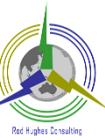




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Experiences in organisational development and specifying IEC 61850 systems

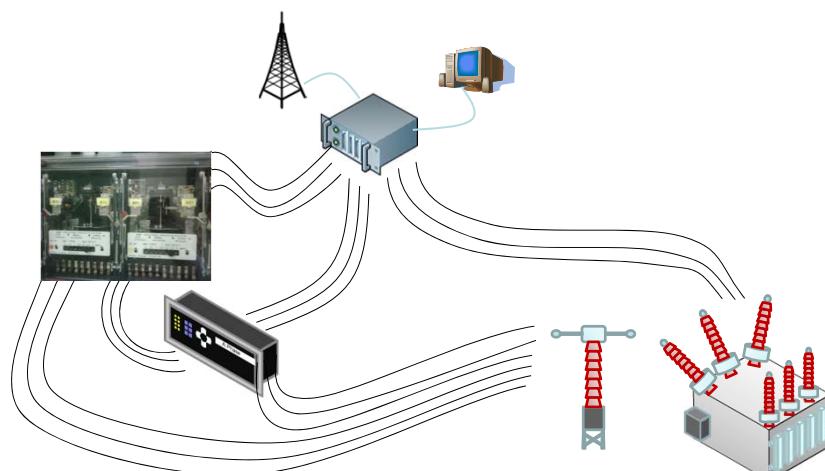
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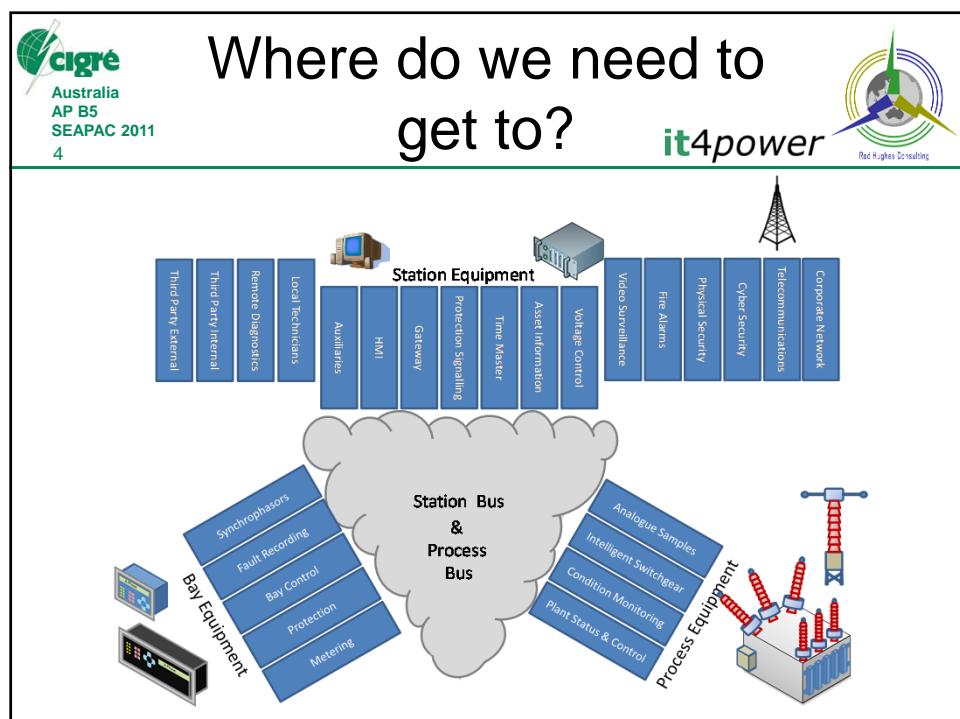
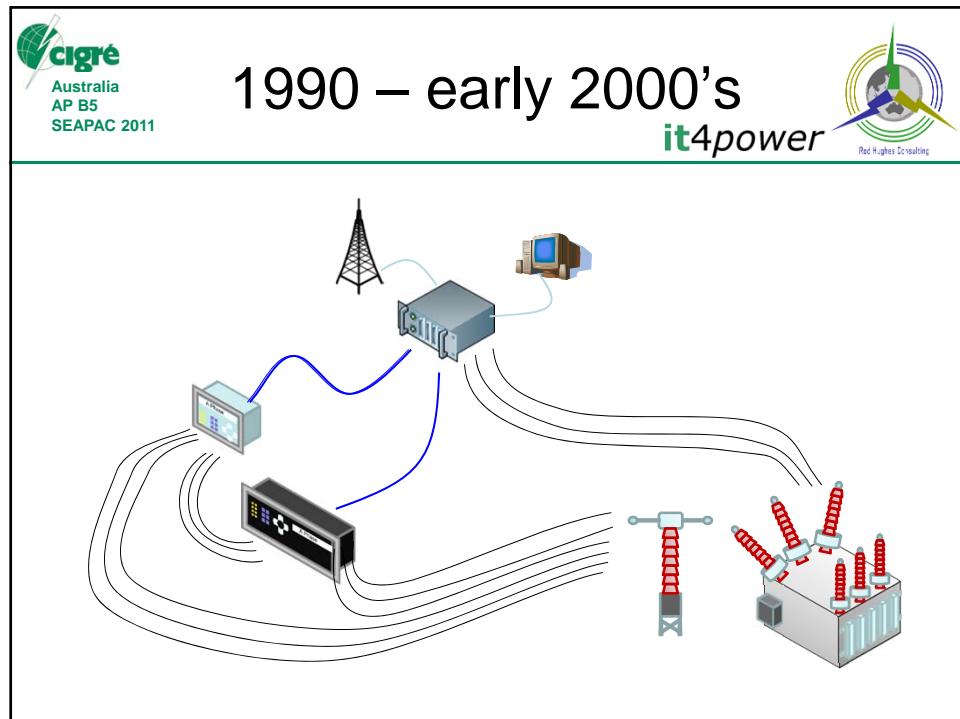


