

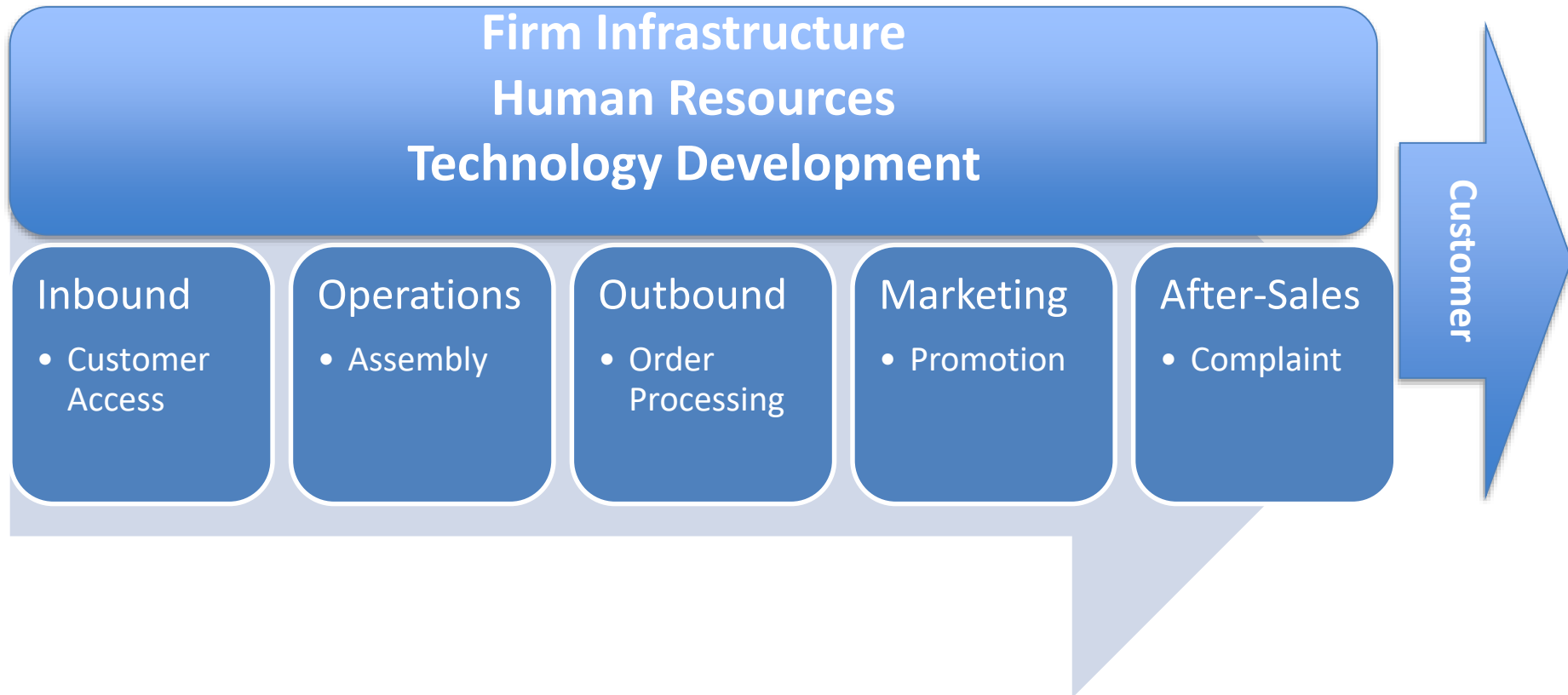
ICT Governance

Amr BadrElDin

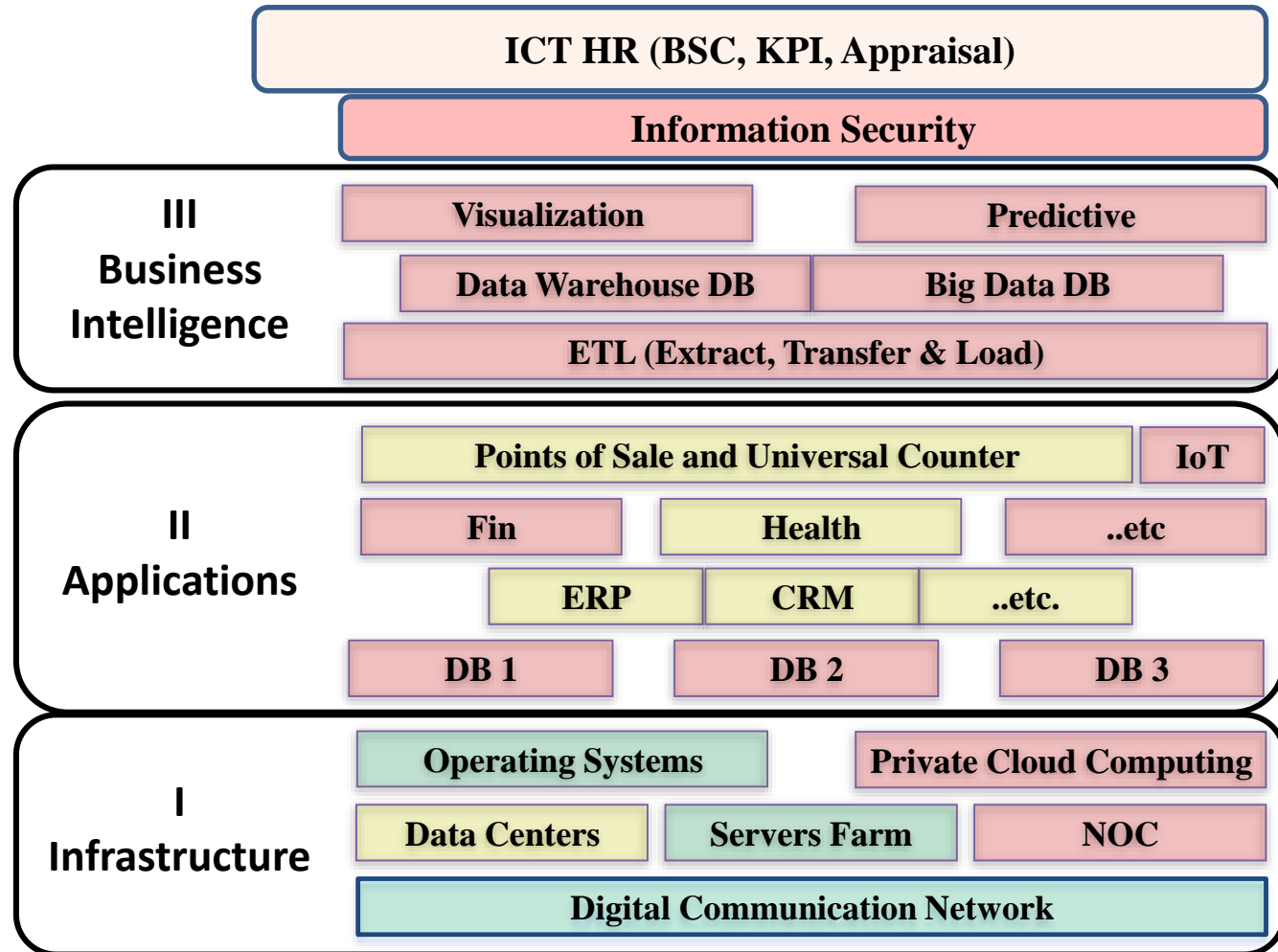
Associate. Prof. AUC (F)

Introduction

- Value Chain:
 - Developed by Michael Porter early 1990s
 - Tool for disaggregating a company into its strategically relevant activities.



ICT Value Chain



- The restriction is imposed where only downward calls are allowed.
- Each layer can only use services provided by the layer below.

