



cigre

Brasil

Comitê Nacional de Produção e
Transmissão de Energia Elétrica

O Futuro da Engenharia de Projetos na Área de Proteção, Automação e Controle de Sistemas Elétricos

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Schedule

State of the Art

Grid Requirements

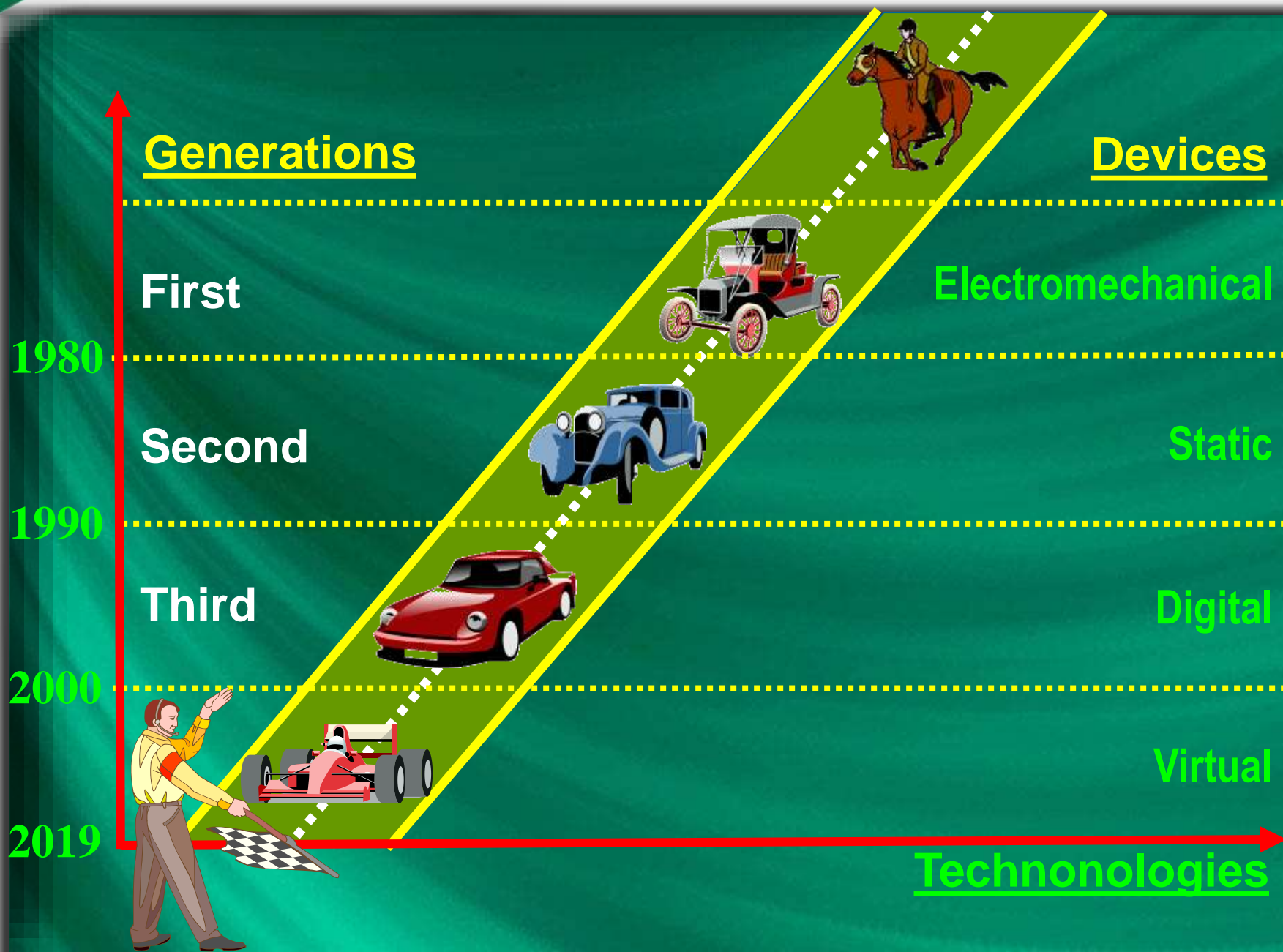
Future Developments

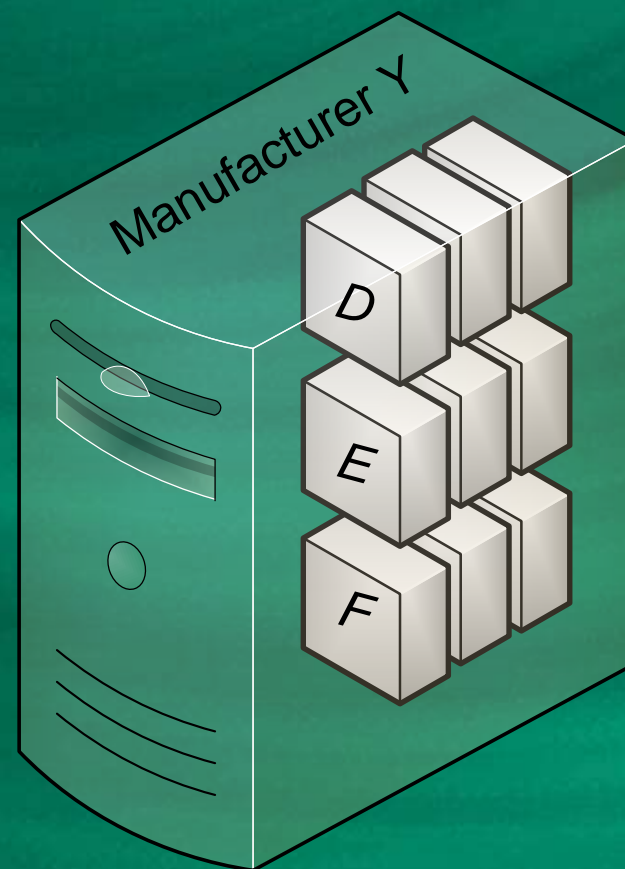
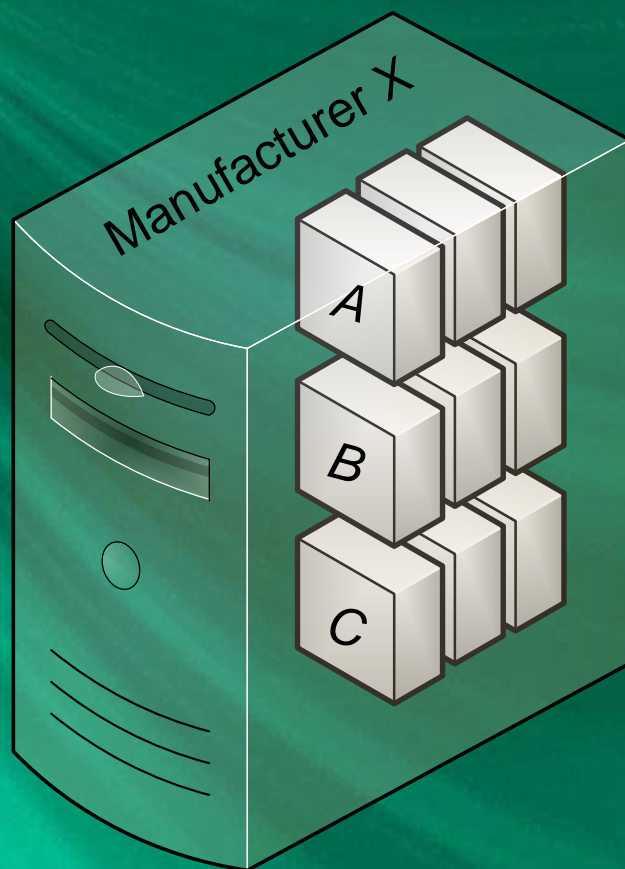