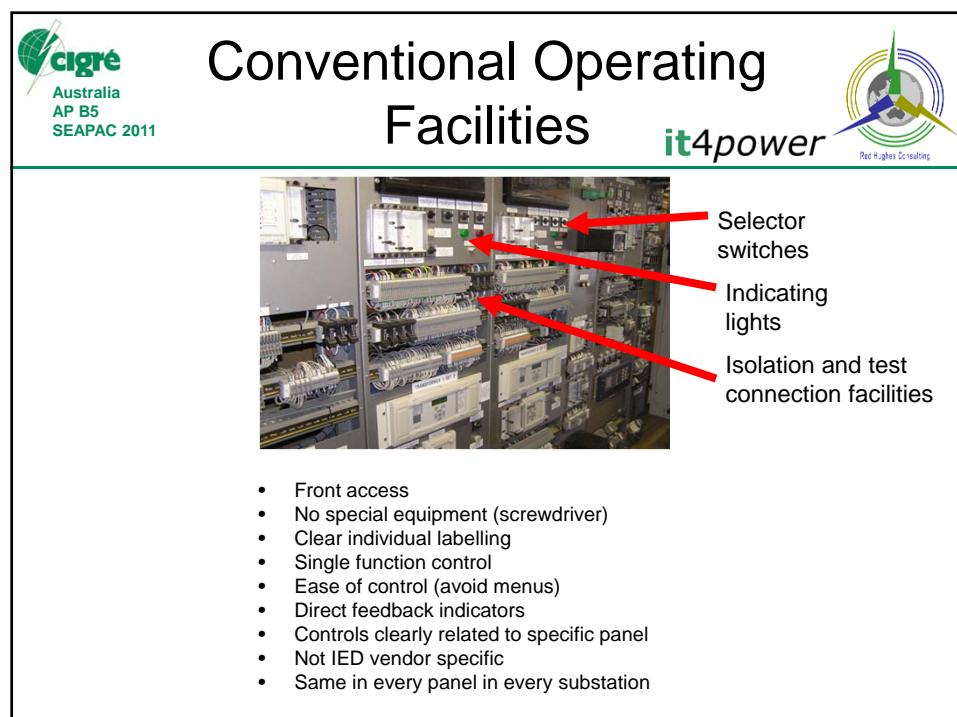
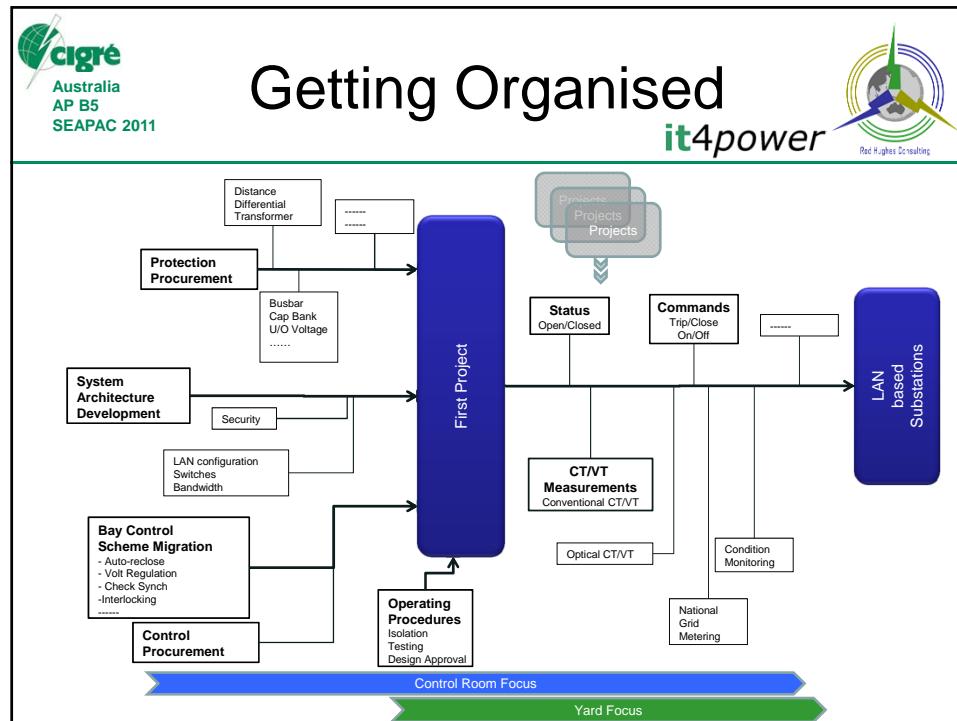
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