



UKEP ROUNDTABLE

ADVANCED DIGITAL AND ANALYTICAL APPLICATIONS FOR UTILITY ASSET MANAGEMENT

I- WHO WE ARE ? APUA An international Organization



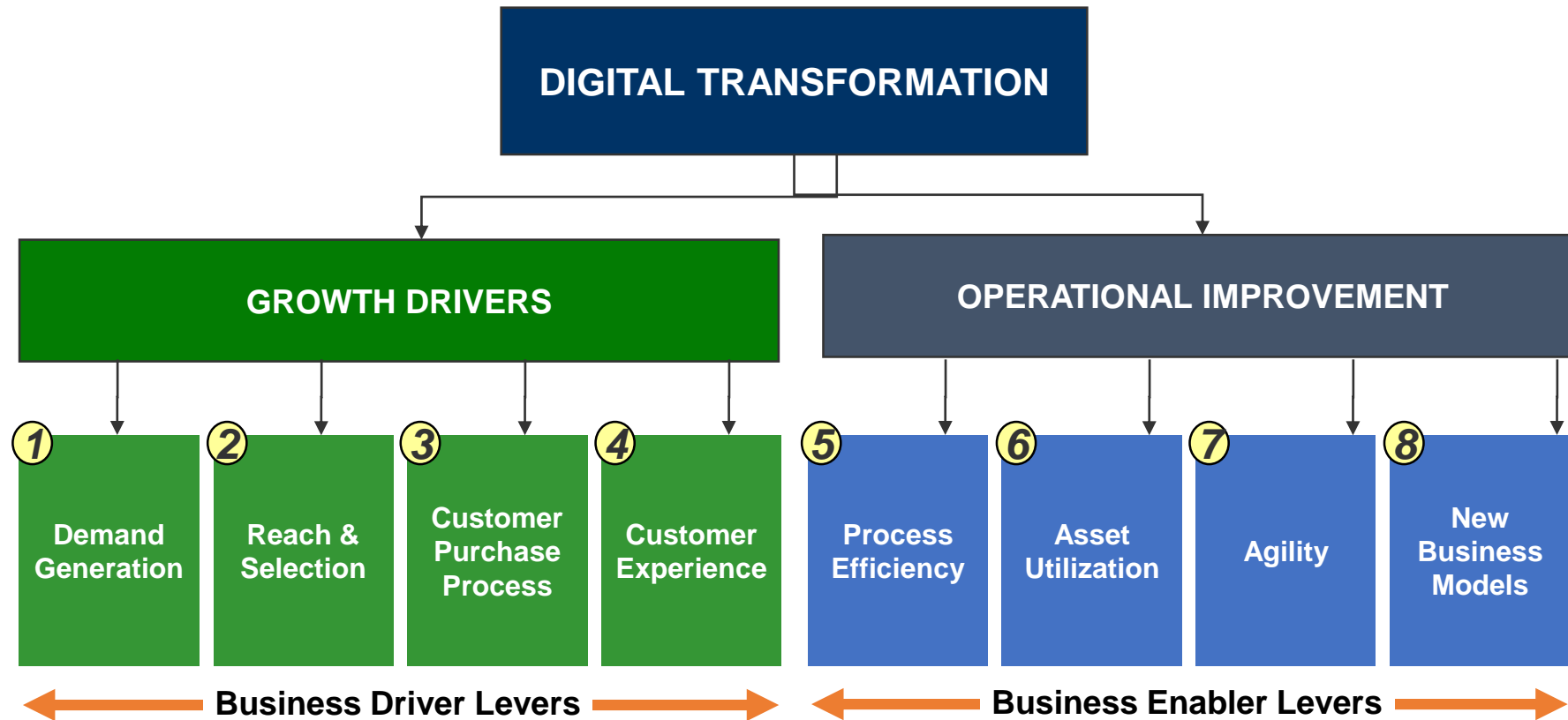
APUA is the Association of Power Utilities of Africa; (in French **ASEA**)

