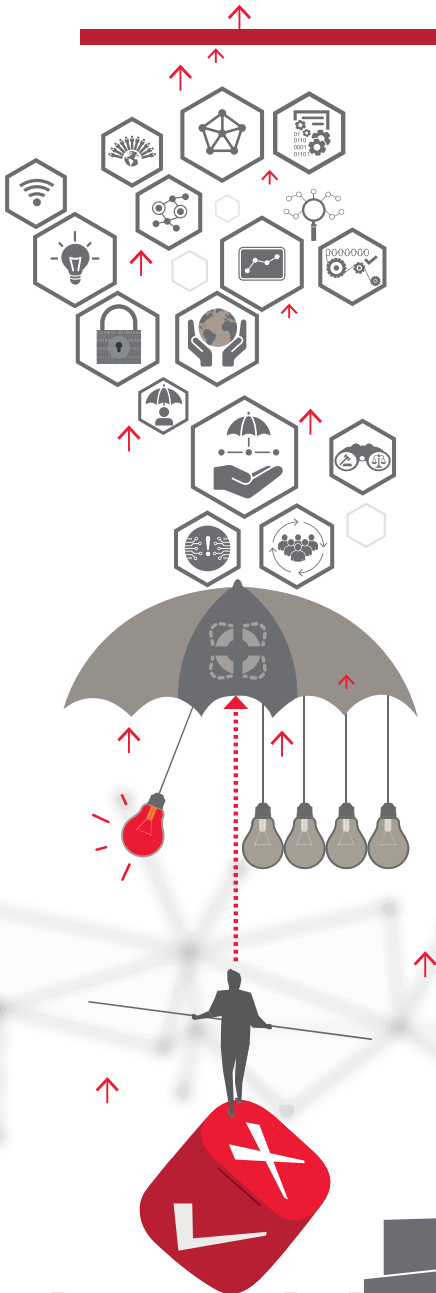


Risk Assurance Services

Embracing change, and thriving from it



www.pwc.lu/ras



Today's business environment is more complex than ever. More automated. More connected. More virtual.

With these advances comes opportunity, but also risk.

Our Risk Assurance Services team works with companies across all three lines of defence:

- *Operational Management and Governance*
- *Risk and Compliance*
- *Internal Audit*

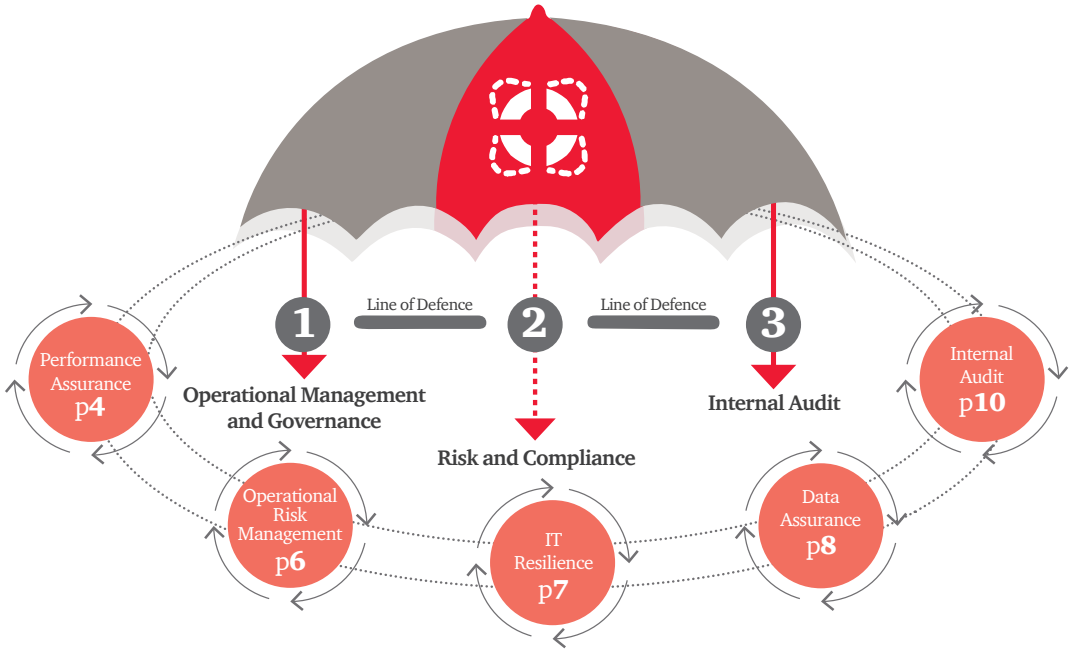
We help our clients to ensure that these risks are managed thoroughly through efficient controls, processes and technology, but also to capitalise on them by gaining a deeper insight into processes and enhancing efficiency.

