

**OSI**soft<sub>®</sub>

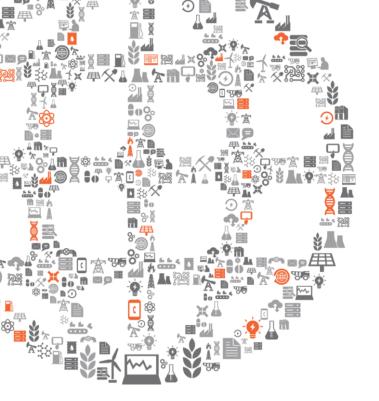
### **JSERS CONFERENCE**

The Power of Data CHANGE

**THRIVING** 

IN A

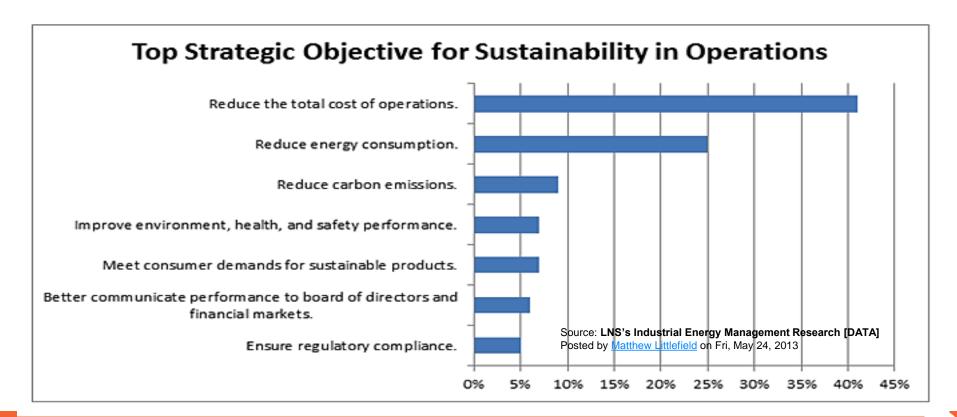
WORLD OF



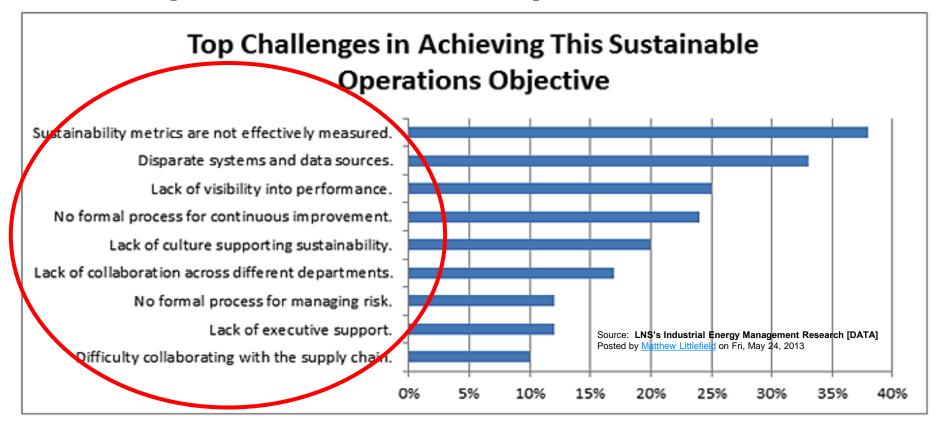
# Water & Resources Management: Sustainability Highlights

Presented by Andrew Fanara

#### What Sustainability Teams Want...

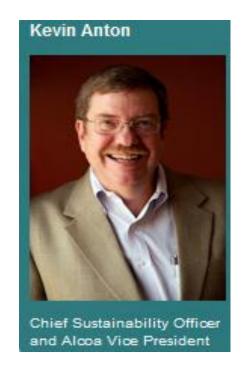


#### **How Operations Can Help...**



# Alcoa's Keys to Sustainability: Leadership, Scorecards, Roadmaps, Compensation, Transparency and **DATA**

"One of the things we saw when we went after our CO2 goals, is we used technology to give the people on the shop floor better data and faster data so they could make real-time changes to the processes. This gave us lower energy costs, lower carbon footprint and typically, a higher output."



#### Why Sustainability is an Emerging *Megatrend\**

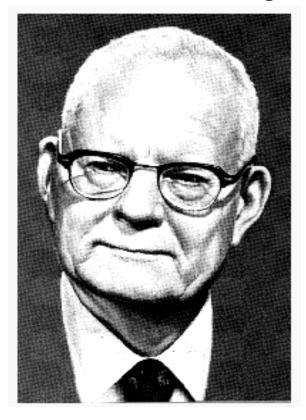
- Launched by dramatic shifts in the marketplace which result in a general shift in thinking affecting entire countries, industries and organizations.
- An inescapable strategic imperative that forces fundamental and persistent shifts in how companies think and compete.
- Even as the economy struggles to regain momentum, 70% of companies surveyed put Sustainability on their management agendas, 68% of those companies have increased their commitment to sustainability over the past year.
- This trend towards greater commitment is very strong in key "Heavy Asset" industries such as Energy, Utilities, Chemicals, etc.

