

Implementing CIM at the Provincial Electricity Authority (PEA) in Thailand

Choompol Boonmee
Thammasat University

Scott Coe
GridOptimize

CIMUG meeting Brisbane 17-19 May 2023

Acknowledgement

“Major thanks” are given to Mr.Pongsakorn, Mr.Pantong and other PEA colleagues who this would be impossible without.

Pongsakorn Yuthakovit

Assistant Governor
Planning and Power System Development
PEA

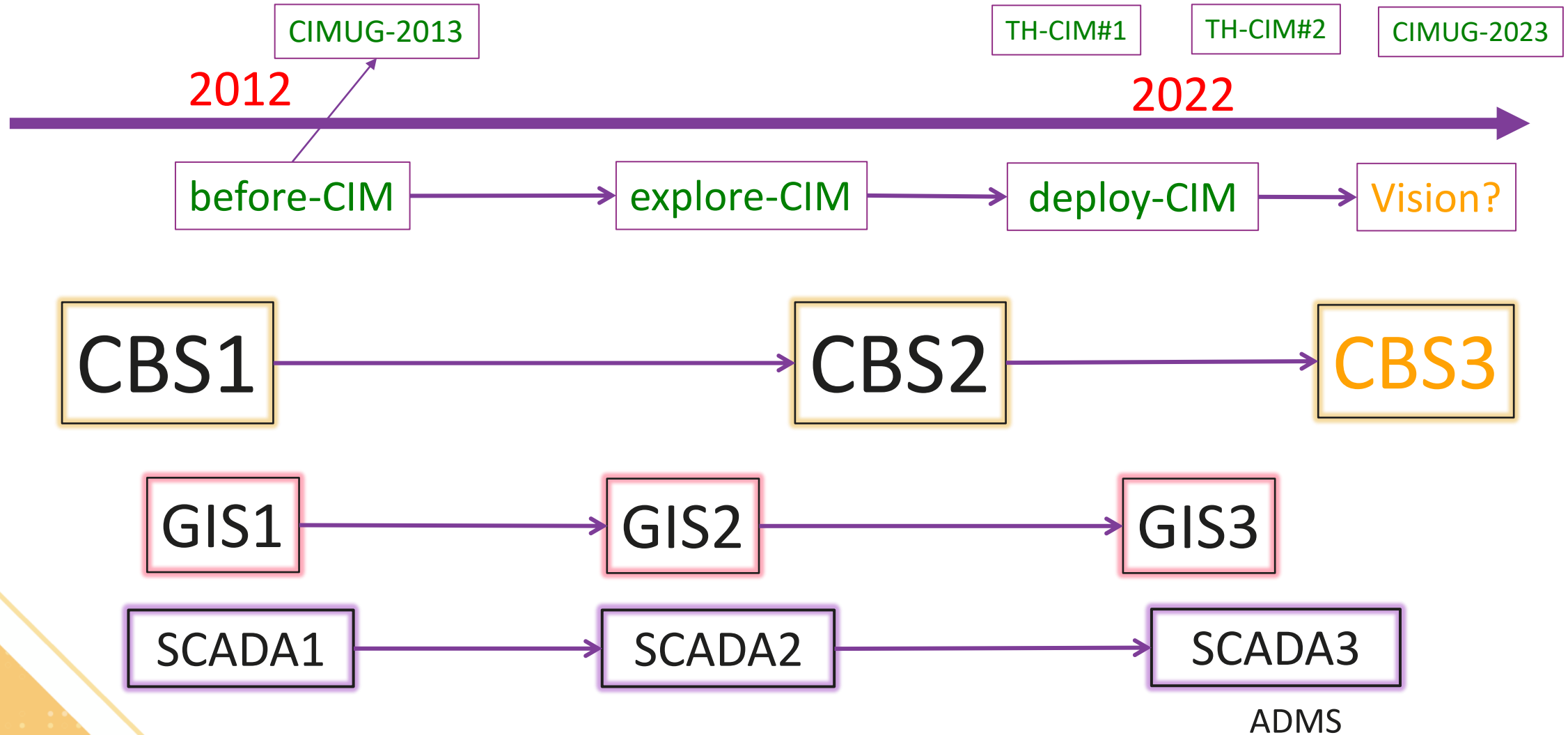
Pantong Thinsatit

Power System Control and Operation