Our Risk Assurance Services team helps management and those charged with governance make well-informed decisions. The independent assurance we bring provides an invaluable safeguard in today's complex operating environment.

Serene Shtayeh
Risk Assurance Services Leader



The services we offer

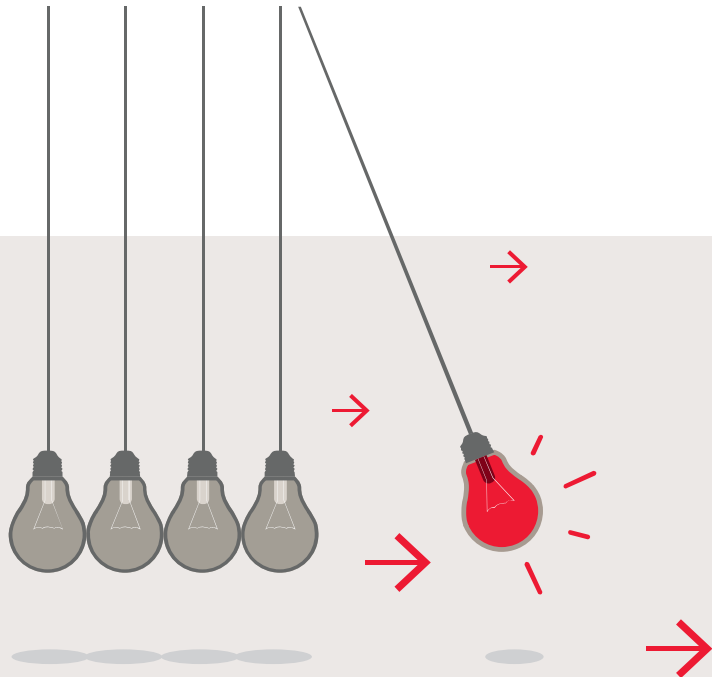


Performance Assurance

Our Performance Assurance services offer an independent, expert opinion on all areas of business, operational performance, technology, and data.

We help you find and close control gaps and also communicate transparently about the quality of your governance and internal controls.

Our assurance opinions, in line with international standards, help organisations respond to demands for increased transparency, trust and industry comparability.



We provide expert assurance across a full range of areas, including:



1.



Accuracy

Accuracy of information or a data set.

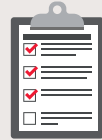
2.



Process & controls

Designing, implementing and operating the effectiveness of one or more processes or sets of controls that underpin your data.

3.



Compliance

Compliance with a law, regulation or contract, e.g. AML-CTF, GDPR.

Operational Risk Management

Being able to spot operational issues is critical not only for managing risk but also for optimising your business performance.

We help our clients address operational risk across the whole spectrum of processes and industries.

-
- Knowledgeable on the latest technologies for assessing operational risk within your business landscape, including ERM, EPM and GRC
 - Extensive experience in defining and deploying operational risk and control frameworks, risk cartography, risk appetite definition
 - The application of a 'risk and controls' lens to your processes and system design, strengthening your overall design and helping you increase the reliability and maturity of your existing control environment cost-effectively and sustainably
-



IT Resilience

The digital age is here. Embracing the opportunities on offer is the only way to stay competitive. IT systems form a fundamental part of your organisation, and you, your customers, shareholders and regulators, need to be able to trust these systems.

With trust in your data and security, with resilience built into your systems, and with the knowledge that your digital transformation will succeed, you'll have the confidence to embrace your digital future, and enjoy the exponential impact it has on your growth.

Our range of IT Resilience services encompasses:

- **Business-system confidence**



Providing assurance and assistance in ensuring that robust control solutions are in place to manage IT systems risks, including process improvement, control optimisation (manual and automated controls) and providing confidence that performance data is reported correctly.

- **IT Trust and transparency report**



Providing comfort to stakeholders through the use of independent IT control reports, such as SOC2 reports and attestation reports for cybersecurity or cloud computing.

- **Business continuity management and resilience**



Developing our clients business continuity management and resilience processes to be better prepared for a disaster event that would seriously disrupt its operations, reputation or adherence to legal requirements.

