
Reducing Risk with Information

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By:

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ALCIM Overview

Information Management (IM) Basics

Reducing Risk with Information

Data Quality Governance for Project Management

Summary

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ALCIM

Reducing Risk with Information

ALCIM is proud Member of



FIATECH



Business Process & Asset Life Cycle Information Management

Requirement Analysis and Specification

Information Quality Management

Non Conformance Diagnosis and Reporting

Data Governance & Information Management

Concept Development and Solution Implementation

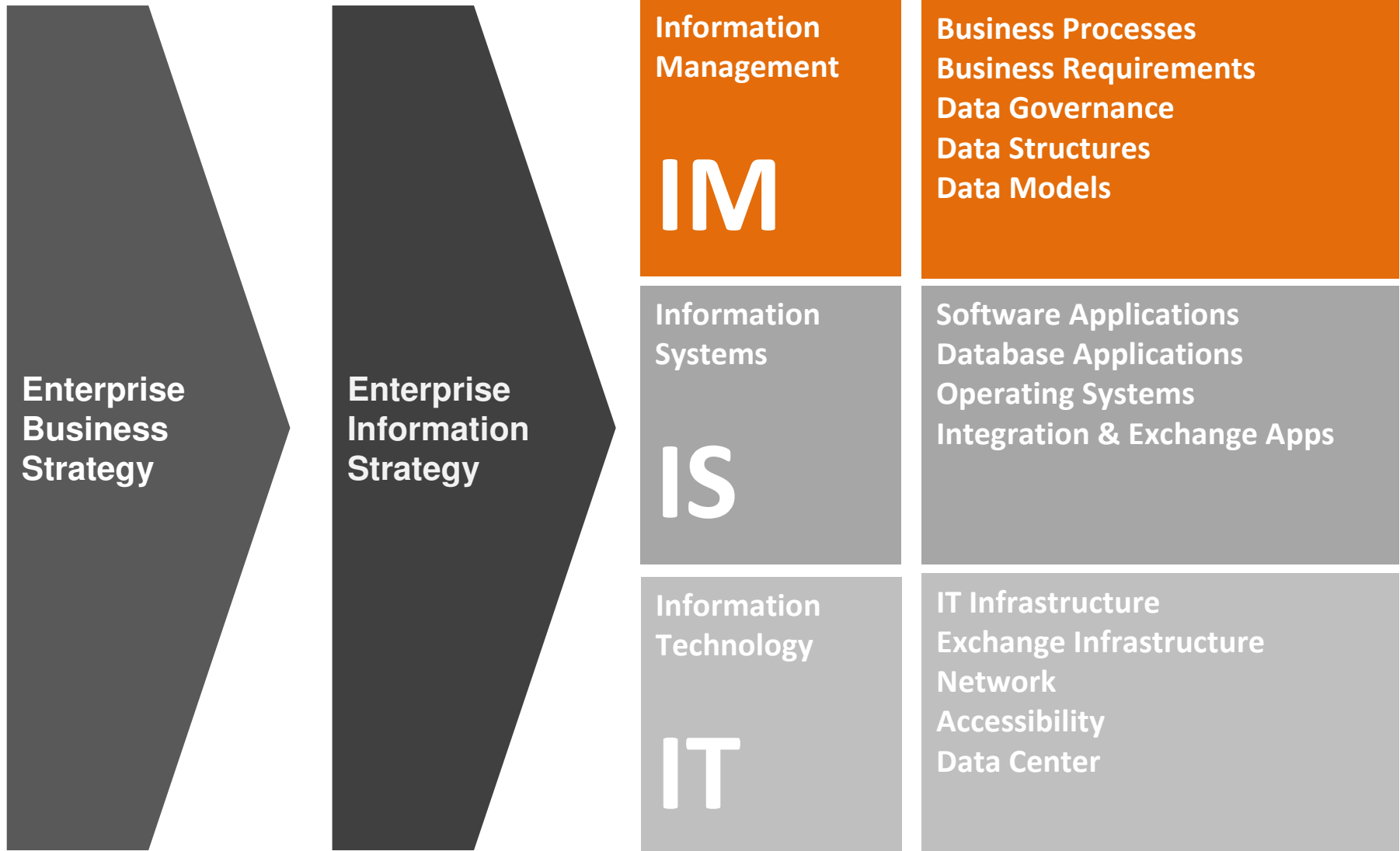
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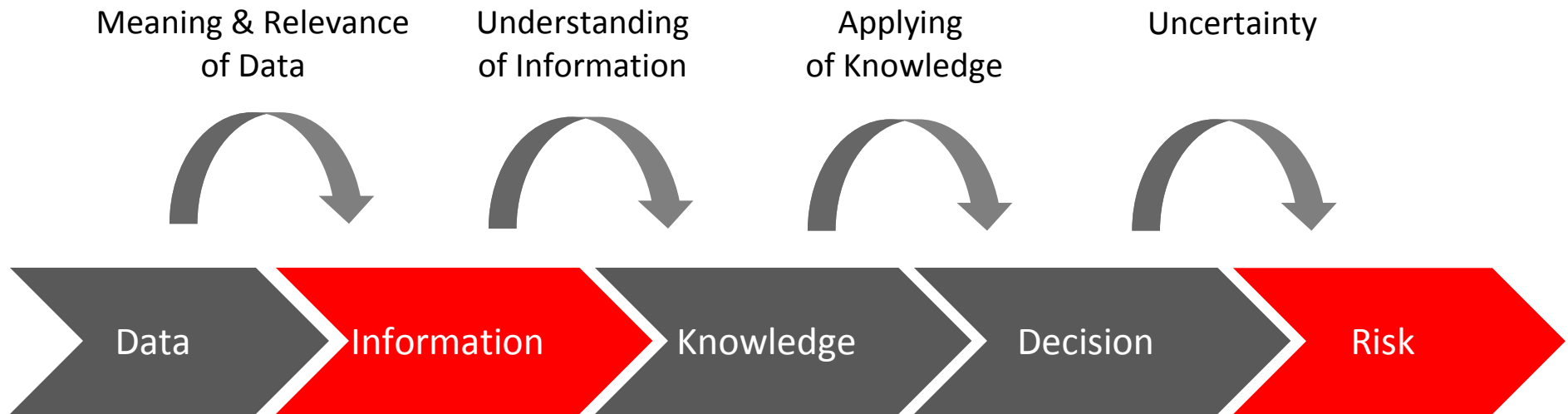


