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Sustainability and Efficiency through Advanced Business Integration

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## SAP AG

Revenue 2009 € Bil 10,7
Employees 12/2009 47584
Market Capitalization 04/2010 € Bil 45
Customer Installations 04/2010 – SAP 31604
Customer Installations 04/2010 – BOBJ 48 958
# Users Mio 20+

#### **SAP Business Suite:**

Lines of Code	392 000 000
Screens	200 000 +

Reports																				3000	)
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Go To Market by Industry . . .

**SAP for Utilities** 

**SAP** for Chemicals

SAP for Oil&Gas

..27 industry platforms

## Most used SAP application: Financials

		Da	atabase	In Memory Computing
BKPF	107 Fields	8,5 Mio Rows	6,4 GB	0,24 GB
BSEG	315 Fields	27 Mio Rows	60,2 GB	2,8 GB
Вхххх		es required for and aggregation	83,4 GB	Aggregation no longer needed
TOTAL			150 GB	~ 3 GB

## Strategic Alliance OSIsoft - SAP







#### **OSIsoft Partner Since 1996:**

- SAP Production Planning-Process Industries (SAP PP-PI) module
- > SAP Plant Maintenance (SAP-PM) module
- SAP Quality Management (SAP-QM) module
- The OSIsoft Business Package for SAP Portal
- Member of ES Community
- Member of Value Network for Chemicals, Mining, and Utilities
- Enterprise Services for SAP Enterprise Service Repository
- AMI MDUS Solution and participant in SAP Lighthouse Council since 2007
- > SAP Certified ESOA AMI Integration
- Endorsed Business Solution (EBS) OSIsoft MDUS



## What we have in common





Many of our customers (5000+)

Leaders within our respective market areas

100% complimentary products \*

Dedication to a particular business area

Platforms that mesh into others

A Corporate Culture that fosters software engineering

**Partner Microsoft** 

## SAP for Industry Platforms integrating into OSIsoft

The following industries use the OSIsoft® PI System® to provide the real-time data infrastructure and collaboration tools they need to meet key challenges:

#### **Utilities**

- · Maximizing asset performance
- Optimizing production
- Mitigating risk
- Enabling the Smart Grid

#### Oil and Gas:

- · Maximizing asset performance
- Optimizing production
- Centralizing process and enterprise knowledge and experience

#### Manufacturing:

- Manufacturing Synchronization
- Performance Management
- Energy Management

#### Chemicals:

- Optimizing production
- Increasing energy efficiency
- Mitigating risk and achieving regulatory compliance

#### Mining:

- Increasing energy efficiency
- Managing water consumption
- Maximizing asset performance
- Mitigating risk and achieving regulatory compliance

#### **Cross Industry:**

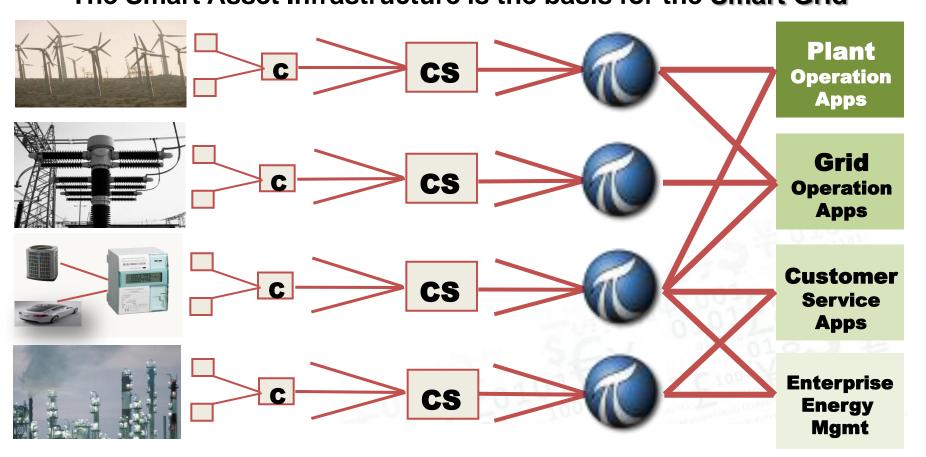
- Increasing energy efficiency
- Improving capacity planning
- Reducing IT and facilities costs