Department Director
PEA

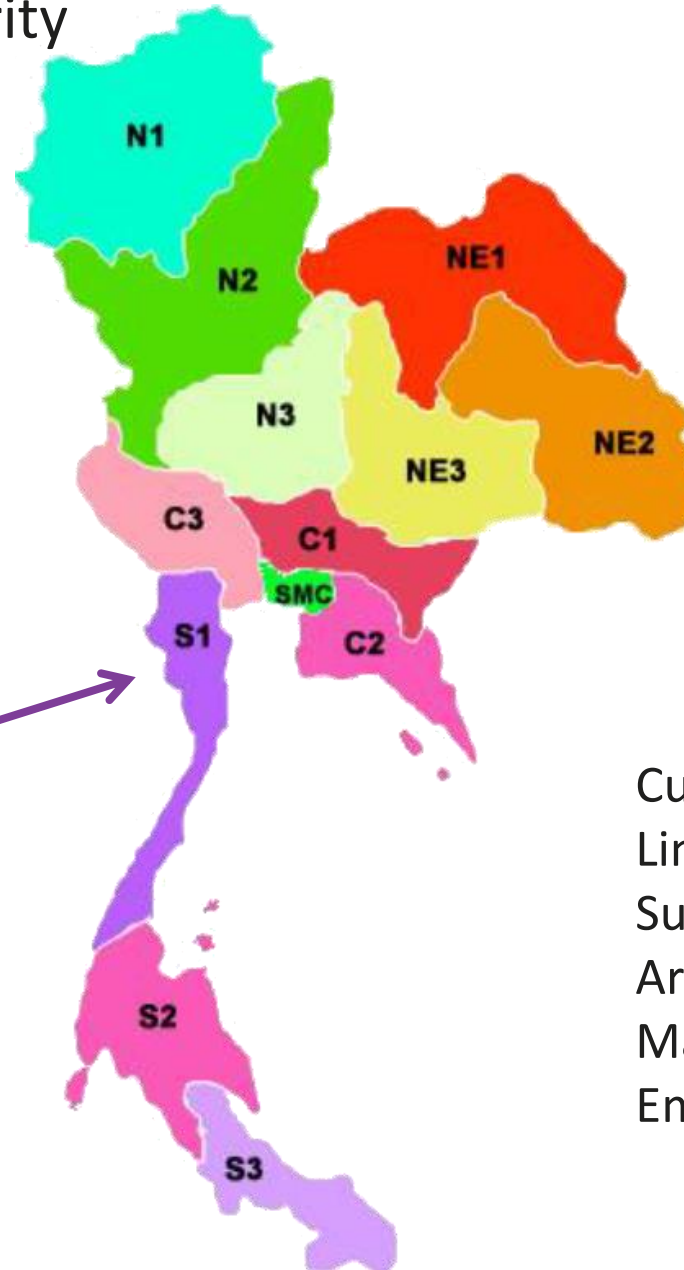
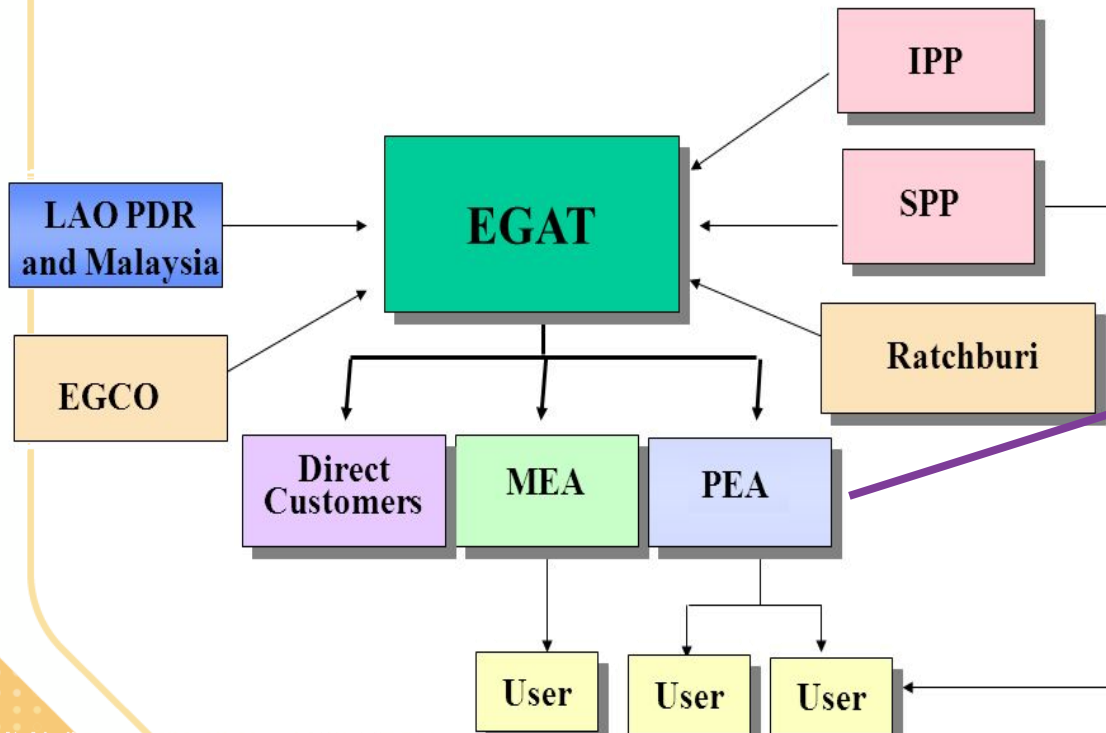
Long Journey with CIM at PEA

1. Before the CIM
2. Exploring the CIM
3. Deploying a CIM Interface
4. Implementing a CIM Vision

Long Journey of Data Integration : yet unfinished



Provincial Electricity Authority Distribution Utility

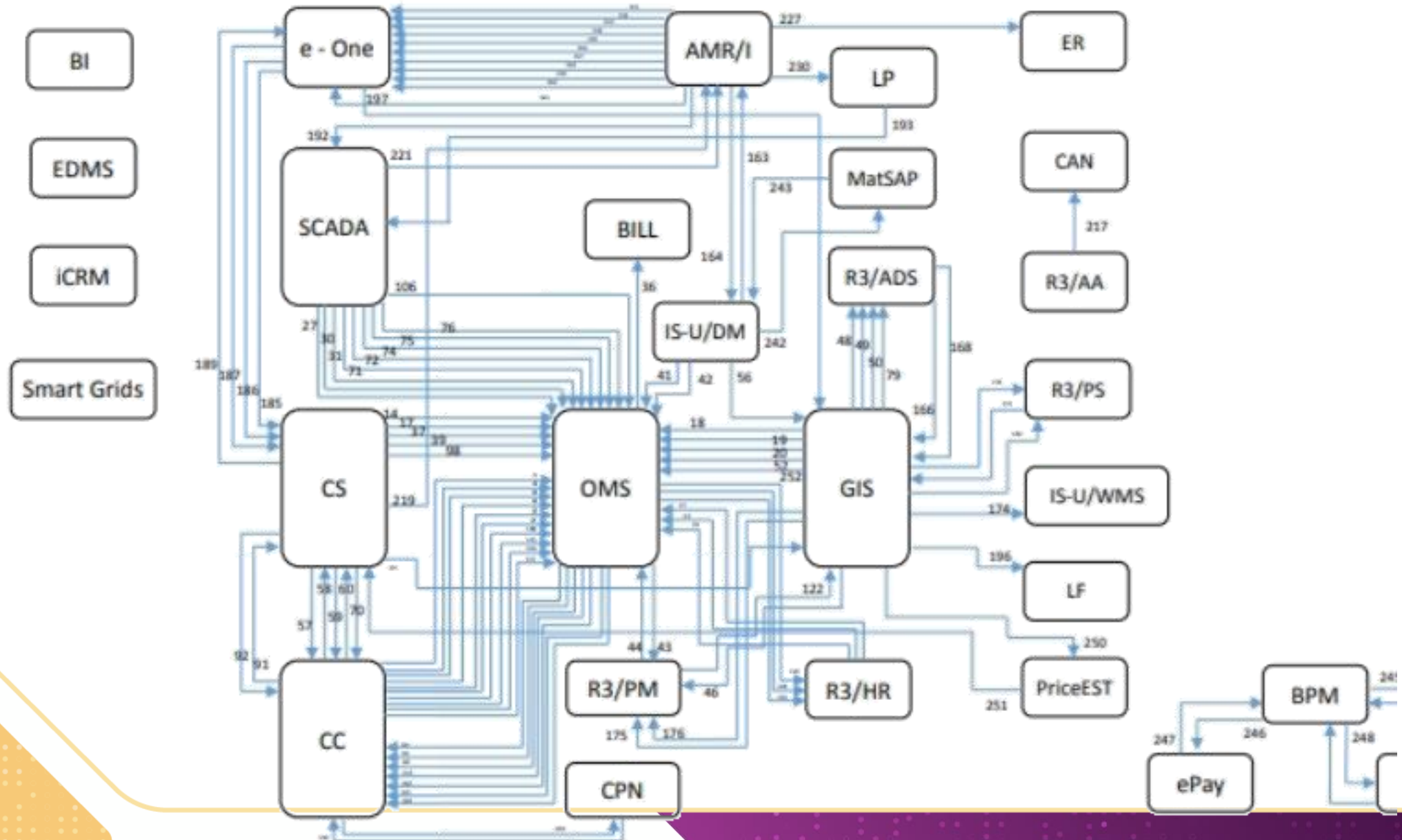


Customer : 22 M
 Lines : 15,000 Km
 Substat : 690
 Areas : 12 areas
 Max PW : 22 GW
 Employee : 28,000