ITISIM Approach



IMISIT Approach





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Lifecycle Phase	Risk Management using Information What to look for?
Prior to concept selection (at or before project sanction)	<ul style="list-style-type: none"> • Policy for safety in design • Criteria for concept selection (e.g. life cycle aspects considered) • Roles, responsibilities and competence of relevant personnel • Adequacy of health and safety advice
Detailed design	<p>As above, and:</p> <ul style="list-style-type: none"> • Application of relevant and current good practice • Effective approval processes, including interaction with risk assessment • Application of formal and structured risk assessments and their effectiveness in reducing risks • Effective change control procedures • Development of appropriate information to enable safe operation, maintenance and repair
Construction	<p>As above, and:</p> <ul style="list-style-type: none"> • Effective material control • Effective quality control • Conformity to design
Commissioning	<p>As above, and:</p> <ul style="list-style-type: none"> • Effective quality control • Effective recording of the 'as-built' condition

URL: <http://www.hse.gov.uk/risk/theory/alarp3.htm#3>

Information Issues	Life Cycle Phases and Risk Types						
	Design	Procurement (Contract, Scope)	Fabrication Phase	Construction Phase	Installation Phase	O & M	De- Commissioning
Incomplete, wrong Information (Tags, Attributes)	RW, VO, VR NC-Contract	RW, VO	SM, RW, VO, VR DP	SM, RW, VO, VR DP	SM, RW, VO, VR DP	RW, VR	RW, VR
Incomplete, wrong Design Doc (2D, 3D)	RW, VO, VR NC-Contract	RW, VO				VR	VR
Incomplete, wrong 2D, 3D As-Built						NC-HSE VR, PL	NC-HSE VR, PL
Incomplete, Wrong Final Documentation	RW, VO, VR NC-Contract	RW, VO	RW, VO, VR NC-Contract	RW, VO, VR NC-Contract	RW, VO, VR NC-Contract	NC-HSE VR, PL	NC-HSE VR, PL

Additional Costs

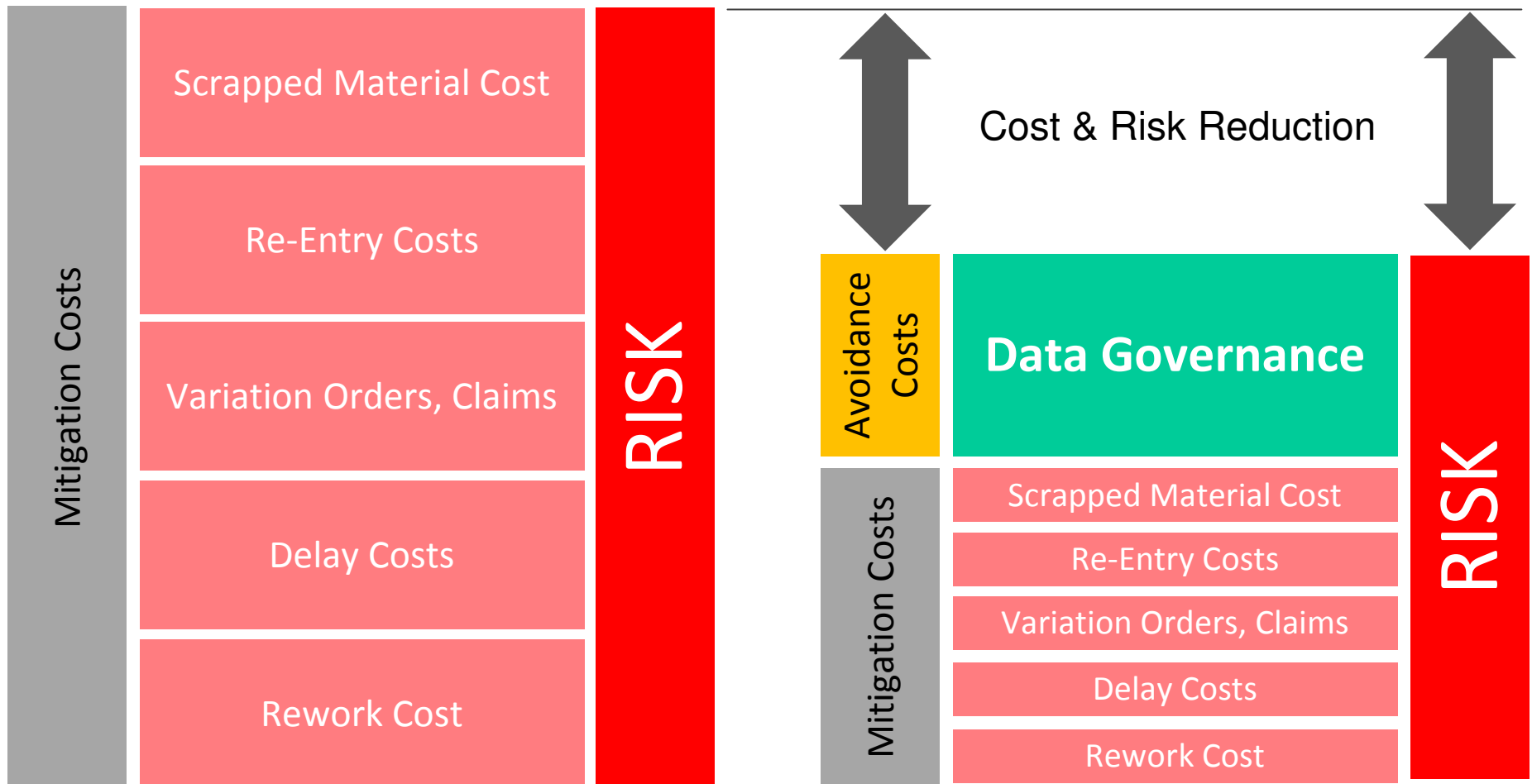
SM	Scrapped Material Cost
RW	Rework Cost
VO	Variation Orders
VR	Information Validation and Data Re-Entry Costs