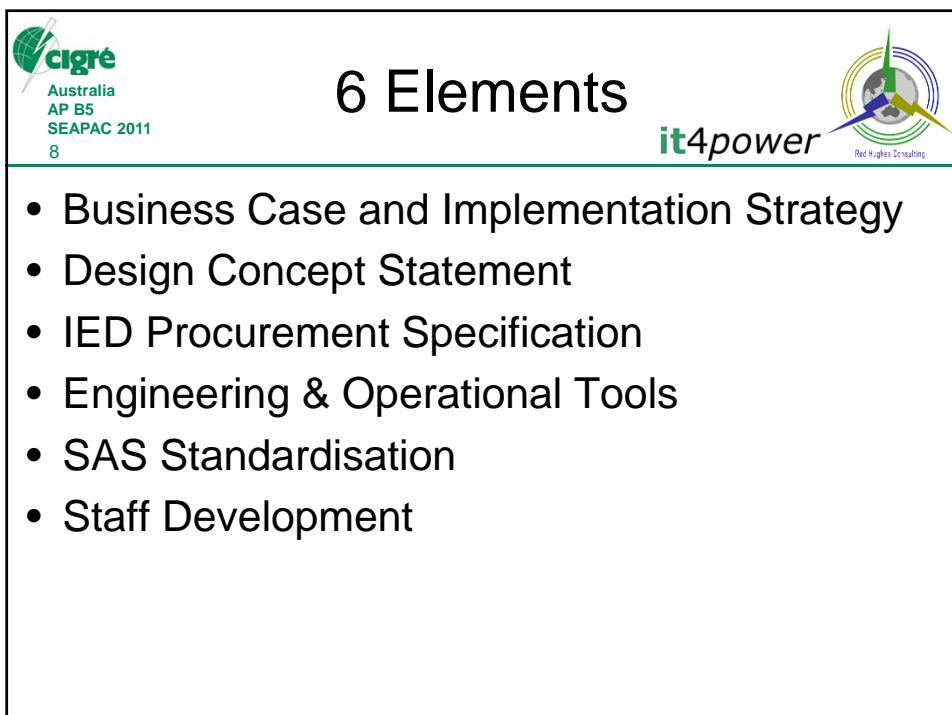
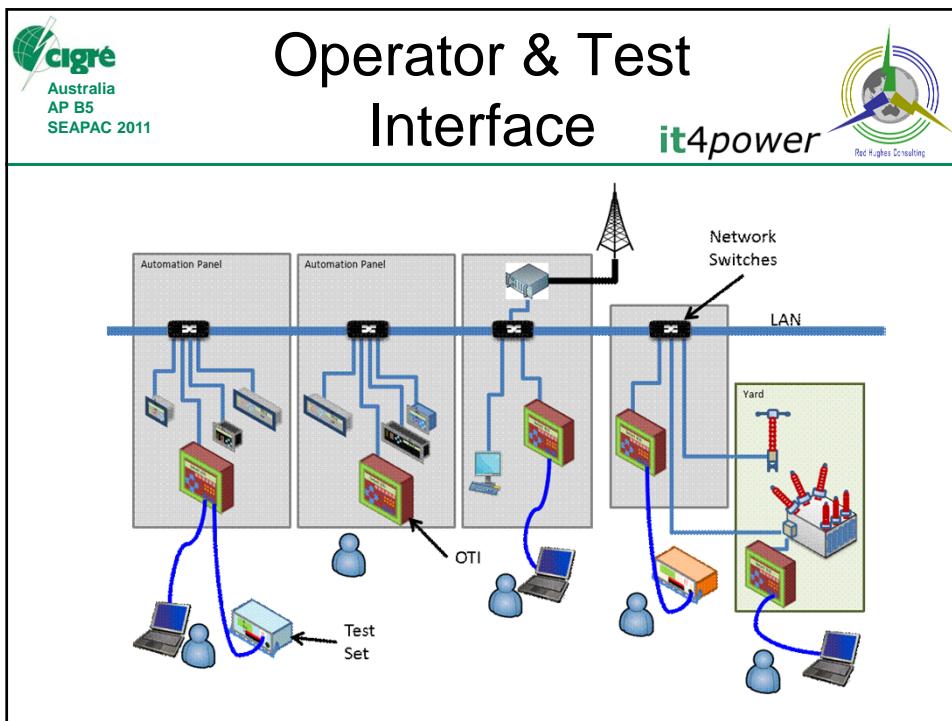
pre-1990's