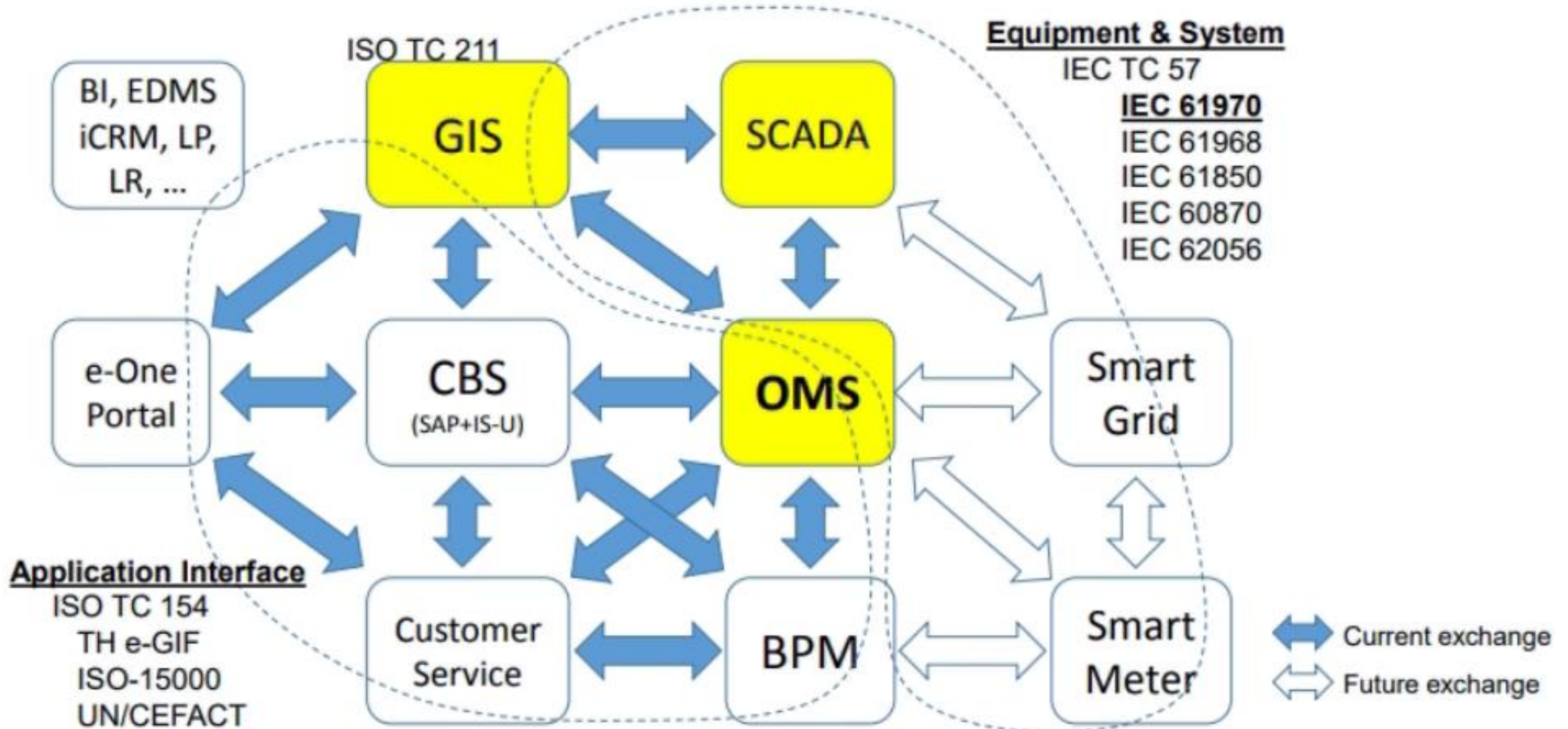
Before the CIM

CIM was Introduced to PEA

pre-CIM 2012



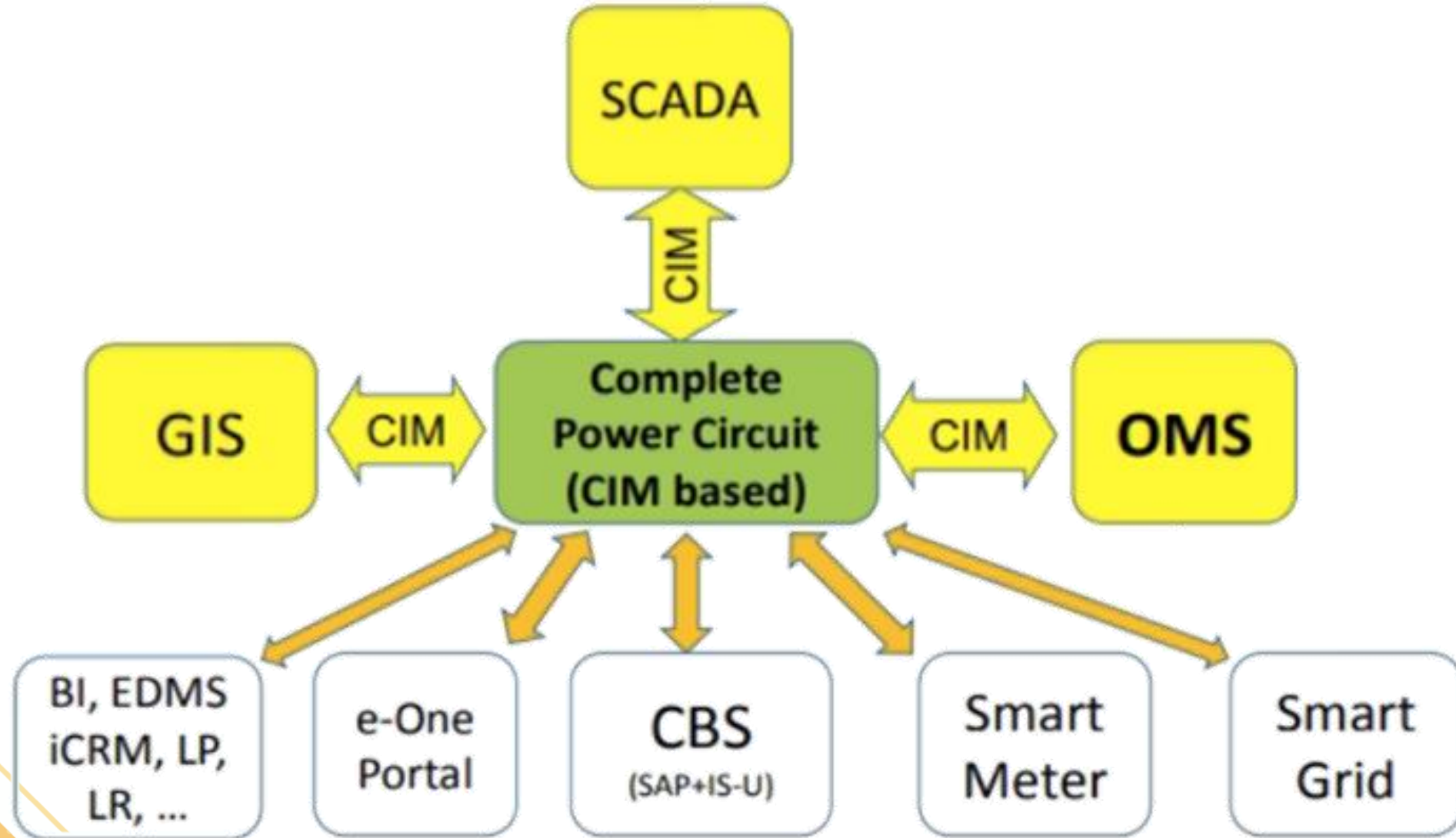
Thought started 2012



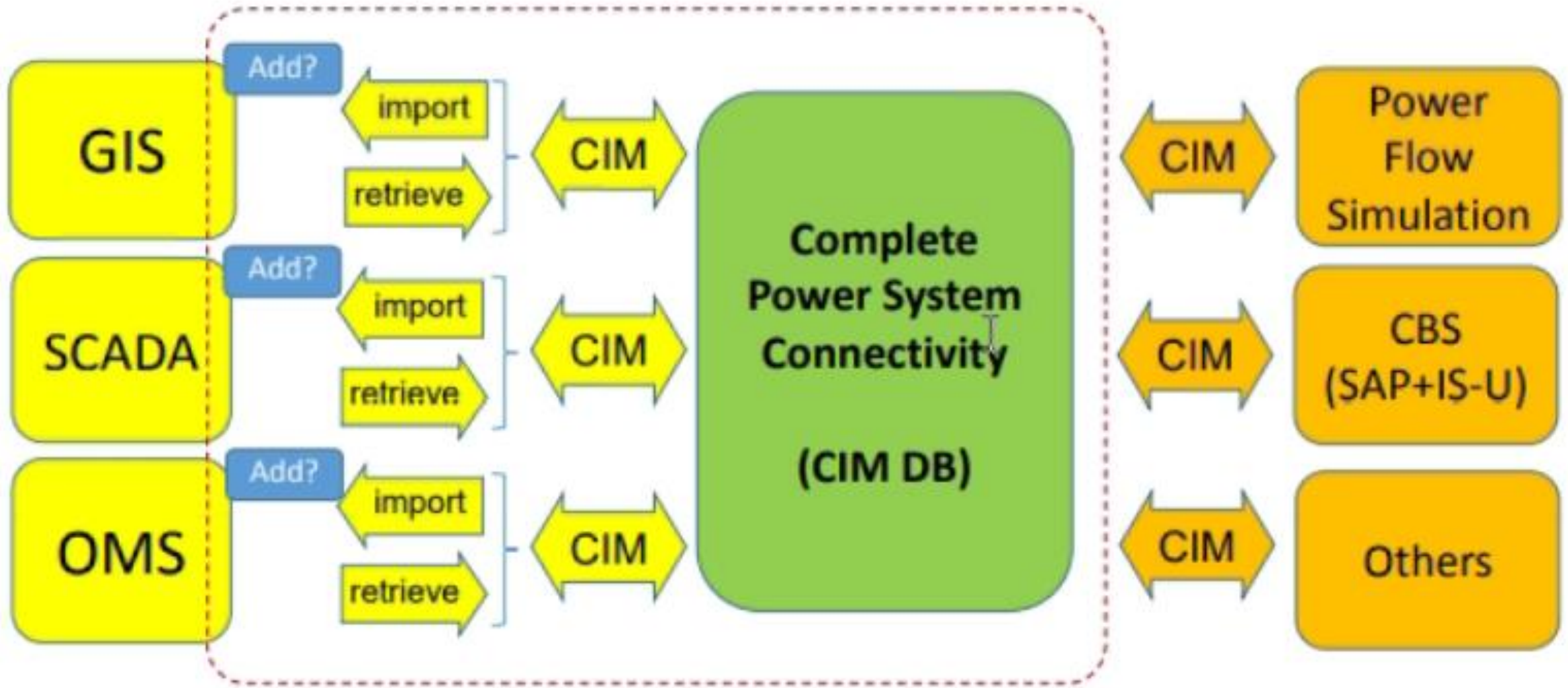
Exploring the CIM

CIM Research Project

CIM Research Project 2018



TU CIM Project 2018 : CIM based grid data exchange

