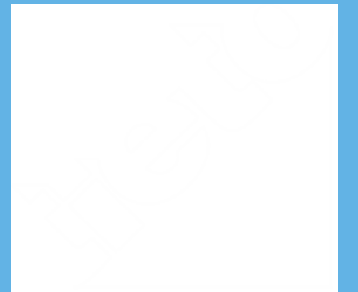


A market journey

From traditional operator to specialized service provider

Carl Lidholm

Head of Consulting & Lead Business Architect
Tieto Energy & Utilities
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Meet the speaker

Carl Lidholm

Tieto Energy & Utilities



Head of Consulting & Lead Business Architect

Short facts

- Been working in the Energy & Utilities Industry for 12 years.
- Key note Speaker Management Events Strategy council Sweden 2014-2015 and Norway 2015.
- Management consultant experience from Vattenfall, Fortum & others.
- Project Manager for large ERP & CIS implementations in the Energy & Utilities industry in Europe.

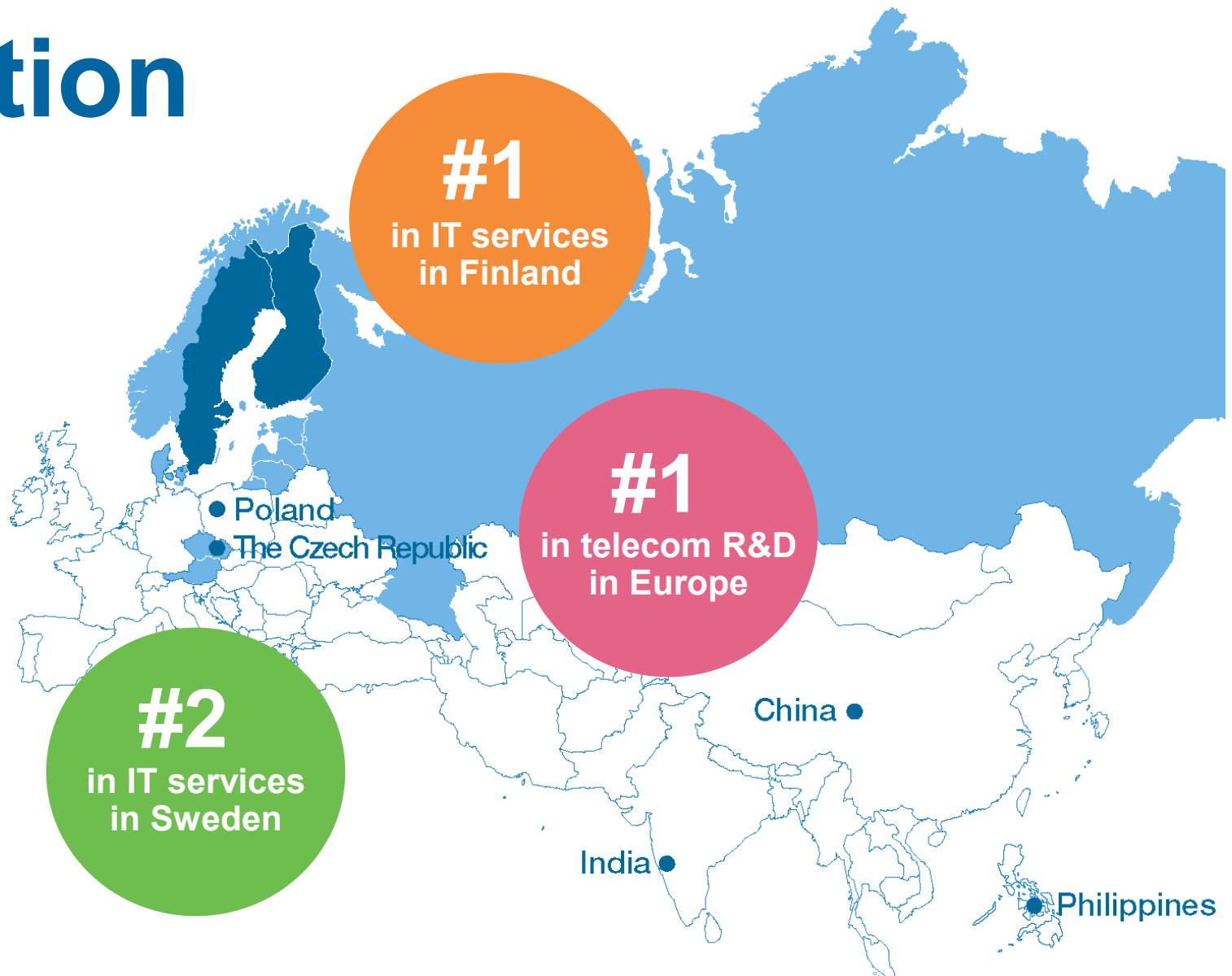
Tieto Corporation

Tieto is the largest company in the Nordics that provides full lifecycle services in IT, as well as product development, for private and public organisations.

Building on our Nordic heritage and values, we have global capabilities and a strong presence where our customers need it – in the Nordics or via global delivery centres across the globe.

Short facts

- Employees: 13.000
- Turnover: 1.500 MEUR
- Presence: +20 countries.
- Industries: *Energy & Utilities, Financial services, Forest, Healthcare & welfare, Oil and gas, Telecom and media.*



Tieto Energy & Utilities

Tieto Energy & Utilities is the market leading provider of IT based solutions and services for handling Customer information, Metering, Settlement, and Billing to Retailers and Distribution companies in the Nordics.

Tieto Energy & Utilities competence and know-how is used every day to handle customer relations and secure competitive earnings for almost 5,4M POD's.

Tieto Energy & Utilities of today has played a key role on the Nordic market for more than 45 years.

Short facts

- Employees: 440
- Turnover: 55 MEUR
- Presence: Sweden, Norway, Finland, Czech Republic, the Baltics and India.
- Key Customers: Fortum, Hafslund, Vattenfall and Eon.