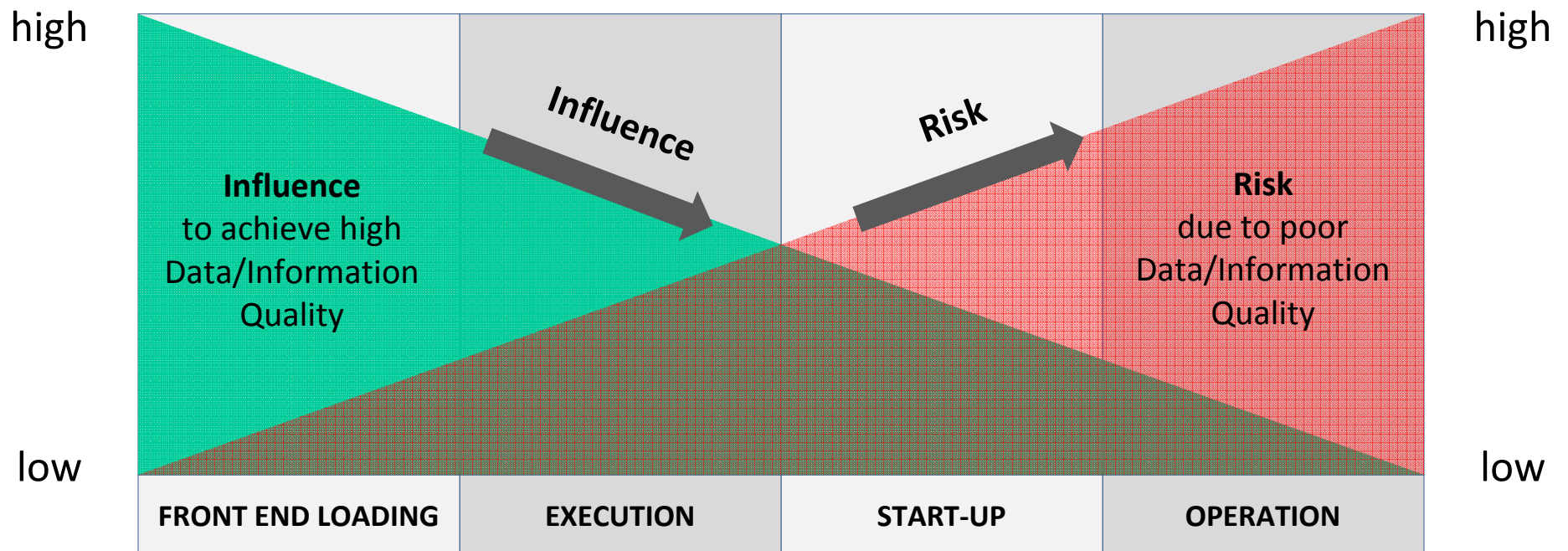
Delays & Productivity Loss

DP	Delay of Project Completion (Project)	NC-HSE
PL	Productivity Loss (Operation)	NC-Contract