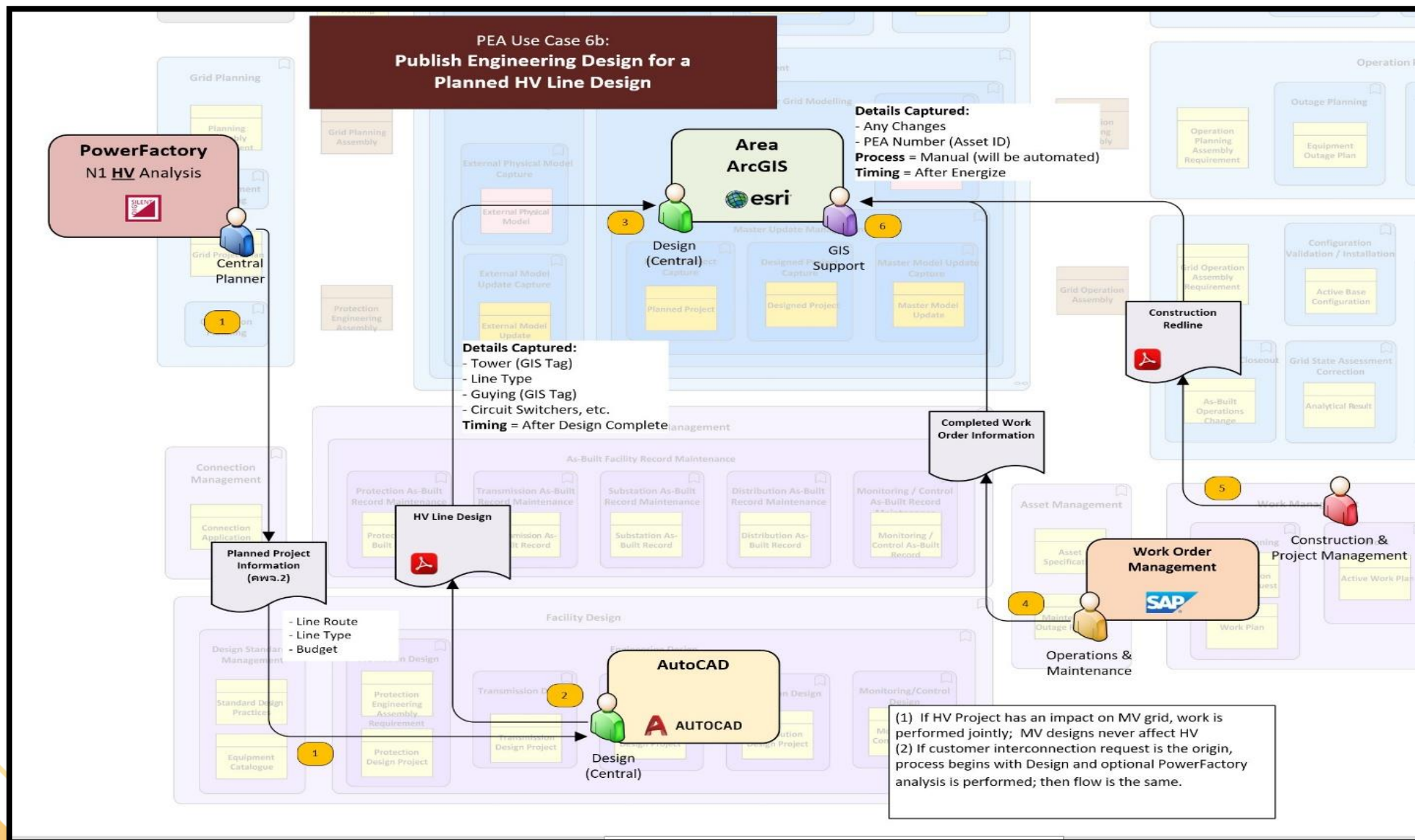


Deploying a CIM Interface

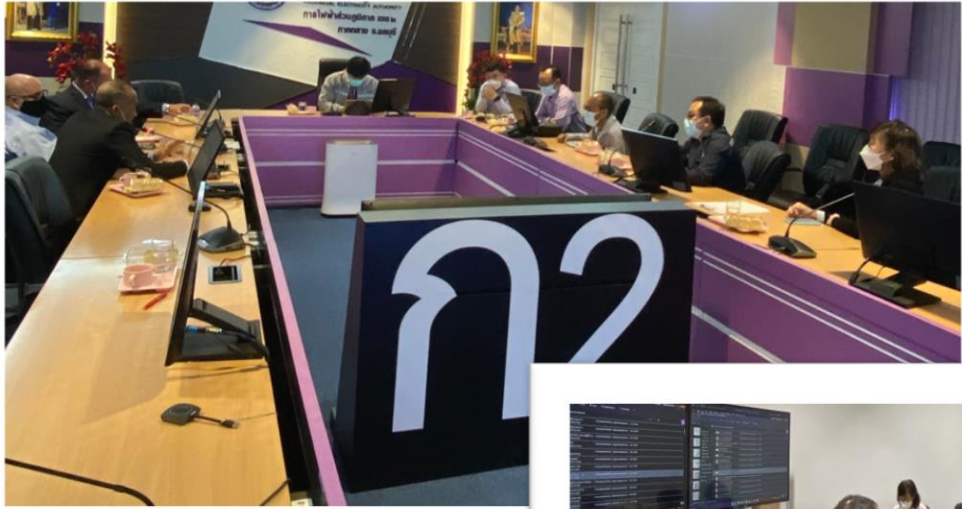
Deploy CIM with GIS-SCADA



Use Case 6b – Publish Engineering Design For A Planned HV Line Design



Discussions => TO-BE





<http://cim.tueng.org>

สัมมนาออนไลน์

CIM Study Forum

มาตรฐานข้อมูลกริด

Common Information Model

วันอังคารที่ 12 กรกฎาคม พ.ศ.2565

9:30 - 10:00 What is CIM ?

10:00 - 10:40 CIM กับระบบส่งและจำหน่ายไฟฟ้า

10:40 - 11:20 CIM กับระบบผลิตและซื้อขายไฟฟ้า

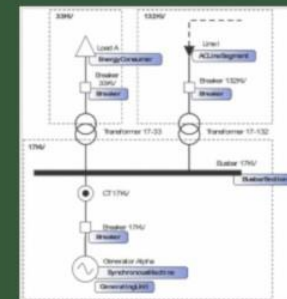
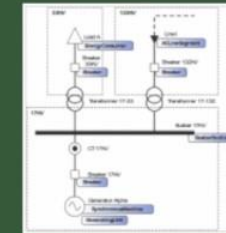
11:20 - 11:40 CIM กับระบบไฟฟ้าในอนาคต