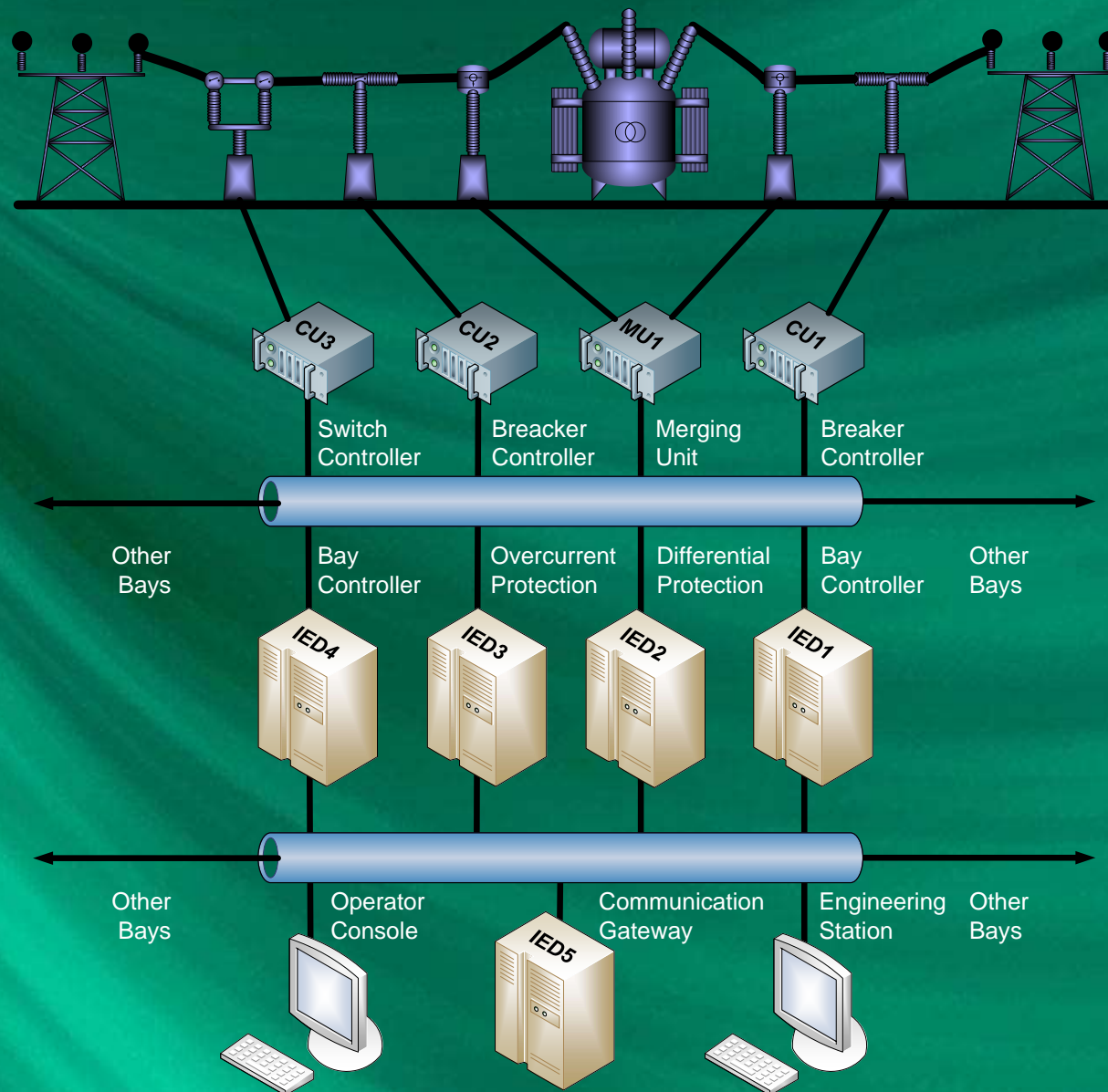
State of the Art

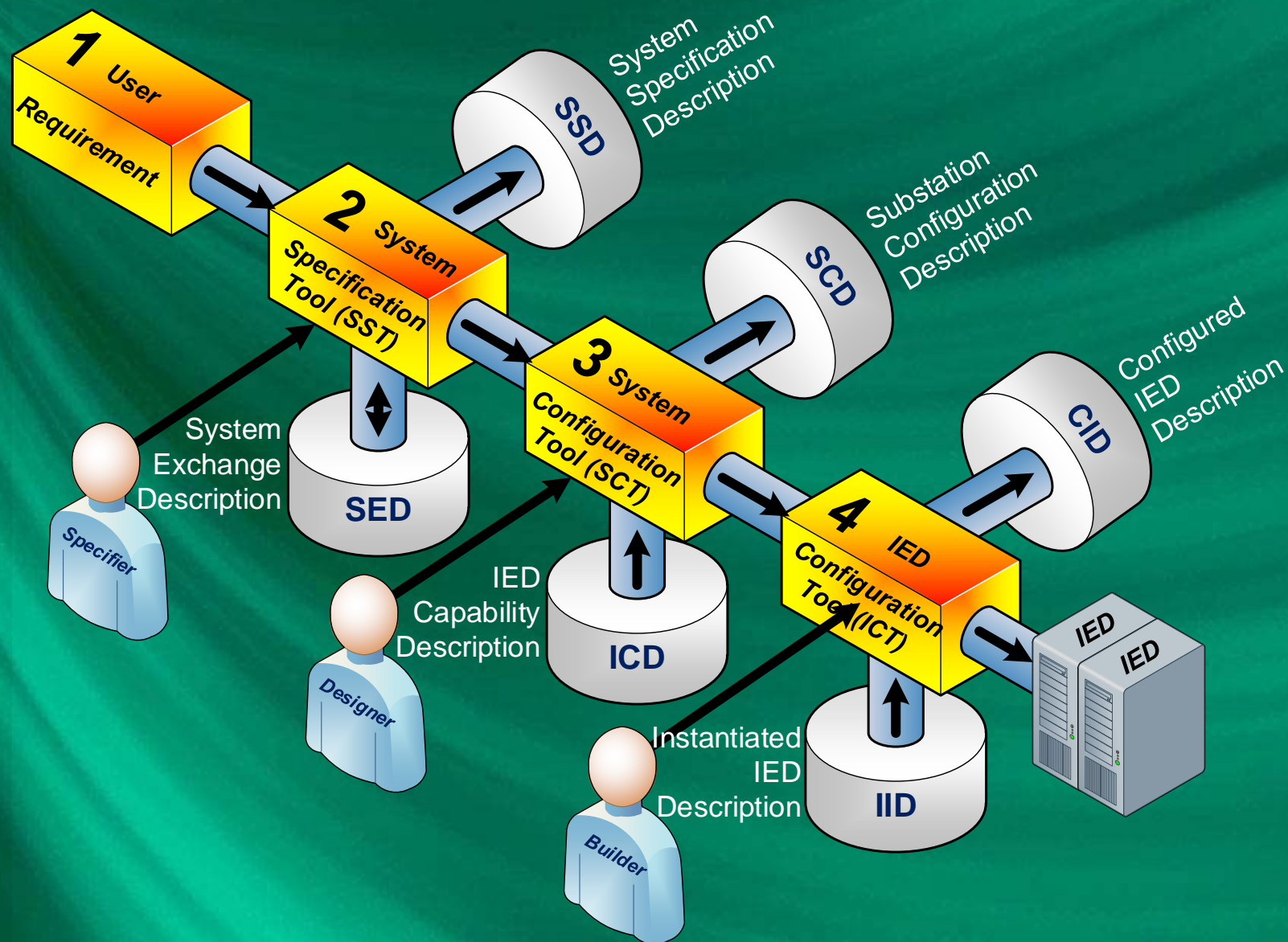


Automation Historical Evolution

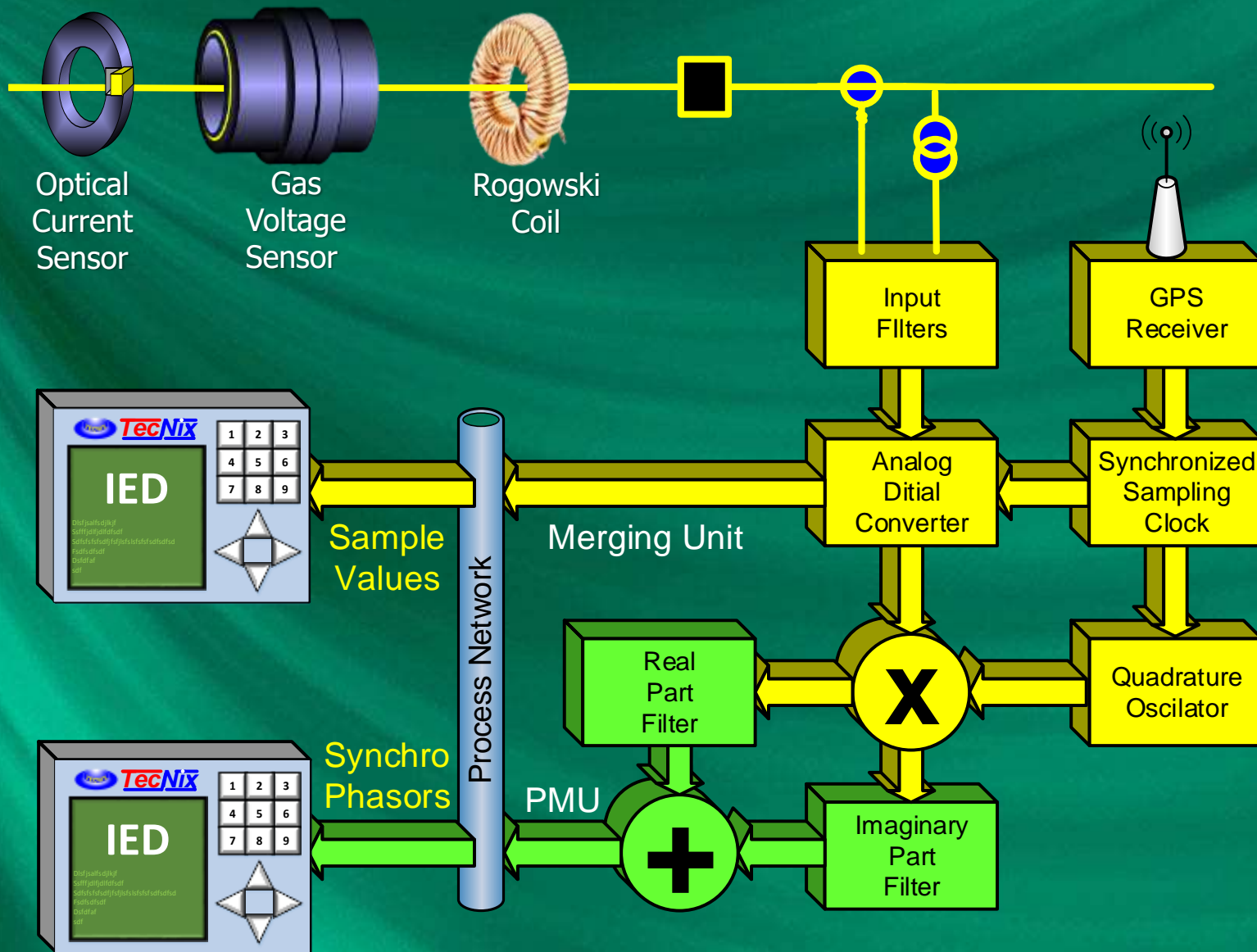