\* The Sustainability Imperative, Harvard Business Review, May 2010, David Lubin, Dan Esty \*\* Sustainability Nears a Tipping Point, MIT Sloan Management Review, Winter 2012, Vol.53 No. 2

#### **Several Common Definitions for Sustainability**

- ➤ A business approach that creates long term shareholder value by embracing opportunities and managing risk deriving from economic, environmental and social developments. Source: Dow Jones Sustainability Index
- ➤ Imagined and fully implemented, sustainability drives a bottom line strategy to save cost, a top line strategy to get new customers and a talent strategy to get, keep and develop employees, customers and your Community. Source: Adam Werbach, Strategy for Sustainability, A Business Manifesto, 2009

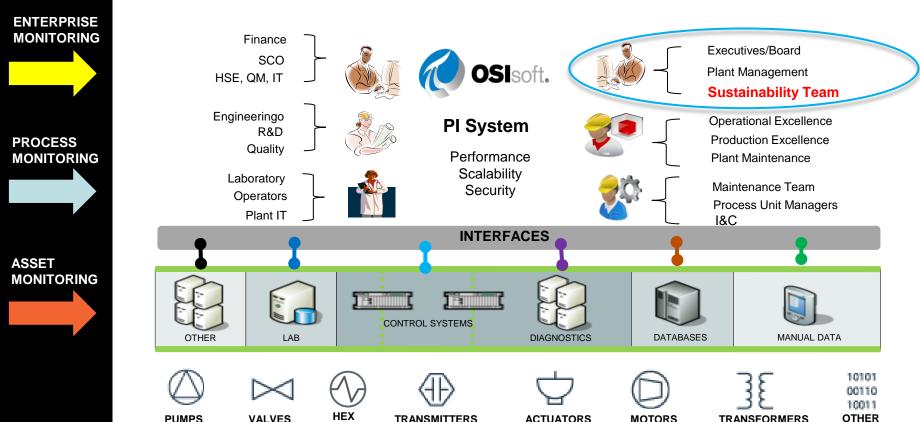
#### W. Edwards Deming



# Similarities Between Quality & Sustainability Movements

- Renown business management icon famous for his contribution to Japanese industry's quality and innovation philosophy
- Championed Plan Do Check –
  Act Adjust cycle

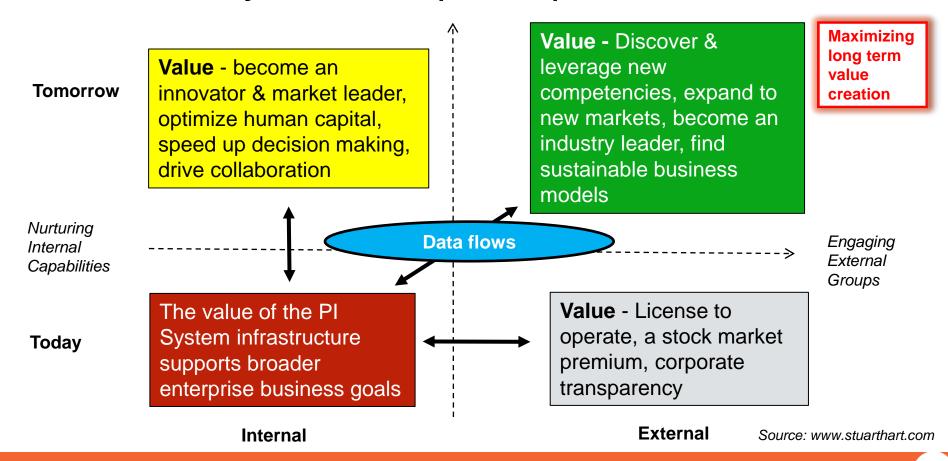
#### **Corporate Silos Separate CSOs from PI System Data**



**TRANSFORMERS** 

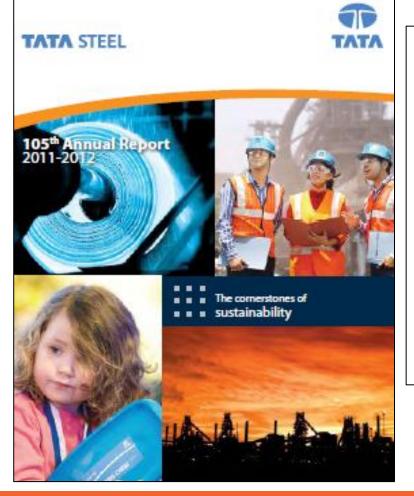
# How to Explain PI to your Sustainability Team The PI System

#### The PI's System Value Maps to Corporate Wide Initiatives





IT-enabled production process at Tata Steel, Europe



The responsibility of combining the three elements of society – social, environmental and economic - is of utmost importance to the way of life at Tata Steel. It is the combination of these three elements that ensures that business is sustainable for all stakeholders.



