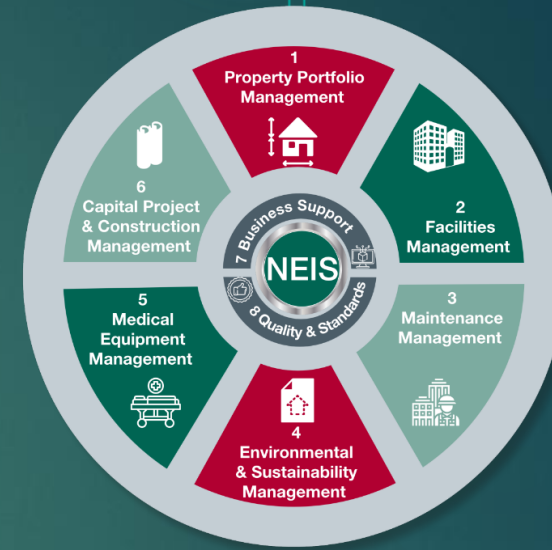


HSE Capital & Estates Digital Transformation Journey



Anna Boch, Estates Manager

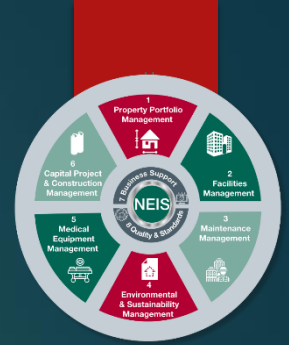
Michael Martin, Product Owner

NEIS.support@hse.ie

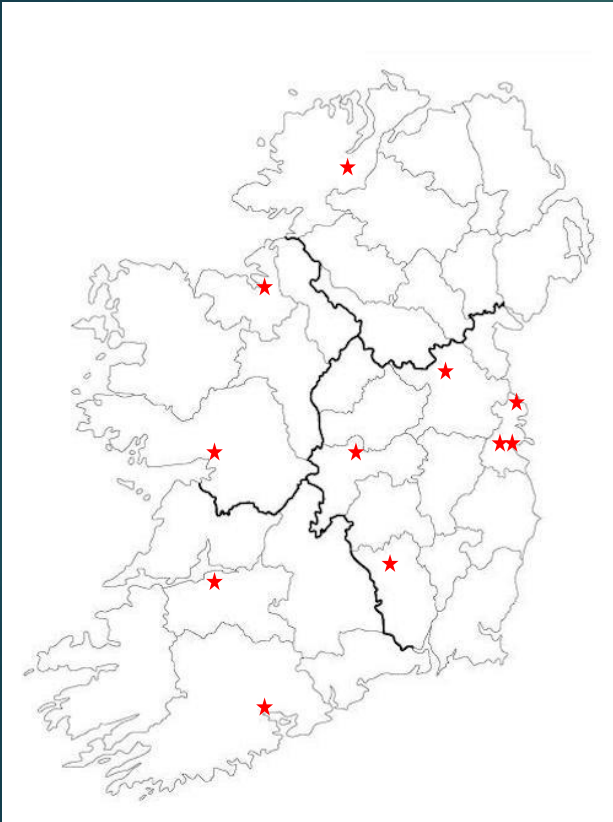
HSE Capital & Estates

Digital Transformation Journey

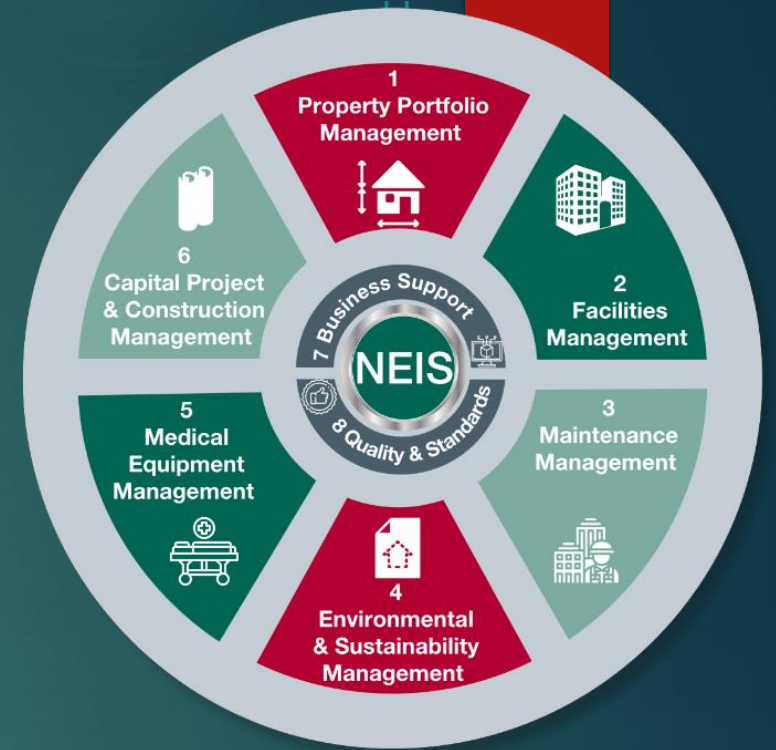
- Introduction
- Key Drivers
- National Estates Information System
- Expected Benefits
- Next Steps...



