

New Industry KPI's and Benchmarking Initiative

A low-angle, close-up photograph of a white wind turbine against a clear blue sky. The image shows the central hub and the base of three blades, with the blades extending outwards. The lighting creates strong highlights and shadows on the turbine's surface.

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Who are Risktec?

- Independent and specialist risk management consulting and training provider
- We focus on:
 - Safety & Risk Assessment [what are the risks?]
 - Management Systems [how are they managed?]
 - Culture & Behaviour [what really happens!]
 - Training & Education [knowledge transfer]
- 130+ personnel across 10 offices world-wide
- Primarily operating in Major Hazard Industries
- Becoming increasingly involved in Wind Industry [onshore and offshore]



Purpose of Presentation

- 1) What are KPIs?
- 2) Why develop Health & Safety KPIs for UK Wind & Marine Energy Industry?
- 3) What have we done so far?
- 4) What will KPIs look like and how will they work?
- 5) What's still to do?

What are KPIs

*KPIs help to get insight in your business performance –
“What gets measured, gets managed”.*

www.kpilibrary.com

**KPIs must target what is important to success
[efficiency, output, quality, safety etc.].**

Can be applied to an Industry.

**Key Safety Performance Indicators [KSPIs]
for UK Wind and Marine Energy Industry**

Types of KSPI

There are two broad types of KSPIs:

- 1) Measurement of **unsafe** acts/conditions or actual **harm** [death, injuries, near-misses].

‘Lagging’ Indicators

- 2) Measurement of **safety** i.e. measuring the prevention and minimisation of incidents through [in priority order, prevention being better than cure];
 - Eliminating/Reducing hazards.
 - Barriers between hazards and undesirable events.
 - Barriers between undesirable events and the causation of harm.

‘Leading’ Indicators

How Safe?

The Health and Safety Executive (HSE) recently said it was “extremely difficult” to assemble a “complete picture of reported incidents at Wind Farms”



RenewableUK has recognised the need for data, analysis and learning from failure/ incident data in the Industry

Why develop KSPIs?

Current Position:

- 1) No clear understanding of how safe the Wind Industry is.
- 2) No means of measuring performance to promote and encourage learning/improvement.
- 3) No means of benchmarking across Industry and beyond to promote and encourage improvement.
- 4) Incident and near miss scheme [“Lessons Learned”] been operating since 2006.

Why develop KSPIs?

Existing 'Lessons Learned' Scheme

Strengths:

- ✓ Valued and well used by membership.
- ✓ Presents a rich source of information.
- ✓ Existing reports include excellent qualitative information.
- ✓ Demonstrates a willingness to learn.