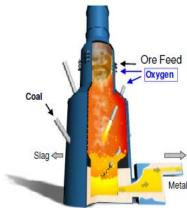
## We are pursuing a comprehensive strategy of growth and sustainability.

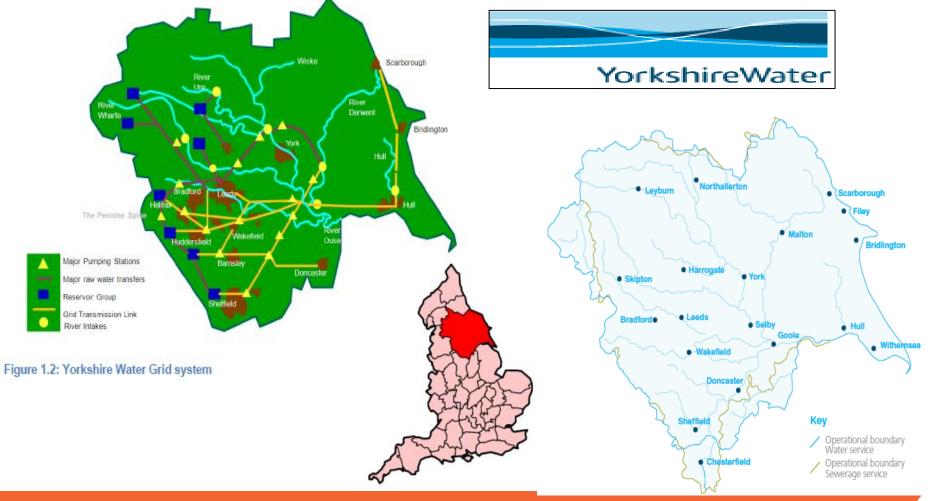
In spite of a challenging economic environment during the Financial Year 2011–12, Tata Steel focussed on mitigating the challenges of the global economy and implementing its strategic objectives. Through their consistent interactions with various stakeholders, Mr. H. M. Nerurkar (Managing Director, Tata Steel), Dr. Karl-Ulrich Koehler (Managing Director and Chief Executive Officer, Tata Steel Europe) and Mr. Koushtk Chatterjee (Group Chief Financial Officer, Tata Steel) have shared the Company's response to the global economic scenario and its continued commitment to sustainability, These are a few key themes of the discussions.

2012 Tata Annual Report

Tata Steel's long term strategy is focused on sustainability and value creation in an interdependent manner.







#### **Business strategy**

Yorkshire Water has a vision - 'taking responsibility for the water environment for good'.

The essence of the vision is doing what's right – for customers, colleagues, investors, partners and the environment.

To achieve the vision the company needs a plan and the plan has been named Blueprint. Blueprint is something everyone can contribute towards to make a difference.

#### Taking responsibility for the water environment for good

Trusted company: part of our blueprint

Safe water: part of our blueprint



Water efficient regions: part of our blueprint



Strong financial foundations: part of our blueprint

Excellent

To deliver the plan, the company has developed six strategic business objectives (SBOs). These SBOs shape everything the company does:

#### Trusted company

The way Yorkshire Water does business means its products, services and promises are trusted by all our stakeholders, now and in the future.

#### Safe Water

Yorkshire Water protects public health and makes sure water is safe to drink. Yorkshire Water ensures that water does not harm customers or communities at any point in the process.

#### Excellent catchments, rivers and coasts

Yorkshire Water maintains and improves the water environment from source to sea and influences others to do the same.