HSE Capital & Estates



- HSE Established in 2005
- 11 Regional Offices
- Responsible for over 4,000 buildings
 - Acute Hospitals
 - Primary Care Centre's
 - Community Nursing Homes
 - Office Accommodation
 - Laboratories
 - Warehouses
 - Covid-19 Test Centres
 - Vaccination Clinics
- Annual Capital Budget almost €1.4bn in 2021
- Estate Reinstatement Value approx. €14bn



Public Sector Strategy & Roadmaps



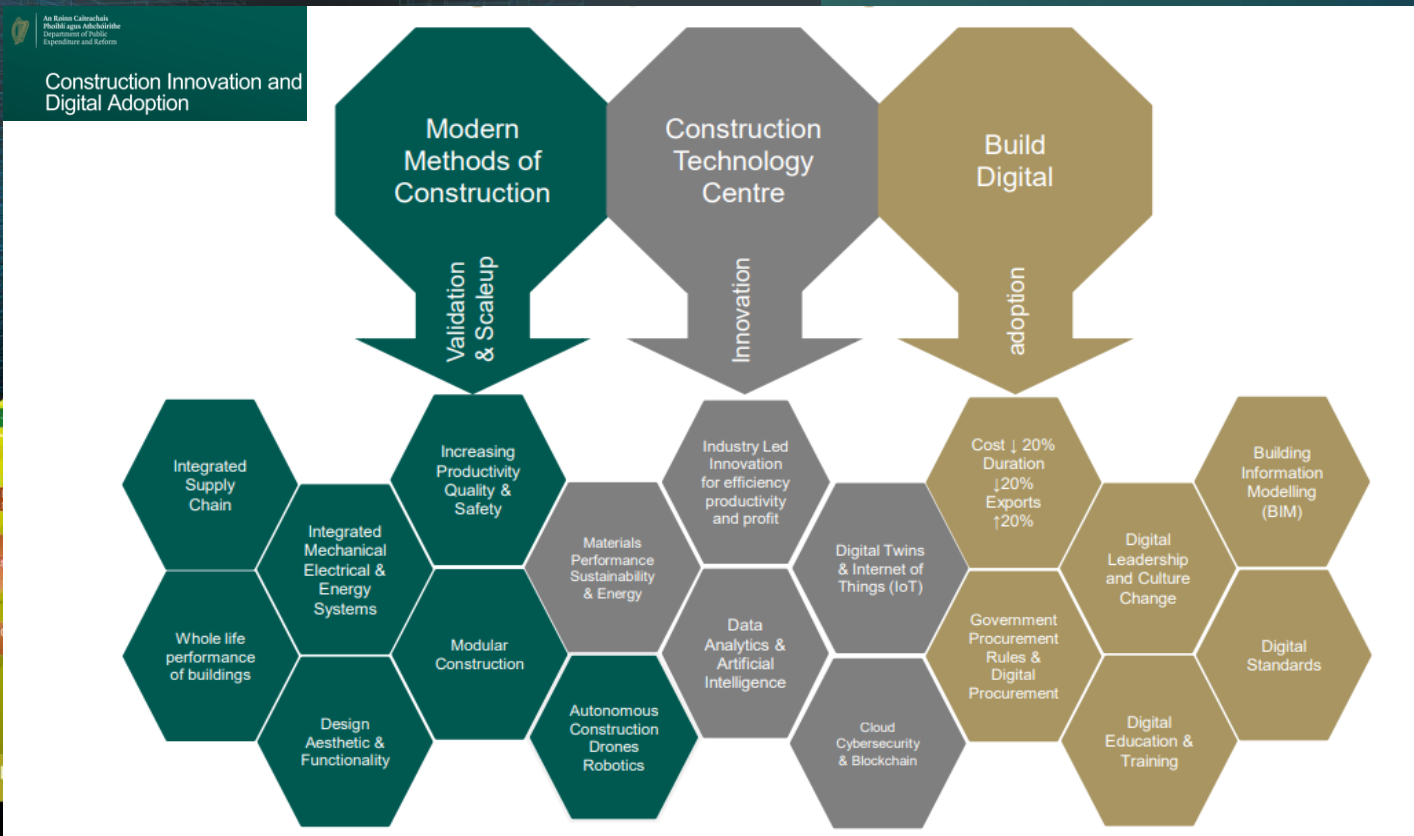
Public Service ICT Strategy.