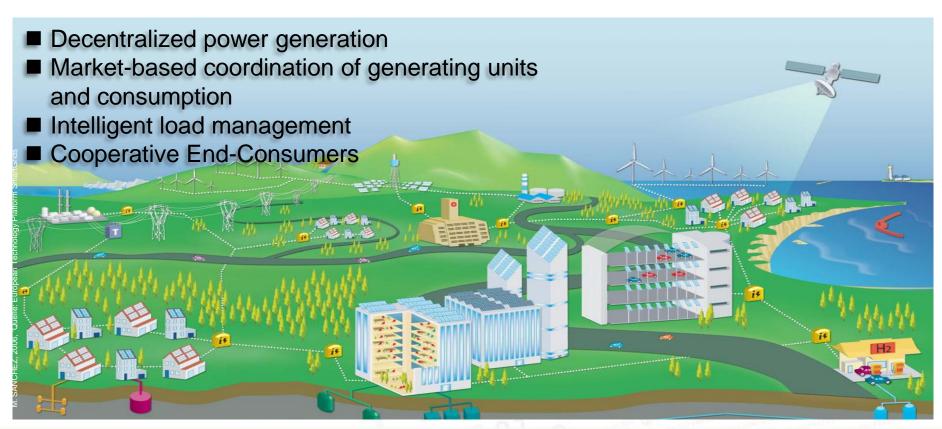
## **Linking Real Time Data into Business Apps**

Data Sources	Data Services	Data Collect/Mgmt	Operations	Enterprise
Transformers				
Pumps	Historians	<b>→</b> ≈ ₽	Rating/Billing	Buildings
Meters	Mobile Devices	haver nnector & Performe	Customer Service	Utilities
Sensors	Mobile Devices	onnecia a Perfc	Preventive Maintenance	
Motors	SCADA	ateway	Monitoring	Mining
Valves	LIMS	B EV	Analytics	Manufacturing Pharmaceuticals
Actuators	LIMO		Supply Chain	Chemicals
RFID	PLC/Instrument Systems	Real J	GeoSpacial	Oil & Gas
Other		OSI-vit	CA	D

#### The Smart Asset Infrastructure is the basis for the Smart Grid

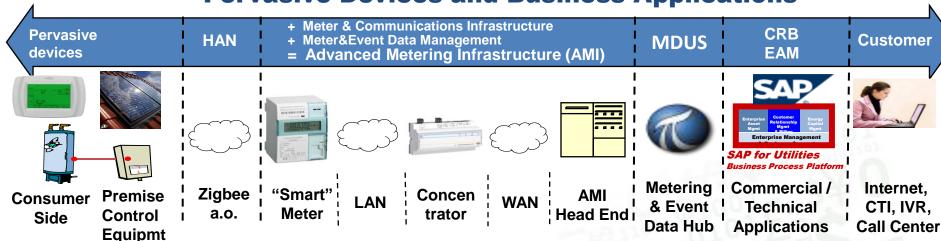


## The "Brave New World" of 2020 ...



## Osisoft and SAP managing the backend of an Advanced Metering Infrastructure

Mediating between asset-monitoring Real Time Systems or Pervasive Devices and Business Applications

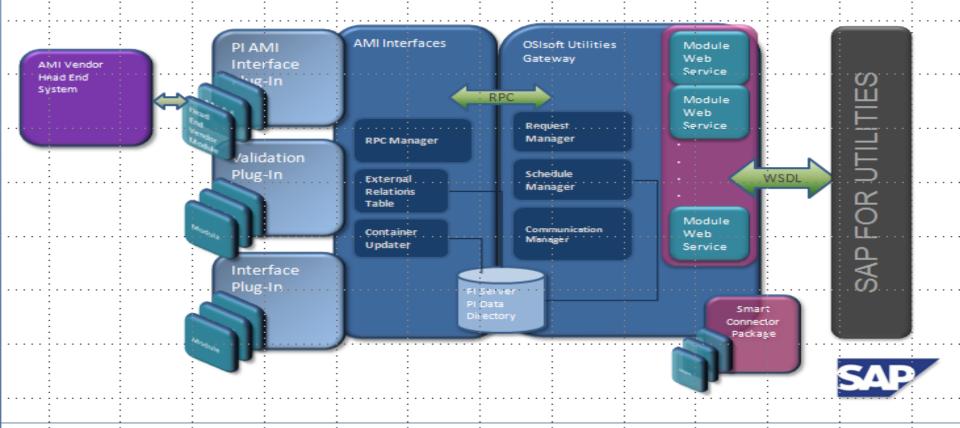


The roles of the **MDUS**:

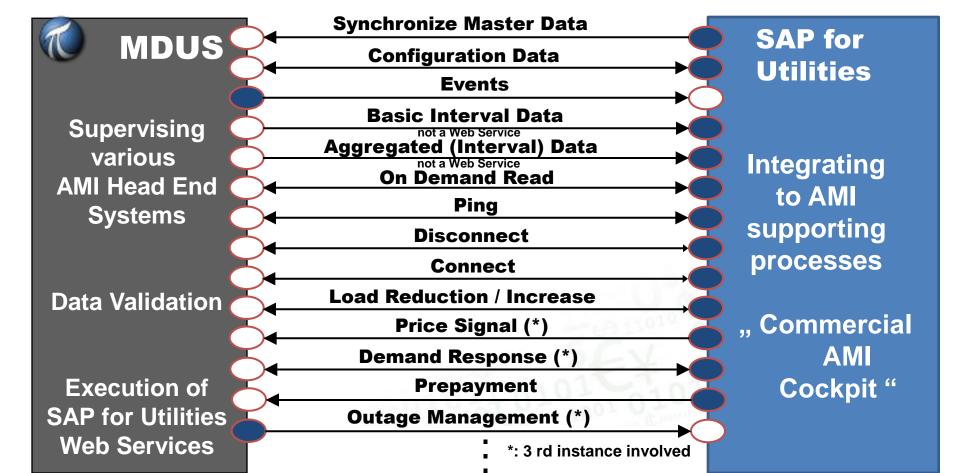
- Collecting Meter Data
- Unifying
- Synchronizing

