INDUSTRY TALK 1
DATA ANALYTICS, INFRASTRUCTURE & SAP

PPG Malaysia Technology Center (MYTC) • Industry Talk Summary

SECTION: 04
GROUP : 09

Mohammed Rahbab Chowdhury - A25CS0013
Nasma Mutasim   - A25CS5054
Basma Mutasim   - A25CS5053

Abdulrahman Mohammed   - A25CS0003
Khalid   - A23CS4042

EXECUTIVE SUMMARY

- This industry talk introduced how PPG uses Data Analytics, SAP, and modern IT Infrastructure to support its global operations. Speakers from MYTC explained real use cases involving data lakes, multi-cloud architecture, machine learning operations, and enterprise systems like SAP S/4HANA. The session also highlighted how Malaysia's IT teams contribute to PPG's worldwide digital transformation. Overall, the talk emphasized the importance of ICT roles in ensuring efficiency, scalability, and innovation in a global company.

INTRODUCTION

- PPG is a global coatings and materials company with operations in 70 countries and a strong focus on sustainability and technological innovation. The PPG Malaysia Technology Center (MYTC) plays a major role in global IT projects, including data management, infrastructure operations, cloud engineering, and SAP implementation. This talk introduced students to real industry practices, the technologies used, and the skills required to support large-scale digital transformation in a multinational organization.

🗄 DATA ANALYTICS COE

Focus: Data-driven decisions, efficiency, forecasting.
Key Use Cases:
- Global Marine Heart Navigator (supply chain, pricing, risk)
- ERP Analytics (single-source data)
- Data Lake Analytics (multi-source enterprise data)
- ML Ops (model automation)

Key Skills: SQL, Python, Scala, Delta Lake, Azure Data Lake, Power BI, Azure DevOps, Azure Data Factory, Databricks.
Industry vs Academic:
 Real industry data is larger, messier, needs distributed systems, and involves many stakeholders.

⚙ SAP & ENTERPRISE SYSTEMS

ERP: Integrates Finance, HR, Sales, Supply Chain, etc.
SAP: Modular ERP covering FI, CO, MM, SD, PP, QM, PM, BW, SAC.
SAP at PPG:
- Uses SAP S/4HANA + ECC
- Supports streams:
    - DTR: MM, PP, QM, eWM, EH/S
    - OTC: SD
    - PTP: MM, VIM
    - RTR: FI, CO, GL, AP/AR, FA

History: R/2 (1991) ➜ R/3 (1999) ➜ ECC (2007) ➜ S/4HANA (2018+) ➜ Global upgrade (2025).
Goal: Connect PPG S/4 Transformation → global standardization, agility, modernization.

☁ GLOBAL INFRASTRUCTURE COE

PLAN – BUILD - RUN Model:
- **PLAN:** Architecture, technology planning, M&A
- **BUILD:** Cloud engineering, workplace services, application services, core infrastructure
- **RUN:** 24/7 operations, service desk, monitoring, site IT support

Multi-Cloud Strategy: AWS, Azure, VMware, Oracle Cloud, Alibaba Cloud, PPG Performance Hubs.
Key Skills: Cloud architecture, virtualization, networking, cybersecurity, Terraform, Datadog, Checkmarx, SQL, Oracle DB.
Future Trends: AIOps, zero-trust security, autonomous infrastructure, edge computing, scalable cloud platforms.

REFLECTION

This talk helped us understand how crucial ICT roles are in supporting global companies. We learned that data analytics, ERP systems, and cloud infrastructure work together to keep worldwide operations connected and efficient. The PLAN–BUILD–RUN model showed how large IT teams function across regions. We now feel more motivated to build skills in data engineering, cloud technologies, and enterprise systems because these areas directly shape how modern industries operate and innovate.