<https://ictstrategy.per.gov.ie/>

<https://www.nbcireland.ie/>



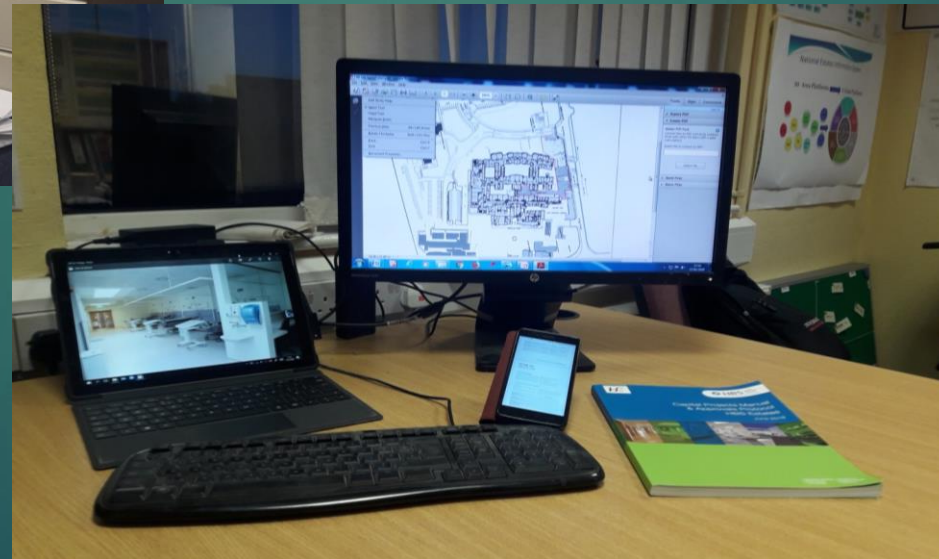
Digital Roadmap 2021 Construction Sector



People's Needs Defining Change



- Local areas operated a paper- based system and utilised outdated technology
- Requirement for a single cloud-based platform to integrate the business & provide one reliable source of information
- Desire to do things in a better way, making use of best available technology



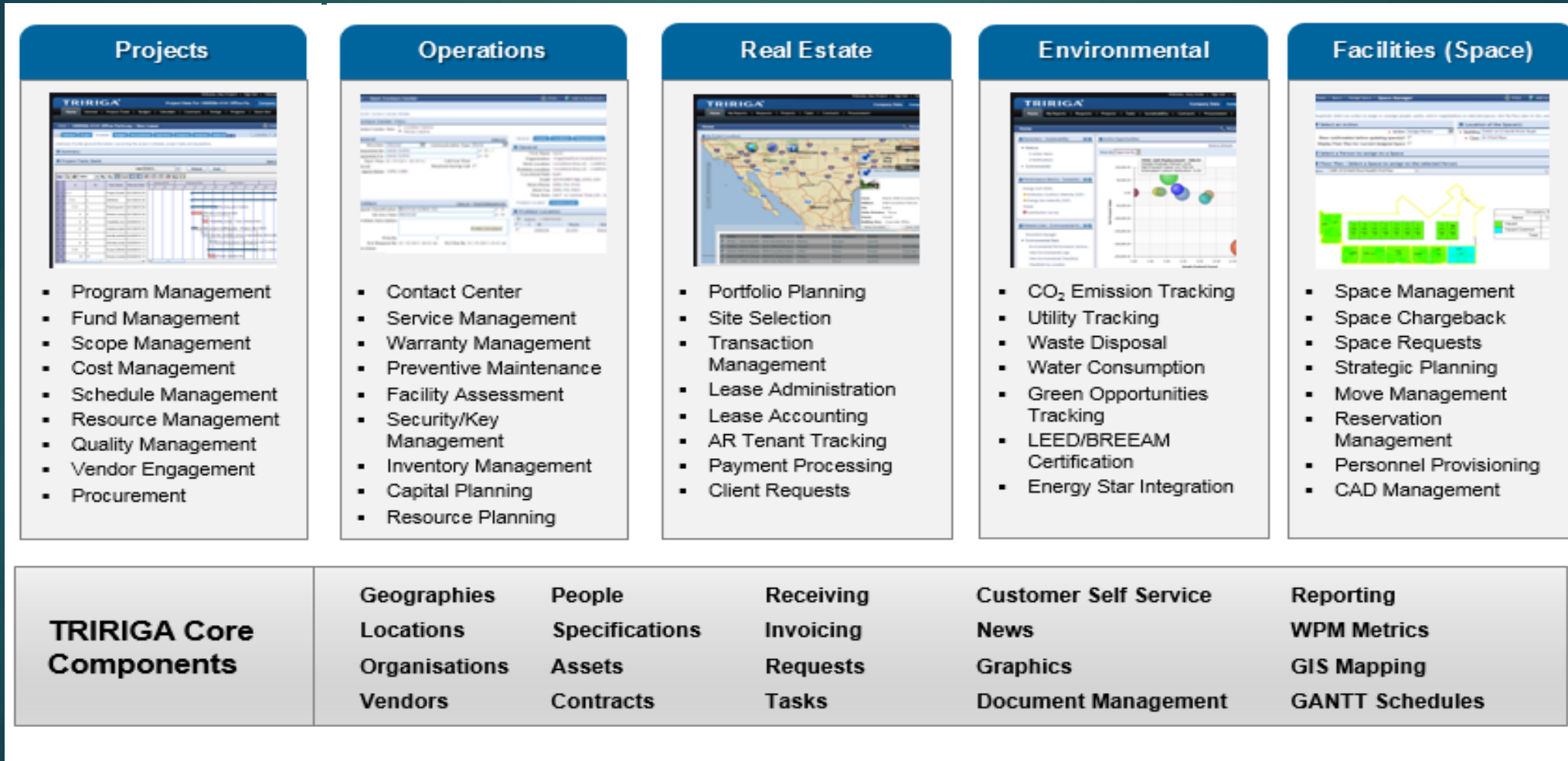
People's Needs Defining Change



- Proactive Collective Leadership
- Engage & Communicate
- Model Shared Values
- Use Evidence & Lever Technologies
- Network & Partner
- Be Accountable for Performance
- Support Behaviour Change
- Invest in People & Teams
- Understand Personal Experiences



