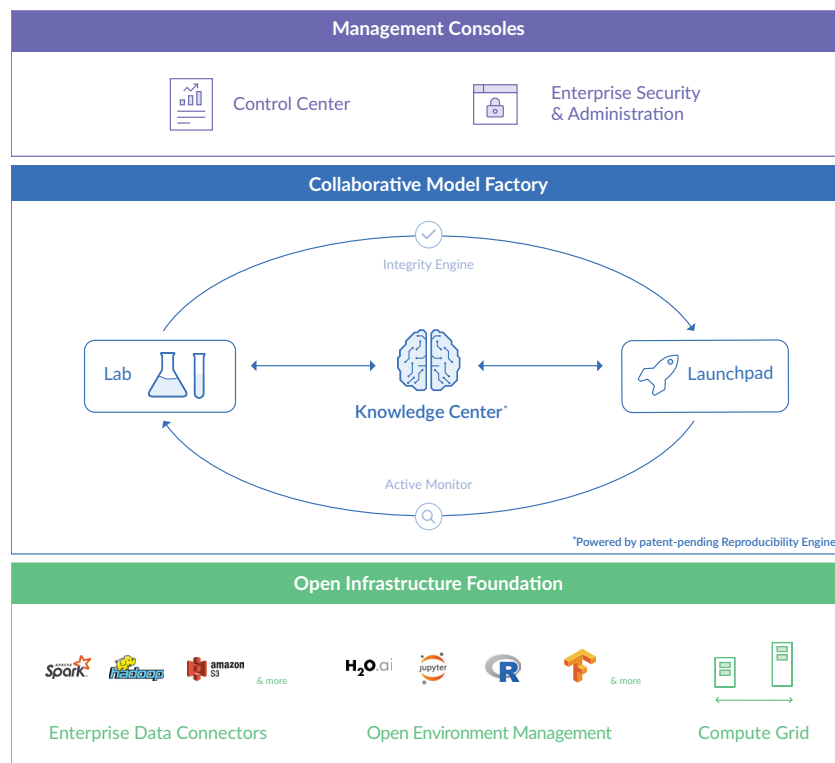DOMINO

Develop and Deliver High-Impact Models

The Domino data science platform empowers data science leaders to effectively enable and scale their organizations to run on models. Domino Lab gives every data scientist the flexibility to work as they prefer, using both interactive and batch experimentation, and leveraging all popular IDEs and notebooks (Jupyter, RStudio, SAS, H2O, Zeppelin, etc.). Domino Launchpad enables data science teams to easily collaborate with IT and business stakeholders to deliver models to the business, in addition to accelerating

iteration of models to increase their impact. Infrastructure Foundation orchestrates all the relevant hardware and software across the data science lifecycle, while Domino Knowledge Center, powered by the Reproducibility Engine, automatically captures and indexes the entire team's work to ensure reproducibility. Leaders can track activity and resource usage across their organization in a single view with Domino Control Center.

Domino addresses the three biggest problems data science leaders face

- **Research friction due to inadequate technology** Data science teams waste time juggling infrastructure, waiting for the right tools, and face challenges hiring when the team is forced to use outdated, underpowered tools and hardware.

- **ModelOps bottlenecks** Technology and process bottlenecks create delays in delivering and iterating on production models, creating team malaise and internal discord between data science teams and stakeholders.

- **Inability to scale teams** Data science organizations struggle with collaboration and knowledge management, leading to duplicative efforts, key person risk, and lengthy onboarding times which worsen as the team grows.

