

Unlocking the power of open-source

Risk Reshaped



Why Credit functions are...

... migrating from legacy software to open source solutions

Credit Risk models and analytics in major UK banks and building societies have been built around legacy software (e.g. SAS Enterprise Guide). Legacy platforms were incredibly flexible at a time when analytical data marts and analytics were in their infancy. Recently, there has been a surge expectations, including the **need for additional data, more sophisticated calculations and transformations**, and the **ability to rapidly adjust** to increased customer demand. Further, **legacy skills are reducing in the talent marketplace**, with top talent **preferring open source** (e.g. Python) **and integrated open source solutions**. As well as this, the **pace of innovation (including Generative AI)** within the analytics space requires **high levels of adaptability** to include new techniques and connect to new ecosystems. Legacy softwares have proprietary language and calculation engines, and so do not cover these areas easily.

PwC's 'Risk Reshaped: How are credit functions evolving?' 2024 market survey



We have examined both Retail and non-Retail perspectives from UK Tier 1 and Tier 2 Banks and Building Societies on their perspectives into how credit risk functions are evolving due to rapid technological advancements supporting increased customer demand.

88%

of participants have indicated that they are considering or currently migrating away from legacy software to open source software solutions.

75%

of participants have indicated that migrating from legacy sources to open source leads to cost reduction, improved process efficiency, and faster decision making.

Value created from transition to open source across the credit risk implementation journey, from data processing into strategy and model development/execution, and through to reporting.

100%

No licensing fees!

By converting and optimising legacy scripts/programs to open source, this eliminates 100% for the need of licensing fees potentially saving £1m+.

£0

Upgrading model development

Free access to extensive libraries for statistical analysis, visualisation and machine learning to enhance and optimise the model build process.

50%

Driving cost efficiencies

Facilitating portfolio strategy and capital modelling analysis by reducing the number of FTE required for executing regular processes.

70%

Computational efficiency

Parallel computing can significantly reduce monitoring MI and ECL / RWA engine processing time by at least 70%.



Supporting regulatory compliance

Full codebase transparency, to support audit/compliance with regulations.



Enabling data management

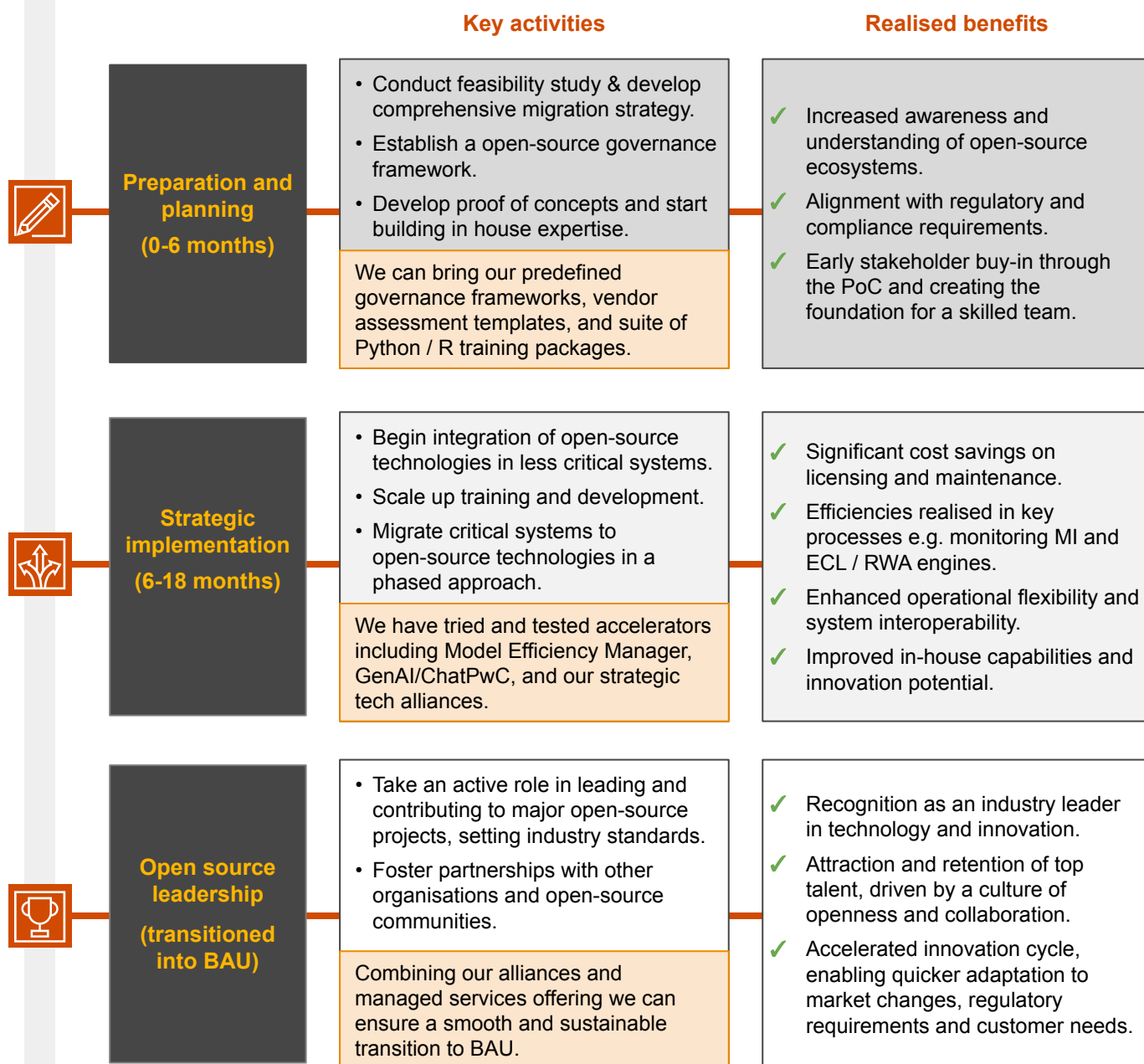
Easy to store, customise, and process large and diverse datasets.