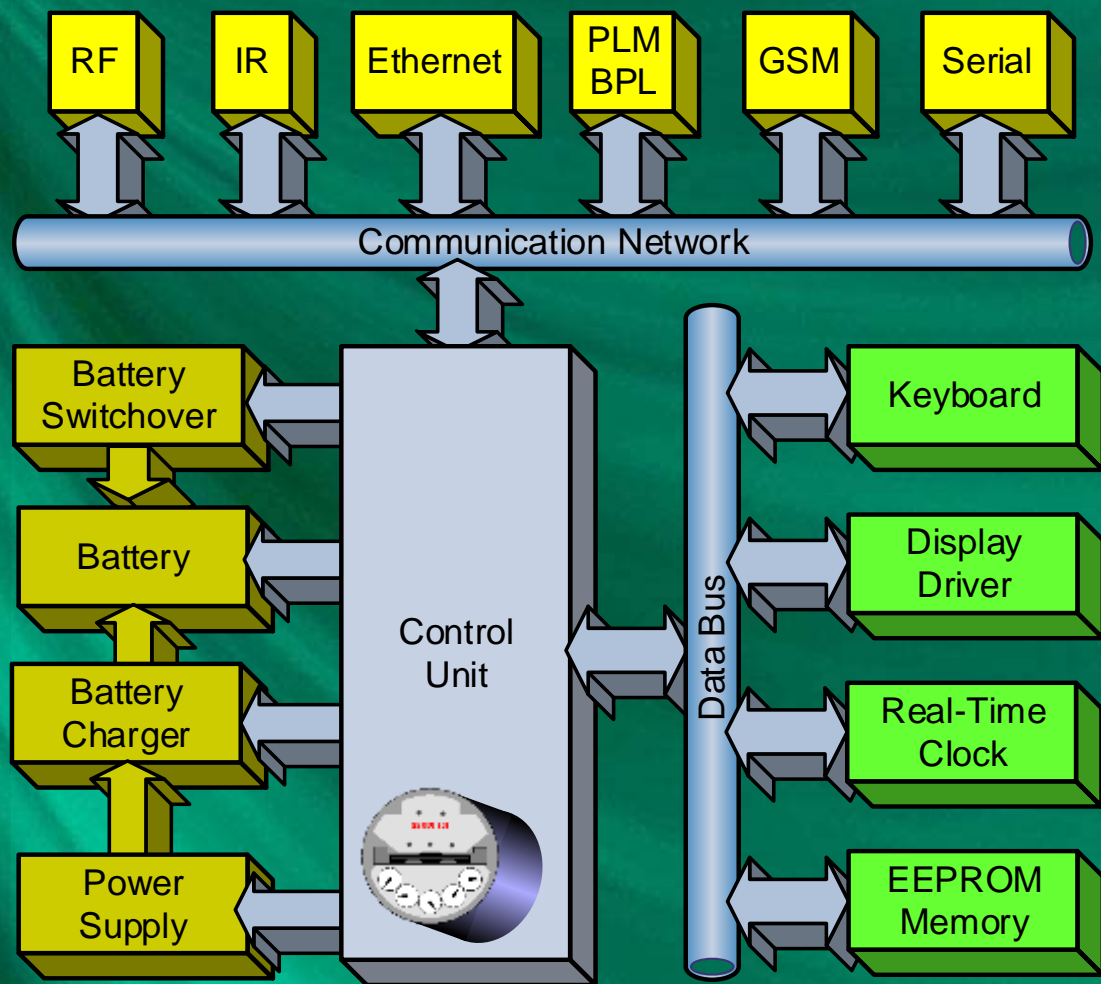


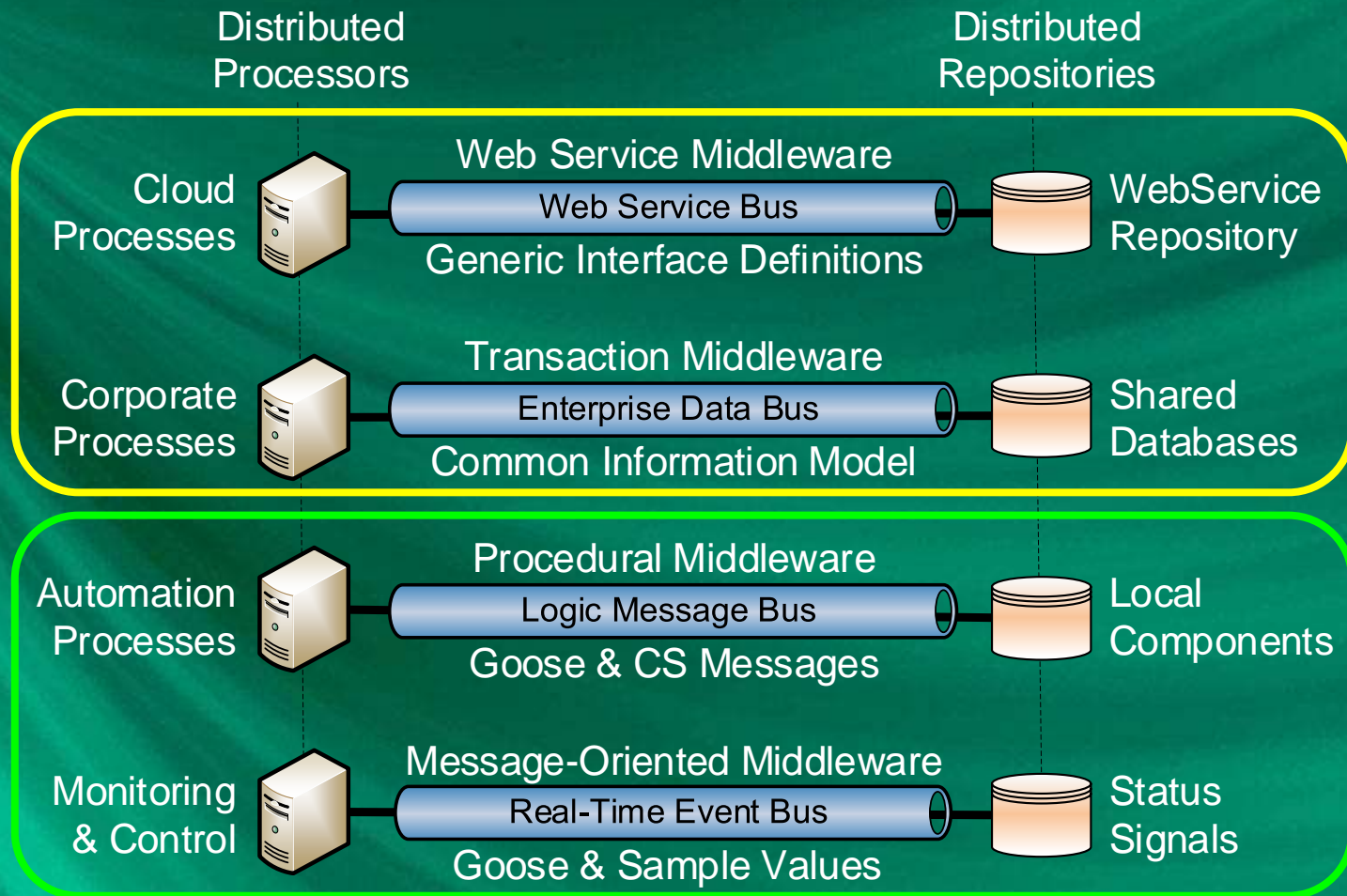




Linear Sensors

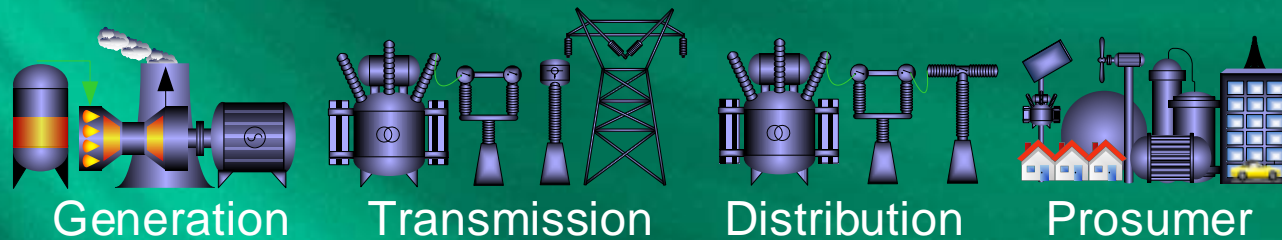