Non-Compliance Risk

NC-HSE	Non-Compliance with Statutory Requirements (e.g. HSE)
NC-Contract	Non-Compliance with E/P/C/I/C Contract





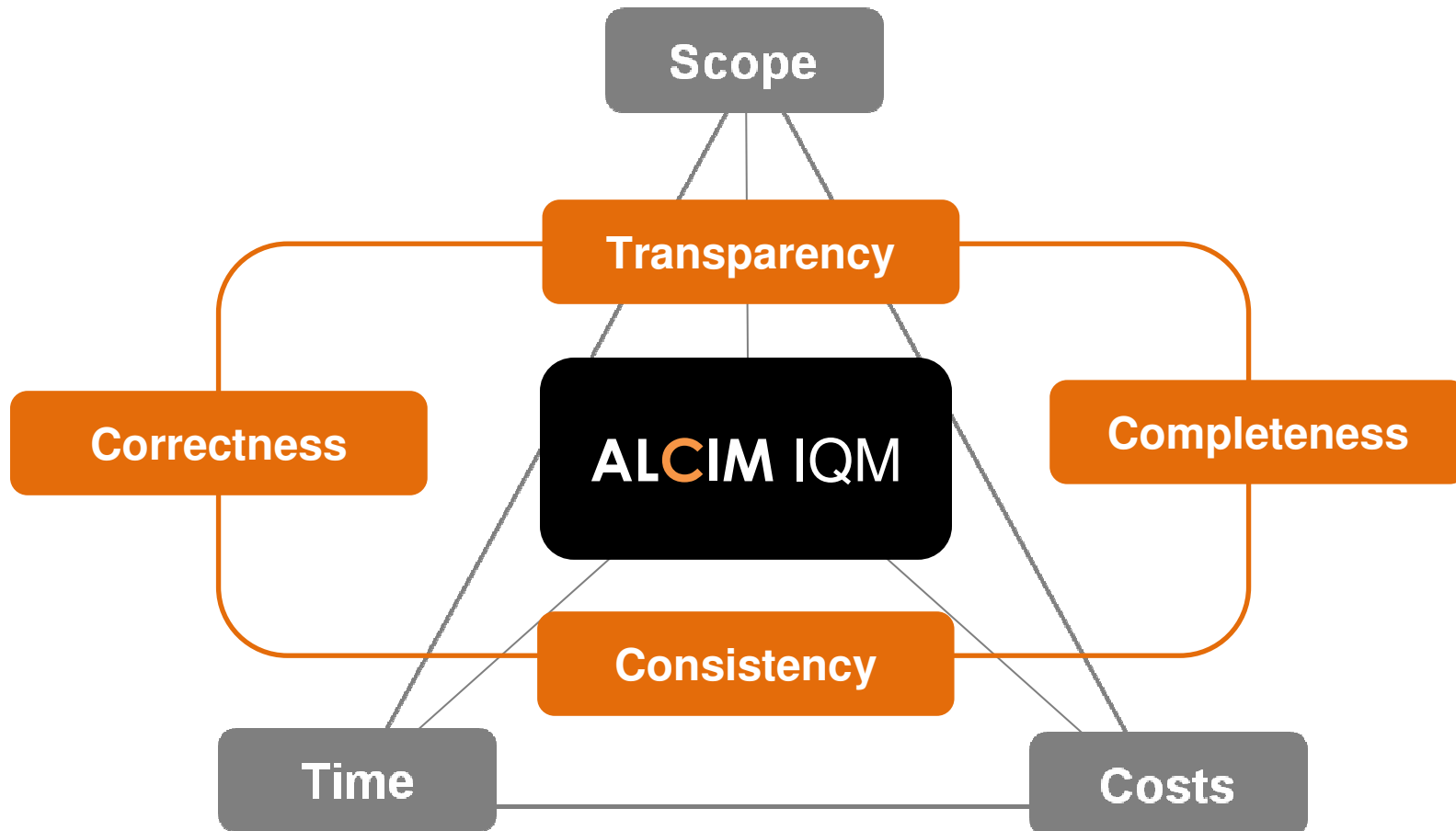