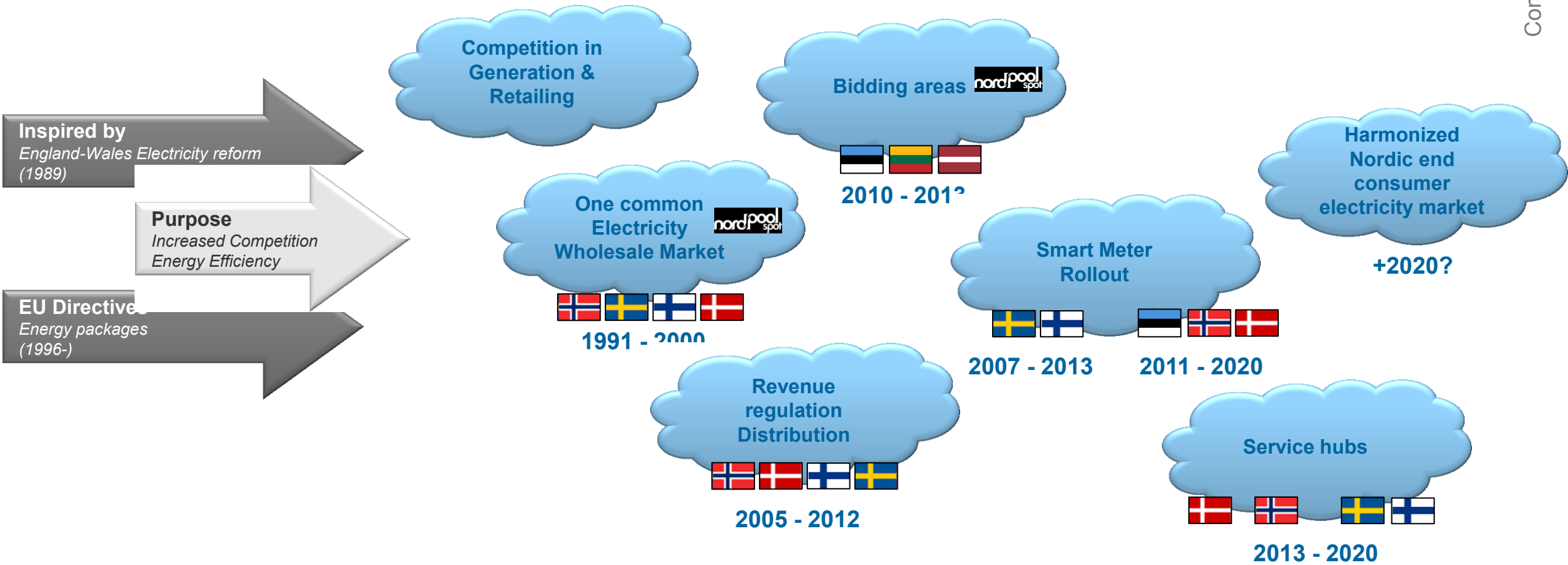
The journey – so far



Market evolution

- Overview

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A historical journey

- The period before deregulation in Sweden

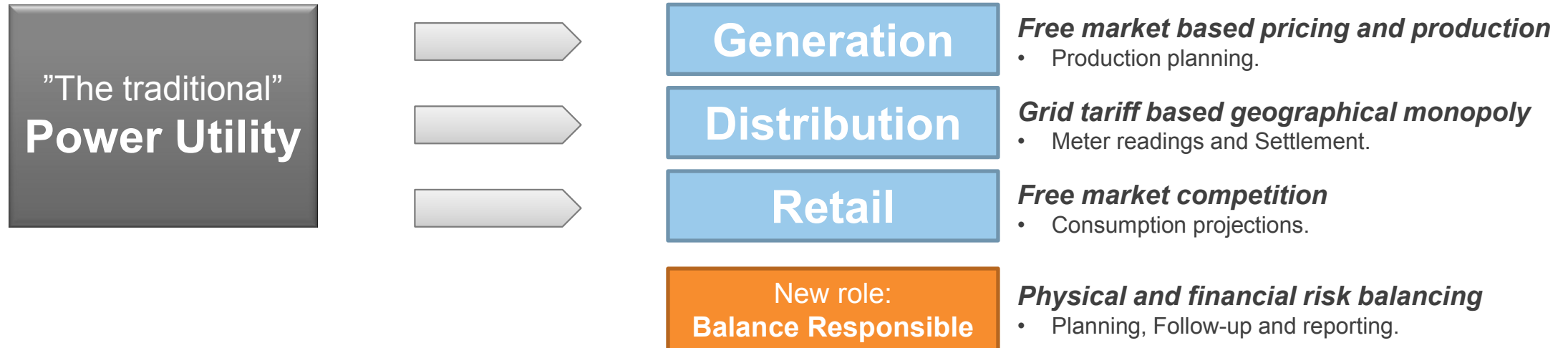
- Swedens first electricity company was founded 1884
 - Supplied the power to 1.000 light bulbs in Gothenburg
- Privately owned businesses that controlled small scale production and distribution cables in geographical areas.
- Transformation into municipal power utilities that remained in full control of Generation and Distribution.



A historical journey

- Looking back on the deregulation in Sweden

- Introduced in the mid 1990's to enable
 - Competition to benefit the consumers
 - Improved energy efficiency awareness and consumer proactivity



A historical journey

- Looking back on the deregulation in Sweden

- The early principle (1996)
 - B2B and B2C: Hourly readings and daily Hourly based settlement
 - DSO approach: Cost for the required new AMR-solutions ” to be financed” by the customers.
- Updated principle #1 (1997)
 - B2B and B2C: Hourly readings and daily Hourly based settlement
 - DSO ”entry fee” for the customer was limited to max. 250 EUR.
- Updated principle #2 (1999)
 - B2B: Hourly readings and daily Hourly based settlement
 - B2C: Yearly readings and monthly Profile based settlement
 - DSO no longer allowed to charge the customer for supplier switches.
 - Effect: Major improvement towards increased market movements.
 - Drawback: Full financial Settlement occurred 14 months afterwards.

