

Increase Productivity With Collaborative Application Lifecycle Management

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Businesses are challenged to deliver innovation

80%

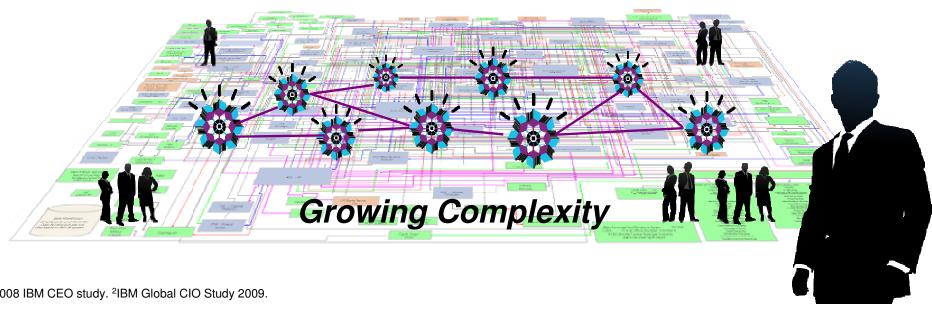
CEOs anticipate turbulent change and bold moves.1

64%

of CIOs work with senior business executives to drive innovation.2



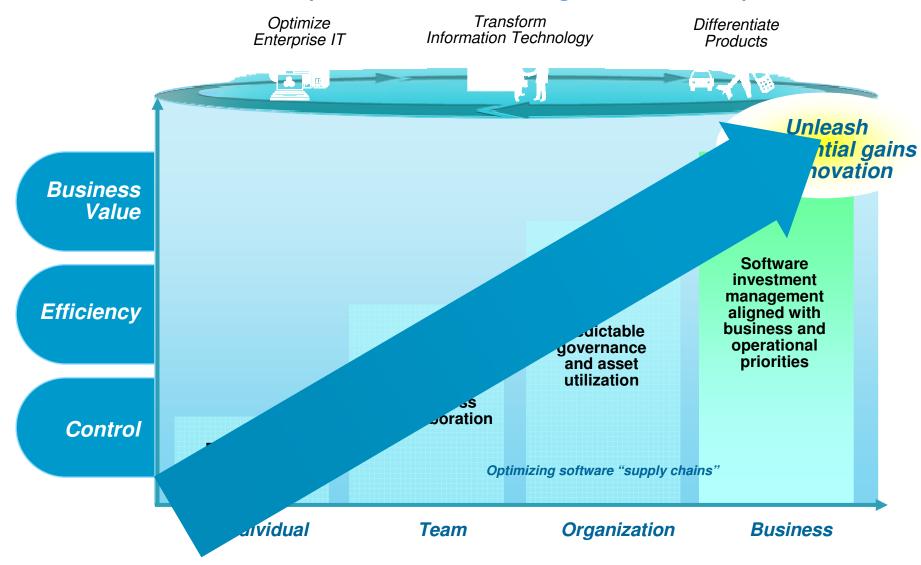
increase in the gap between leaders' need and their ability to deliver it.1



¹2008 IBM CEO study. ²IBM Global CIO Study 2009.



Treat software development as a strategic business process





Challenges to achieving greater value from your IT investments

Applications



People



"Our skills gap keeps growing. How do we stay current with all the language and technology changes?"





Teams



"Our teams on different platforms are struggling to communicate.
How do we collaborate in the context of our work?"

Infrastructure



"We are looking for a cost effective way to improve our infrastructure efficiency and free up capacity to handle more volume"



IBM Rational Enterprise modernization solutions can help

Optimize your applications, people, team and infrastructure investments



- Increase flexibility by revitalizing existing application portfolios
- Boost productivity and accelerate innovation with modern skills
- Maximize business agility by bridging organizational silos
- Increase system utilization by optimizing application infrastructure

Rational Software Delivery Platform powered by



Increase flexibility by revitalizing existing application portfolios



Business intelligence for applications

Enterprise architecture and portfolio management

SOA tools for all platforms and languages

Operational reuse

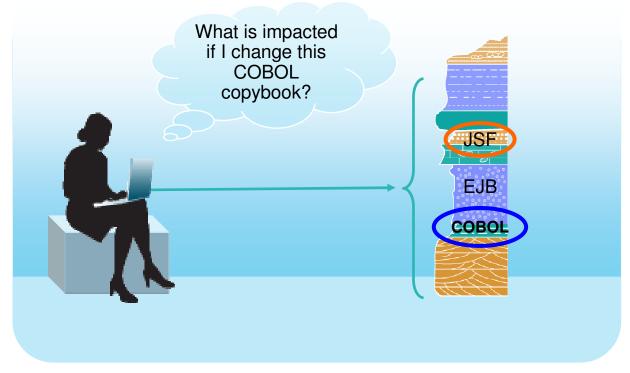
User interface modernization

Rational Software Delivery Platform powered by



Understand the impact and cost of change to their IT systems





But...

They have no business intelligence inventory of their application assets, relying instead on manual and error-prone processes and incomplete knowledge. They must compensate with more extensive planning and extra testing.