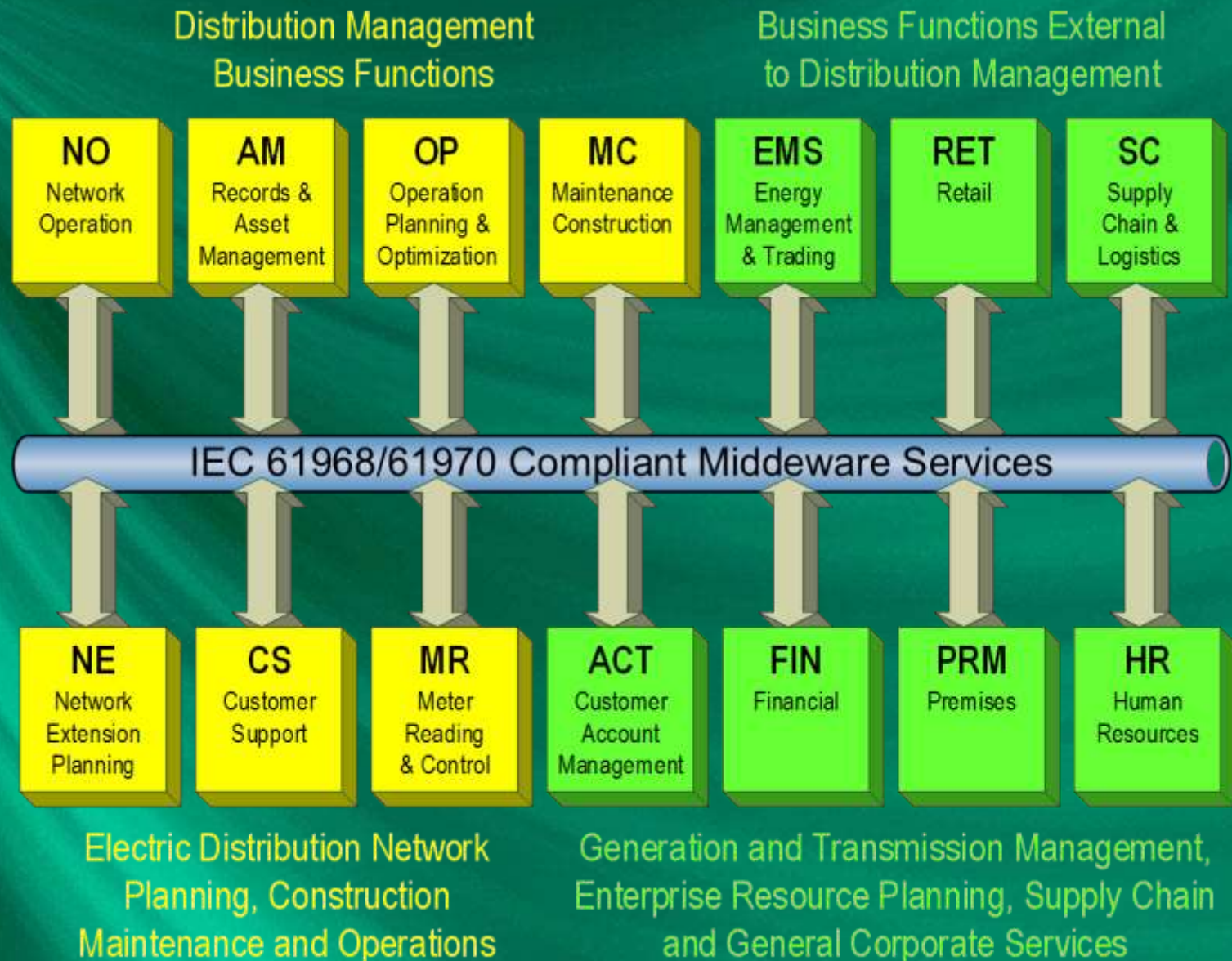


IEC CIM

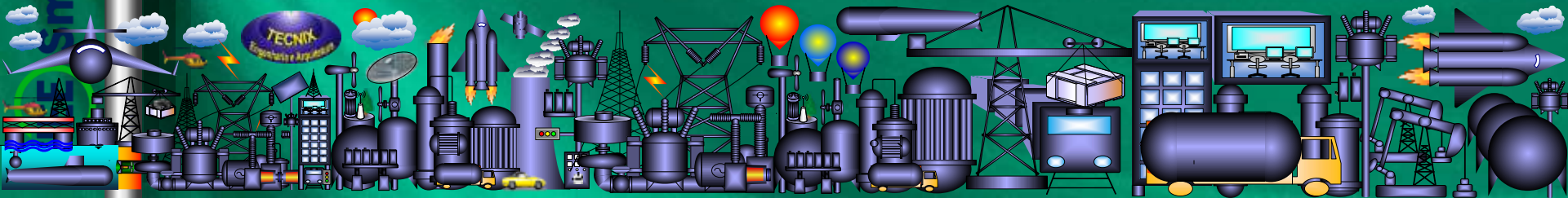
IEC 61850



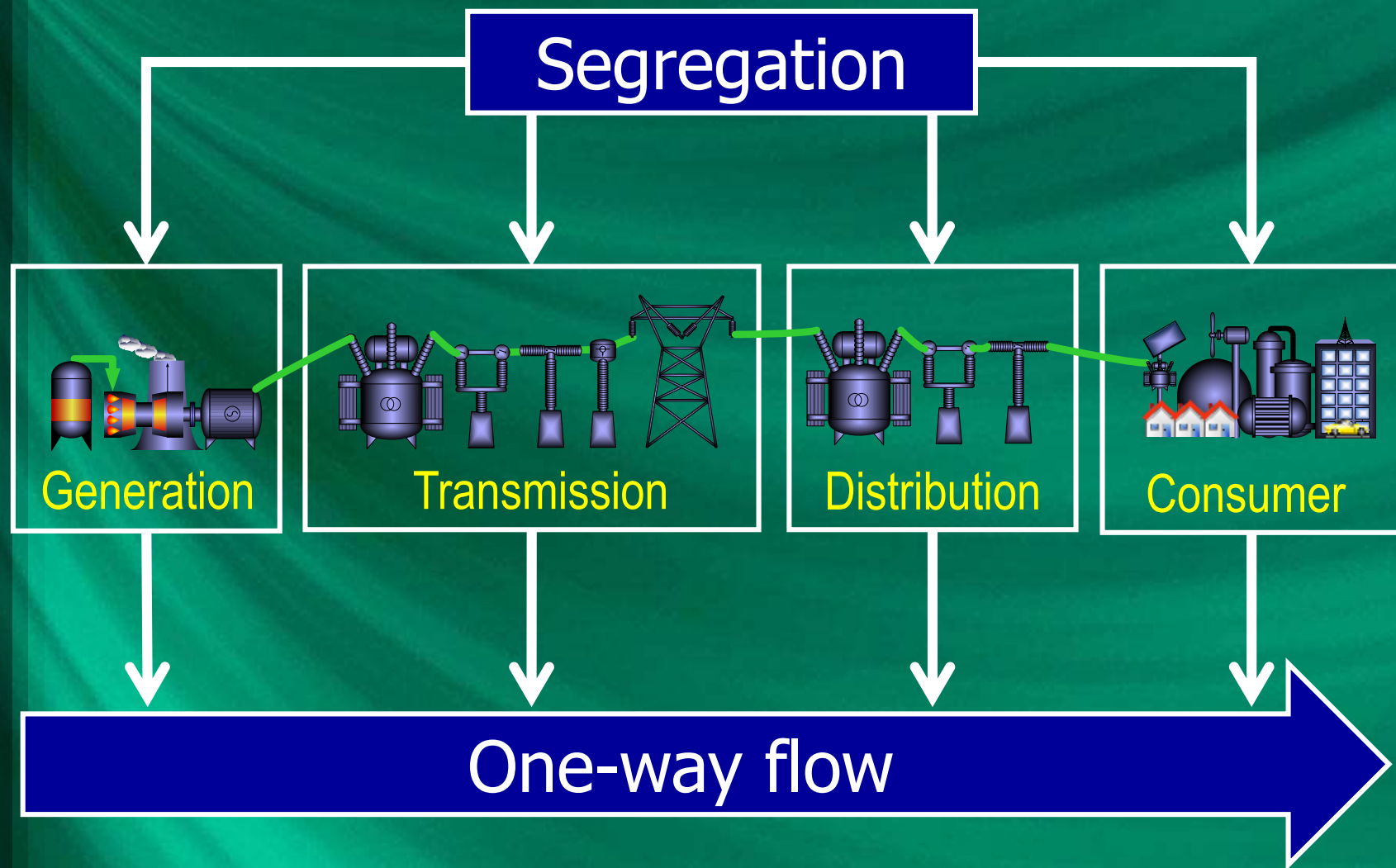
Common Information Model (CIM)