A historical journey

- Looking back on the deregulation in Sweden

- Updated principle #3 (2006)
 - New lowered limit (from 63A) for which delivery sites to include in the daily Hourly based settlement
 - Effect: Improvements toward the foundation for monthly Profile based settlement
- Updated principle #4 (2009)
 - B2B: Hourly readings and daily Hourly based settlement
 - B2C: Monthly readings and monthly Actual consumption based settlement

A historical journey

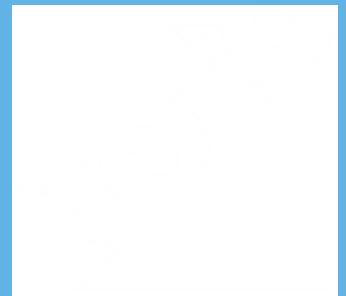
- Looking back on the deregulation in Sweden

- Challenges during the early years (1996 ~ 2009)
 - Flaws in the legal standard resulted in unclear market actor roles.
 - Recommended general market processes weren't utilized by all.
 - Traditional corporate structures (with DSO and Retail combined) led to protectionism and thereby inhibited genuine competition.
 - Insufficient competence to handle various challenges.
 - Unclear routines within and between market actors.
 - No consequences on market actors who decided not to follow the regulations.
- Consequences
 - Mandatory messages and data were not communicated and communicated data was hard to interpret
 - Critical information was missing and uncertainties on the quality of the information.
 - Incorrect data was communicated
 - "Junk mails" leading to misinformation.

A woman with curly hair is shown in profile, looking out over a landscape at sunset. The sun is low on the horizon, creating a warm, golden glow. The woman is wearing a dark jacket. The background shows a body of water and a distant shoreline.

Scouting the future energy arena

Known changes and transformation of IT
landscape to specialized services



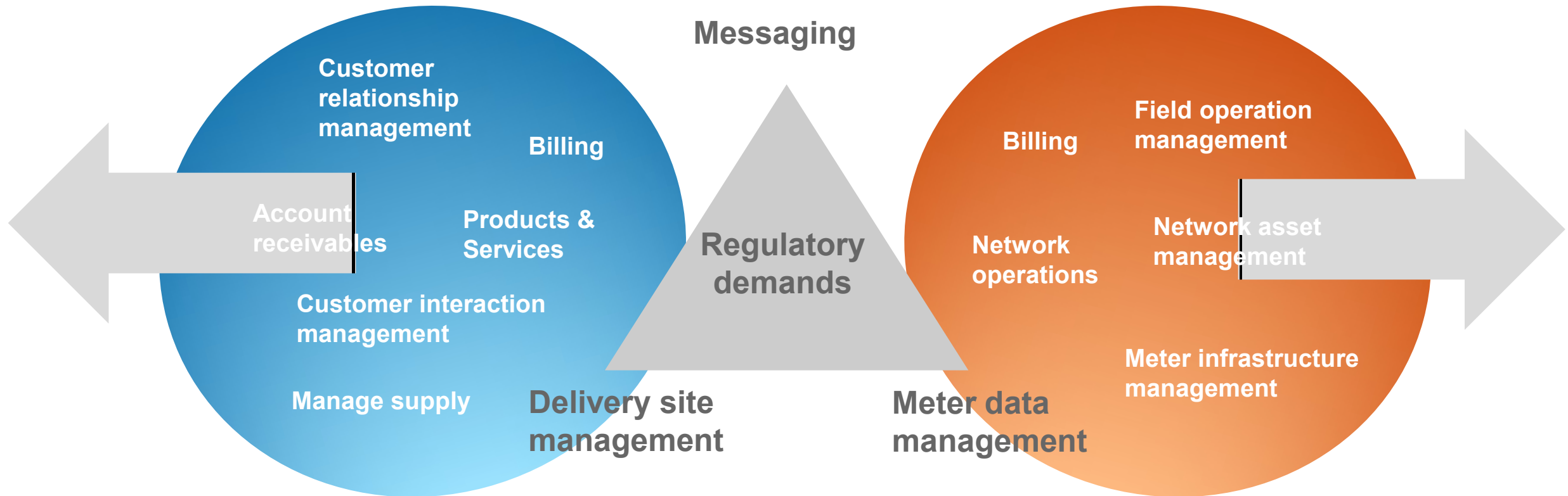
Efficiency requires specialised services