Manage the Asset – IBM “TriRiga”

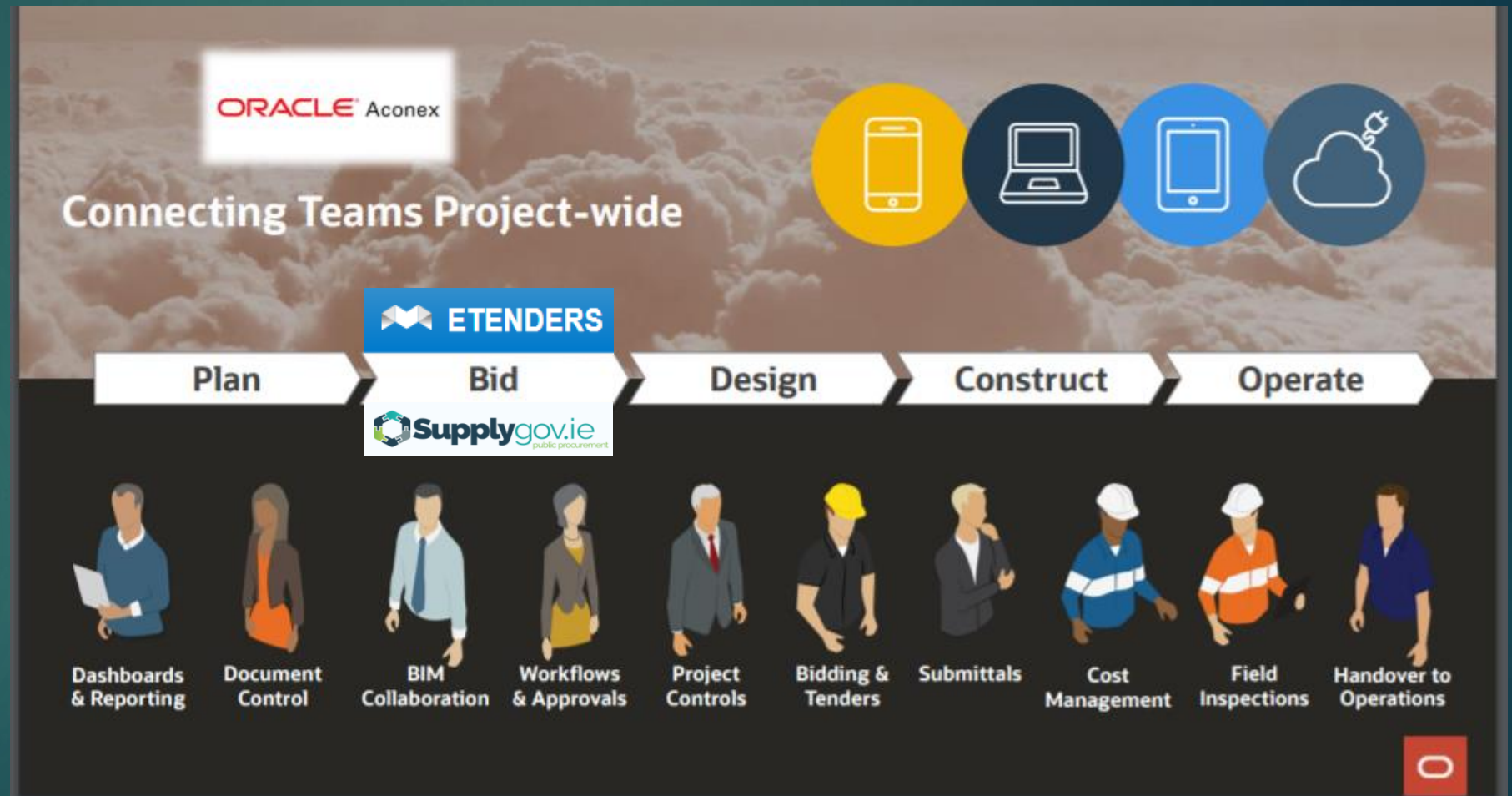


Construction Management



Projects

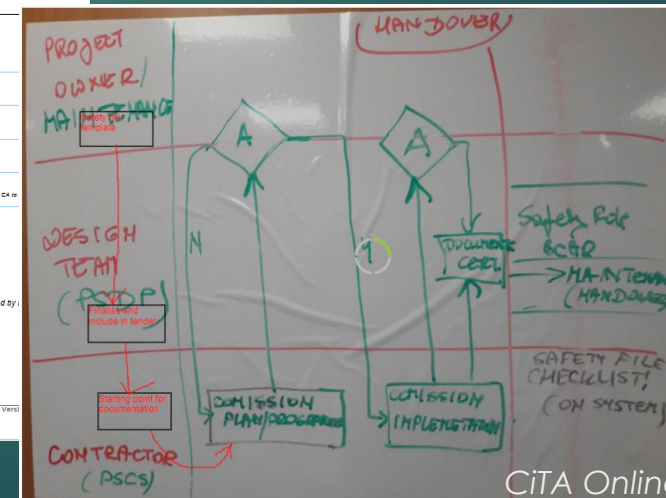
- Program Management
- Fund Management
- Scope Management
- Cost Management
- Schedule Management
- Resource Management
- Quality Management
- Vendor Engagement
- Procurement