#### Water efficient regions

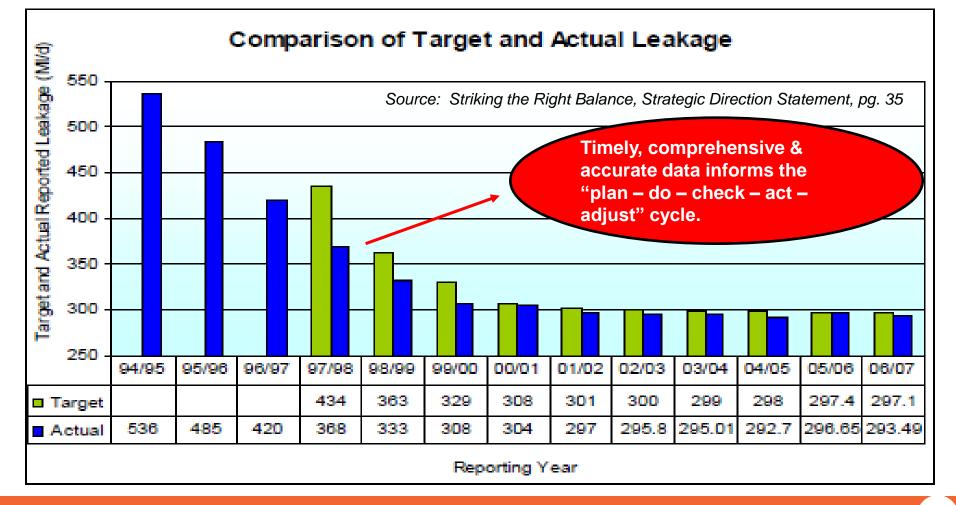
The way Yorkshire Water operates and influences others creates water efficient regions.

#### Sustainable resources

Yorkshire Water uses sustainable resources, gets the most out of them and reduces emissions and waste

#### Strong financial foundations

Yorkshire Water delivers services to customers at a price they are willing and able to pay, whilst providing investors with returns that attract long-term investment.



# Esholt WwTW - Pioneer of Sustainability

Esholt was built in 1924 and now serves a population of around 600,000 people. Over recent years, we've invested heavily onsite and have further plans.

#### Fully Sustainable

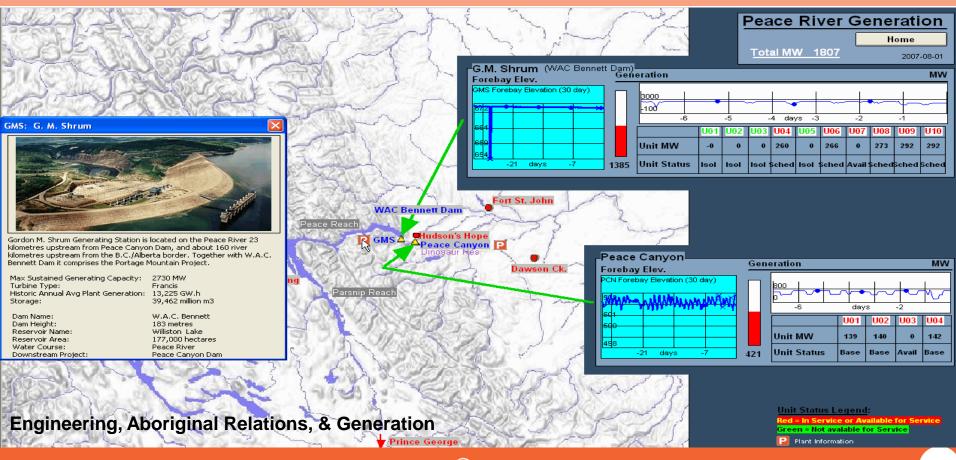
Our aim is for the Esholt site to be completely self sufficient when it comes to energy. We've already installed two combined heat and power

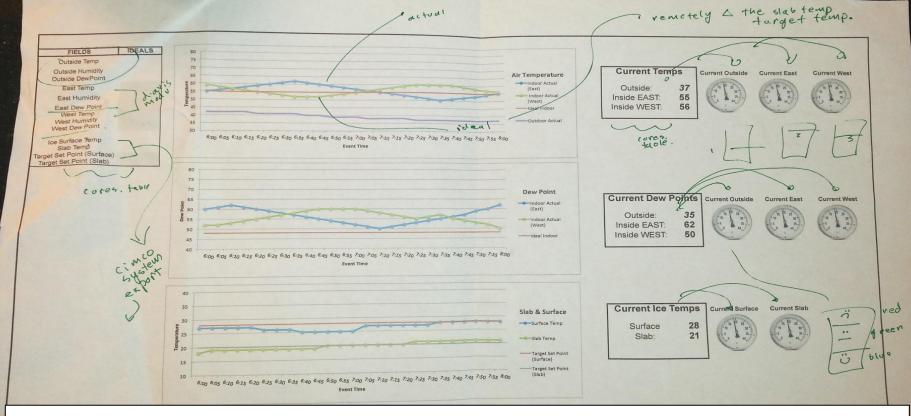


generators which cost £1m each. These can create around one third of the energy required to power the plant each day by turning methane into heat and power.

Source:

#### **Executive Overviews for Non Operational Executives**





Use PI Data to Bridge the Gap between Operations & Sustainability Teams

#### A Data Infrastructure to Support Diverse Sustainability Initiatives...

#### **Across the Enterprises & Supply Chain**











Safety & Risk Management Cybersecurity

Human Capital Optimization Resource Management Emissions

Governance & Global Best Practices

Regulatory & Compliance

Supply Chain Management

#### The OSIsoft PI System Infrastructure