Retail:

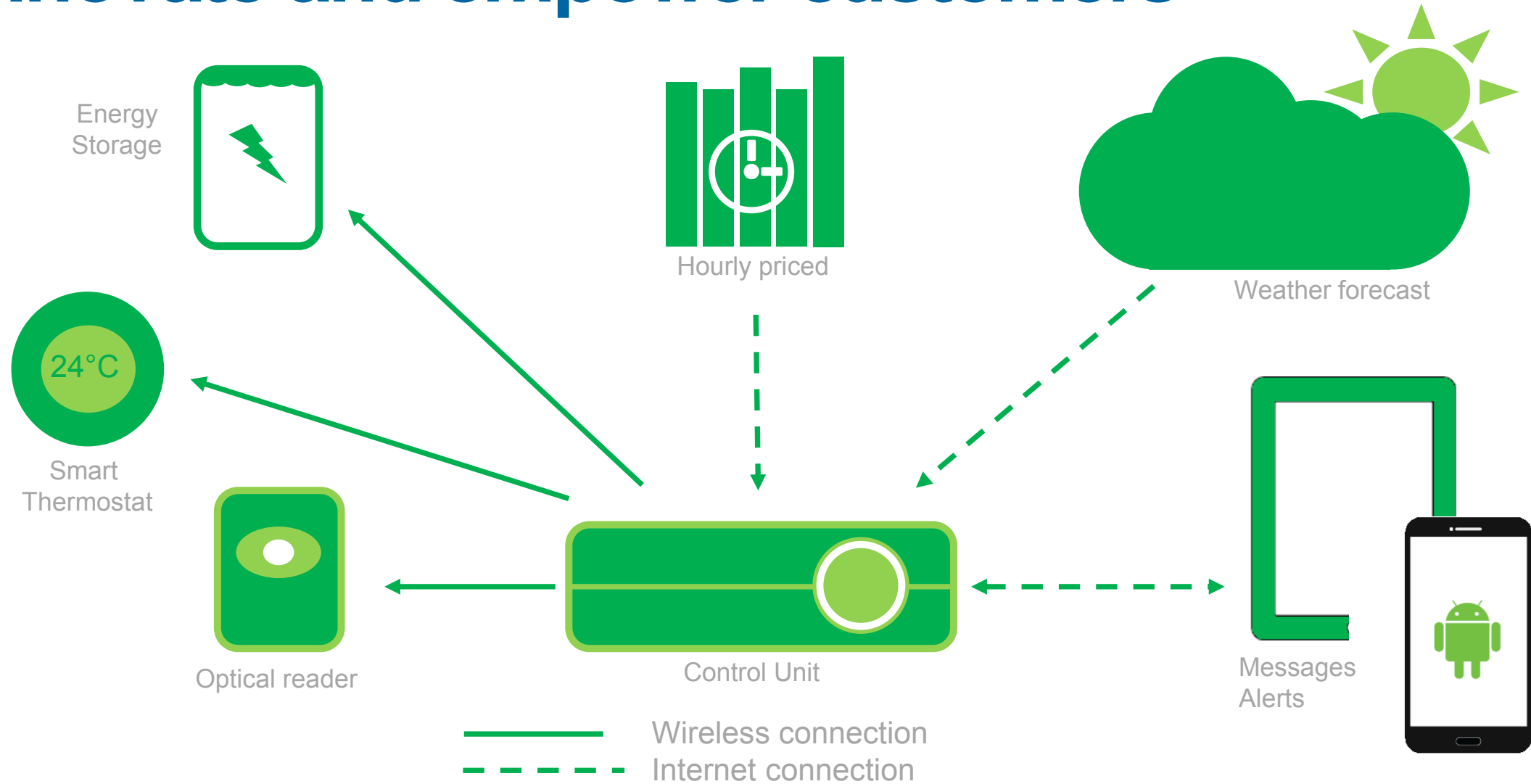
A competitive business to win and retain the right customers

