

PCMS Information Pack

PETRONAS Completions Management System

"Towards Smarter Project Completion and Handover"

Information Pack (External)
May 2021



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What is PCMS?

PCMS

PETRONAS Completions Management System

A **PETRONAS-owned cloud-based system** accessible via:

- Web browsers at https://pcms.petronas.com
- Mobile applications for Windows, iOS, and Android devices will be made available soon

A digital system to manage processes and documentation related to project completion and commissioning activities, such as:

- Systemisation
- Inspection Test Records (ITR Checksheets)
- Phase Completion / Handover Certificates
- Punchlist

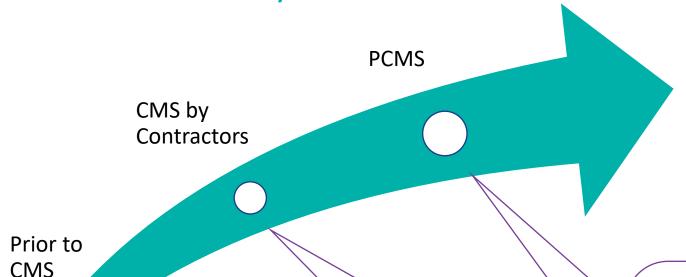
An enterprise-level platform, allowing:

- Multiple project usage
- Access rights (licences) to be managed on project-by-project basis
- Long term consolidation and repository of data
- Centralised reporting of commissioning progress across all projects

PCMS Go-Live Date: 5 March 2021



The PCMS Journey



Journey towards:

- Sustainability & Digitalisation
- Time & Cost Optimisation
- Consistency & Standardisation

- Manual checksheet preparation, verification and approval process
- Manual tracking of system completion and handover
- Manual systemisation

- Semi automated checksheet preparation, verification and approval process
- Automated tracking of system completion and handover
- Manual systemisation
- Inconsistent software platform across projects
- Cost embedded in each contract

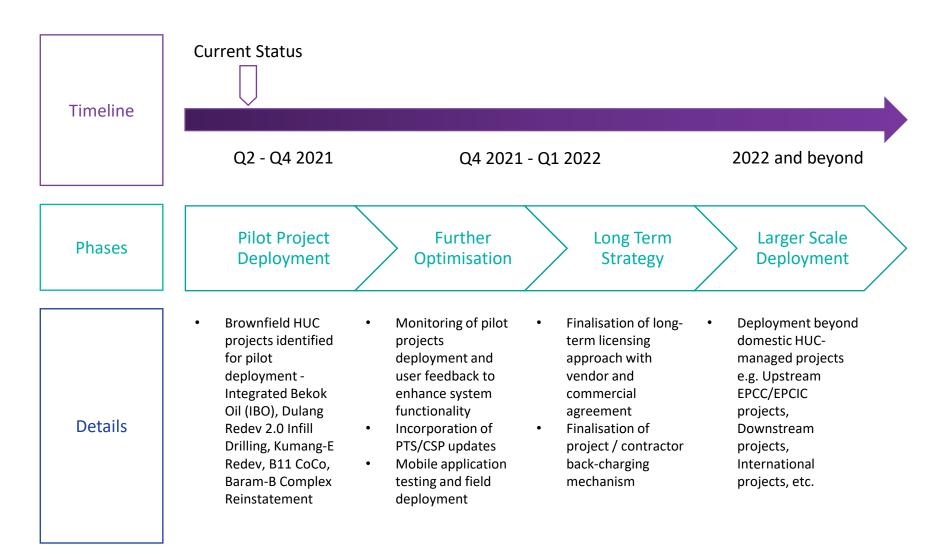
- Digitised checksheet preparation, verification and approval process
- Fully automated tracking of system completion and handover
- Digital systemisation and capable of interfacing with other platforms e.g. PEDMS
- Single platform across PETRONAS
- Cost saving through economyof-scale