Unlocking your potential...

... by transitioning from intention to widespread adoption

Migrating from legacy software to open-source technologies involves a series of activities and the realisation of benefits at various stages of the process. The transition is a **strategic move that can significantly improve the operational efficiency, innovation capacity, and competitive edge** of UK banks and building societies.

The below maturity chart outlines the key activities involved in this migration and the benefits realised by firms as they progress through each stage.



How PwC can help you...

... migrate from legacy software to open source solutions

We have supported firms with our **external strategic alliances**, our wide range of **innovative tools and accelerators**, and our experience and ability to **integrate seamlessly in to ongoing modernisation programmes**.

01 PwC's innovative toolkits and accelerators

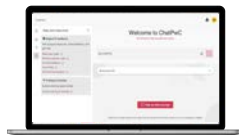
Coding & Compliance (CoCo) tool

CoCo will offer a cost-effective way to implement models, transform systems, replatform to cloud and complete regulatory attestation.



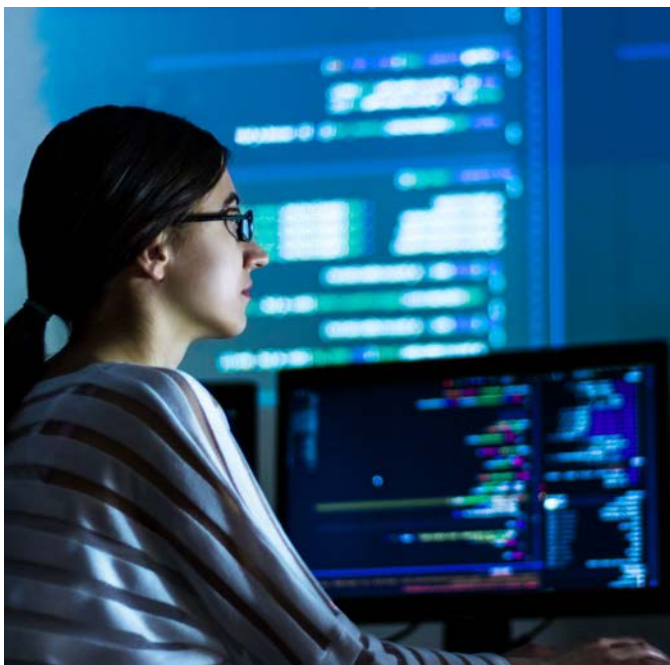
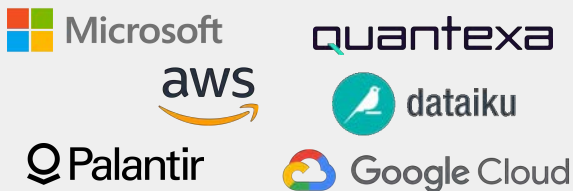
ChatPwC

A chat platform powered by GPT (Generative Pre-trained Transformer) technology.



02 Access to PwC's market leading alliances

By combining PwC's expertise and our alliance partners' technology, we can help you solve your business critical challenges.



03 We can help plug your credit risk migration roadmap in to your firmwide cloud transformation programme

Feasibility



Optimal migration strategy is designed and approved by stakeholders.

Open source code is drafted, generated and optimised



Convert

Testing



New code is robustly tested and validated, leveraging Gen AI for efficiency.

New code is integrated into internal system and final user acceptance testing (UAT) is performed.



Embed

Go live



Formal deployment, staff training and support on how to use the new open source process.

Firmwide cloud transformation programme

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Thank you

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