

# Thriving together – a data science ecosystem



## Strategic partnerships

Mango can deliver a comprehensive data science solution as part of your wider digital transformation. This might include infrastructure that helps to address storage, compliance or data accessibility requirements or consultancy engagements that transform workplace practices.

However, if the core data and analytics service needs further support or expansion, Mango and its business partners can implement scalable cloud-based services, managed services or enterprise open source solutions that drive auditability/reproducibility or collaboration for employees.

## Cloud infrastructure



Cloud platforms offer access to large, volatile and even siloed data sets using programming languages such as R and python and the scalable machine learning tools and frameworks commonly used by Data Scientists. It offers flexible, sequential access to all types of data for advanced analysis, yet provides a cost-effective, secure solution.

Google Cloud Platform (GCP) is the leading public cloud platform for data analytics services and includes the TensorFlow open source learning framework.

GCP runs on the same infrastructure used by consumer services such as YouTube, Chrome and Gmail, each of which has over 1bn hits per day. GCP's innovative features help you quickly realise the cost, agility, and performance benefits of the cloud.

- Reliable, cost effective cloud infrastructure - automatic sustained-use discounts, list price differences and rightsizing recommendations can save you up to 60% on average when compared with many other cloud providers
- Security that unleashes innovation
- Automated to streamline and scale operations

Using GCP in your cloud-based analytics strategy, you can design, deploy and scale applications faster and more simply, and selectively platform onto a growing ecosystem of modern services including big data analytics, AI/machine learning, developer tools, managed databases and more.

## Managed services



For customers deploying GCP as part of their data science solution, but who need additional support in cloud adoption/enablement and governance, Mango partners with Rackspace to develop and execute a unique, end-to-end value proposition for each of our customers.

As GCP's first managed service provider, Rackspace has over 150 in-house GCP engineers who will ensure the optimum performance of your GCP environment. Rackspace provides market-leading managed cloud offerings to key partners that enable their solutions to run more effectively, efficiently, and profitably.

- Support in building a cloud adoption strategy - creating business alignment behind a shared high-level vision for cloud adoption

- Successful strategy execution and increased maturity in cloud consumption
- Ongoing expert management and optimisation of your Mango-defined GCP environment
- Expert, safe, de-risked additional migration of out-of-scope applications and workloads to GCP

Rackspace managed solutions can reside on the public cloud, a private cloud, dedicated servers, or a combination of all three. Through Rackspace professional services, CRE, and automation, customers can rapidly realise the data and analytics benefits of the GCP platform.



Production deployment R Studio

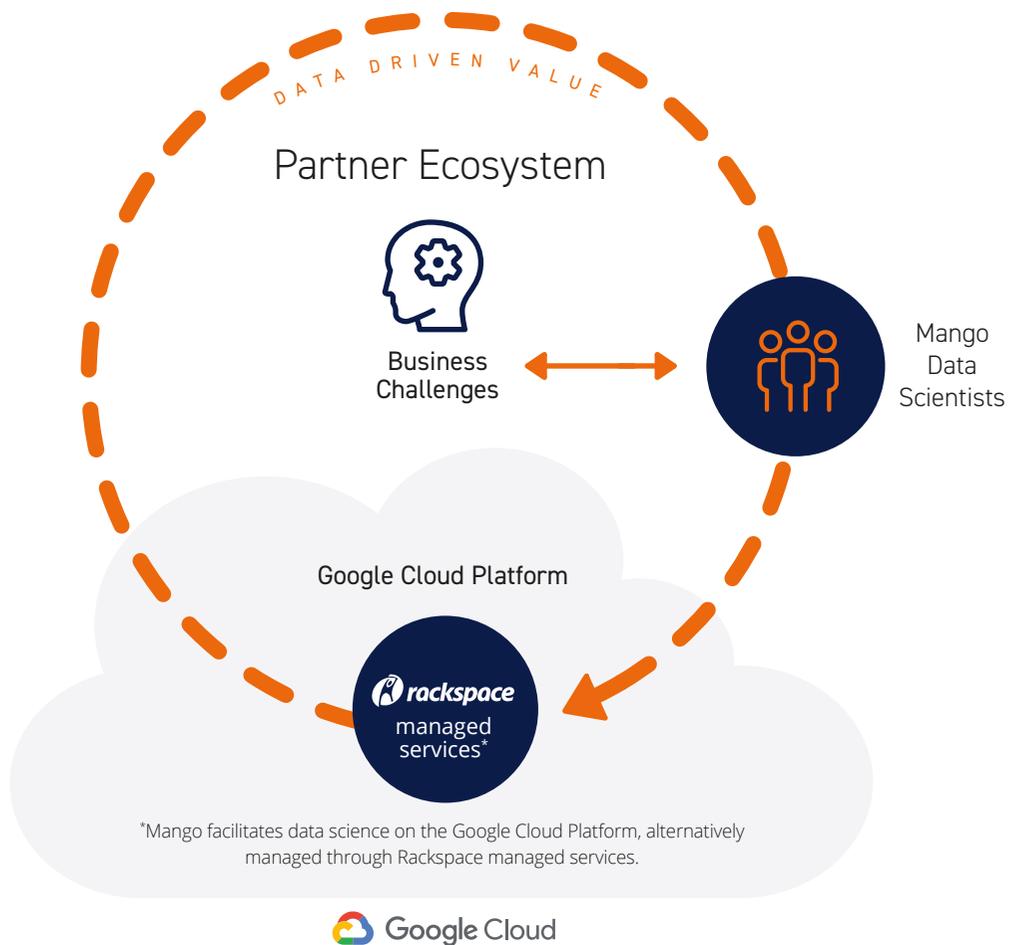
The R language is a vital tool for data science, providing a wealth of analytic capabilities. As an open source technology, the implementation of R in a production setting for commercial use requires careful thought. Our approach in this area is to analyse requirements and generate recommendations before implementing the R environment.

RStudio provides Statisticians and Data Scientists with an open-source infrastructure and professional tools to develop and deploy sophisticated data models at scale. Working together for some of the world's largest companies, RStudio and Mango are committed to supporting the growth and adoption of R for advanced analytics.

RStudio's Server Pro is the premier Integrated Development Environment (IDE) for R. RStudio Connect enables push button

deployment of R projects into production and fosters collaboration between the business and analytic teams to deliver the productivity, security, centralised management, metrics, and commercial support essential for scalable data science teams. As part of RStudio's partnership network, Mango has a wealth and depth of expertise coupled with the practical experience to successfully scale R in production. We are thereby able to streamline the development environment and ensure effective adoption by data science teams.

As an RStudio Full Service Certified partner, we support the implementation of RStudio tools, best practices for package management and the creation of an R operating model. We can also provide support services for production R environments and help customers succeed with R and RStudio.



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