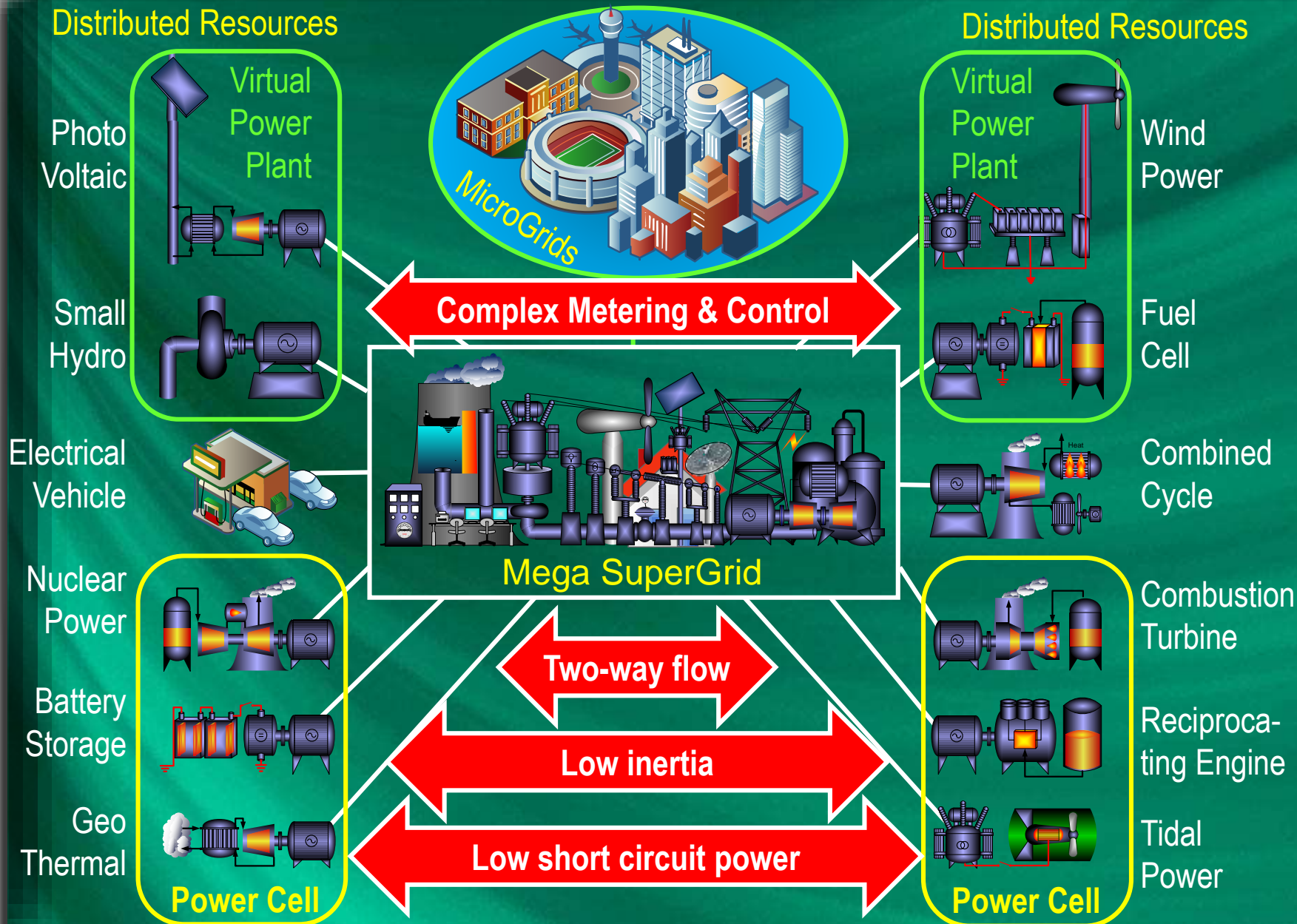


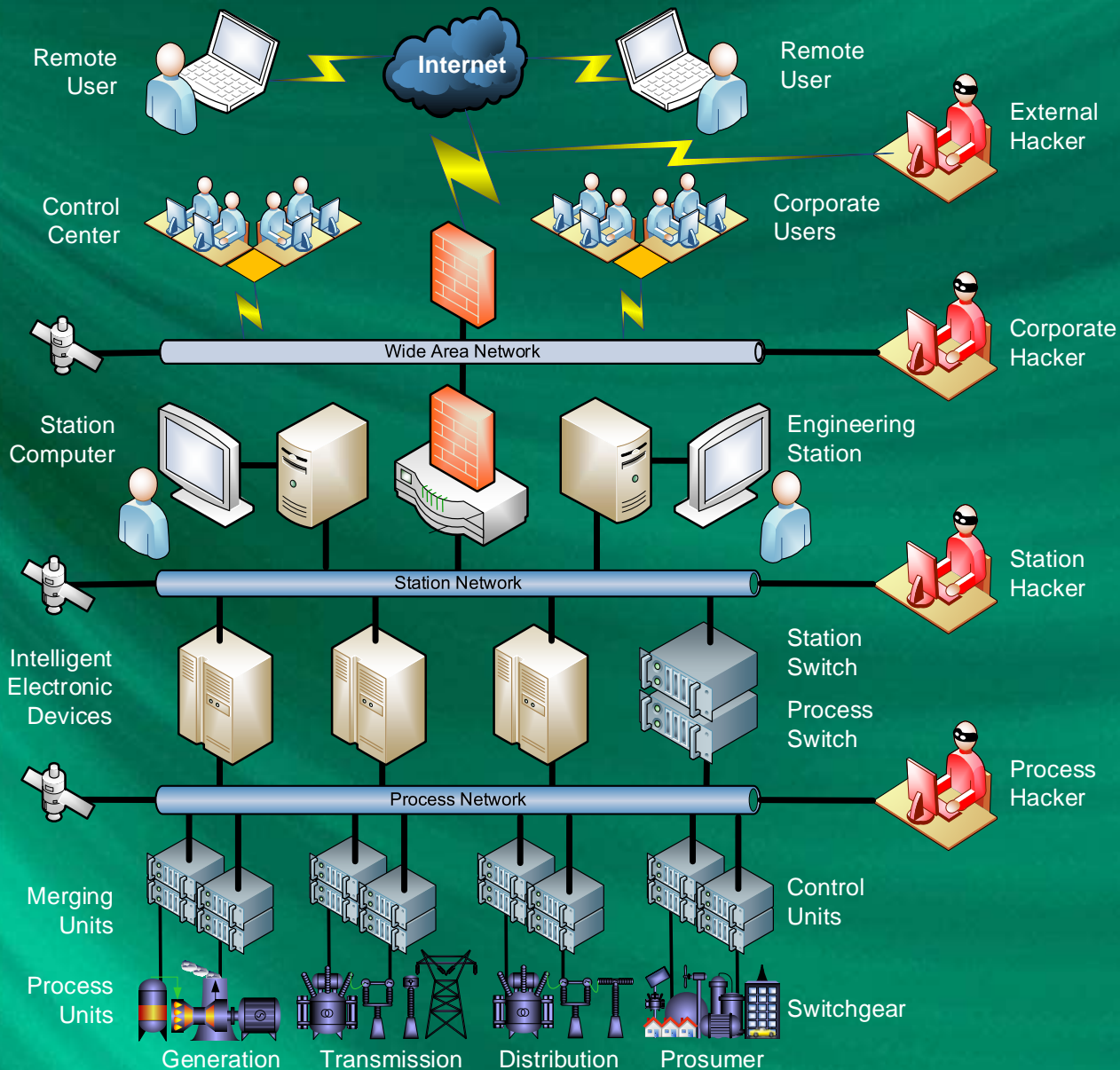
Grid Requirements

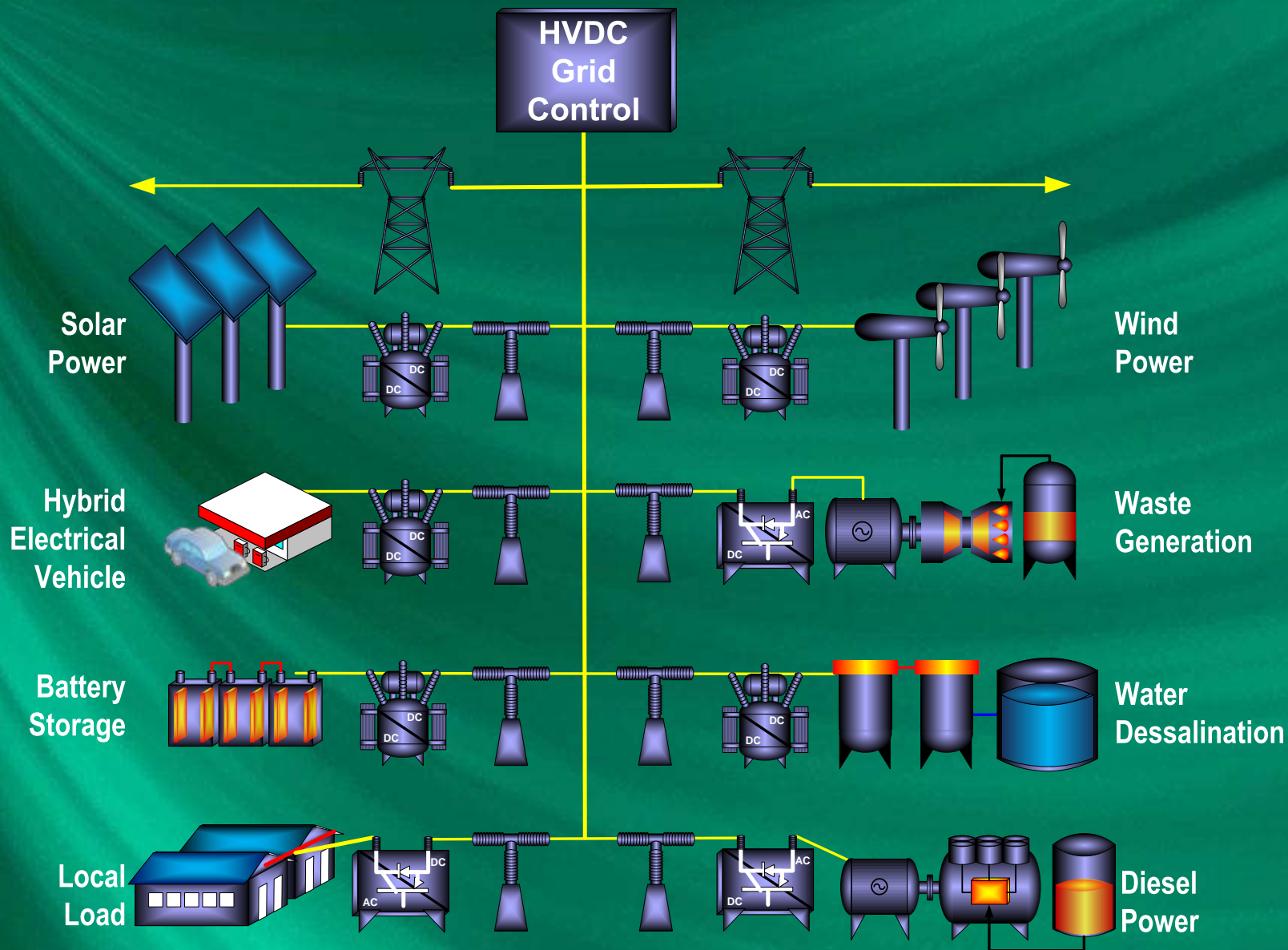


Current Structure of Electrical Grids