secgen@apua-asea.org

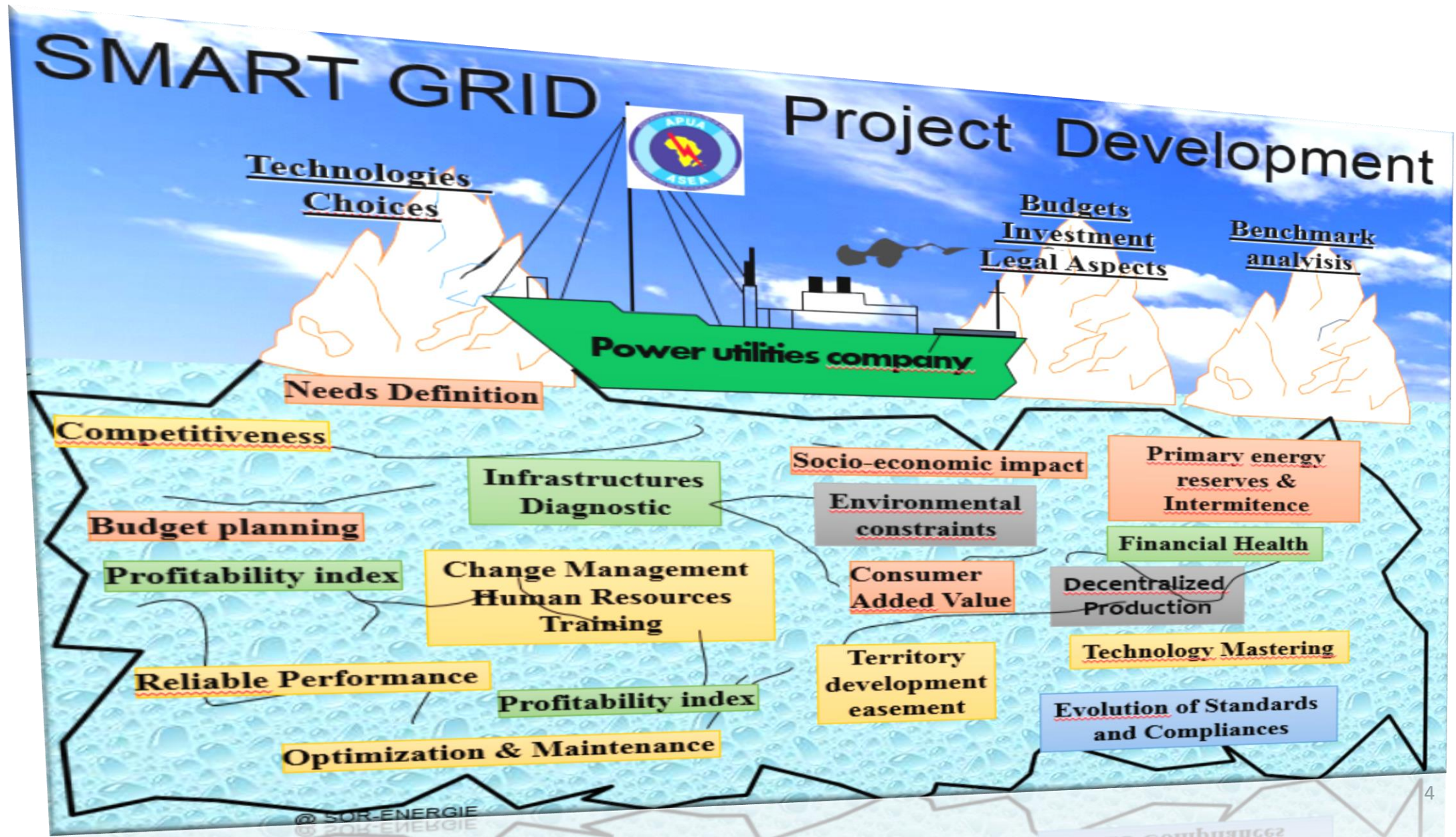
- ❑ The headquarters are located in Abidjan, Cote d'Ivoire.
- ❑ A non-for-profit international organization created in 1970 by African Power Utilities.
- ❑ APUA's mission: To bring together AFRICAN electricity companies and stakeholders to make electricity more accessible, affordable and reliable for the people of Africa.
- ❑ APUA has 56 active members in Africa and 25 affiliates members worldwide.
- ❑ APUA is one of the specialized institutions to the African union Commission (AUC).
- ❑ APUA is a permanent member of the Executive Board of the African Energy Commission (AFREC).
- ❑ APUA is a permanent member of the Executive Committee and Management Committee of the African Electrotechnical Standardization Commission (AFSEC).
- ❑ APUA has a privileged partnership with:
 - ❑ the African Development Bank,,
 - ❑ the United Nations Economic Commission for Africa (ECA),
 - ❑ the African Union Development Agency (AUDA) - New Partnership for Africa's Development (NEPAD)