11:40 - 12:00 Q & A

วิทยากร: Dr.Scott Coe and ดร.ชุมพล บุญมี

เชิญเข้าร่วมสัมมนาออนไลน์ผ่าน WebEx

PEA
PROVINCIAL ELECTRICITY AUTHORITY

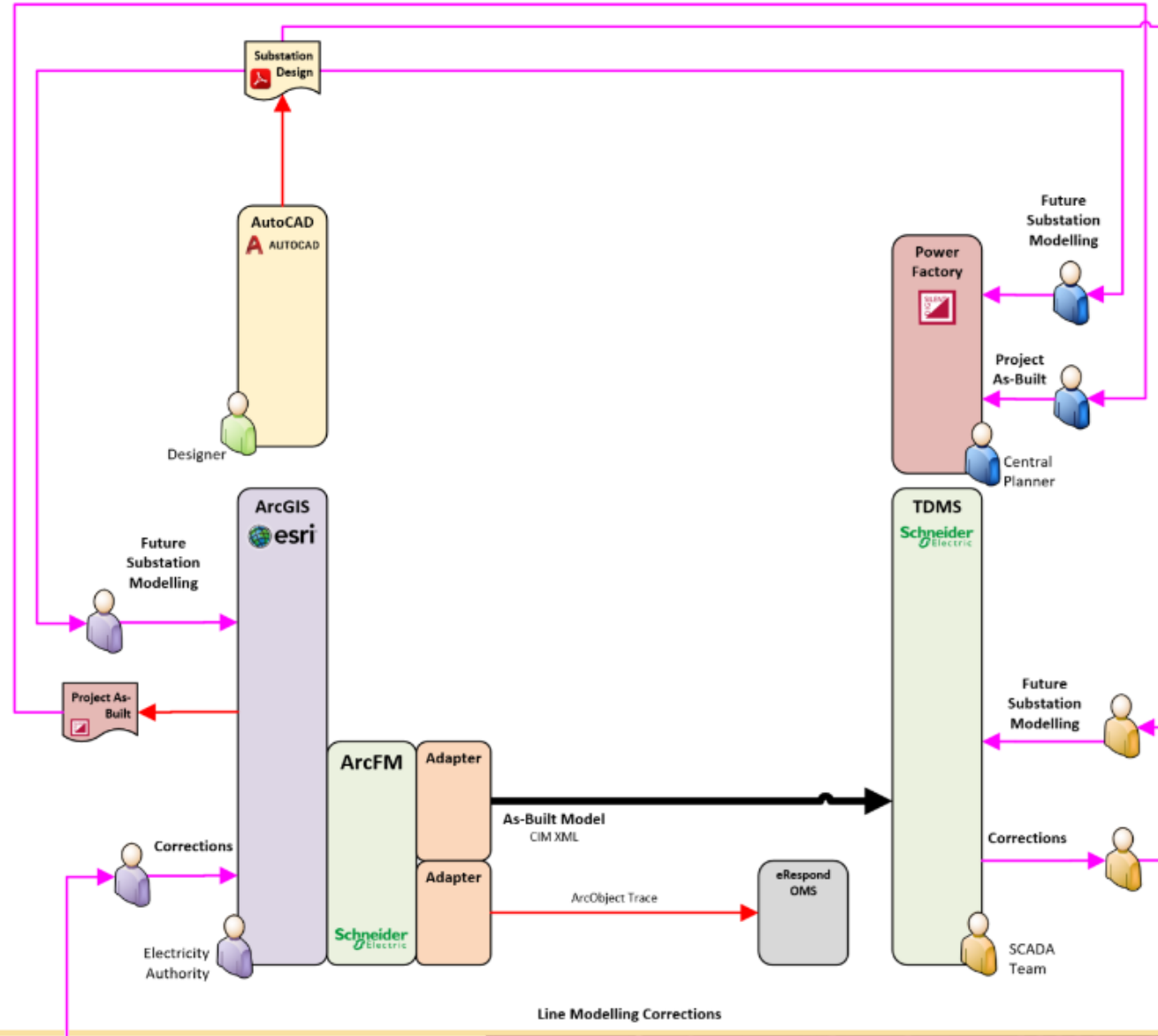


CIM (ซิม) หรือ Common Information Model คือ มาตรฐานในการบริหารข้อมูลกริด หรือ โครงข่ายระบบไฟฟ้า เพื่อให้สามารถแลกเปลี่ยนและใช้งานร่วมกันได้อย่างอัตโนมัติ IEC61970, IEC61968 IEC62325, (IEC61850)

Implementing a CIM Vision

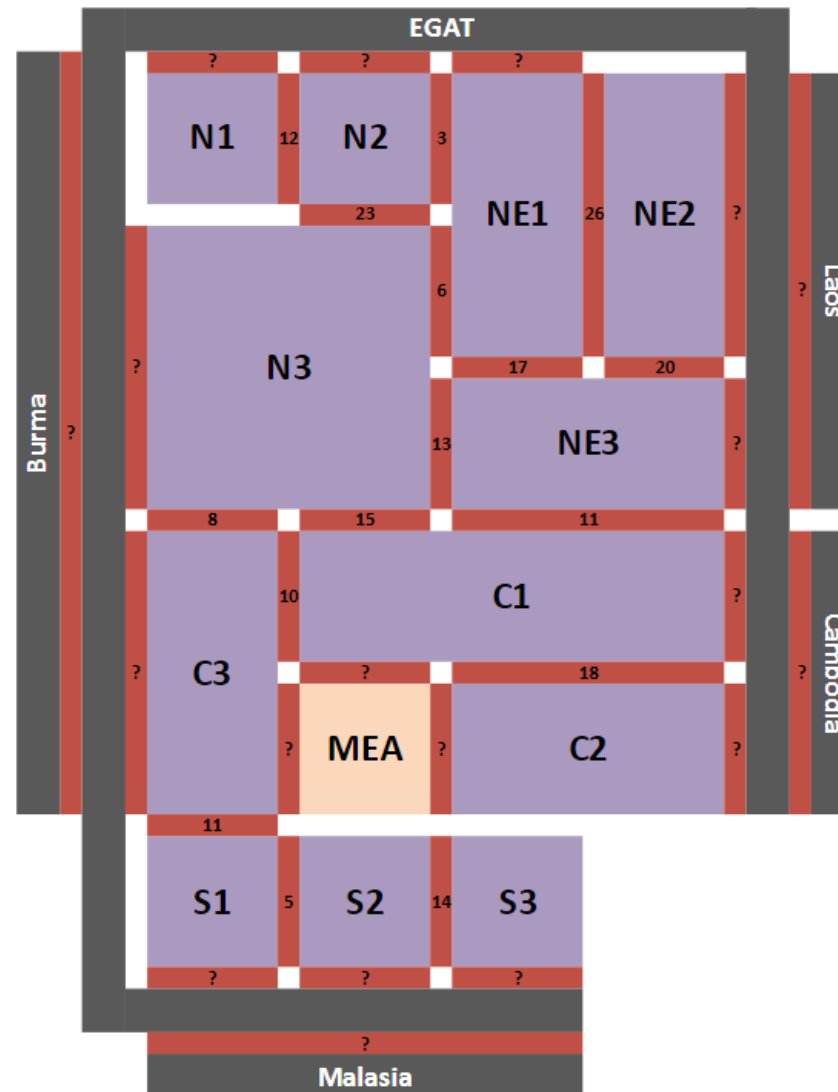
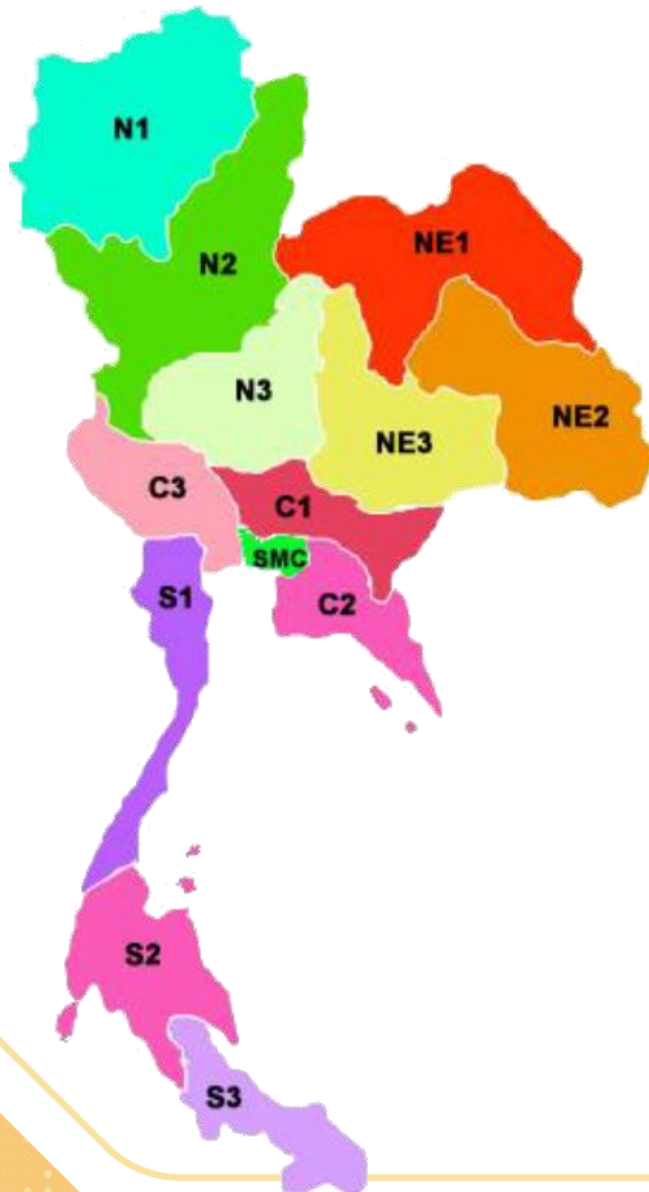
Balanced with Reality
Awareness and Acceptance

