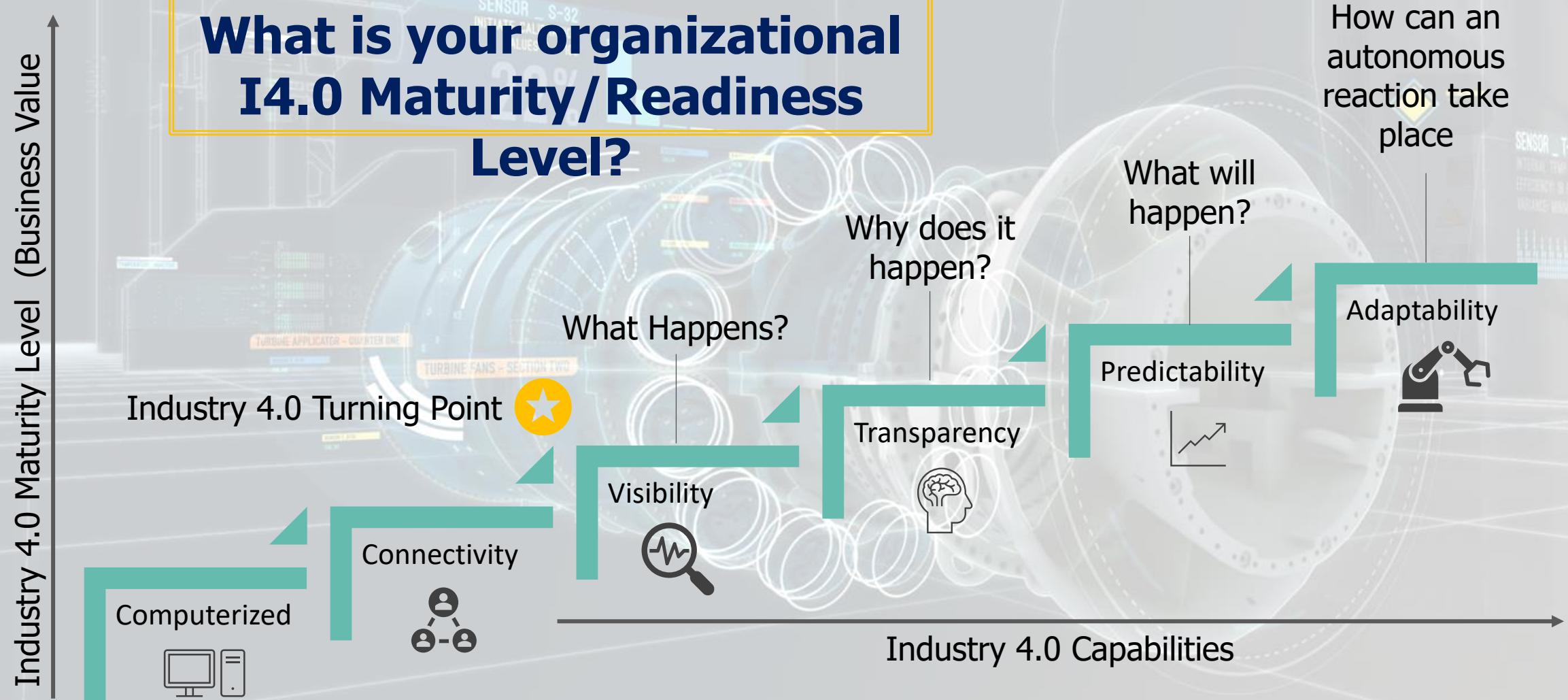
Digital Security Inclusion



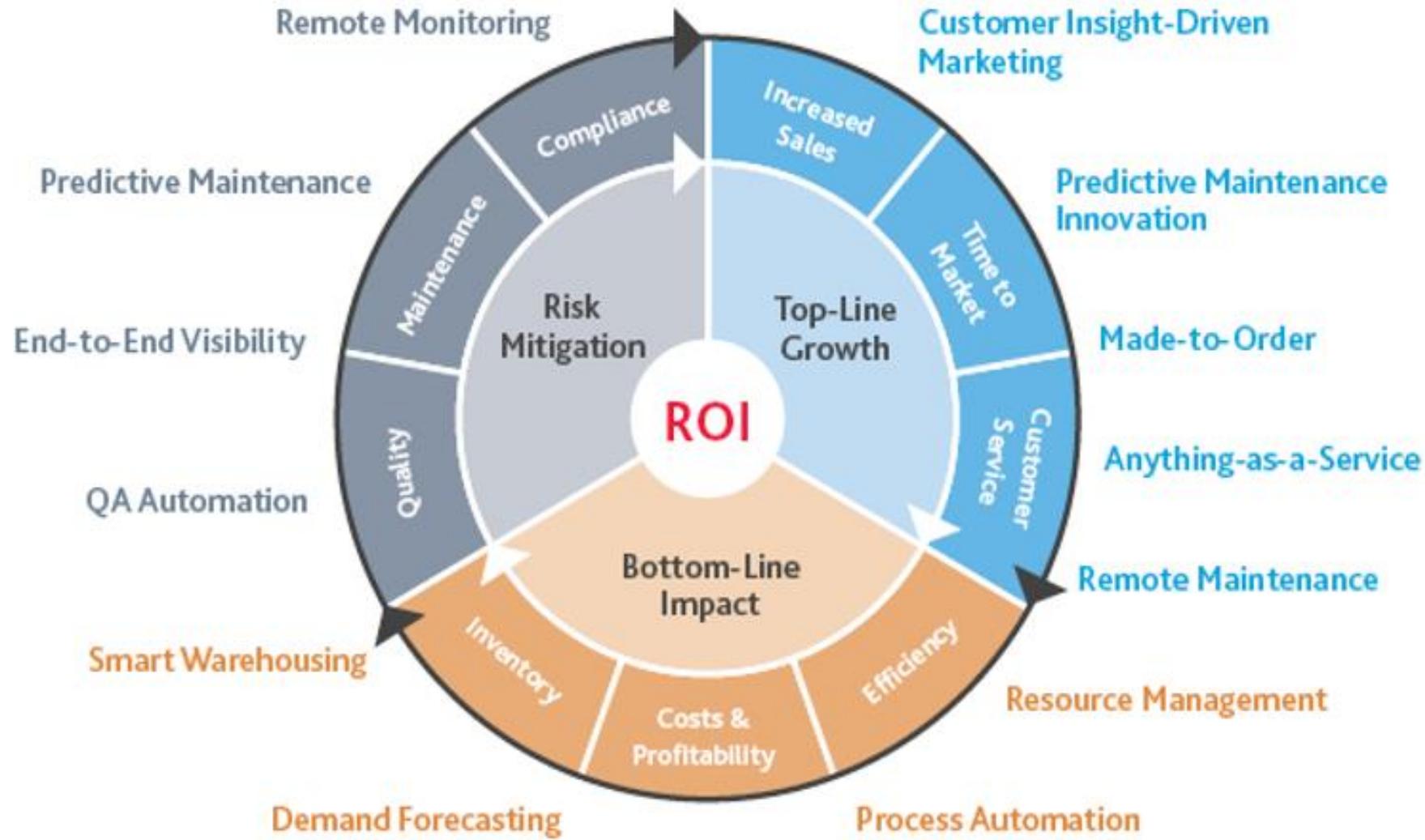
Building on its long-term expertise in IT/OT security & its expertise in emerging technologies, Iken power up your Industry 4.0 Digital Transformation process through architecting, deploying, and maintaining a complete 360 Digital Security Solutions