ICT Governance

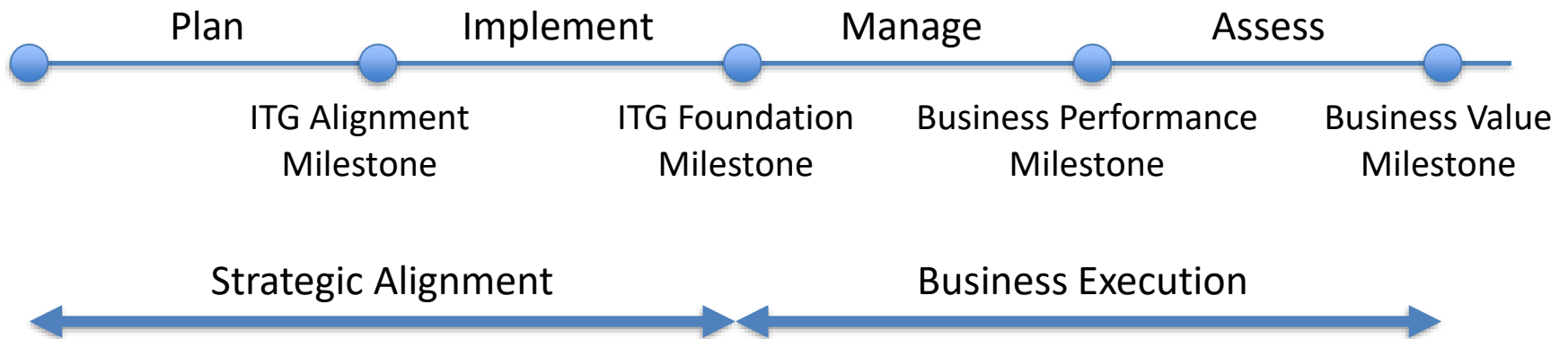
- ICT governance is the rules within the ICT value chain that insure sustainability, upgradability, ..etc. (Rules of the Rules)
 - The Innovation Value Chain (HBR)
 - Governance
- **Governance is the process of establishing:**
 - **Chains of responsibility, authority, and communication.**
 - **Measurement, policy, standards, and control mechanisms to enable people to carry out their roles and responsibilities**

Balanced Score Cards

- Balanced Scorecards
 - Originated by Drs. Robert Kaplan (Harvard Business School) and David Norton
 - The balanced scorecard is a strategic planning and management system that is used extensively in business and industry, government, and nonprofit organizations worldwide to
 - align business activities to the vision and strategy of the organization,
 - improve internal and external communications,
 - and monitor organization performance against strategic goals