PCMS Organisational Structure Custodian of process and governing procedures e.g. PTS / **HUC** (System Custodian) PBTR / CSP Construction and Decommissioning Delivery Management of users and (CDD) Hardware support (Azure server) licences Group Project Delivery (GPD), Project Delivery Project creation and and configuration & Technology (PD&T) coordination Cyber security compliance Interfacing and support requirements **Subject Matter Expert** Training (internal) Commercial arrangements with Ir. Akbal Abu software vendor Software technical support Team Leader Progressive updates Ron Yap Kai Ren Training (external) **PETRONAS Focal Person** Group Digital (GD) Ho Joon Heng **CMS Vendor CMS Team** (HEXAGON Support Team) Siti Anis Iylia M Zainal Nur Shairah Ahmad Farah Shafiqah Mohd Mazny Project Management Of The Future Mareney Yahya Nora Ismail (PMoF) M Jalaluddin Mohamad Christopher Hii Yik Bing M Hazwan Ahamad Project-level CMS setup activities Coordination with other digital e.g. creating WBS, importing solutions • Overall consolidation of digital assets, creating ITRs and certificates initiatives **Project Teams / Contractors** CMS execution e.g. ITR completion, punchlist management, reporting, etc. **System Users**



Way Forward beyond Go-Live (5 Mar 2021 Onwards)





Overview of System Configuration

Initial Configuration (Pre Go-Live)

HxGN PPM Smart® Completions

- Software setup and preconfiguration as per PETRONAS' governing procedures e.g. CSP 20 & PTS 19.40.02:
 - Base ITR Checksheet Templates (~400 nos.)
 - Default System Definition
 - Default Handover Certificates
- i. Customisation of role profiles e.g. Administrator and User from Company and Contractors.
- iii. Compliance with internal requirements e.g. cyber security requirements

PCMS



PETRONAS Completions Management System



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Project Specific Configuration (Post Go-Live)

- i. User Account creation
- ii. Project Information Data population (interface with single source of truth)
- Project Asset Data population (interface with design e.g. P-EDMS)
- iv. Project WBS & Systemisation Setup

Project Deployment (Post Go-Live)

- i. Digital / Paper ITRChecksheets management and tracking
- ii. Specific Handover / Phase Readiness Certificates management and tracking
- iii. Punchlist management and tracking
- iv. Reporting and visualisation (interface with other tools)

Preparation Timeline

2-3 weeks depending on number of users, including training

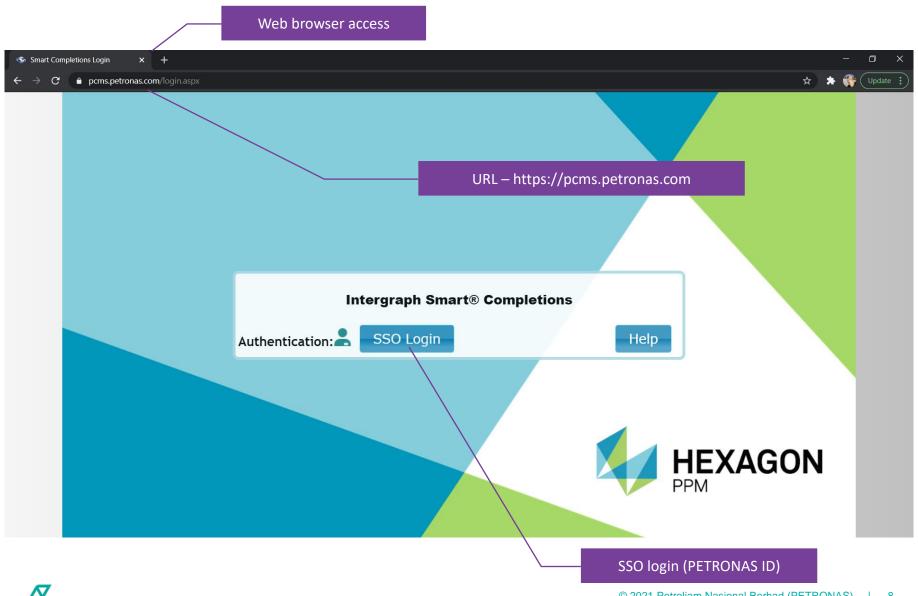
2-3 weeks depending on number of assets

1-2 months for document generation, depending on quantity and customisation required



