



# 6x Faster Application Development to Accelerate Digital Innovation

## Business Problem

The accelerating pace of change driven by cloud, mobile and big data requires application delivery pipelines to be faster and more agile, supporting continuous innovation. However, IT teams that rely on traditional development methods alone find they're unable to keep pace with demand, resulting in growing backlogs and missed opportunities.

To meet surging business demands for modern applications that support digital innovation and transformation initiatives, enterprises are rapidly adopting bimodal IT strategies. For developers and IT teams, this necessitates augmenting existing toolsets with the right combination of people, process and platform to innovate at the pace of business, delivering applications quickly and iterating constantly in response to changing business and market needs.

## HP Solution

Mendix for the HP Helion platform brings a new level of speed and agility to the development and delivery of cloud-native applications. The platform's visual model-driven development approach enables a wider population of users—from pro developers to less-technical rapid developers—to build web and mobile applications, 6-10<sup>1</sup> times faster than using traditional programming methods. With just one click, these applications can be deployed to the HP Helion Development Platform for secure, scalable and highly available operations.

Mendix for the HP Helion platform is a powerful enabler of the New Style of IT. By removing technical barriers and directly enabling business users, the platform helps enterprises accelerate digital innovation and enables high-velocity delivery of applications built for today's digital economy.

*“Enterprises are looking for new ways to build applications in order to gain fast and meaningful business value. The addition of Mendix can help HP Helion customers create business applications rapidly.”*



**Bill Hilf**

Senior Vice President,  
Product and Service Management  
HP Cloud

1. Quantitative Software Management (QSM), “Mendix Benchmark Report,” September 2014 Mendix.com/QSM



## Architectural Overview

Mendix for the HP Helion platform is a complete cloud platform to design, build, deploy and manage enterprise applications. Building upon open source standards, including Cloud Foundry® and OpenStack®, the platform helps enterprises ignite software-driven innovation through greater speed, agility and portability.



### Component Descriptions

#### Agile Project Management

- Capture, refine and prioritize user stories/requirements
- Estimate and plan sprints and future releases; monitor progress using scrum boards and burn-down charts
- Communicate and collaborate with business users using social collaboration tools
- Continually iterate apps through direct user feedback loops

#### Visual Application Development

- Visually model application elements, including data model; responsive UIs; and application/business logic
- Model mappings between Mendix and external systems / files, as well as application security settings
- Consume & expose SOAP and REST-based web services
- Extend application models with Java & JavaScript code through standard platform APIs and Eclipse integration
- Manage complex environments with automatic branching & merging and component-based development
- Jumpstart projects with a marketplace of reusable components, widgets and themes

#### 1-Click Deployment

- Package applications for deployment using the Mendix Cloud Foundry buildpack
- Deploy with one click to HP Helion Development Platform
- Stage applications to test, acceptance and production environments
- Run applications on any device (desktop, tablet, smartphone)

#### Central Application Management

- Administer all applications from a central dashboard
- Auto-scale apps to meet peak workload demands
- Enable enterprise-class security and governance
- Ensure application portability through support for open source standards, including Cloud Foundry and OpenStack

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## Agile Project Management

Mendix for the HP Helion platform has adopted SCRUM as an agile development methodology and offers full support of managing application development projects with agile project management capabilities.

Business requirements are defined in the form of user stories, which break down the scope of the application into small, well-defined items. User stories are tracked throughout the whole application delivery cycle. They can be divided into individual sprints, planned and managed in one environment.

In addition, user feedback can be given straight from the application user interface, and added to the product backlog for inclusion in future sprints.

## Visual Application Development

Mendix for the HP Helion platform includes a multi-user modeling environment where developers can work closely with end users to visually model the various application elements. For example, the data model, user interfaces and application and process logic can be built using dedicated graphical designers.

Mendix for the HP Helion platform connects and integrates the various designers so that design artifacts can be leveraged in the various models. For example, simply dragging the data model into the UI modeler can generate a fully functional UI model.

In addition, Mendix for the HP Helion platform interprets the models in runtime, which means the model is actually the application. This model interpretation approach has significant advantages, including faster change cycles, more controlled code extensions, deployment flexibility, and portability.

## One-Click Deployment

Mendix for the HP Helion platform has a cloud-native architecture optimized for deployment on cloud infrastructure. As cloud deployments are fully standardized and automated, the platform eliminates all of the traditional hassle of infrastructure and deployment management.

One-click deployment from Mendix for the HP Helion platform allows for seamless provisioning and management of applications on the HP Helion Development Platform, including staging to test, acceptance and production environments. HP Helion Development Platform addresses the problem of cloud vendor lock-in by providing an open, interoperable platform based on open source standards.

## Central Management

Administrators have a comprehensive, real-time view of application performance metrics through central dashboards. This includes details on CPU and memory usage, app environment and database usage, database requests and user logins, as well as preconfigured alerts. In addition, organizations can leverage the HP Helion Development Platform to provide scalable performance to meet peak workload demands.

HP Helion Development Platform integrates with HP Helion OpenStack, a hardened distribution of OpenStack software tested at scale, and consists of a multitenant architecture and Docker containers enabling application scaling. It also provides built-in, highly available services for applications demanding increased performance.

## Benefits of Mendix for the HP Helion Platform



### Faster Time to Market

Outpace the competition by delivering multi-channel/multi-device applications 6-10 times faster than with traditional approaches



### Accelerate Digital Innovation

Achieve your digital innovation goals faster by bringing business and IT together in one collaborative environment



### Greater Agility

Future proof your applications with the flexibility to easily adapt to constantly changing business and market requirements



### Enterprise Security & Scalability

Enable business innovation while maintaining the robust enterprise-class security and scalability required in today's digital economy

## Partner with HP to Accelerate Digital Innovation

Mendix for the HP Helion platform empowers enterprises to deliver multi-channel applications faster and with better results, so they can accelerate their digital transformation and capitalize on new business opportunities. The platform brings IT and business together in one collaborative environment that allows small, cross-functional teams to design, build, deploy and manage applications at unprecedented speed.

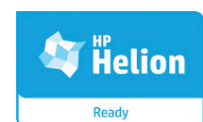
By providing greater abstraction and automation across the entire application lifecycle, Mendix for the HP Helion platform allows developers to focus on building cloud-native applications that deliver immediate business value rather than worrying about underlying technologies. Working with HP means partnering with a proven and trusted technology company that understands and is committed to the needs of the developer and the enterprise.

## Discover Mendix for the HP Helion Platform

Mendix for the HP Helion platform means faster time to market, greater agility, and continuous innovation—benefits you can't afford to ignore in today's digital economy. Mendix works closely with HP so you can be confident in the future of designing, building, deploying, and managing modern, multi-channel applications in the cloud.

To find out more about how to accelerate digital innovation with Mendix for the HP Helion platform, contact your HP representative or HP preferred partner.

For more information on Mendix for the HP Helion platform, visit: [bit.ly/HPHelion\\_Mendix](http://bit.ly/HPHelion_Mendix)



Mendix helps enterprises achieve their digital goals. Our digital innovation platform empowers customers to bring new products to market, digitize customer engagement, and automate unique business processes. Facilitating an iterative, collaborative approach, the platform brings business and IT together to build and deploy innovative applications at the speed of ideas.

A recognized market leader, Mendix is helping hundreds of customers across dozens of industries achieve exceptional results. For more information, visit [www.mendix.com](http://www.mendix.com) and follow us on Twitter [@Mendix](https://twitter.com/Mendix).