Early Implementation GIS - SCADA

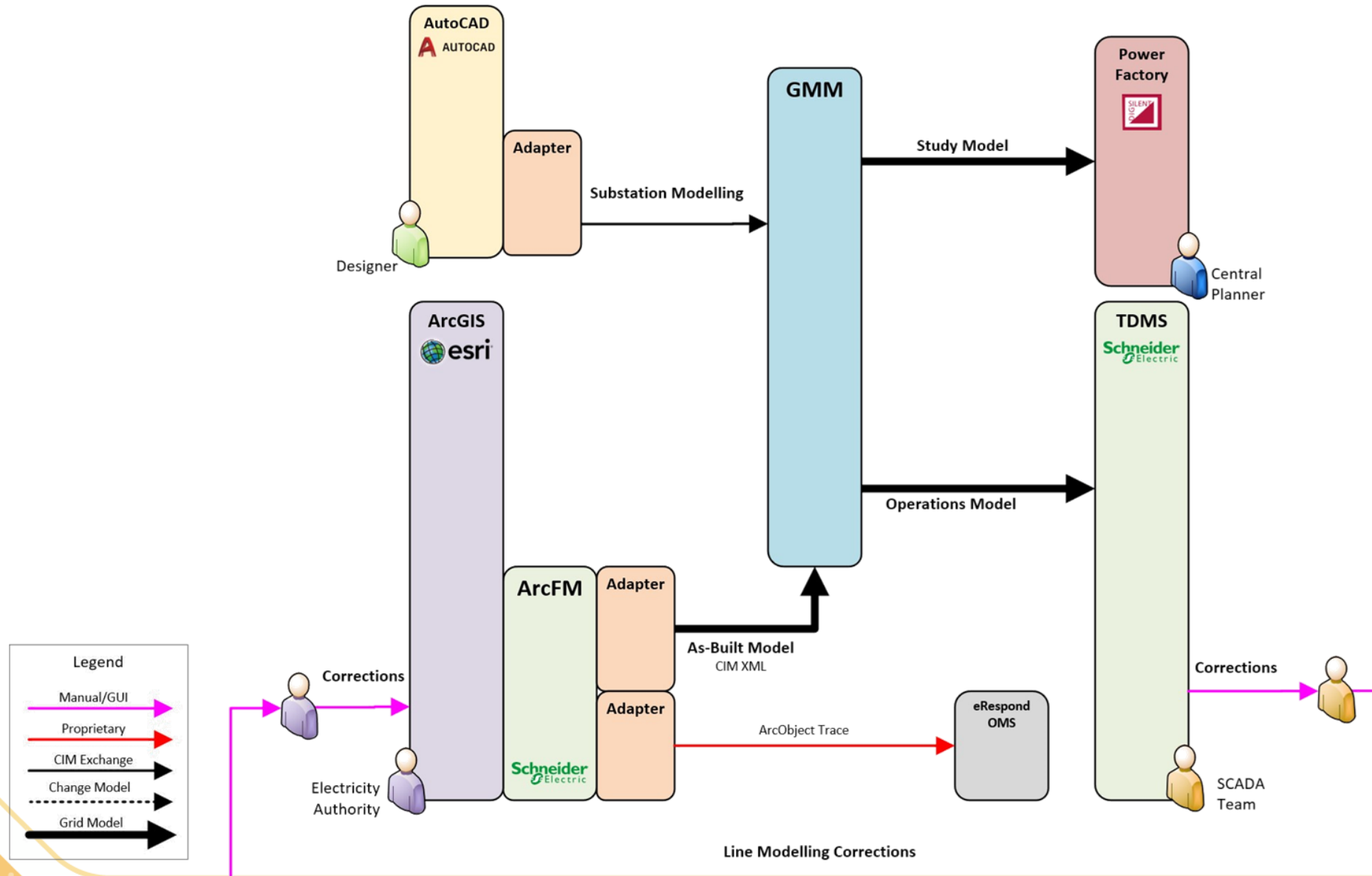




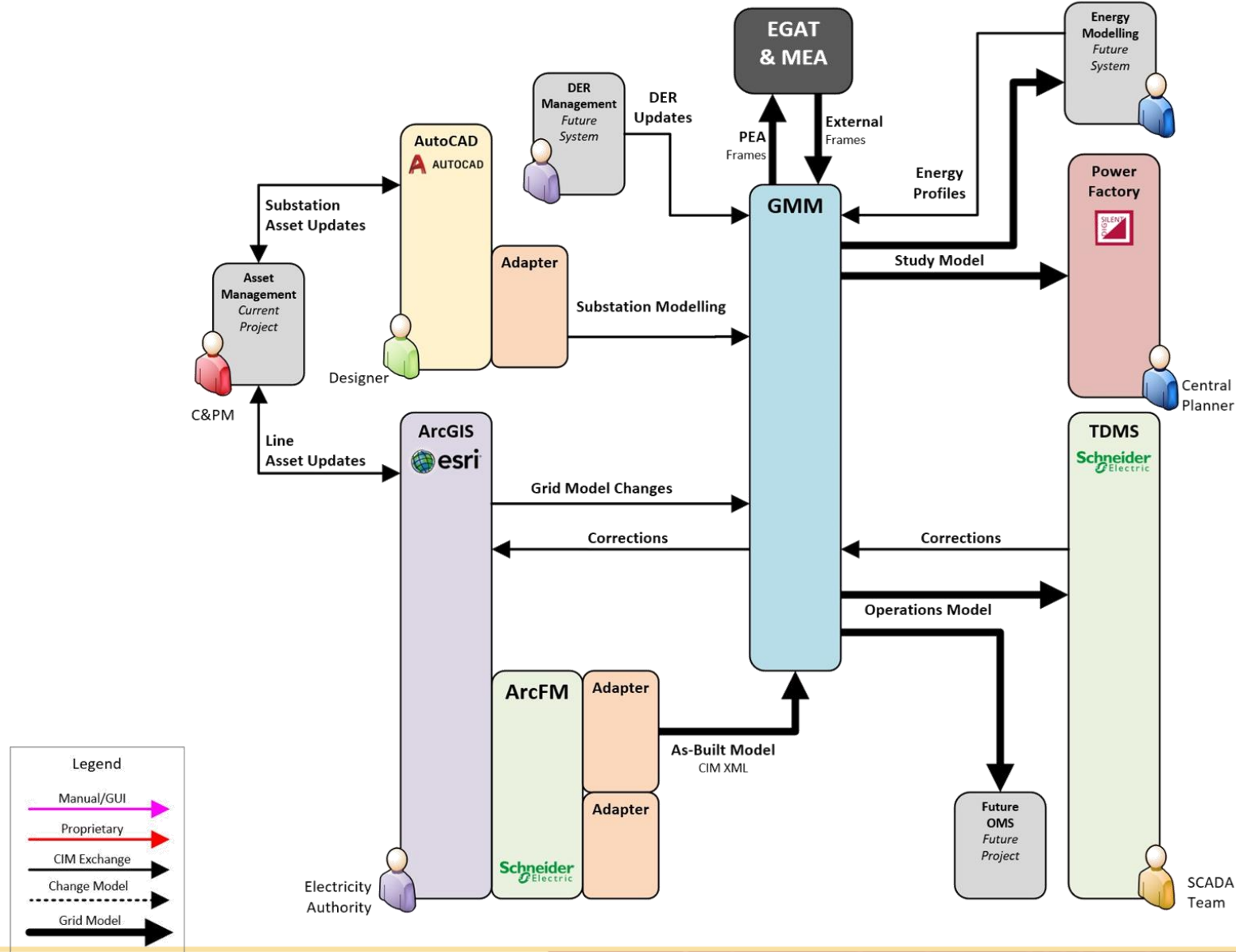
CIM Grid Frameworks