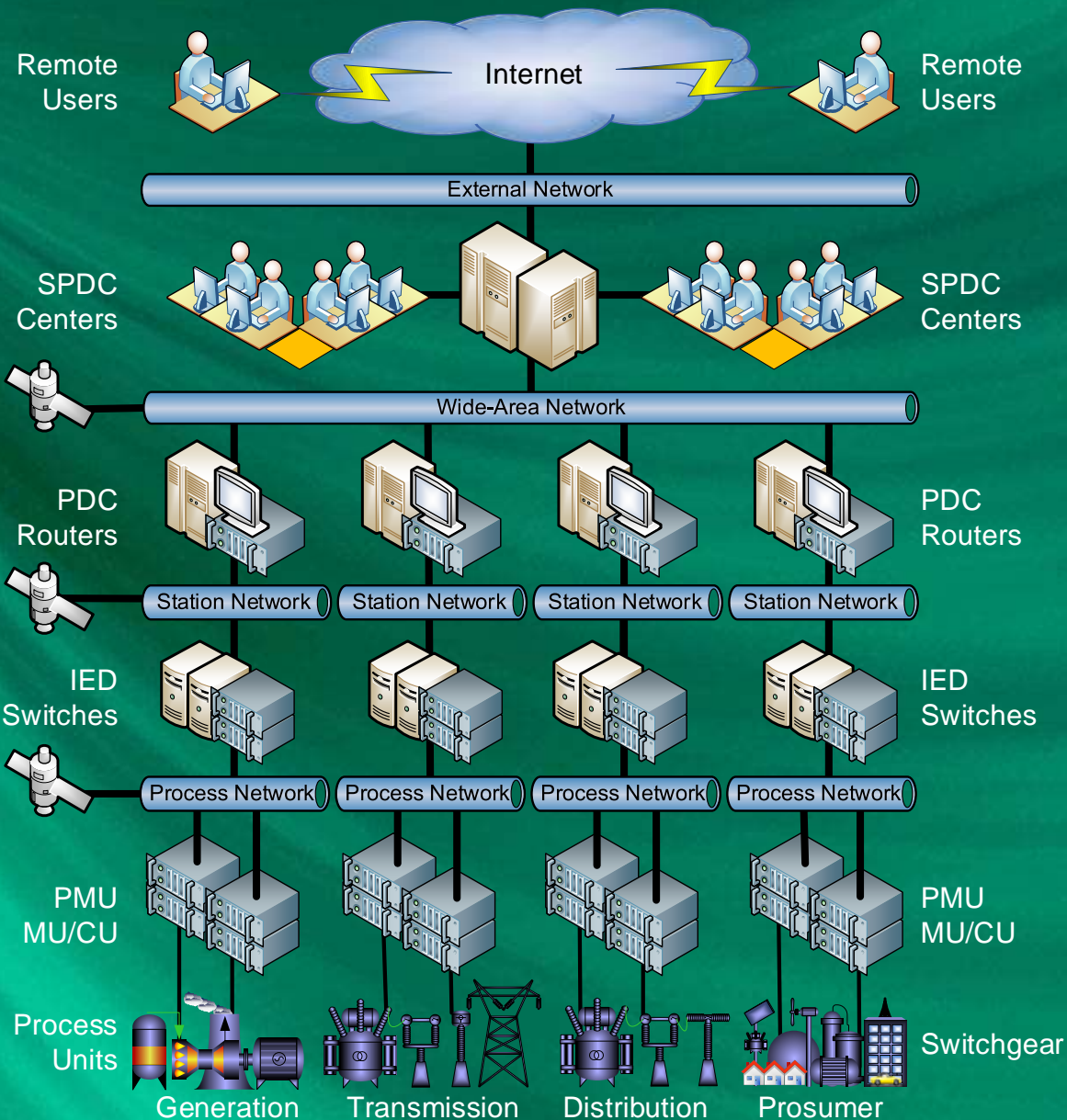


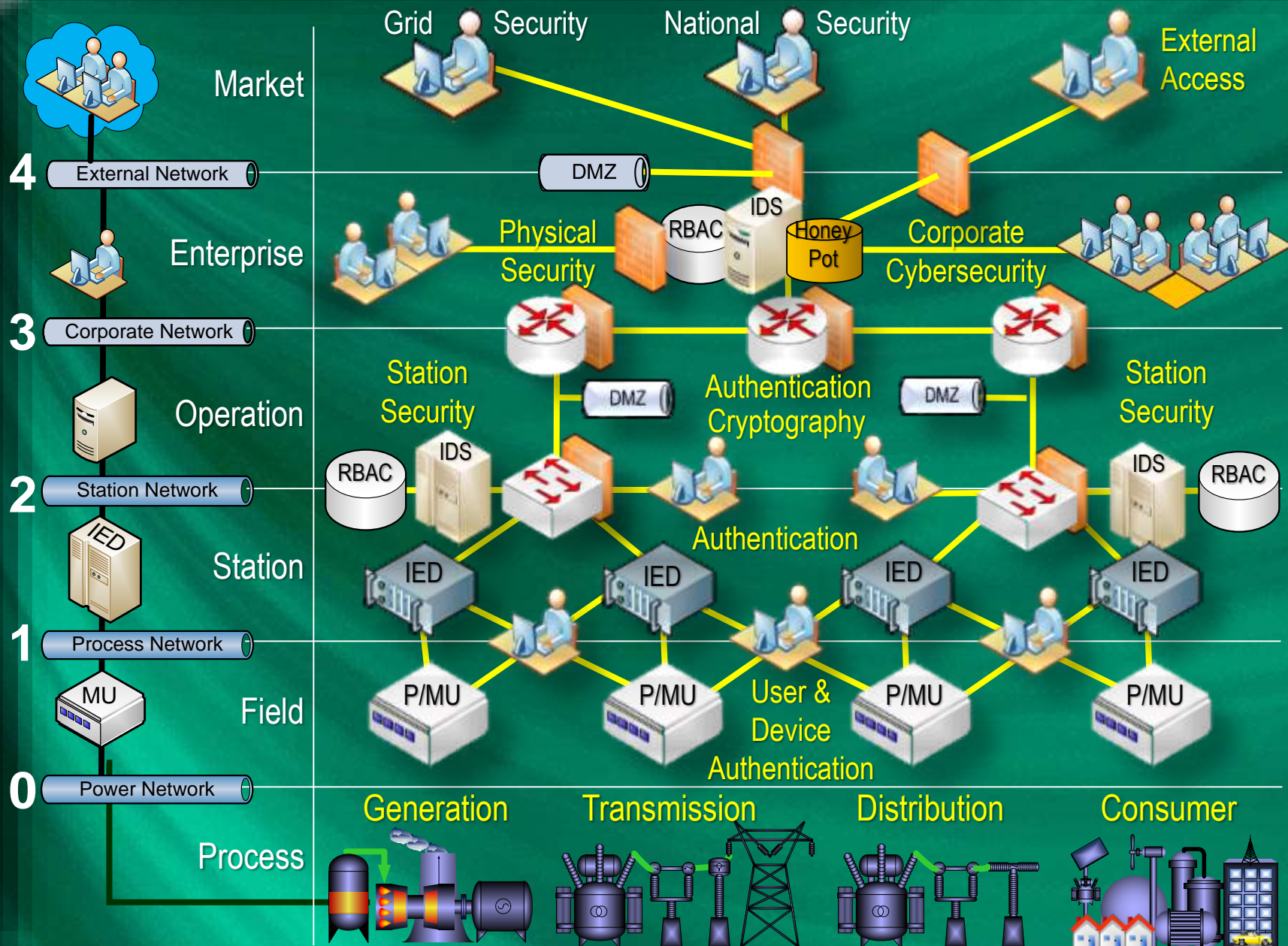


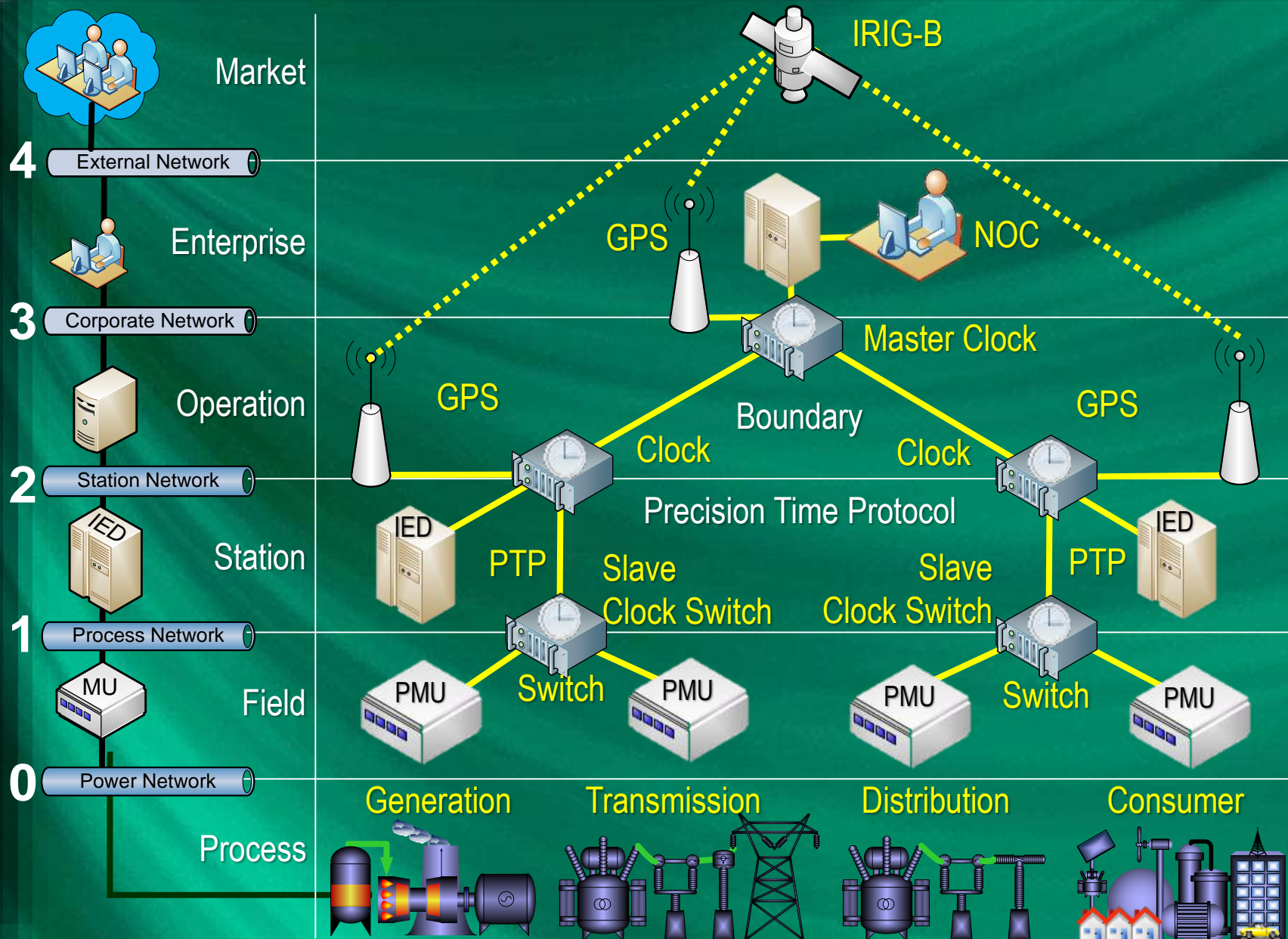


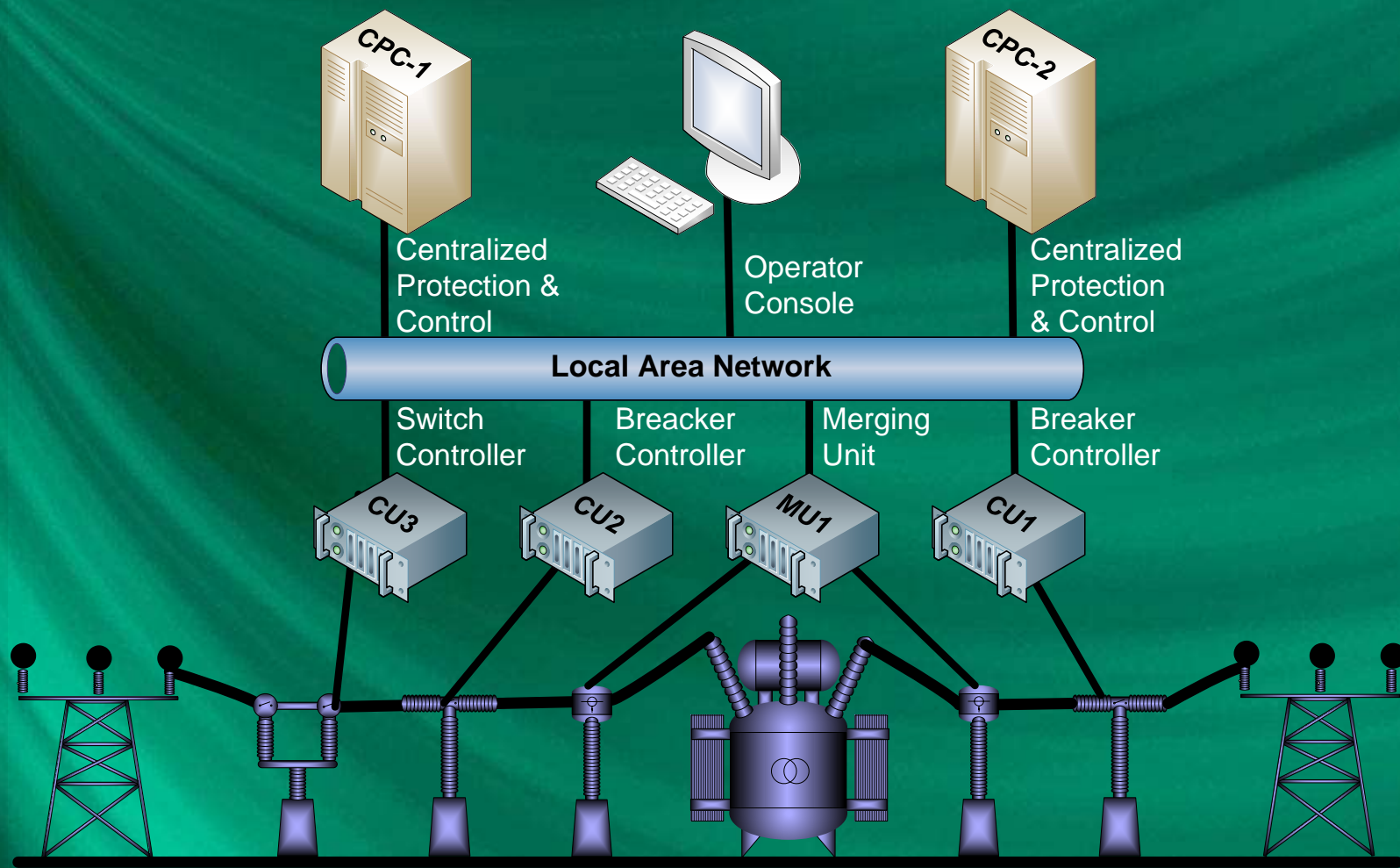
Future Developments