Distribution:

Cost efficient and flawless operation with strong asset development



Innovate and empower customers



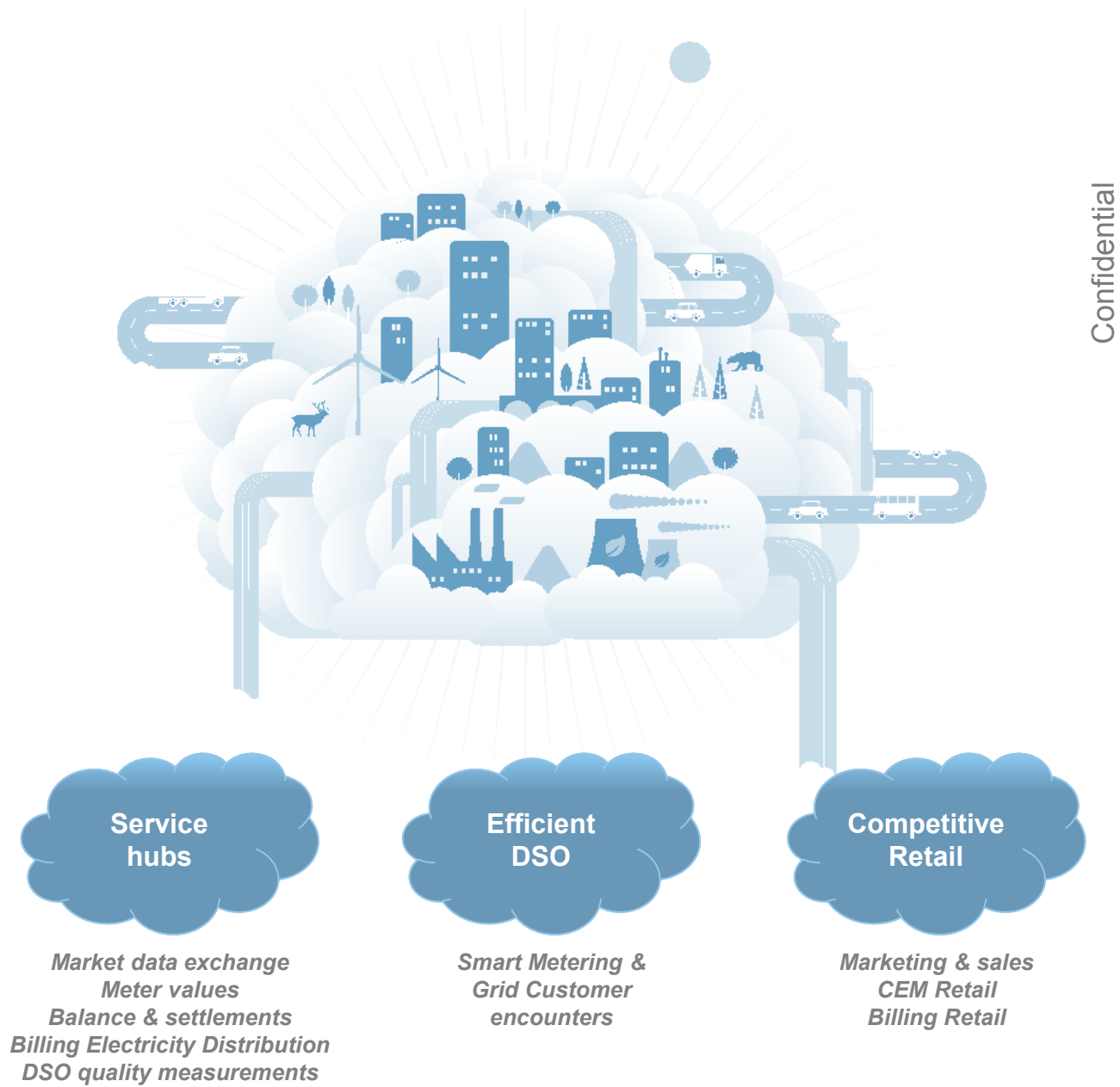
Transformation

Traditional
ERP solutions

Best-of-Breed
Solutions