Digital Transformation – TEMPLATE



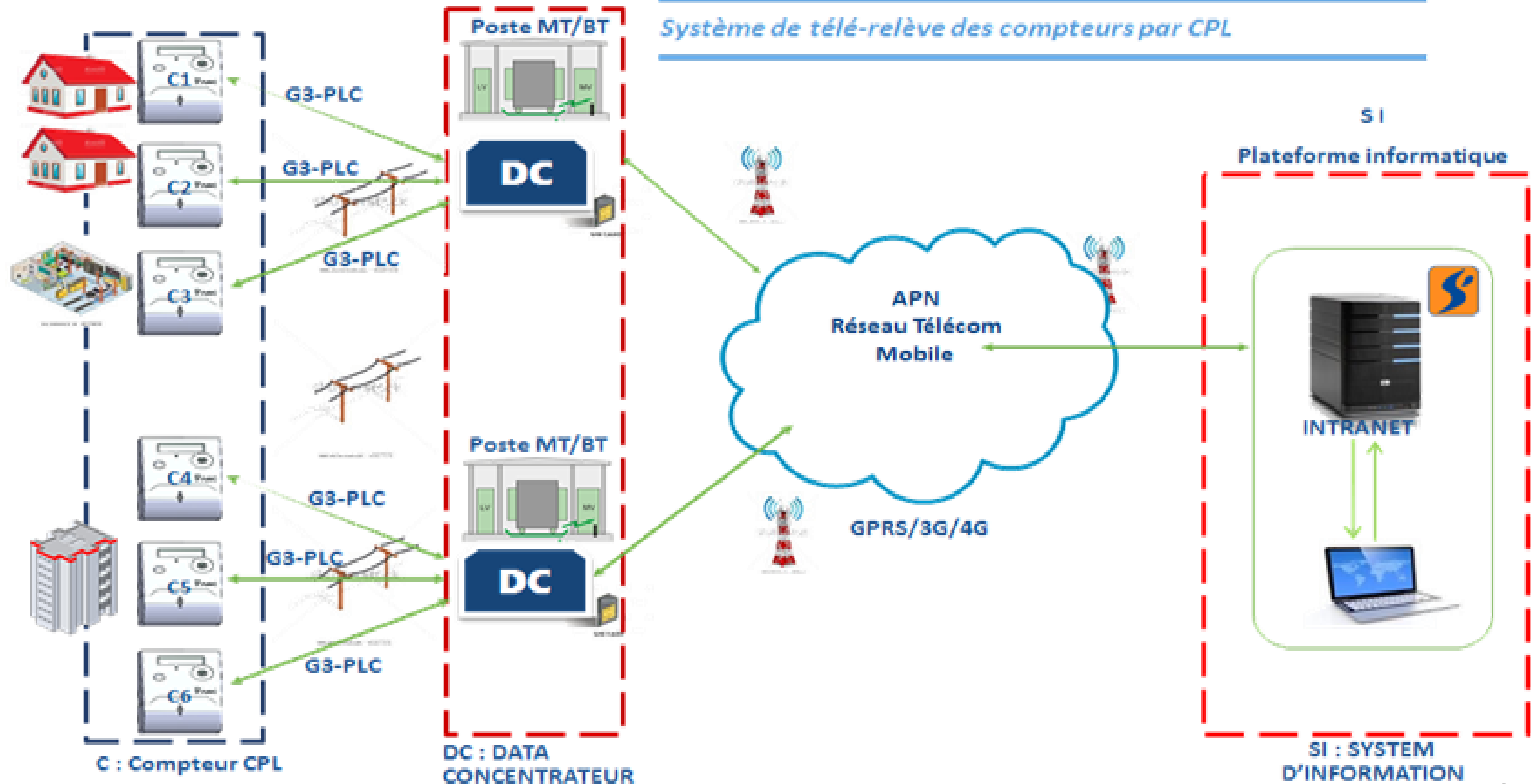
THE SMART GRID PROJECT DEVELOPMENT APPROACH.