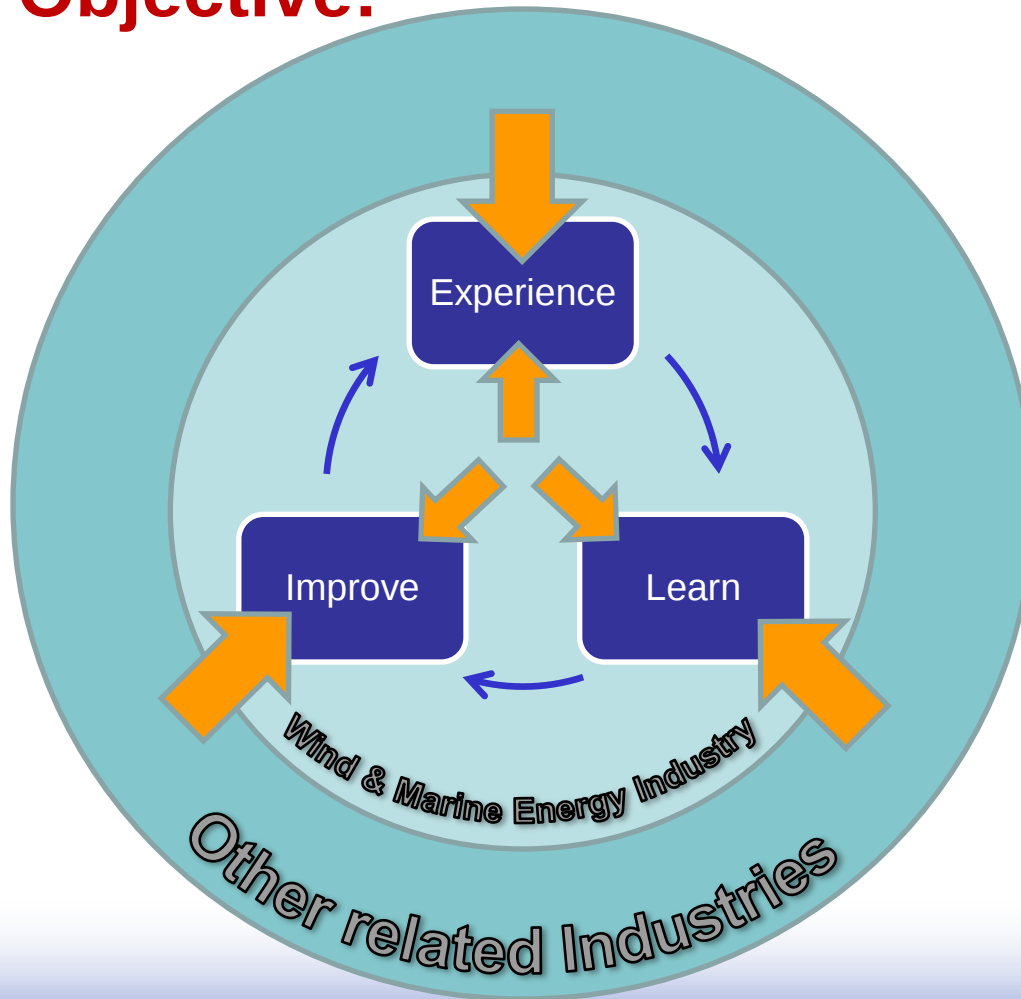
Weaknesses:

- ✗ Does not provide a complete picture of Mandatory Reporting.
- ✗ Only covers a limited cross section of the RenewableUK membership.
- ✗ Does not enable efficient communication of safety critical incidents.
- ✗ Does not produce and publish objective KPI's.
- ✗ Does not promote structured safety improvement.

....but forms excellent foundation for this Safety KPI and Benchmarking initiative.

Why develop KSPIs?

Objective:



Project Objectives:

1. To improve the nature and extent of incident reporting to RenewableUK.
2. To identify Health and Safety KPI's for RenewableUK.