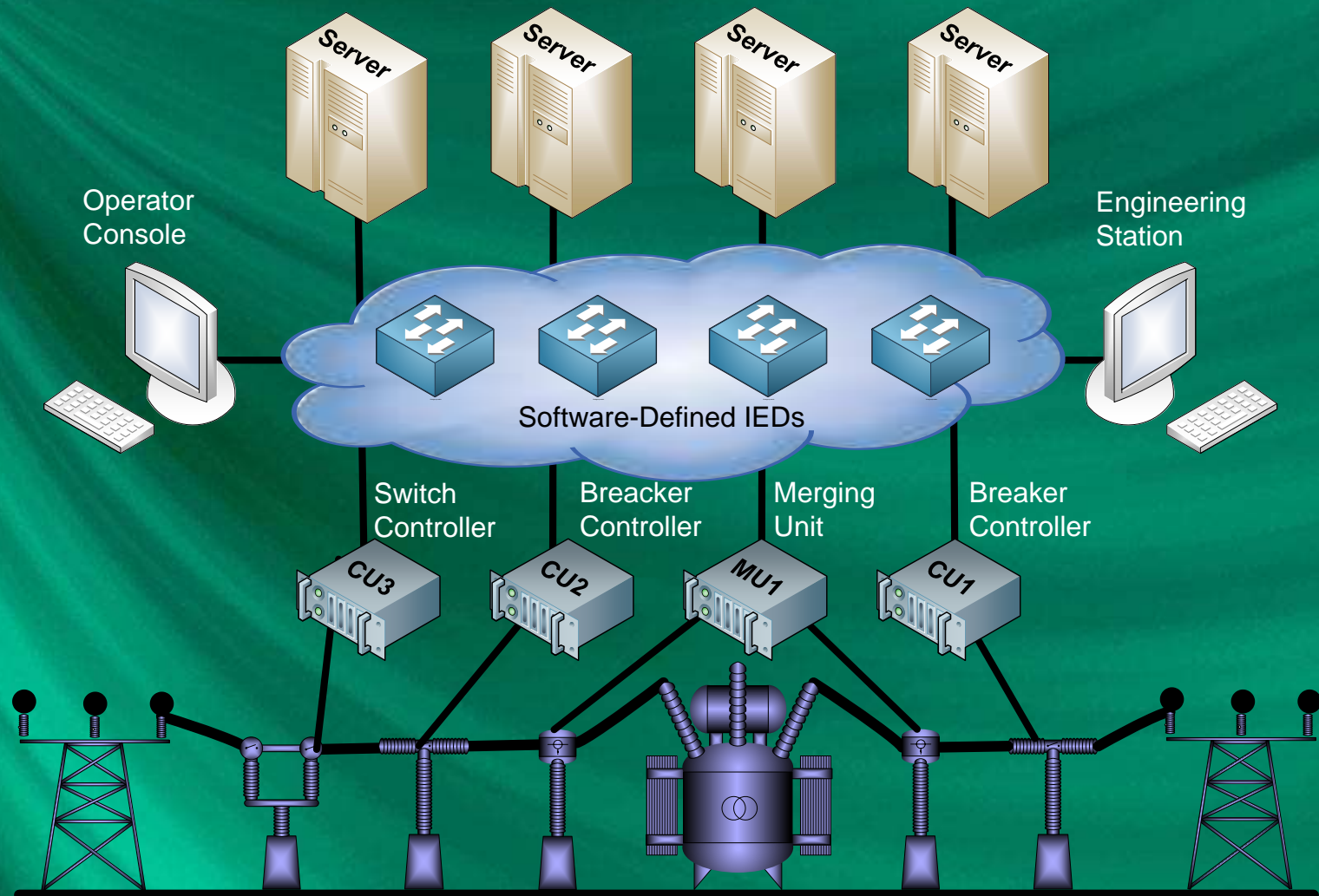


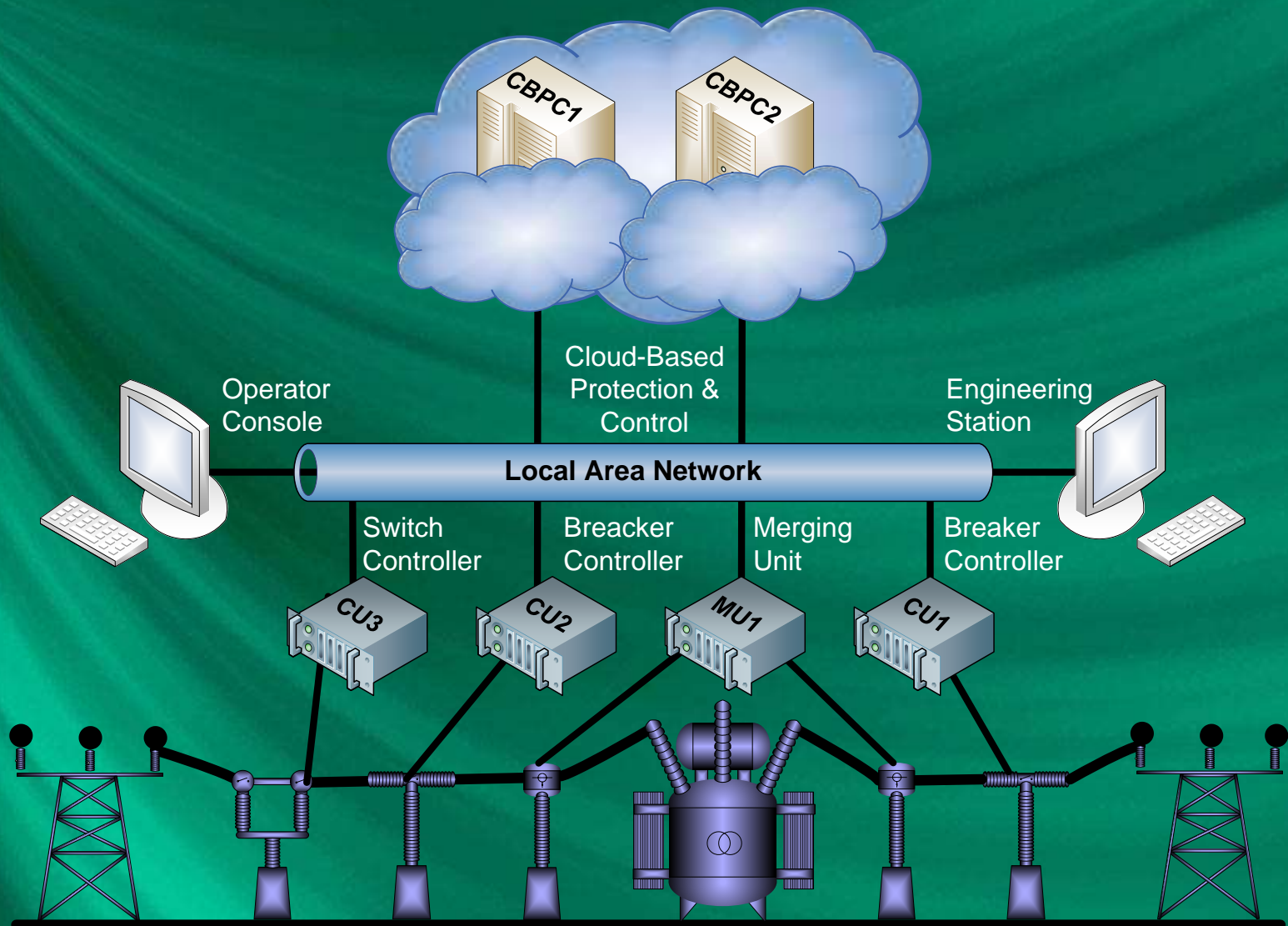




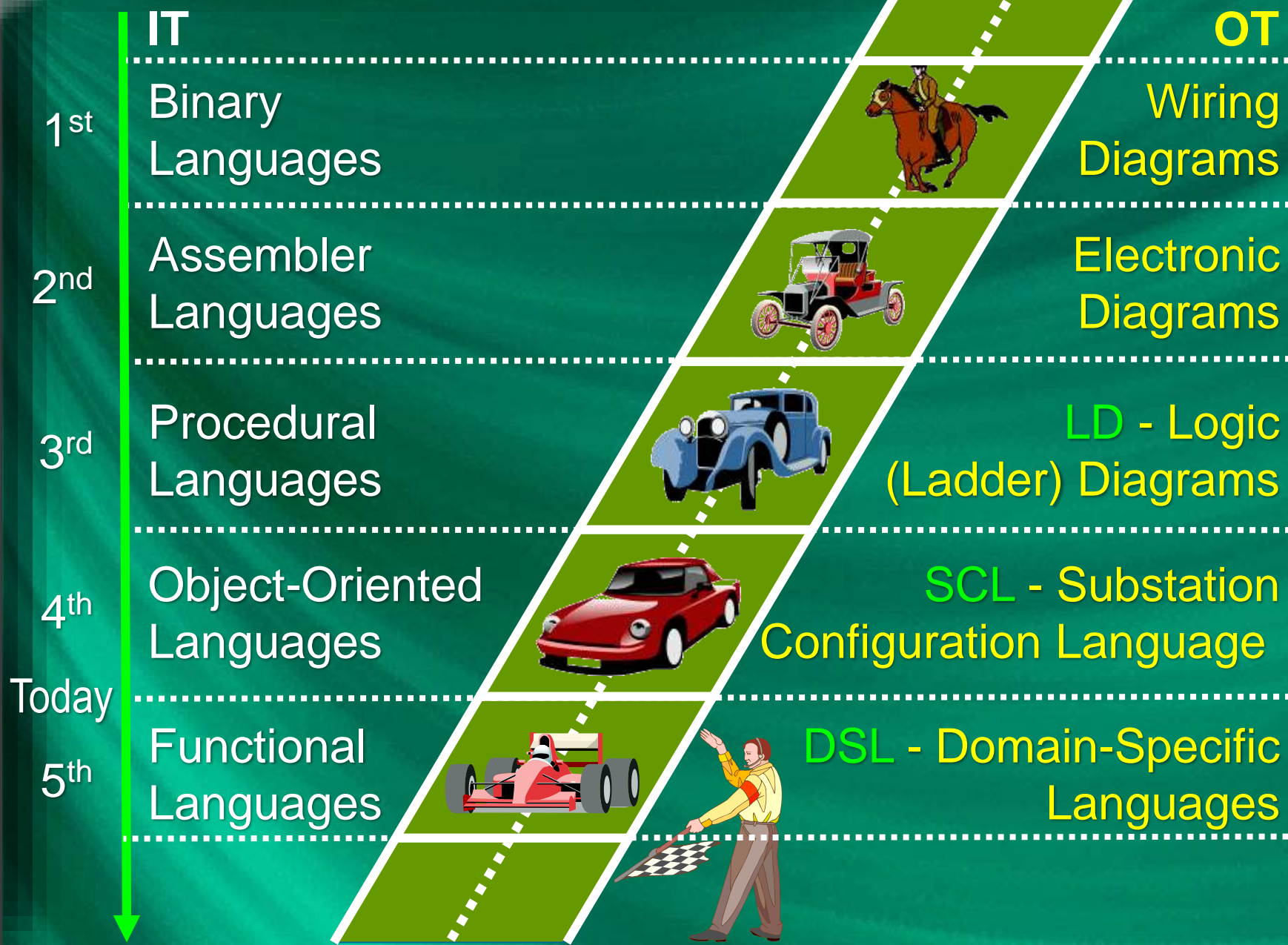


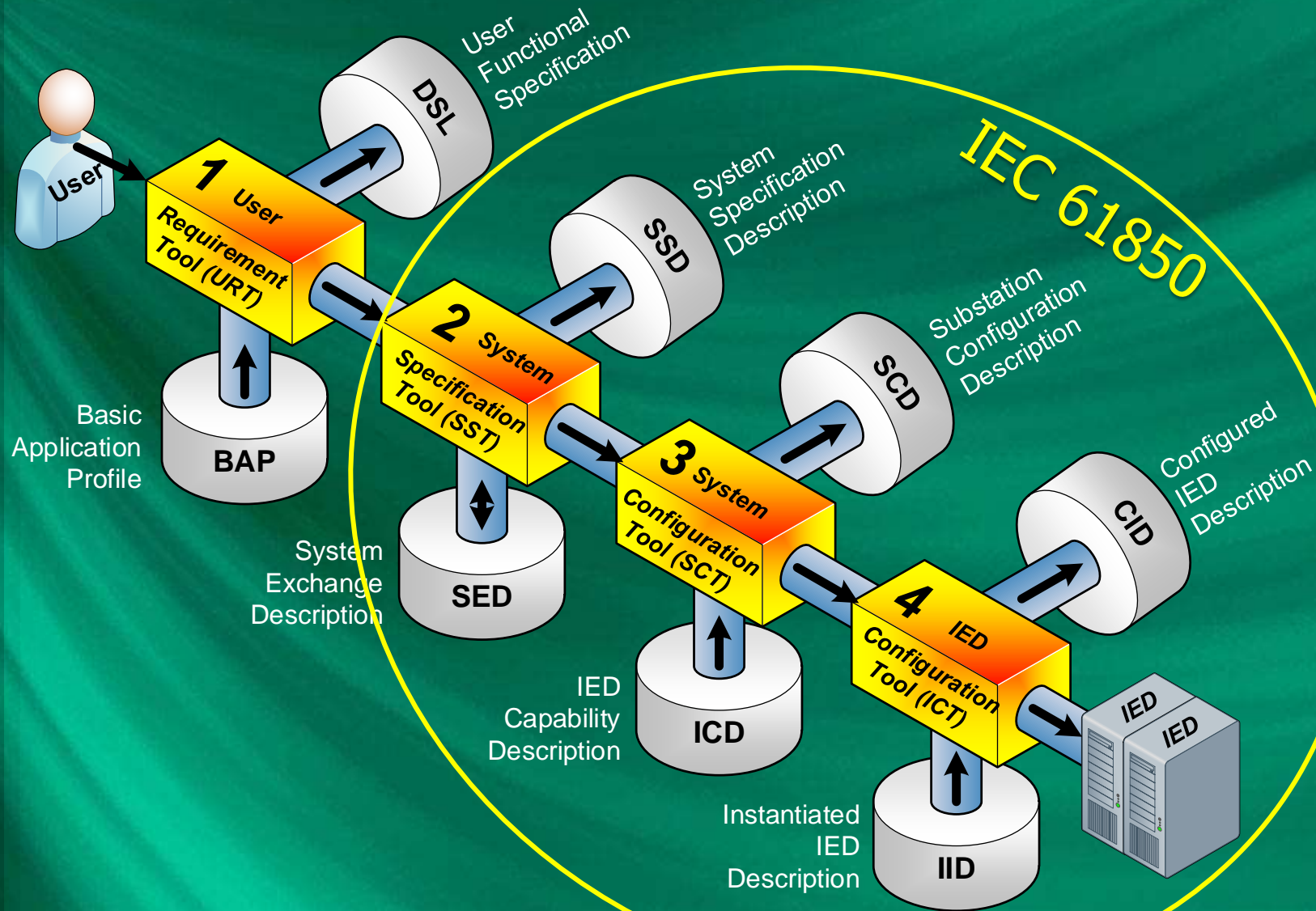


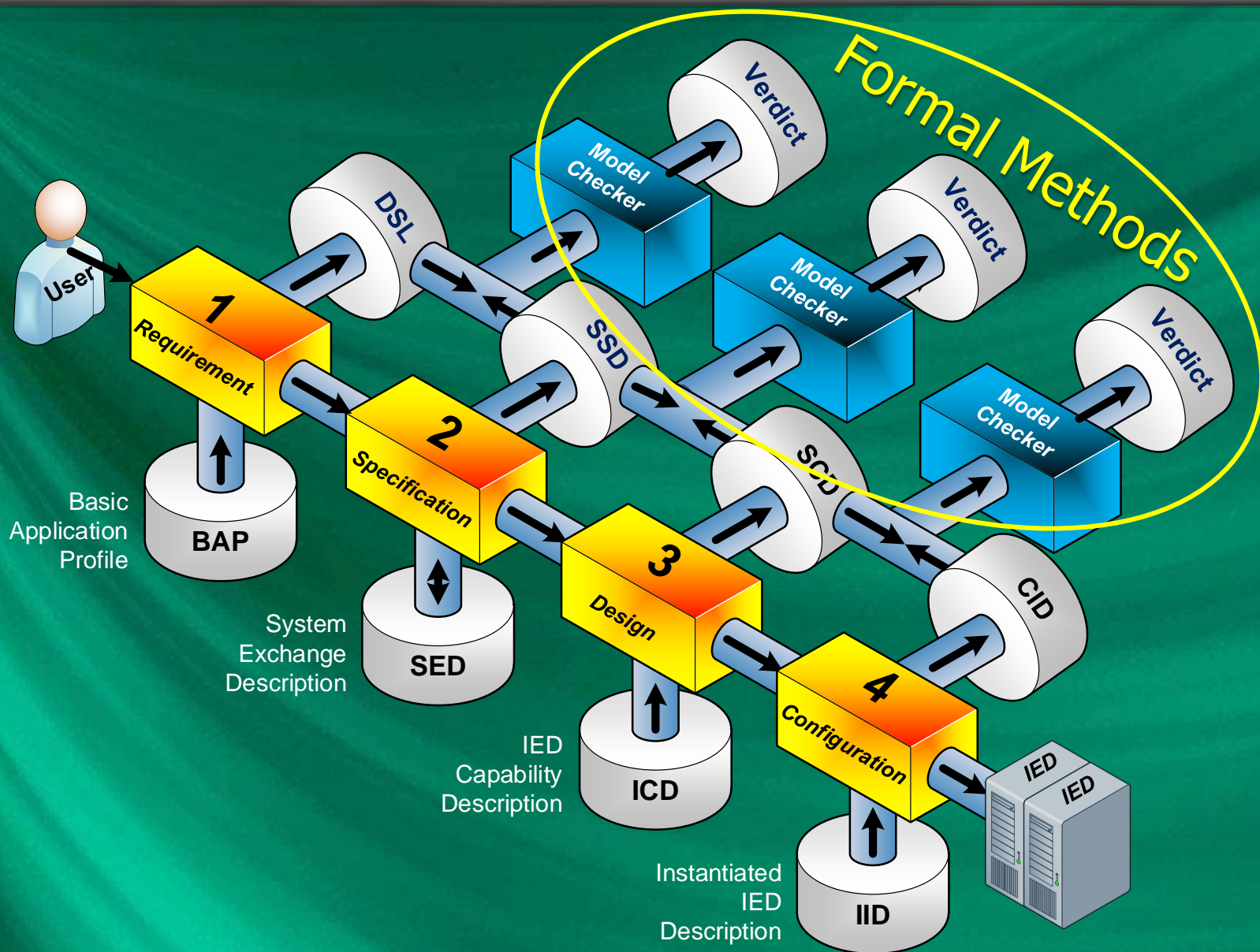