IT Governance Approach

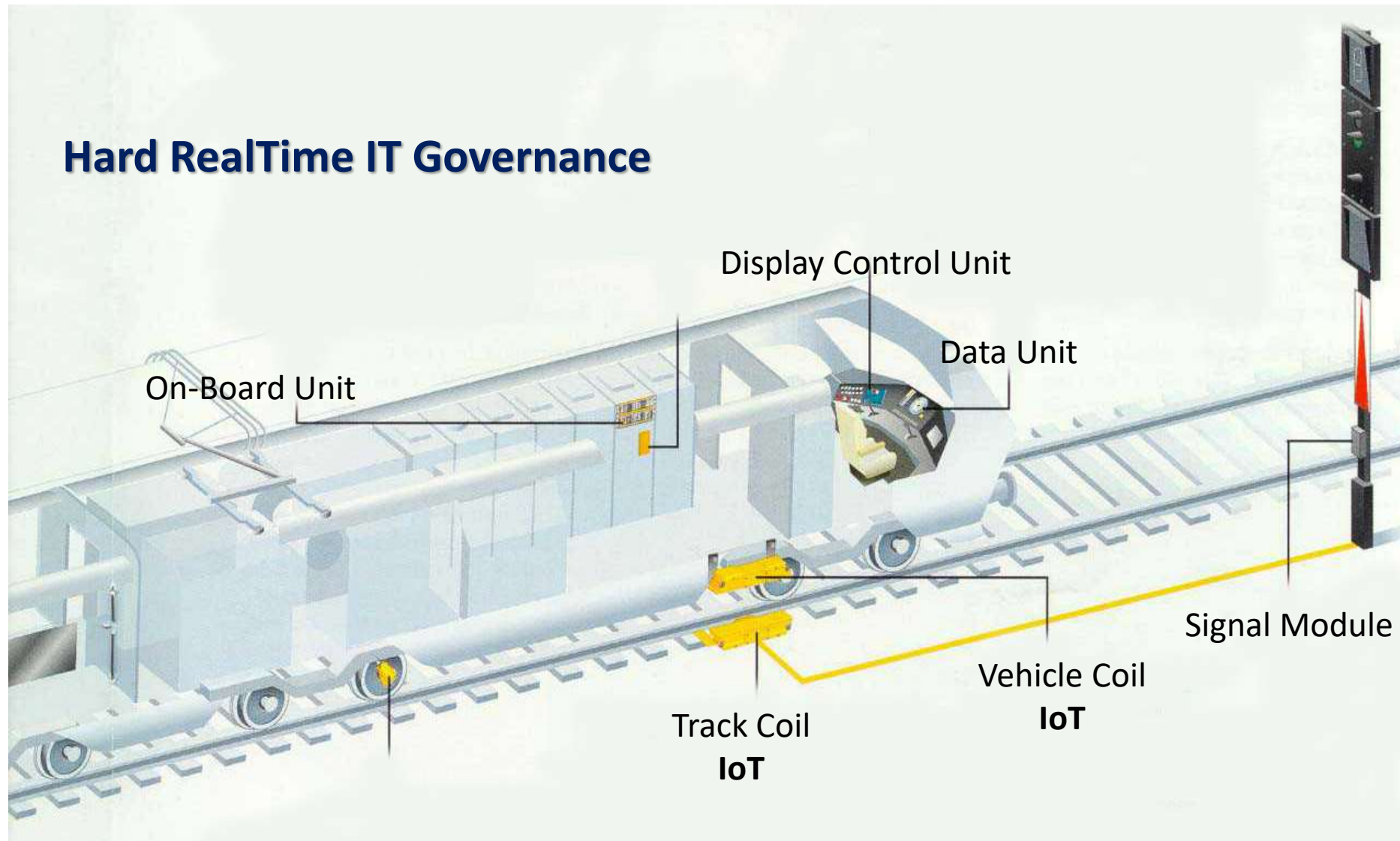
- IT Governance Approach
 - Iterative approach to planning, designing, implementing, deploying, monitoring, controlling, and changing the operational processes of business operations that rely on information technology.



1. Aligned Business and IT Strategy
2. Business Performance Baselined
3. Business Value Delivery Assessed
4. ITG Foundation Baselined

Example 2: Railway

Hard RealTime IT Governance



Example 3: FinTech

- I-Score
 - The Egyptian Credit Bureau
- Central Bank of Egypt
 - Internet Banking Regulations

Organizations & Committees

- ISO/IEC 27001
 - International Organization for Standardization
- PCI-DSS
 - Payment Card Industry Data Security Standard
- Basel Accord
 - Three series of banking regulations (capital risk, market risk, and operation risk)
- The Central Bank of Egypt
 - 2018: Internet Banking Regulations

Organizations & Committees

- COSO Committee of Sponsoring Organizations of the Treadway Commission.
 - Internal Control- Integrated Framework Principles.
 - Control Environment, Risk Assessment, Control Activities, Information & Communication, Monitoring Activities. www.coso.org
- NIST National Institute of Standards and Technology
 - 2018: Framework for Improving Critical Infrastructure Cybersecurity.
 - The Five Functions of the Cybersecurity Framework: Identify, Protect, Detect, Respond, and Recover.
- ISO/IEC 27001
 - International Organization for Standardization
- PCI-DSS
 - Payment Card Industry Data Security Standard
- Basel Accord
 - Three series of banking regulations (capital risk, market risk, and operation risk)

Thank You