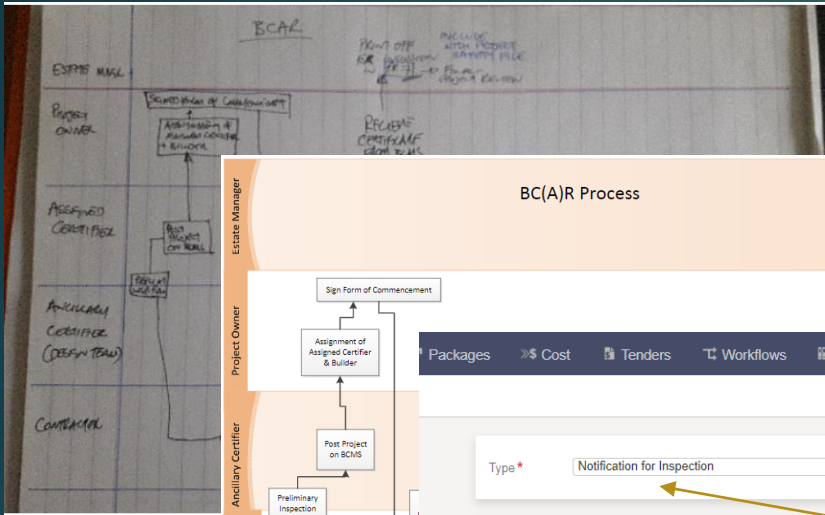
Where to start...



- Public Works Contracts
- HSE Capital & Estates Protocols
- Technical Requirements & Scope of Services
- Internal Processes



From process workflows to “Mail Forms” and beyond...



BC(A)R Process

Sign Form of Commencement

Assignment of Assigned Certifier & Builder

Post Project on BCMS

Preliminary Inspection Plan

Prepare Inspect Notification Framework

Include Certificate in PS 7 (Final Project Review)

Receive copy of Certificate of

Package Cost Tenders Workflows Supplier Documents Directory Insights Setup

Type * Notification for Inspection

To [Directory]

Cc [Directory]