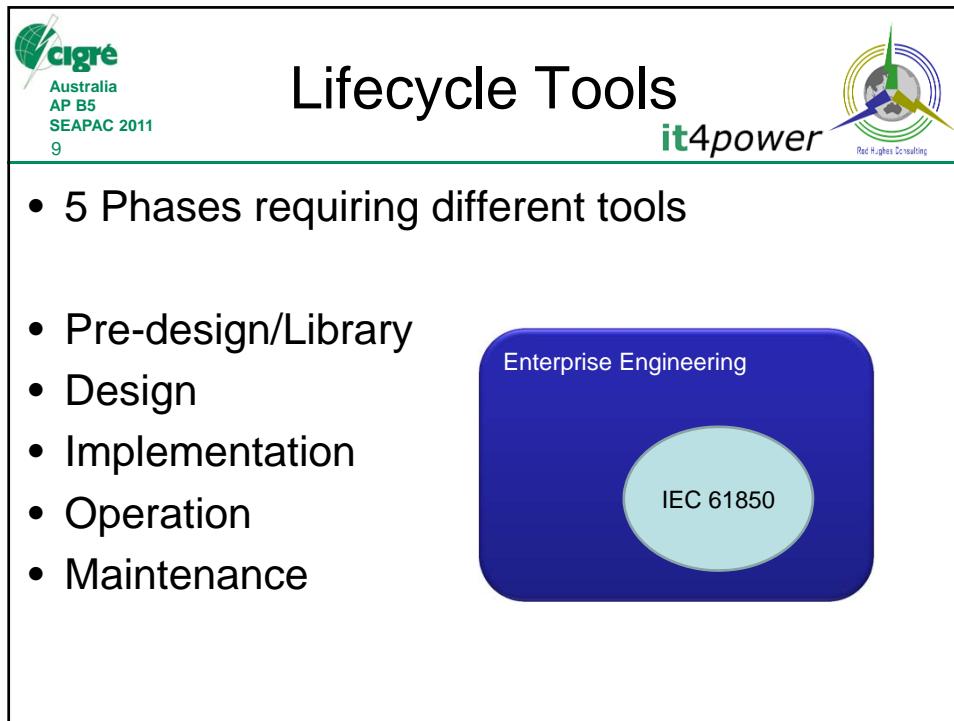
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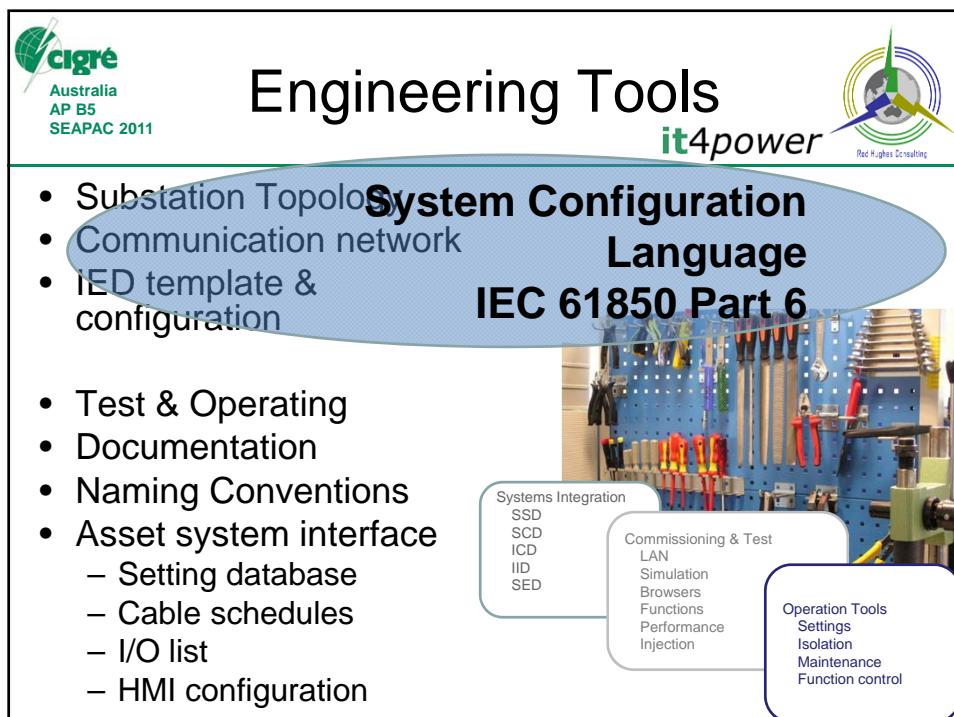
Lifecycle Tools

