INSIGHTS FROM THE INDUSTRIAL TALK IN CYBERSECURITY

Introduction

An industrial talk was recently held to educate students on Technology Innovation Strategy (TIS) and the Fourth Industrial Revolution (IR4.0), focusing on how these advancements are shaping industries, workforce demands, and Malaysia's readiness for the future of technology.

Role of Cybercecurity

Plays a critical role in securing Malaysia's digital landscape. As the Ministry of Communications and Multimedia agency, its key services include:

- **Cyber CSI :** Digital forensic support for cybercrime investigations
- **MyCERT :** Handling malware cases and cybercrime incidents
- **CyberSafe :** Promoting public awareness of cybersecurity risks
- **CyberGuru :** Providing training and certifications for cybersecurity professionals

Malaysia's Readiness for IR4.0

Malaysia is recognized as a leader in production by the World Economic Forum, showing strong potential for IR4.0 adoption. However, the nation must address critical gaps to match global leaders like Japan and Germany. These include:

- **High-Skilled Labor**: Building skilled workers while managing costs
- **Supply Chain Complexity**: Addressing global supply chain challenges and ensuring quality compliances

Demand-Supply Challenges

Demand-supply challenges highlight the gap between industry needs and available resources. Businesses face rising customer demands, while governance and collaboration inefficiencies hinder progress.

- **Demand Side:** Many businesses lack understanding of IR4.0's benefits, while customers demand more customized, high-quality products
- **Supply Side:** Governance misalignment and weak industry collaboration show IR4.0 adoption

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Digital Forensics and Strategic Framework for IR4.0

Digital forensics tackles cybercrimes across Asia by analyzing digital evidence, supporting legal cases, uncovering fraud, and mitigating data breaches. It is a cornerstone of cybersecurity, enabling law enforcement to trace attacks, identify culprits, and strengthen defenses against threats.

To complement these efforts, the Strategic Framework for IR4.0 emphasizes the "Attract, Create, and Transform" approach, which aims to enhance industry capabilities through government funding, improved infrastructure, and supportive regulations, ensuring a seamless transition into the Fourth Industrial Revolution.

Reflection

This talk provided key insights into IR4.0's role in shaping industries and the workforce. It highlighted how innovation tackles challenges like cybersecurity threats, inefficiencies, and competitiveness. Technological advancements protect data, streamline operations, and foster growth across sectors.

The talk motivated us to gain skills in cybersecurity and innovation, recognizing their role in safeguarding data, improving

operational efficiency, and tackling real-world challenges. Learning about Malaysia's position in IR4.0 relative to global leaders like Japan and Germany provided valuable insights into the country's potential growth and the gaps that need addressing. It highlighted the importance of collaboration between academia, industry, and government to bridge skill shortages, fostering innovation, and ensure inclusive and sustainable growth in a technology-driven era. Additionally, the discussion underscored the need for continuous learning and adaptability to keep pace with rapid technological advancements and evolving global demands. This holistic approach will empower Malaysia to not only compete but also thrive in the global digital economy.

Conclusion

The industrial talk emphasized the need for preparing for IR4.0 by building skills, fostering collaborations, and using LinkedIn and GitHub to connect knowledge with real-world applications.

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