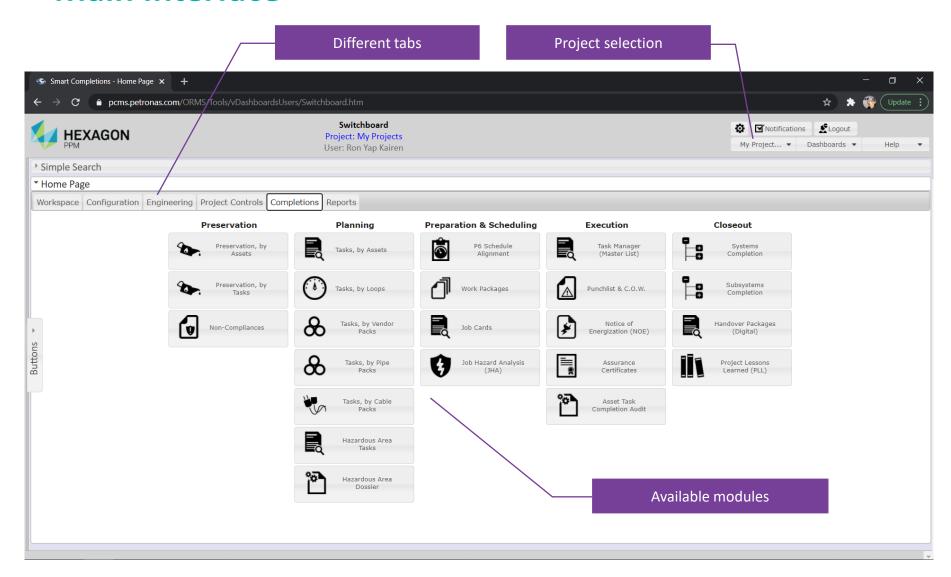


System Login



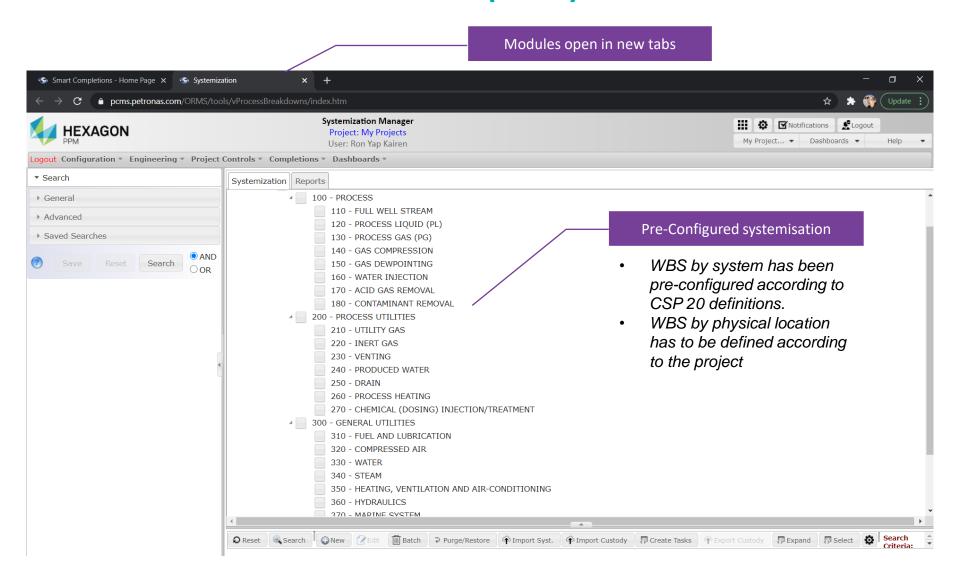


Main Interface



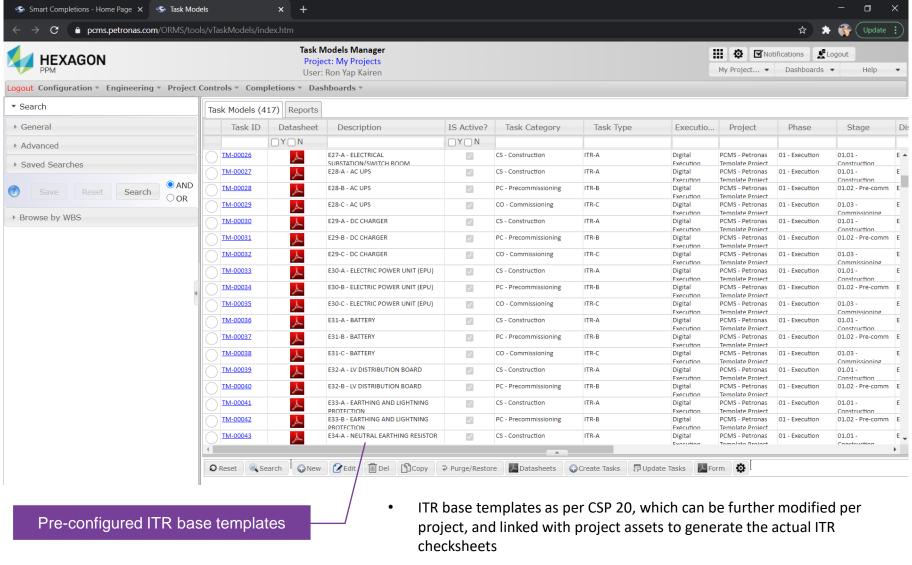