Response Required -- Select --

Subject *

Details

Element for Inspection *

INF Reference *

Inspection Required By * -- Select --

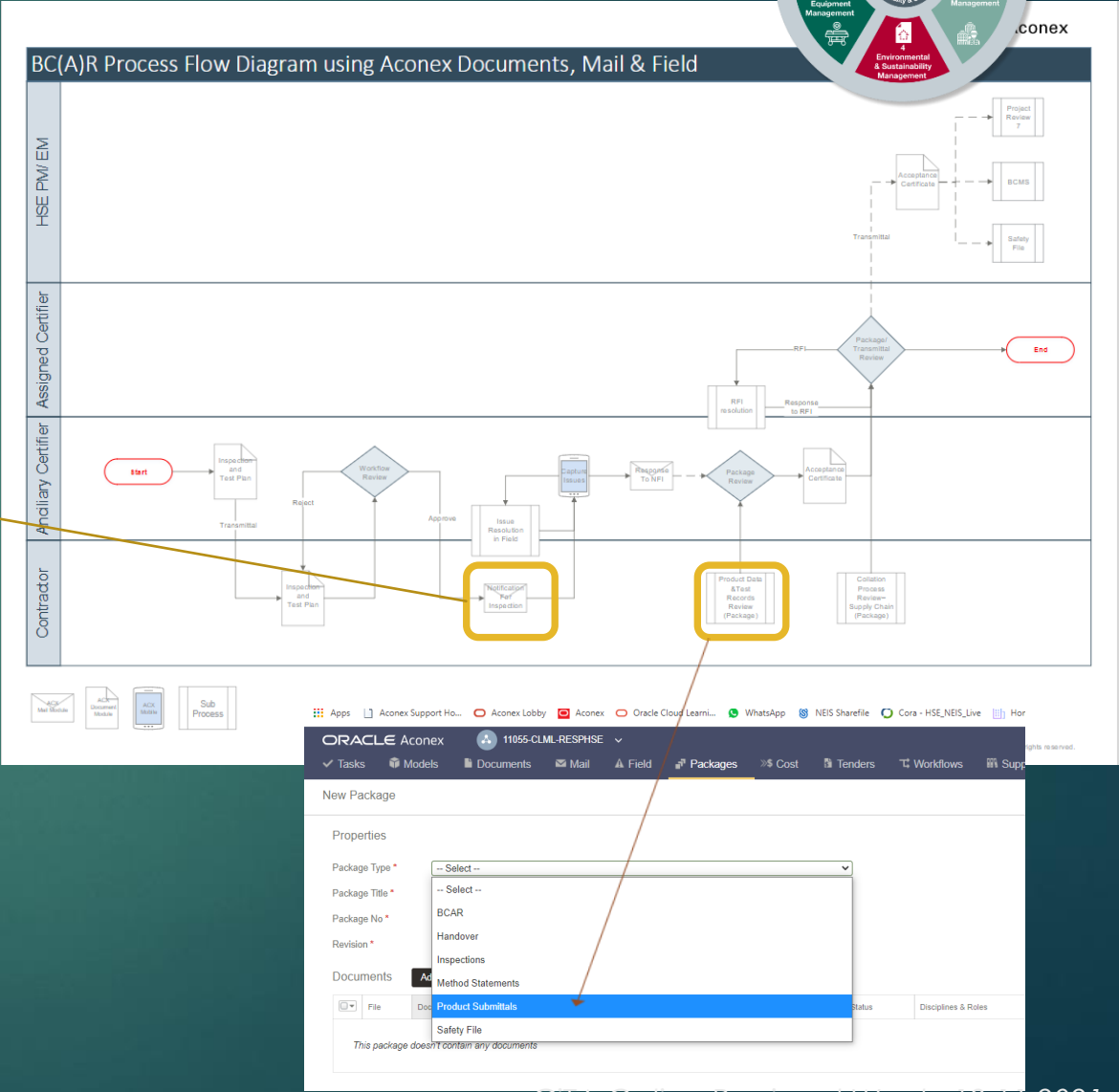
Date ready for Inspection *

Related Documents *























Message

Select auto text [Michael (default)]








Font Size B I U A [More...]



PWCF – 22 Process Flows

<input type="checkbox"/>	Name
<input type="checkbox"/> ☆ 	PW-CF8 Proposed Instruction 7.4.pdf
<input type="checkbox"/> ☆ 	PW-CF11 Task Order.pdf
<input type="checkbox"/> ☆ 	PW-CF7 Proposed Instruction 7.5.pdf
<input type="checkbox"/> ☆ 	PW-CF7 Contractors Claim 7.7.pdf
<input type="checkbox"/> ☆ 	PW-CF1 to PW-CF5 Contractors Claim 10.3.pdf
<input type="checkbox"/> ☆ 	PW-CF6 Contractors Claim 4.8.pdf
<input type="checkbox"/> ☆ 	PW-CF1 to PW-CF5 Proposed Instruction 10.4.pdf
<input type="checkbox"/> ☆ 	PW-CF6 Proposed Instruction 4.7.pdf
<input type="checkbox"/> ☆ 	PW-CF1 to PW-CF5 Meeting Minutes 4.15.2.pdf
<input type="checkbox"/> ☆ 	PW-CF1 to PW-CF5 Notice of Delay 9.3.pdf
<input type="checkbox"/> ☆ 	PW-CF1 to PW-CF5 Employers Claim 10.9.pdf
<input type="checkbox"/> ☆ 	PW-CF6 Employers Claim 4.9.pdf
<input type="checkbox"/> ☆ 	PW-CF8 Task 4.1.pdf
<input type="checkbox"/> ☆ 	PW-CF11 Proposed Task Order.pdf
<input type="checkbox"/> ☆ 	PW-CF7 Task 4.1.pdf
<input type="checkbox"/> ☆ 	PW-CF1 to PW-CF5 Notice of Employer's Obligations 4.11.pdf
<input type="checkbox"/> ☆ 	PW-CF1 to PW-CF5 Value Engineering 4.8.pdf
<input type="checkbox"/> ☆ 	PW-CF1 to PW-CF5 Change order sent as Direction 4.5.2.pdf
<input type="checkbox"/> ☆ 	PW-CF8 Payment Claim Notice 7.2.pdf
<input type="checkbox"/> ☆ 	PW-CF1 to PW-CF5 Payment Claim Notice 11.1.pdf
<input type="checkbox"/> ☆ 	PW-CF11 Payment Claim Notice 6.6.pdf
<input type="checkbox"/> ☆ 	PW-CF7 Payment Claim Notice 7.2.pdf














PPP – 7 Process Flows

<input type="checkbox"/>	Name
<input type="checkbox"/> ☆ 	PPP Dispute Resolution CI 44.pdf
<input type="checkbox"/> ☆ 	PPP Authority Notice of Change SC 20.pdf
<input type="checkbox"/> ☆ 	PPP Compensation Event CI 41.pdf
<input type="checkbox"/> ☆ 	PPP Relief Event CI 42.pdf
<input type="checkbox"/> ☆ 	PPP Small Works variation CI 29.pdf
<input type="checkbox"/> ☆ 	PPP PPP Co Notice of Change SC 20.pdf
<input type="checkbox"/> ☆ 	PPP Design Review Objection CI 08 SC 05.pdf

114 Mail Types configured

277 Mail Types configured

Core – 13 Process Flows

-  Aconex Core CDE-BC(A)R using Aconex Documents, Mail & Field
-  Aconex Core CDE-Change Order Management
-  Aconex Core CDE-Design Query
-  Aconex Core CDE-Request For Information
-  Aconex Core CDE-Safety File
-  Budget Change Request
-  Design Team Submittals
-  Goods Receive Note Process
-  Project Stage Reviews Band B
-  Project Stage Reviews Band C
-  Project Stage Reviews Band D
-  Project Status Report
-  Purchase Order Process

Combination of:

