

Industry Day 2012 "How to Attack Downtime"

Impact Reputation Safety Availability & Performance Cost

How to Attack Downtime

The No Fault Found syndrome and other difficult-to-diagnose problems have a variety of negative effects on aerospace organisations.

Impact Areas were grouped in Red:

Who's Problem?

Impact

Equipment OEM

Platform

Manufacturer

Operator

MRO

Equipment OEM Platform Manufacturer **Operator** MRO

Equipment OEM Platform Manufacturer <mark>Operator</mark> MRO

Equipment OEM Platform Manufacturer Operator **MRO**



Safety

Availability & Performance

Cost

How to Attack Downtime

Every organisation will be affected to some extent by these problems, but some own these impacts more than others.

It depends on the support arrangement exactly where the ownership falls in each enterprise, but a generalization to consider is in Yellow.

This generalization will focus thinking about whether YOUR organisation owns impacts that it currently does not manage.

Who's Problem?

Impact

Quantify

How to Attack Downtime

Equipment OEM

Platform

Manufacturer

Operator

MRO

Equipment OEM Platform Manufacturer **Operator** MRO

Equipment OEM Platform Manufacturer **Operator** MRO

Equipment OEM Platform Manufacturer Operator MRO Reputation

Safety

Availability & Performance

Cost

Lost Sales (Civil) Exclusion from force package (Mil)

Maintaining regulatory compliance Crew & Technician Workload – Human Factors

Downtime Cost

Key Assets – On Time
Performance

Planning assumption of
Unreliability

Fines & Fees

Skills and capability/capacity Equipment Repair Inventory Process & Overhead Burden Lost Opportunity Quantifying the impact is required to understand the scale of waste & assess the priority of action.

In general, many of the attendees at Industry Day 2012 felt that these impacts were poorly quantified.

Who's Problem?

Impact

Quantify

Address

How to Attack Downtime

Platform
Manufacturer
Operator
MRO

Equipment OEM
Platform Manufacturer

Operator

MRO

Equipment OEM Platform Manufacturer **Operator** MRO

Equipment OEM
Platform Manufacturer
Operator
MRO

Reputation

Safety

Availability & Performance

Cost

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Skills and
capability/capacity
Equipment Repair
Inventory
Process & Overhead Burden
Lost Opportunity

Root Causes

Root Causes Runners & Repeaters

Root Causes First Time Fix Rate

Root Causes Maintenance Manhours Data Capture Knowledge Based Improvements In order to reduce the Impact of diagnostic problems, we need to address:

How to Attack Downtime

Once the problem's Impact and Ownership have been decided, the group felt that a case for taking action needed to be made *in relative priority to other activities*.

Unfortunately, because the problems remain largely unquantified, many organisations lack the impetus to take action despite an unease that the problems exist.

The solution is to gather evidence and create a basic value-equation to assess the need for action:

Who's Quantify Address Action **Impact** Problem? **Evidence Equipment OEM Platform** Lost Sales (Civil) Reputation Manufacturer **Root Causes** Basic **Exclusion from force** package (Mil) **Equation** Maintaining regulatory **Root Causes** Platform Manufacturer compliance Safety **Runners &** Crew & Technician **Operator** Workload - Human Factor **Repeaters Fixes Downtime Cost** Key Assets - On Time Availability & **Root Causes** Platform Manufacturer **Performance** Planning assumption o **Performance** First Time Fix Rate **Operator** Unreliability Fines & Fees Improved: Skills and **Equipment OEM Root Causes** Safety capability/capacity **Maintenance Manhours** Platform Manufacturer **Equipment Repair** Cost **Data Capture Availability** Inventory Operator **Knowledge Based** Process & Overhead Burden **MRO Improvements** Cost **Lost Opportunity**

Want to know more?

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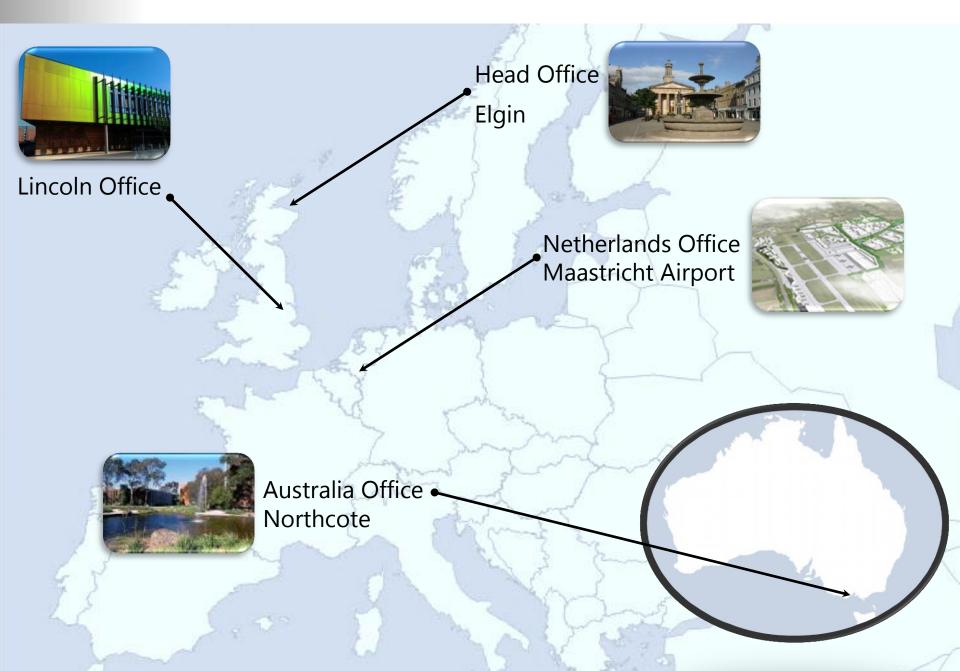
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Defeating Downtime

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