Work Breakdown Structure (WBS)



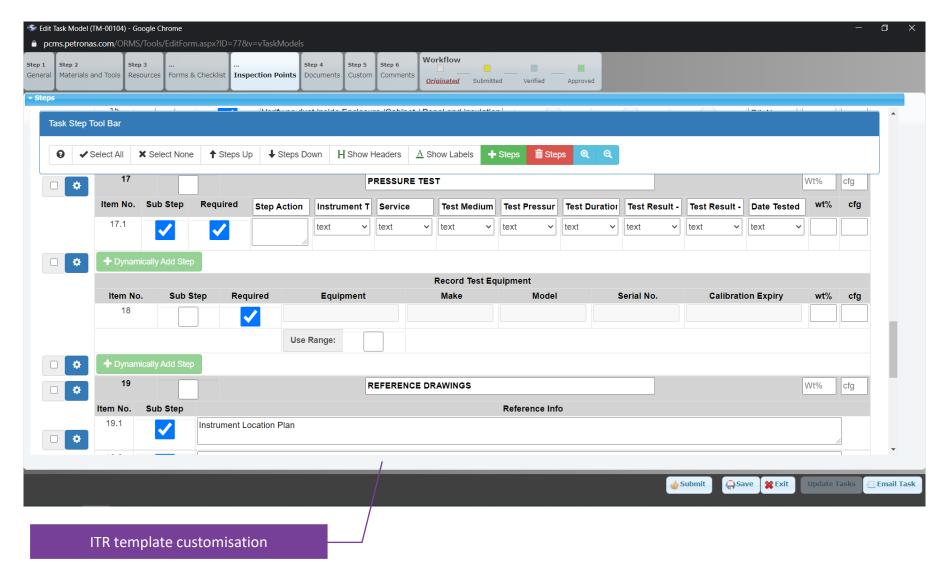


Task Models (Inspection Test Record Templates)