THE CONTINENTAL MATRIX [EBC] (EXPECTATIONS, BEST PRACTICES CHALLENGES.

| Expectations | Best practices | Challenges |
|---|--|---|
| <ul style="list-style-type: none">- Solutions to reduce losses.- Solution for qualitative data management.- Solutions to reduce risk management costs- How to make technology choices- Make a Projection of the Evolution of the network system.- Integration of renewable energies.- Smart grids project management practices.- Benchmark experiences.- Identify all stakeholders.- unification of the standards of the Smart grids sector. | <ul style="list-style-type: none">- Identify the real needs- Realization of pilot projects / progressive approach- Choose mature technologies.- Skills transfer & training- Make a profitability analysis- Adopt a normative system of equipments.- Involve all stakeholders- Analyze the returns of the experiments carried out in Africa.- Use smart grids to solve business problems (technical management RH ...)- Have a planning and action plan. | <ul style="list-style-type: none">- Financial aspects!- Change and transition management- Capacity building- Inadequate communication infrastructure- Acquiring technical expertise.- Cyber security and data privacy protections- Management of technology's obsolescence- Inadequate legislative framework- having a unified normative system.- Involving stakeholders- Having a successful Procurement |

INTELLIGENT METERING SYSTEMS, SONELGAZ, ALGERIA



INTEGRATED DISTRIBUTION MANAGEMENT SYSTEM, SENELEC



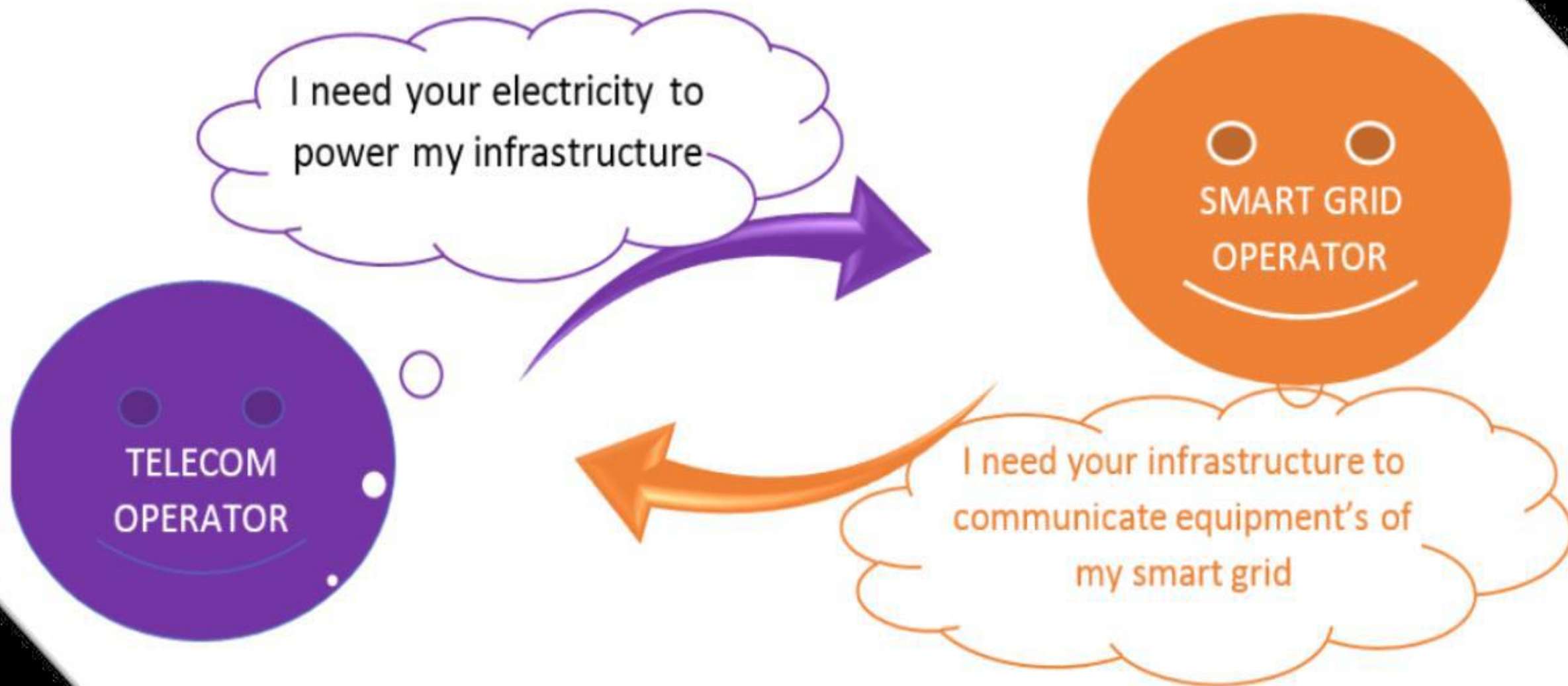
SEN'SCADA

SEN'SCADA



IDMS (Integrated Distribution Management System)

LINKAGES BETWEEN POWER UTILITIES AND COM SERVICES





**THANK YOU FOR
YOUR ATTENTION**