- Mail
- Packages
- Workflows



Core Functions

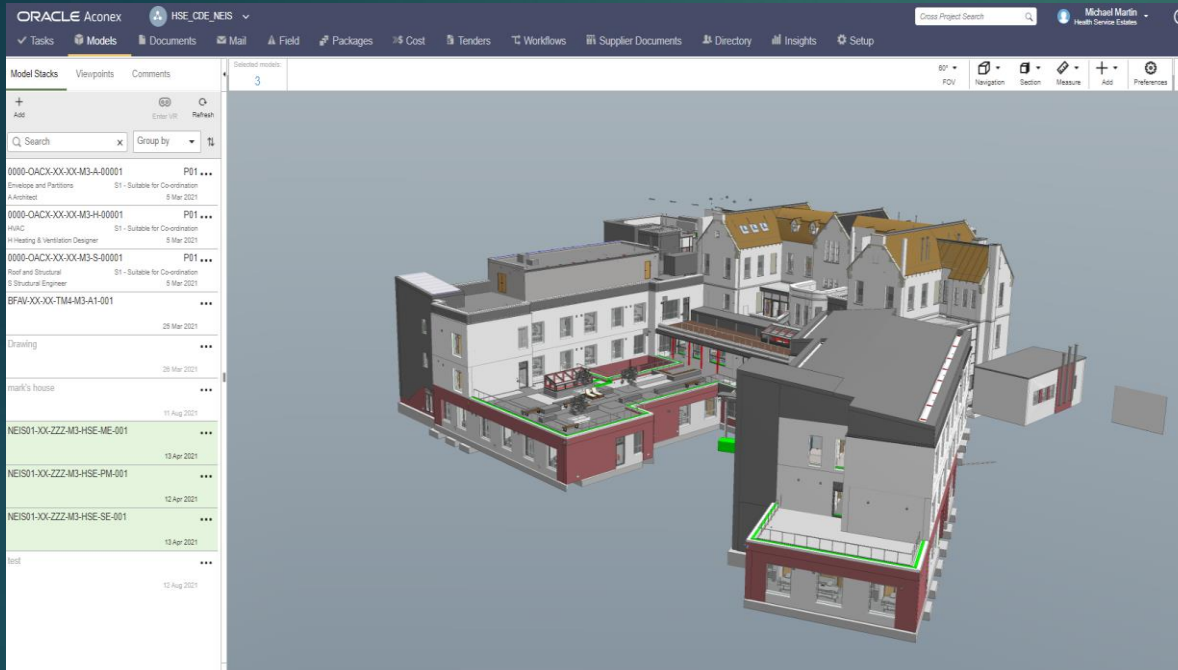
- Common Data Environment
- Document Control / Management
- Communication (Mail)
- Packages & Workflows
- Field Application



- No limit on Space
- Accessible through internet by Client / Design Team / Contractor
- SaaS procured by HSE i.e. no cost to partners
- System Neutrality is key



Aconex Models Module



- Common Data Environment
- OpenBIM IFC Format OR Native RVT Upload
- Federates Design Team Models
- Simple UI
- Integrated Viewer

- Ability to cut multiple sections
- Ideal for Design Reviews with non-Technical Hospital Staff
- Communicate Design early & easily
- Reducing Consultation Time

Aconex Models Module

The screenshot shows the Aconex Models Module interface. On the left, there's a list of design issues with filters for status (Closed, Open), priority (Error, Warning, Clash, Information), and assignee. The main area displays a 3D model snapshot of a building interior with a red circle highlighting a specific area. Below the snapshot, there's a 'Model viewpoint' section showing a different perspective of the same model. The right sidebar contains details about the selected issue, including its description, assignee, due date, and a list of viewpoints.

- Design Review Tool
- Identify, Capture & Allocate Issues
- Details – Viewpoint Snapshot (with comments)
- Model Viewpoint – to view Context
- Automatic Communication with DT & Assign Issues
- Track actions and tag with metadata for reporting
- List all/any associated native models

The screenshot shows the Aconex Models Module dashboard. It features a 'Dashboard' section with an 'Issue activity overview' showing a donut chart for issue status (Open, In progress, Overdue, Solved) and a bar chart for issue types (Clash, Error, Information, Warning, Other). The 'Issues assigned to me' section shows a list of issues with filters for status and a 'View issues' button. The 'Issues assigned to my organization' section shows a list of issues with filters for status and a 'View issues' button. The right sidebar contains details about the selected issue, including its description, assignee, due date, and a list of viewpoints.

- Easy to use Dashboard
- Issues assigned to me
 - Issues assigned to my Organisation
 - Issues assigned to other Organisations
 - Open – In Progress – Overdue – Closed

The screenshot shows the Aconex Models Module interface. It features a 3D model snapshot of a building interior with a red circle highlighting a specific area. Below the snapshot, there's a list of associated native models, including their names, versions, and creation dates.

Issue capture can be linked to mail correspondence with embedded link to design issue

The screenshot shows a mail correspondence in the Aconex Models Module. It includes a header with the NEIS logo and contact information. The main body of the email contains a 'DESIGN ISSUE' section with a list of issues, including their status, priority, assignee, due date, and issue set. A 'MESSAGE' section follows, containing a 'Clash Details' section with a 3D model snapshot and a 'View in Design Issues' button.