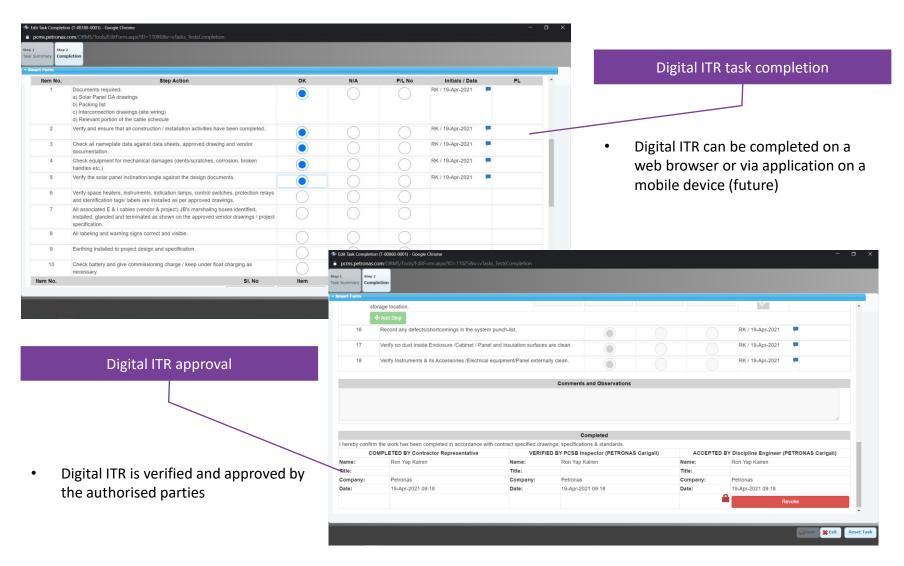


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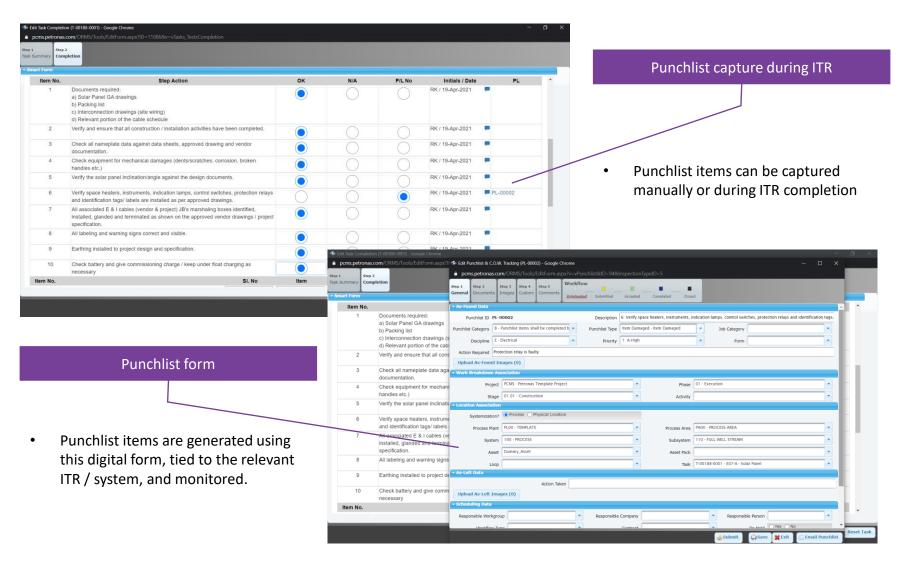


ITR Digital Completion



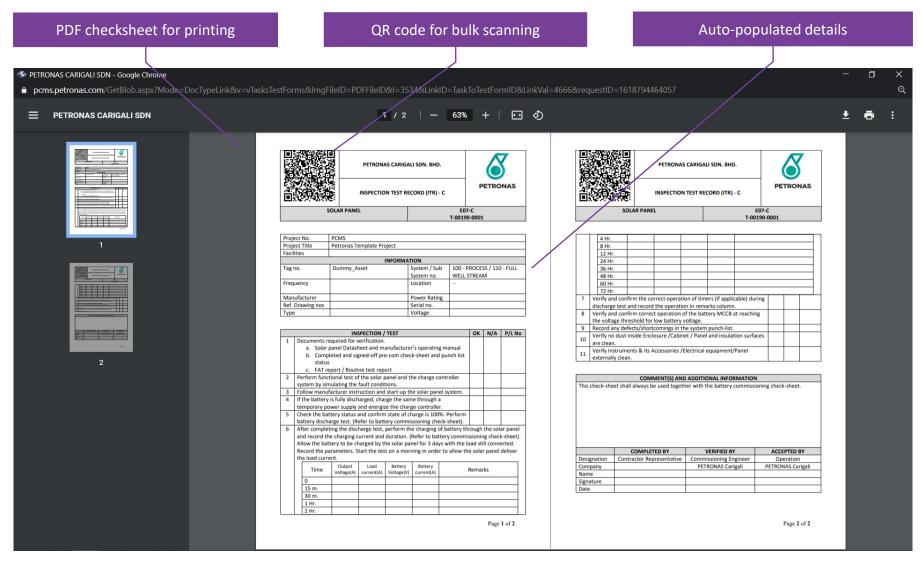


Punchlist Management





Semi-Automated ITR Forms (Paper Execution)





Reporting and Visualisation