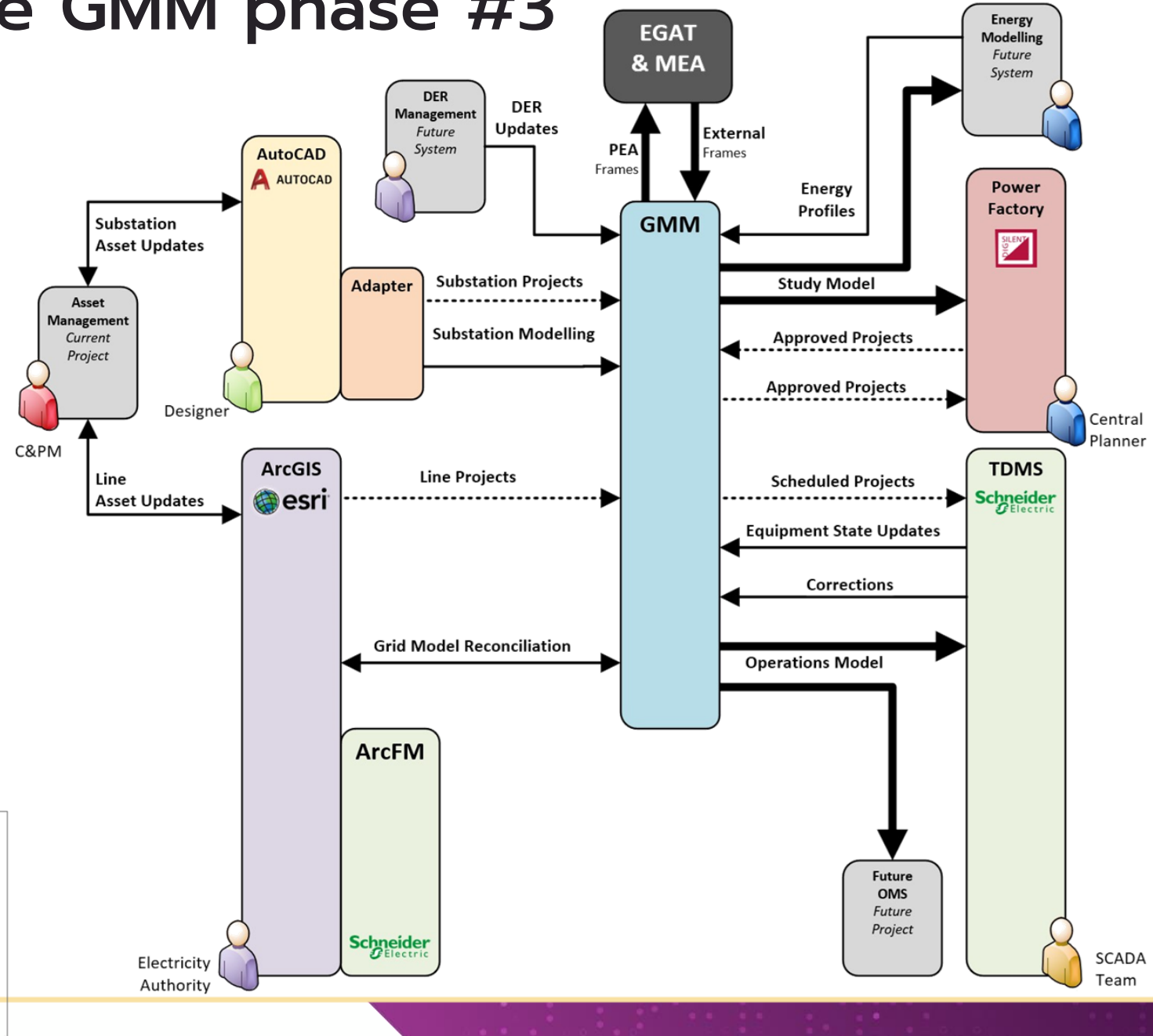
Possible GMM phase #1



Possible GMM phase #2



Possible GMM phase #3



Thank you very much