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- 5 Phases requiring different tools
- Pre-design/Library
- Design
- Implementation
- Operation
- Maintenance

Enterprise Engineering

IEC 61850



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Engineering Tools

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- Substation Topology
- Communication network
- IED template & configuration
- Test & Operating
- Documentation
- Naming Conventions
- Asset system interface
 - Setting database
 - Cable schedules
 - I/O list
 - HMI configuration

System Configuration Language IEC 61850 Part 6

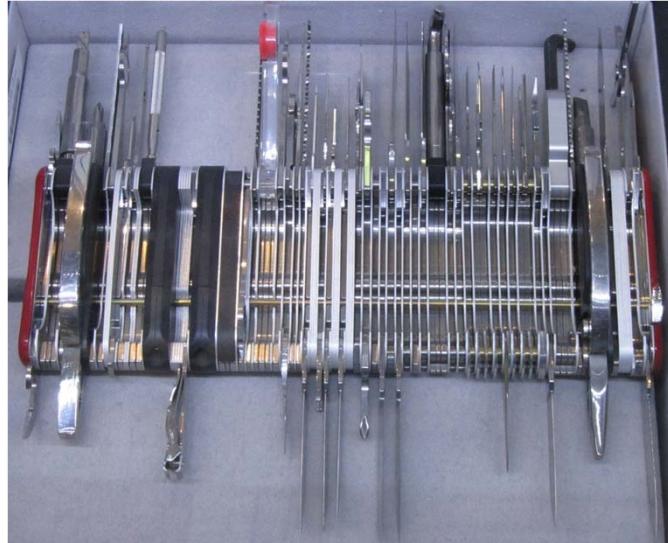


- Systems Integration:
 - SSD
 - SCD
 - ICD
 - IID
 - SED
- Commissioning & Test:
 - LAN
 - Simulation
 - Browsers
 - Functions
 - Performance
 - Injection
- Operation Tools:
 - Settings
 - Isolation
 - Maintenance
 - Function control



The Single Tool?

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Thank You

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