#### **OSIsoft MDUS**

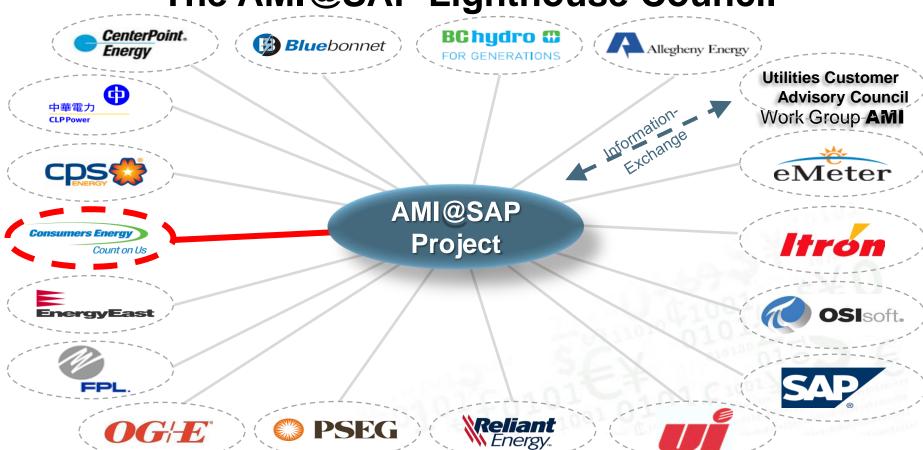




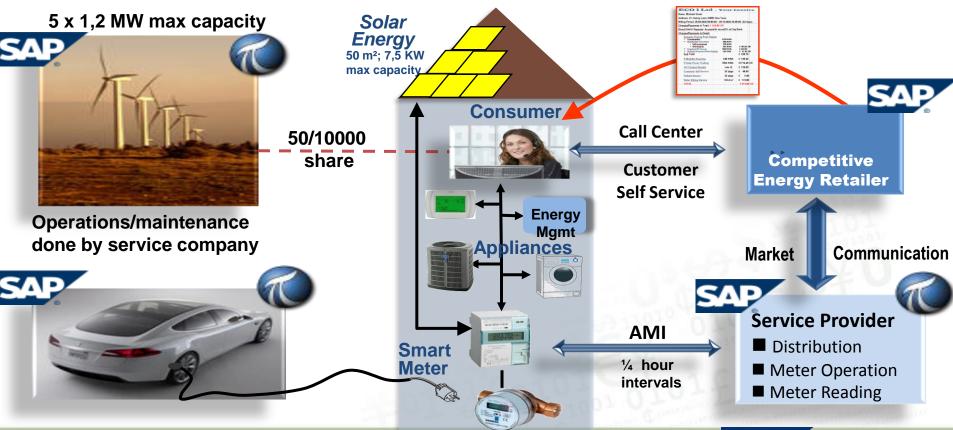
#### AMI@SAP System Architecture Enterprise Services integrating the MDUS and SAP



## The AMI@SAP Lighthouse Council



## The Consumer of the Future



### The "Smart Bill"

## ECO 1 Ltd - Your Invoice

Name: Michael Green

Address: 21, Sunny Lane; 64883 New Town

Billing Period: 28.09.2020 00:00:00 - 29.10.2020 24:00:00 (32 days)

Charges/Payments in Total: € 919,85 CR

Direct Debit / Payment: Account Nr xxxxx321 at City Bank

Charges/Payments in Detail:

#### **Dynamic Pricing Peak Rebate**

Consumption	2135 KWh	
Distributed Generation	898 KWh	
<ul> <li>Self-consumed</li> </ul>	235 KWh	
<ul> <li>Grid feed-in</li> </ul>	663 KWh	€ 165,43 CR
<ul> <li>Supplied Renewable Energy</li> </ul>	1900 KWh	€ 423,23
Demand Response/Peak Rebate	134 KWh	€ 27,02 CR
Sub Total		€ 230,78
E-Mobility Roaming	648 KWh	€ 195,45
Private Power Trading	7824 KWh	€ 1712,28 CR
A/C Product Bundle	rate 12	€ 139,00
Customer Self Service	32 days	€ 48,00
Reliant Service	32 days	€ 6,40
Water Billing Service	123,4 m³	€ 172,80
TOTAL		€ 919,85 CR







# Thank You



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