Expected Benefits



Technologies

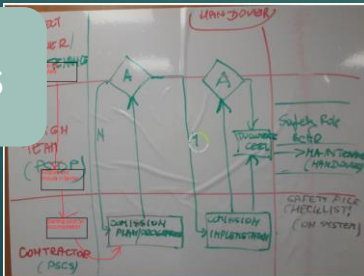


Implementation

People



Processes



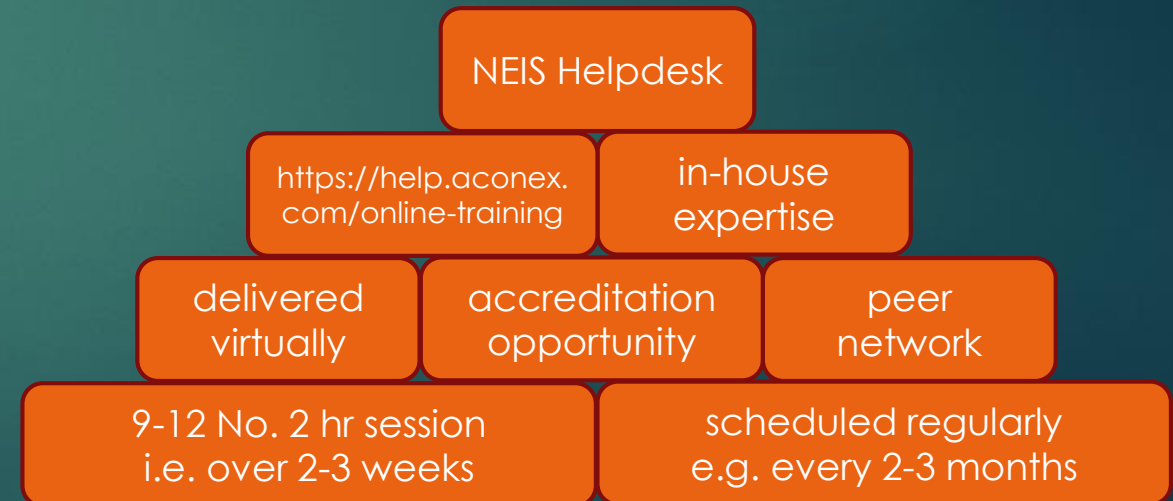
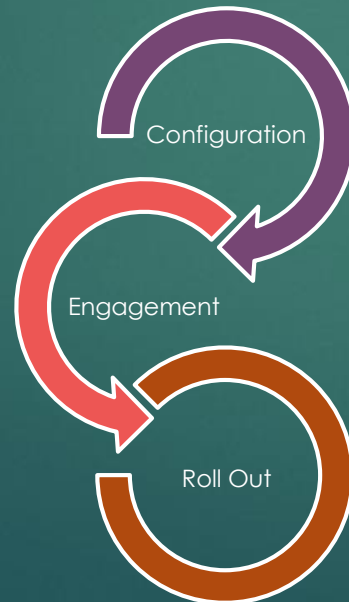
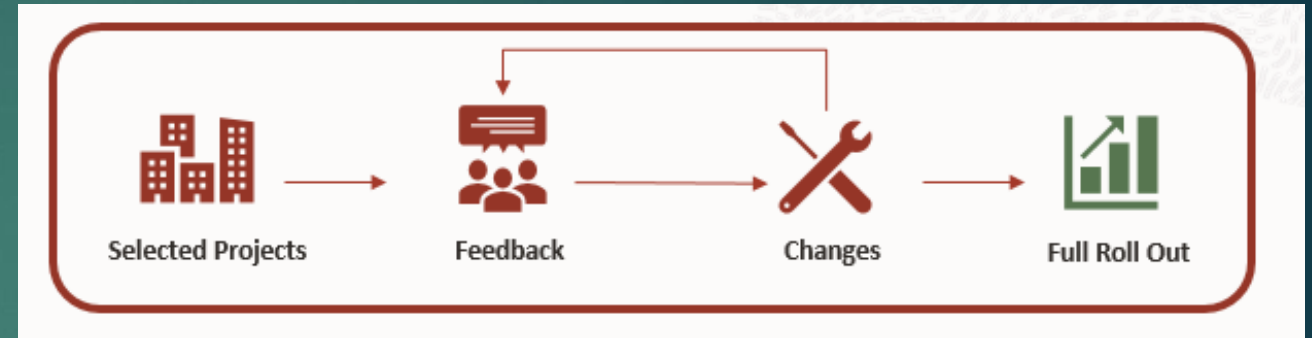
- ▶ Better Information Management
- ▶ Better Integration of Project Teams
- ▶ Better Collaboration
- ▶ Better Communication
- ▶ Better Co-Ordination



Next Steps on the Journey

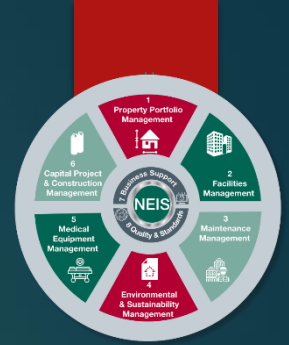


- ▶ Pilot Projects
- ▶ Training & Support
- ▶ Communication
- ▶ Lessons Learned



HSE Capital & Estates

Digital Transformation Journey



- Introduction
- Key Drivers
- NEIS & Oracle Aconex
- Expected Benefits
- Next Steps on the Journey...

"Digital
Transformation is
more about humans
than digital."

BRIAN SOLIS