- **Cloud Computing Assurance**



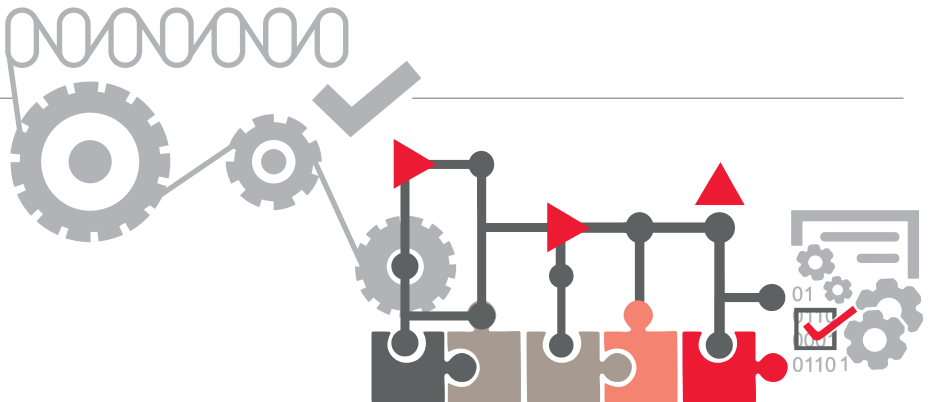
Providing a range of cloud services such as cloud governance, cloud risk assessment, cloud compliance assessment, cloud strategy and readiness, cloud awareness and training, cloud provider selection and cloud security assessment.



Data Assurance

The increasingly complex technology architecture within companies and organisations, coupled with the heightened regulatory environment, has created a strong demand for Data Assurance services. We assist firms and organisations through improved testing techniques, developing risk/control/compliance dashboards, and designing/implementing risk and compliance analysis techniques that help management, heads of department, compliance officers, control and audit functions to identify specific/unusual customers, cases, files or transactions on which they should focus their review.

Our Data Assurance team has in-depth industry and regulatory knowledge combined with extensive experience in data assurance and advanced data analytics.



Our range of *Data Assurance services* includes:

1

Intelligent Sampling & Profiling

Using (multiple - complex) data to identify specific/unusual files where the auditor will focus its testing

2

Intelligent Process and control validation

Using data to validate controls and business rules over 100 % of the population

3

Quality check of information

Provide assurance on data quality/integrity in business reports and in or between systems.

4

Data Extract Engineering

Assist customers in identifying meaningful data for control purposes and performing structured extracts.

5

Risk /Control Executive Dashboard

Visual representation of (real-time) indicators about risks, controls and compliances (KRI, Breachs,...)

6

Data Governance Framework Review

Assurance over your data framework to better manage, protect and exploit your business information

7

Business Profiling and Audit Intelligence

Using a set of process mining techniques to analyse "actual" processes in terms of compliance, controls, business risks (bottlenecks,...)

8

Scenario Modelling

Using (multiple - complex) internal and external data to predict risk evolution or control deficiencies.

“Maximising the value and effectiveness of your Internal Audit function.”

Internal Audit

At PwC, we are driving Internal Audit innovation, merging the skills of our people with a robust, cutting-edge Internal Audit approach and state-of-the-art technology. The result is the **PwC Internal Audit**. It is relevant, aligned and agile, delivering insight and quality in equal measure and to the highest standard, helping you build the confidence to move faster and act decisively.

Outsourcing: PwC as your internal auditor

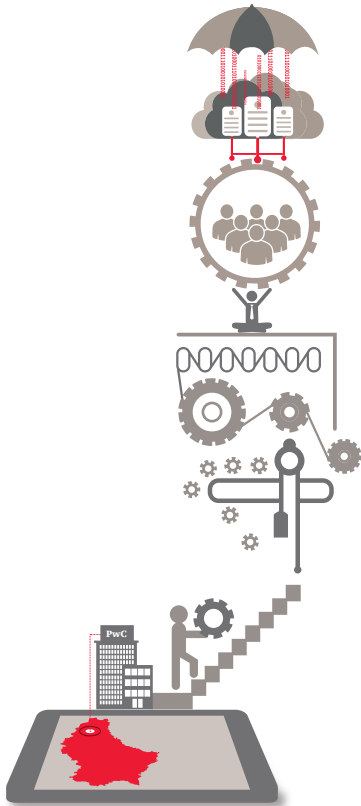
An outsourced professional internal audit team, aligned to your strategy, relevant to the issues you're facing and armed with innovative techniques and technology, is capable of providing the insights, comfort and confidence you need to deliver against your objectives

Co-sourcing: Working side-by-side with your internal audit function

If you are struggling to retain specialist resources or fill particular skill gaps or if you need to respond to digital or transformational disruption, co-sourcing with our professional team is the solution.

External Quality Assurance Review: Helping your internal audit function to still do better

Assessing compliance with professional standards (IIA) and benchmarking IA performance across key attributes to identify areas for improvement. This reduces cost, improves performance, increases relevance and develops metrics to drive ongoing improvement.



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