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# Domino Features and Benefits for Data Science Leaders

Accelerate research with scalable compute and open access to any tool
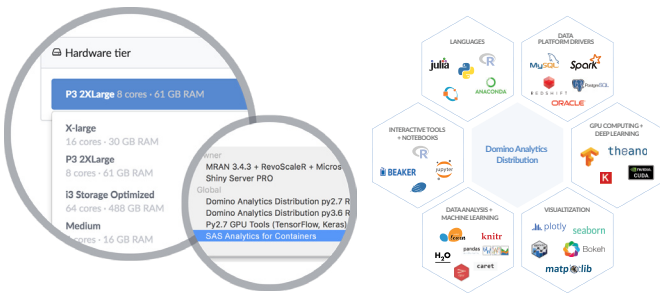
Compute infrastructure automation Provision compute resources with one-click on any hardware infrastructure. Vertically and horizontally scale workloads with Compute Grid, including support for GPUs.

Open tooling platform Domino comes pre-configured with popular languages, tools, and packages such as R, Python, SAS, Jupyter, RStudio, Tensorflow, and H2O. Your team can run code in a native development environment such as RStudio, SAS Studio, or JupyterLab. Create template Docker environments with any packages or drivers to minimize onboarding time for new team members, while ensuring power users have flexibility to customize their stack without impacting others' workloads.

## Launchpad reduces ModelOps bottlenecks and accelerates iteration velocity
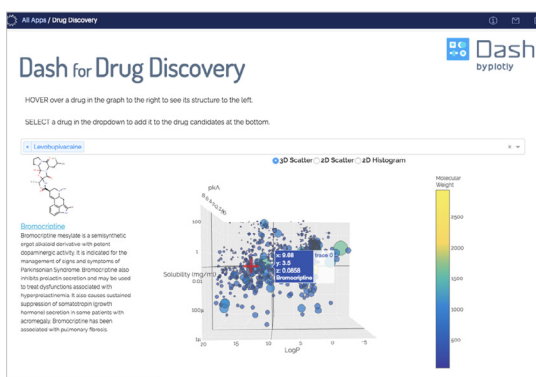
Multiple delivery modes Data scientists can run scheduled reports, use self-service web forms (Launchers), develop interactive apps built with Shiny or Flask, or call batch and real-time APIs, ensuring models fit seamlessly into stakeholders' workflows.

Understand engagement and impact Teams can see how their model products and APIs are being consumed to understand the ROI of data science investment.

Enterprise-grade delivery Delivered models are provisioned in Docker containers, automatically versioned, secured via separate permissioning, and highly available.

Scale team seamlessly with collaboration and Reproducibility Engine
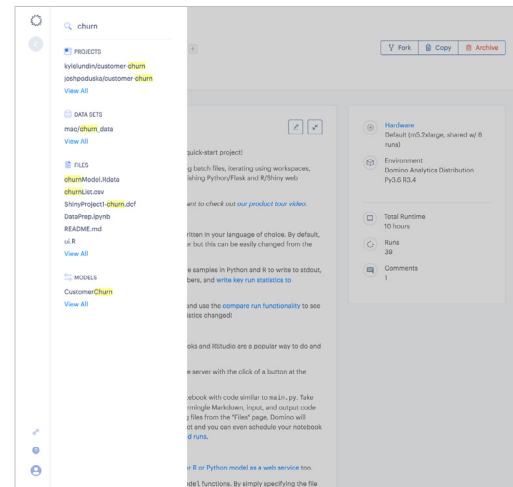
Single view of all team activity Projects Overview in Lab lets you check progress on work, see the latest results, get a sense of the most active projects, and leave comments or feedback—without interrupting your team or transacting over email. Control Center ensures leaders have detailed visibility into resource usage across the platform, including software and hardware.

Model lineage capture and artifact search Domino's Reproducibility Engine automatically captures and organizes the dependencies and metadata in the model development process (data, code, environment, parameters, etc.), ensuring future collaborators can discover, understand, and reproduce how a model was built, even if someone has left the team.

Import/Export Projects Domino Lab supports the import of modular components from one project, such as datasets or helpful packaged code utilities (e.g., backtesting tools or standard sensitivity analyses), into other projects to save time and disseminate best practices. Entire template projects can also be shared, including folder structures, sample scripts, and standard documentation. This ensures time is spent re-using the team's collective best output, rather than re-inventing or enforcing "how we work."

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