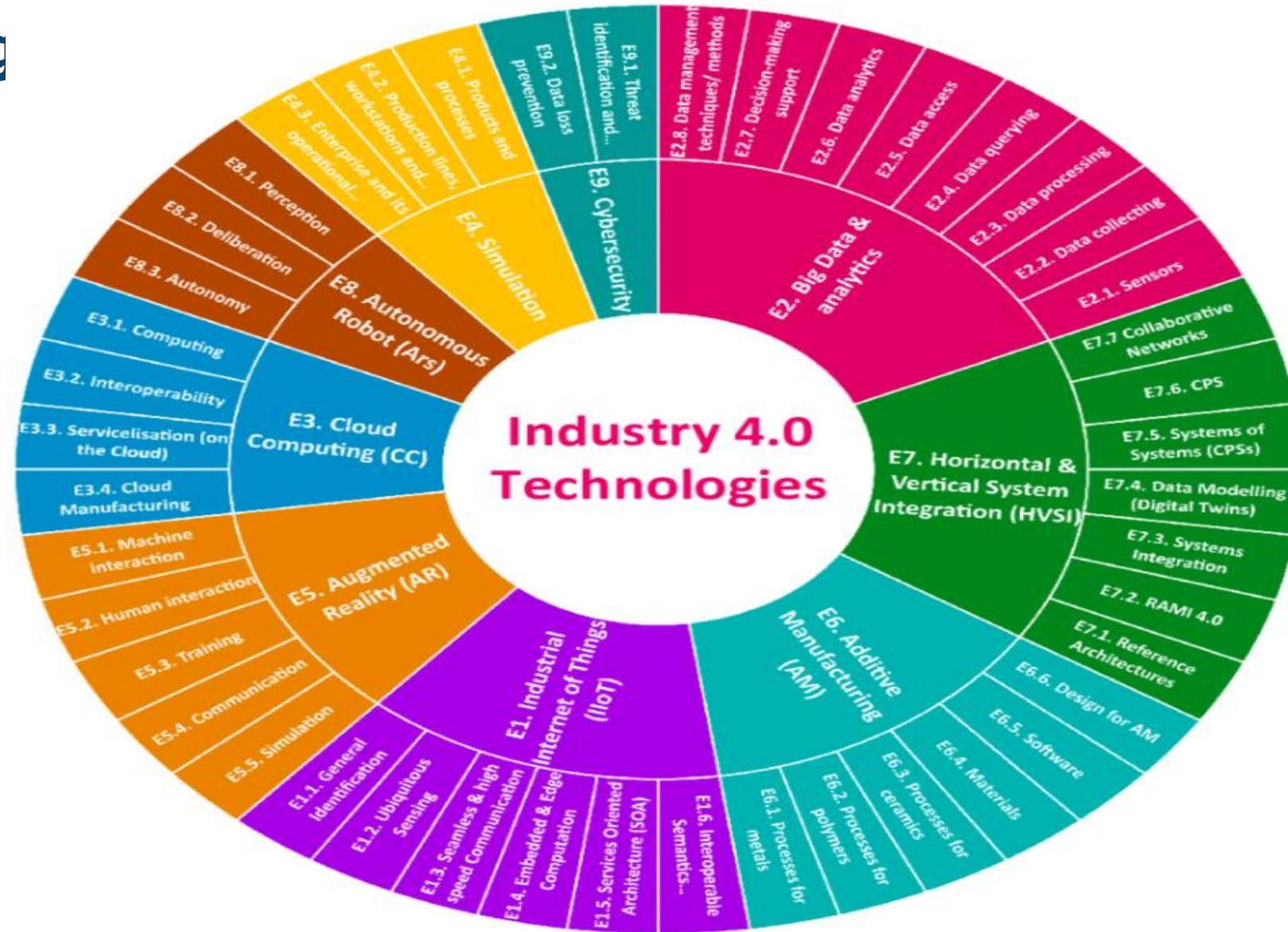
iken Industry 4.0 Organizational Maturity Level



Industry 4.0 Value Creation



I4.0 enablers and technologies



Some of Our I4.0 Vendors

everteam

SIEMENS

VEATIVE

 **DASSAULT
SYSTEMES**

 **EKSON**
TECHNOLOGY

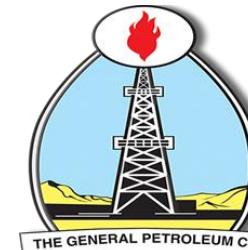
 **ptc**



GE Digital

 **PRO MECH**
Group Making Difference

References



بنك القاهرة
Banque du Caire



Iken Academy

To complete its support for Digital Transformation, IKEN helps its customers prepare their workforces for Digital Transformation by providing specialized capacity building opportunities that are supported by the world's leaders in Digital Transformation. Our customers easily realize the direct ROI generated from improving their team's digital skills, represented in faster operations, higher agility, decreased downtime, and improved efficiency & waste.

Some of our Capacity Building Partners



Some of our Capacity Building Programs

- AWS re/start Program
- MES and SCADA Training Programs
- Digital Security
- Digital Transformation Strategy

Some of Iken Academy Initiatives



AWS re/Start Program with
UNDP



Launching of "The National Initiative for Building Industry
Digitization Leaders" and the graduation of certified trainers' group
in cooperation with Ministry of Military Production & GE Digital



Graduation of the first group of Ministry
of Military Production Engineers



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