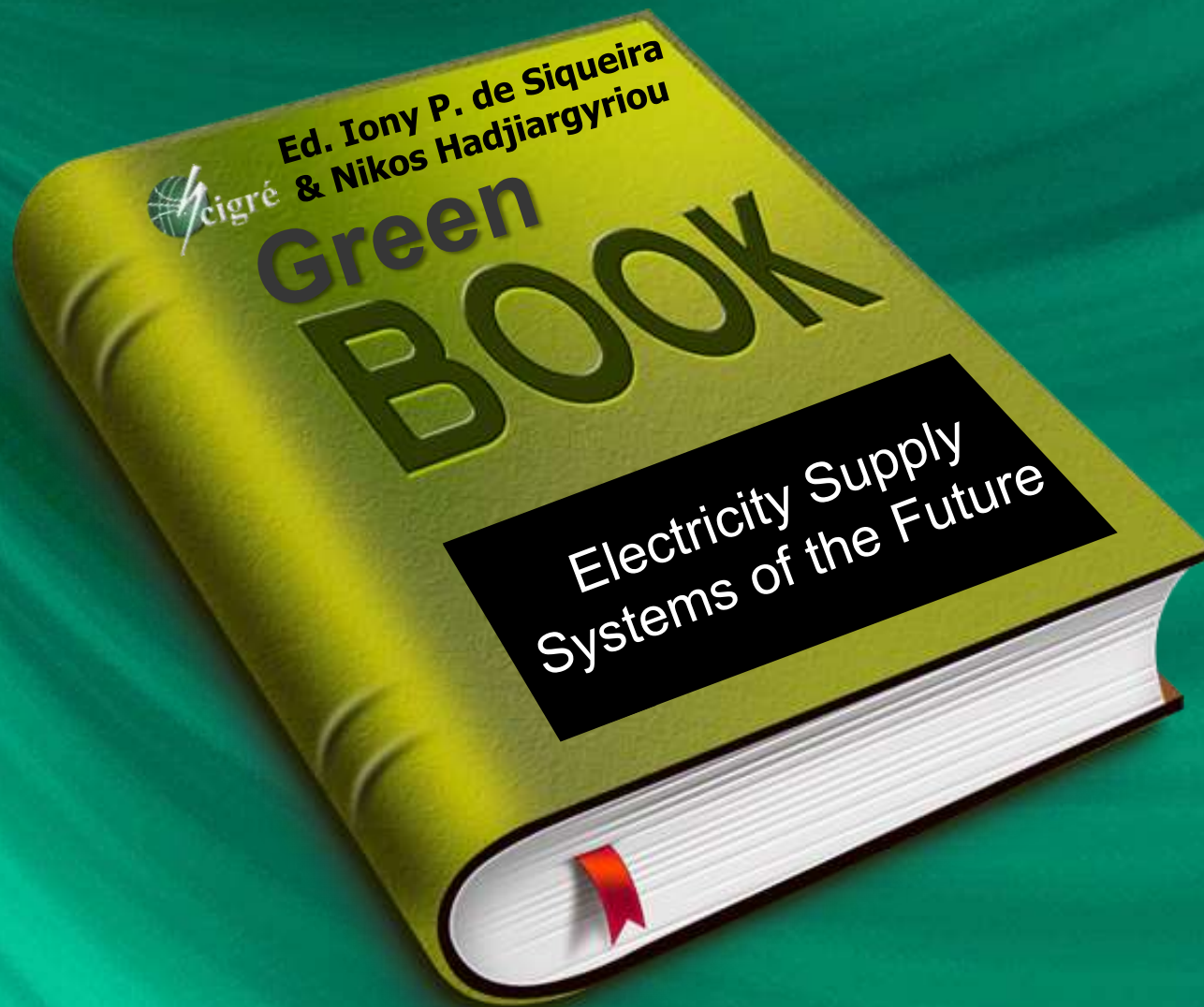


IT vs OT Language Evolution











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Obrigado!

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