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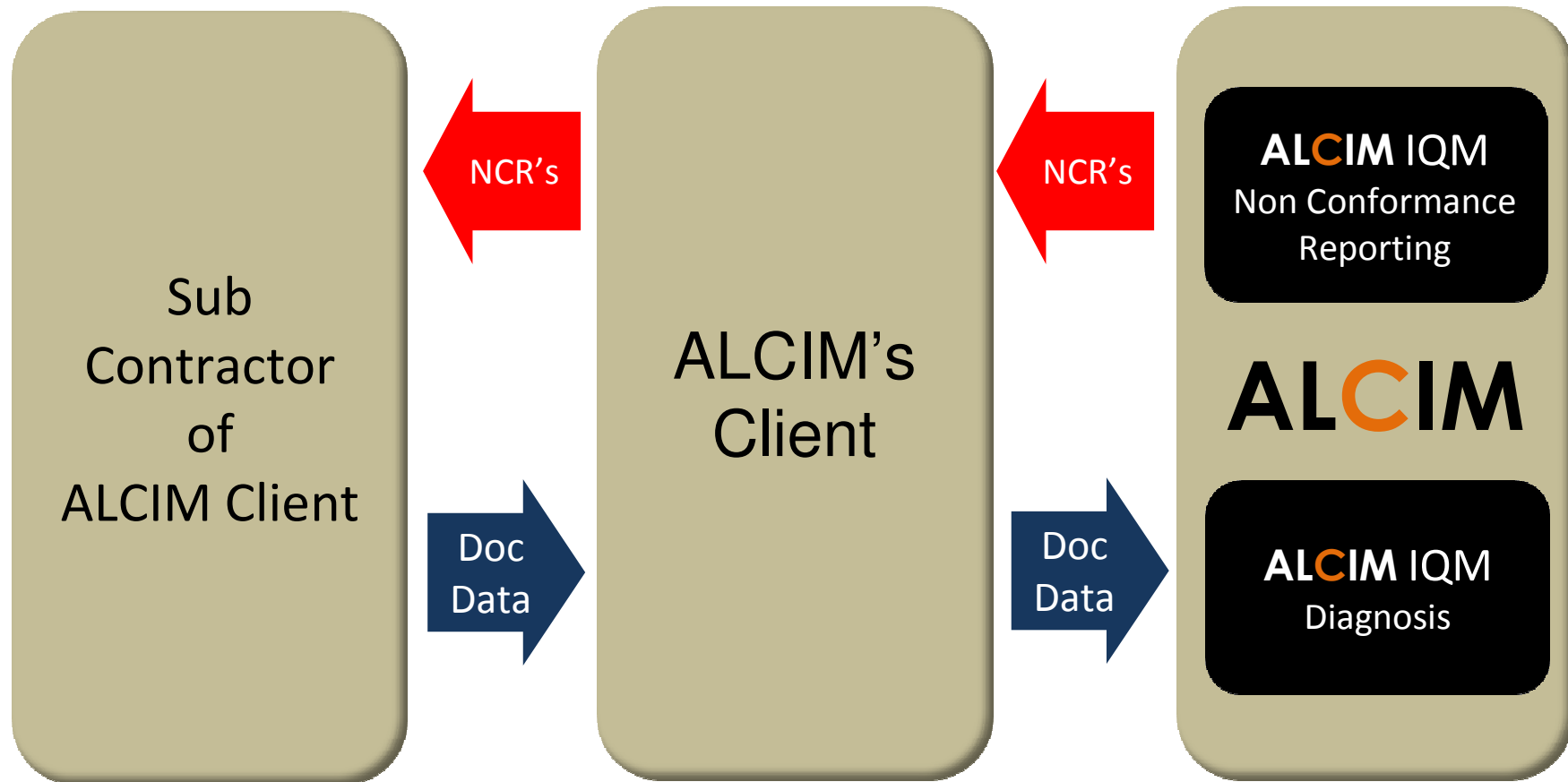
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Identifying & Reporting

