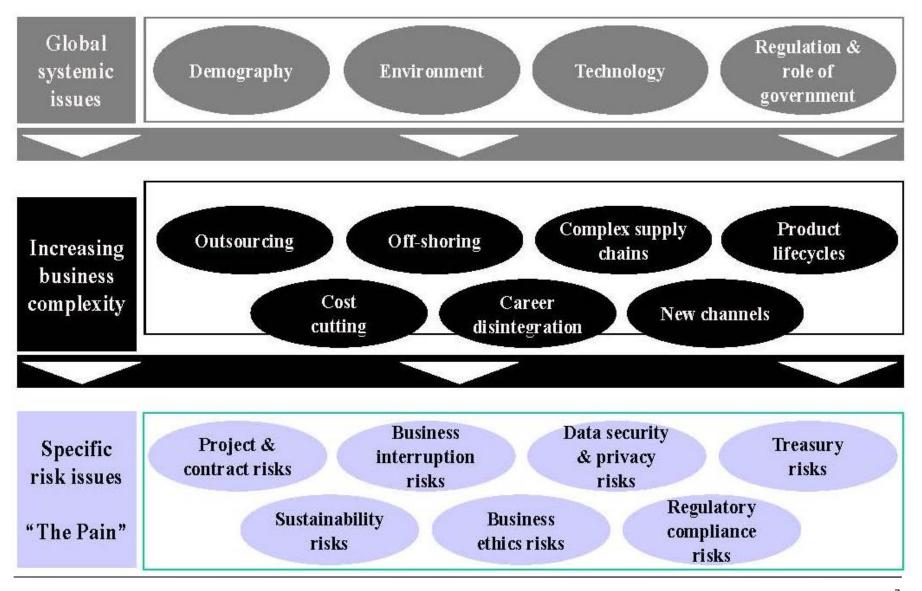
The inevitability of 'Integrated Audit'

Expectations: "More" services to Management at reduced cost

- From 'Core' assurances (financial, asset safeguard, regulatory compliances).
- To 'Value' enhancement (process improvements, corporate initiatives, due diligence....)
- Emerging Risk complex business model
 - ➤ (Product → Smart Product → Smart Connected Product
 → Product System → System of Systems)
- Integrated Audits focus simultaneously on financial, operational and IT control processes.

Risk in Business



The New Technology Stack

PRODUCT CLOUD



Smart Product Applications

Software applications running on remote servers

Identity & Security

Tools that manage user authenticatio n...product cloud layers

Rules / Analytics Engine

The Rules, business logic, big data analytics, algorithms

Application Platform

Business Applications using data access, visualization & run-time tools

Product Database

Big data base system–aggregation, normalization & management of real-time & historical product data





The protocols that enable communications between the product & the cloud.

PRODUCT

Product Software

An embedded operating system, onboard software appl, enhanced user interface & product control components

Product Hardware

An embedded sensors, processors & connectivity port/antenna.....mech & elect. components



sources

Tools that manage user authentication ...product cloud layers

Integratio n with Business system

Tools that integrates data.....ERP, CRM & PLM



Integrated Audit Operating Model

- Intentional audit design process that cohesively combines business process and IT audit into a single, co-ordinated effort.
- Looking at business process through an IT lens adds a deeper layer of inspection and learning to the audit, aiding continuous improvement.
- Diverse Team (Financial, operational, IT, SME) and standardised Audit Plan, Execution, Completion.

Competencies

- Technical Abilities
- Project Management Skills
- Differentiating Competencies :
 - > Builder : shared vision, people development.
 - > Persuader : simplify complex ideas, use experience.
 - > Strategist: understanding business & technology.
 - > Learner : asks help, new ideas.
 - > **Doer**: functional expertise, tasks breakdown.

Experiences

- Business Complexity Day 1: Multiple Trading Portfolios.
- Enhanced Risks Large Capital Allocations creating Energy,
 Resources, Logistics, Agri portfolios.
- BPT with high degree of IT usage.
- Integrated Structure: centre led, integrated model, standardisation across with risk based audit plans supported by data analytics and compliance tools.
- Extensive usage of Co-Sourcing and Guest Auditor Models (SMEs for audit of IT, Treasury, Business Domain, Projects & Compliances)