Unbundling

Regulatory
Changes

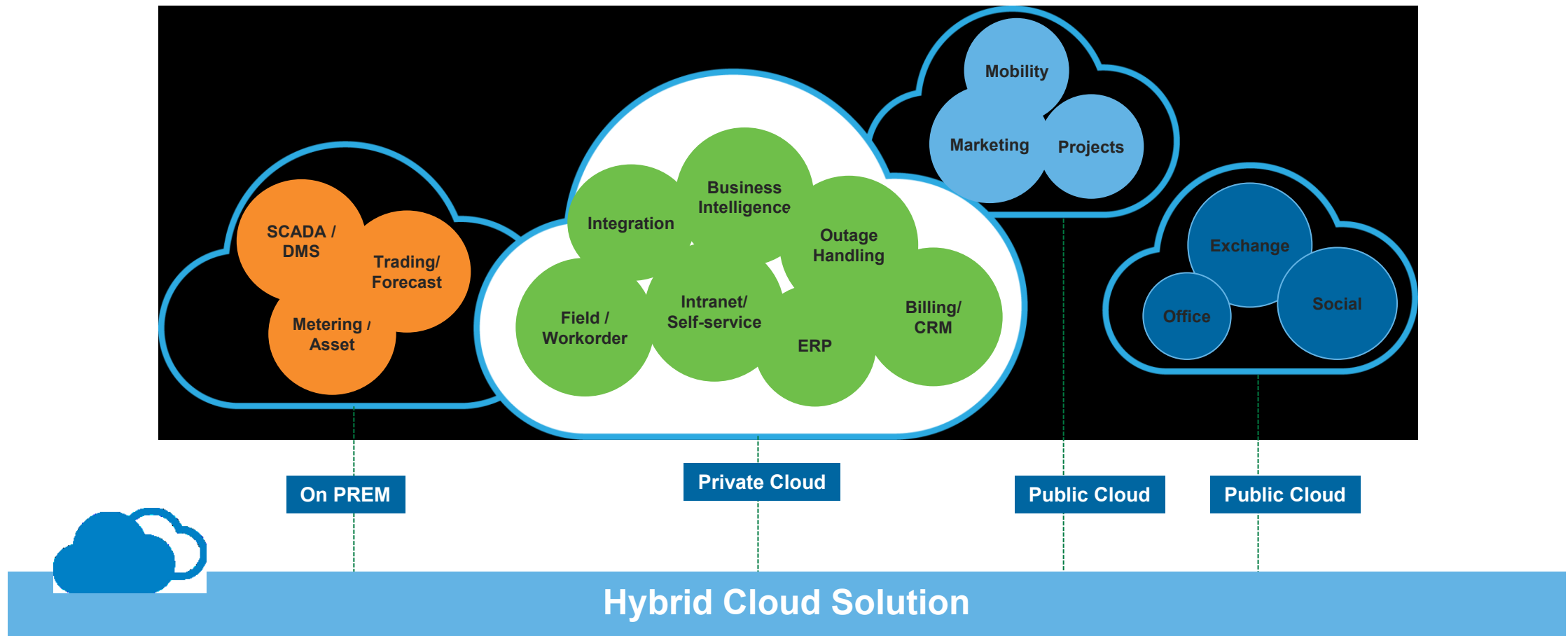


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Why organizations are moving to Cloud?



Example Scenario for Energy utilities



Changing perspectives