Engineering Information Quality Non Conformance

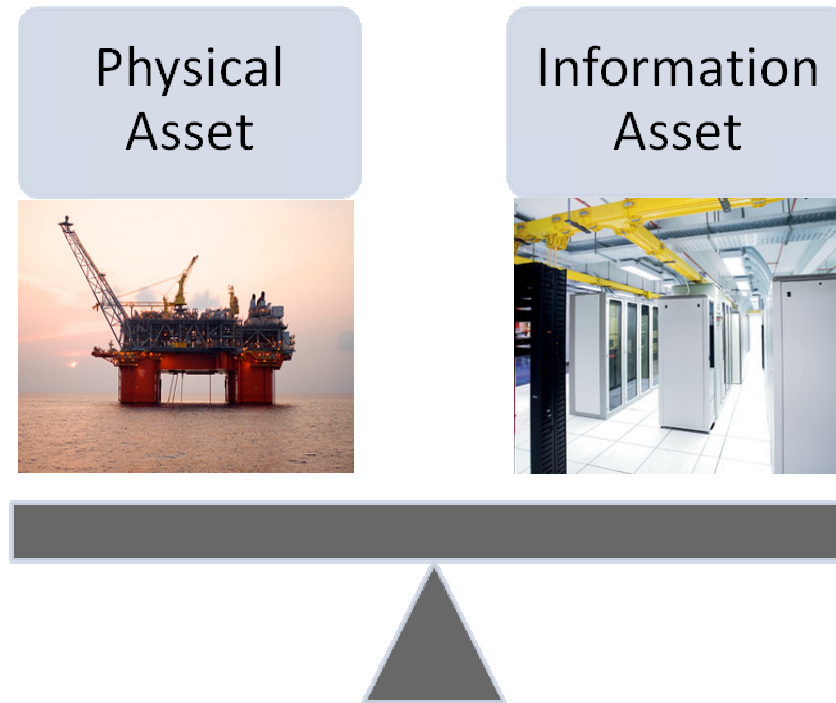
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**Information will become an Asset on the Balance Sheet
and
Data Governance a Statutory Requirement for Companies**

Thank you!

ALCIM

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with Information**

STANDARD	“UNCERTAINTY ...”	“... THAT MATTERS”
A Risk Management Standard (Institute of Risk Management et al, 2002)	“The combination of the probability of an event ...”	“... and its consequences.”
Australian/New Zealand Standard AS/NZS 4360:2004 (2004)	“The chance of something happening ...”	“... that will have an impact on objectives. ”
Risk Analysis & Management for Projects [RAMP] (Institution of Civil Engineers et al, 2005)	“A possible occurrence ...”	“... which could affect (positively or negatively) the achievement of the objectives for the investment.”
APM Body of Knowledge (Association for Project Management, 2006)	“An uncertain event or set of circumstances ...”	“... that should it or they occur would have an effect on achievement of one or more project objectives.”
Management of Risk [M_o_R]: Guidance for Practitioners (Office of Government Commerce, 2007)	“An uncertain event or set of events ...”	“... that should it occur will have an effect on the achievement of objectives. ”
A Guide to the Project Management Body of Knowledge [PMBok® Guide] (Project Management Institute, 2008)	“An uncertain event or condition ...”	“... that if it occurs has a positive or negative effect on a project’s objectives. ”
British Standard BS31100:2008 (2008)	“Effect of uncertainty ...”	“... on objectives. ”
ISO31000:2009 (2009)	“Effect of uncertainty ...”	“... on objectives. ”