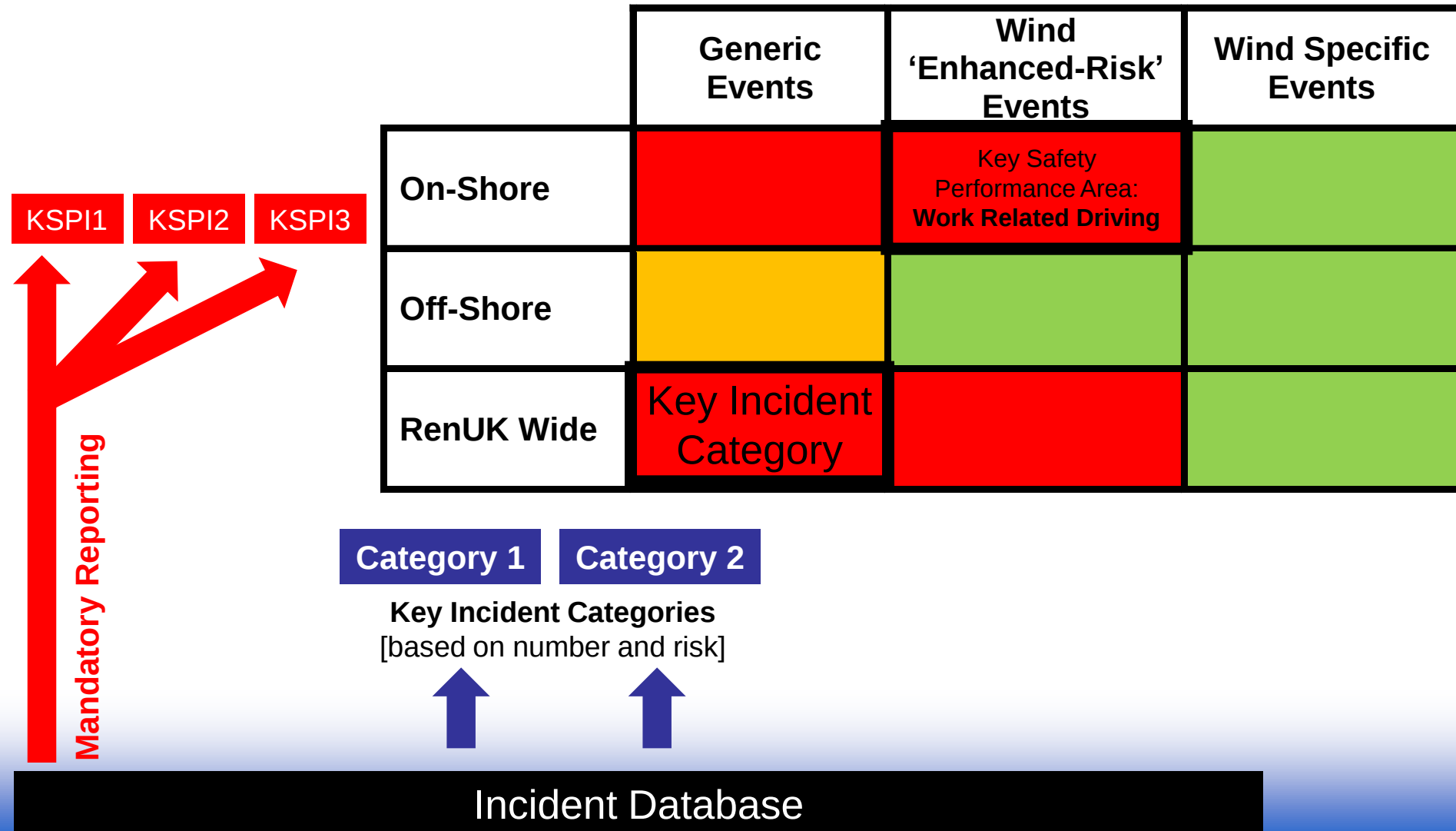
Work done so far



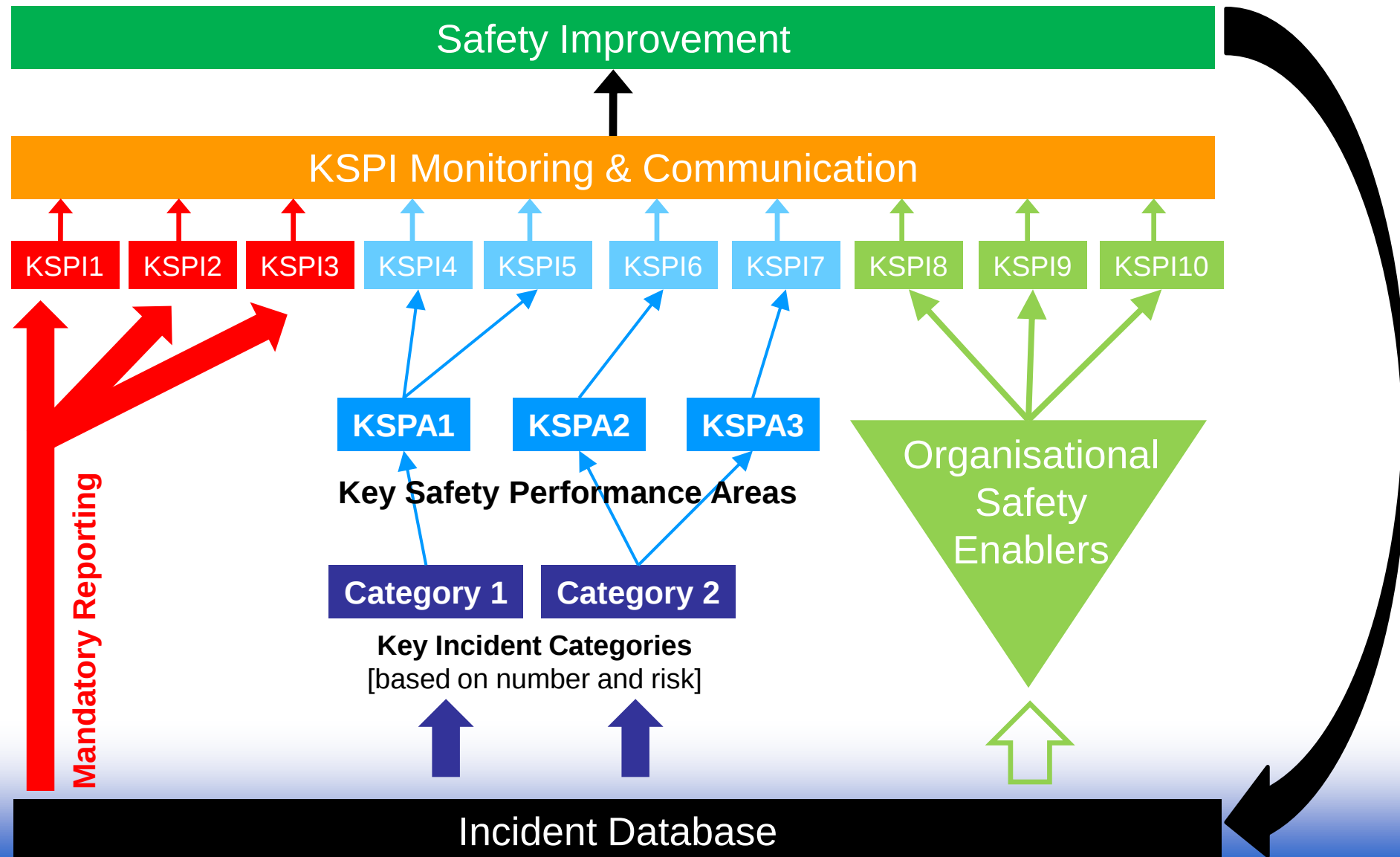
Overview of KSPIs



Overview of Proposed Process



Overview of Proposed Process



Updated Incident Reporting

- 1) Forms foundation of KSPI System.
- 2) Feeds database on which KSPI System is based.
- 3) New, updated Form [Web Portal];
 - What happened? – structured narrative.
 - Why it happened? – assign 'Causal Factors' to target improvement.
 - Potential significance of incident - assign Risk Factors.
 - Indicative Lessons Learned from incident.

Assured Confidentiality

Example Reporting Model



The aim is to move the contour as far out as possible.

Contours can show:

- Annual changes.
- Company performance against average.
- Benchmarking between industries.
- etc.

Mandatory Reporting KSPIs

Organisational Safety KSPIs
[Leading]

Incident Database KSPIs
[Leading/Lagging]

What next?

- 1) Risktec present detailed report and final recommendations including first set of KSPIs.
- 2) RenewableUK Review.
- 3) Develop IT Platform.
- 4) Test/trial of KSPI System [small group].
- 5) Roll-Out of new KSPI System;
 - Publicity
 - Training
 - Overlap with shut-down of existing 'Lessons Learned' Scheme.

Essential Industry embraces and uses it.

Effective implementation crucial to success.

Summary

- 1) Focus on making it simple, appropriate and effective.
- 2) Benefitted from wide consultation and received widespread support.
- 3) Learned from other Industries/Sectors.
- 4) Not final answer, but a first vital step!
- 5) 1st set of KSPIs evolved from existing 'Lessons Learned' Scheme [reflect what has actually happened].
- 6) KSPIs not fixed but will grow/evolve with Industry.
- 7) New Incident Reporting Form acts as heart of KSPI System.

Essential Industry embraces and uses it.

Effective implementation crucial to success.

More information

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