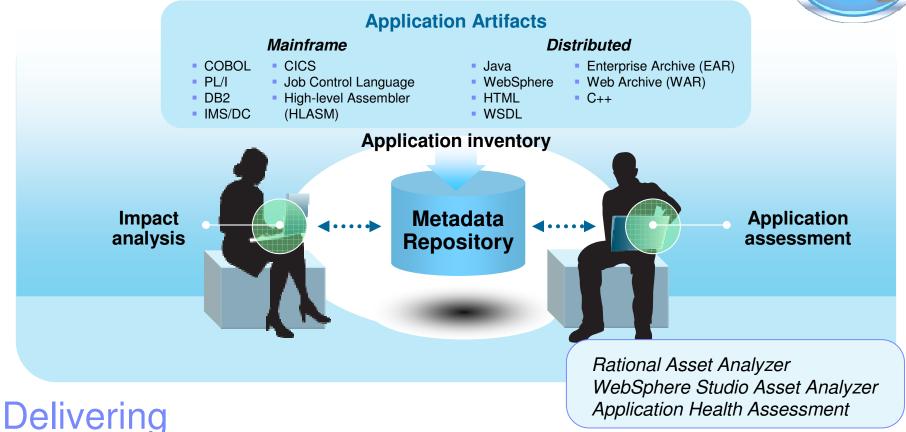




Solution: Business intelligence for applications

Restore lost application knowledge via technical analysis



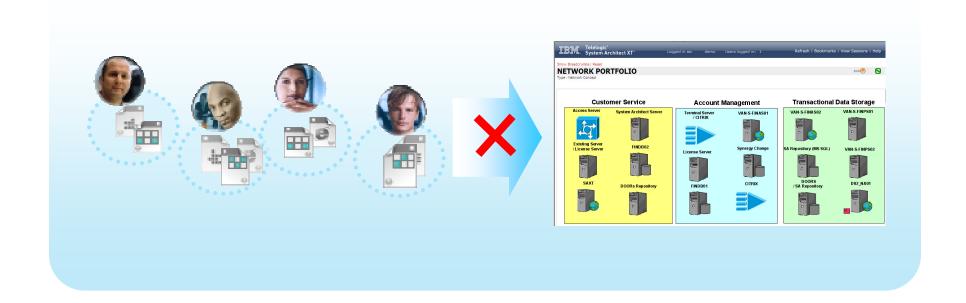


Reduced risk by quickly determining the full impact of proposed changes and lowered costs via dead code elimination, optimal planning, focused testing and faster development



Better align IT activities and investments with their business goals and objectives





But...

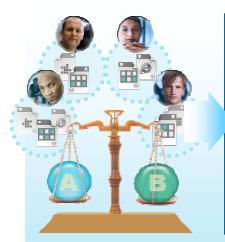
They do not have a tool or process for capturing business goals or prioritizing projects, nor for linking them to the associated IT efforts. They rely instead upon less rigorous verbal discussions and difficult-to-maintain documents.

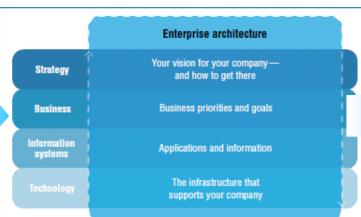


Solution: Enterprise architecture and portfolio management

Make enterprise IT planning actionable and traceable









Rational System Architect
Rational Focal Point
Rational Project Conductor

Delivering

Understanding of current application infrastructure, prioritization of cost-cutting and consolidation candidates, impact analysis of portfolio decisions, and central oversight of architecture, risks, demands, and investment management

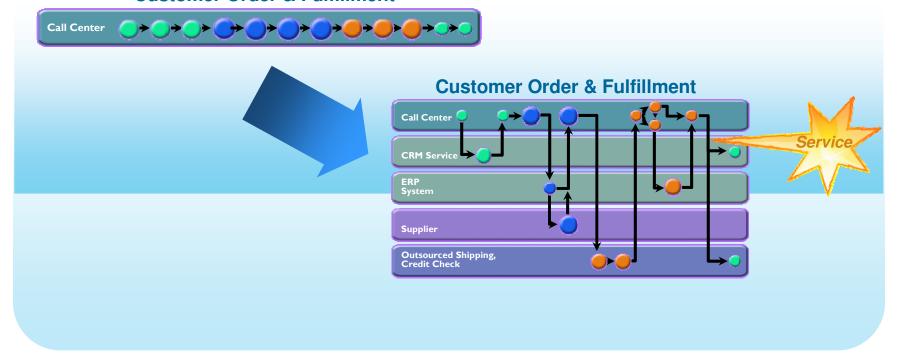




Have a nimble IT organization that leverages SOA to respond more quickly to the needs of the business



Customer Order & Fulfillment



But...

They have application architectures that were built incrementally over the last 20-30 years and are no longer flexible or agile.



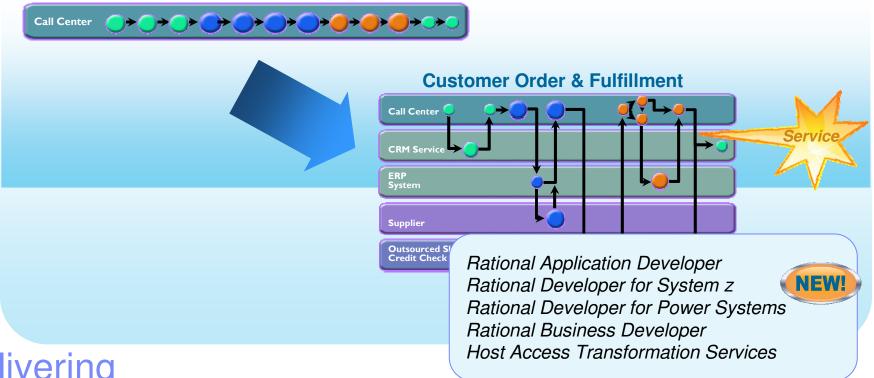


Solution: SOA tools for all platforms and languages

Use powerful tools to quickly begin SOA evolution by harvesting and repurposing proven assets



Customer Order & Fulfillment



Delivering

5x lower costs and reduced risk through reuse of existing assets, higher productivity, and platform portability of new services



Reuse existing assets to reduce duplication and speed time to market





But...

They do not have the infrastructure to establish a reuse culture.

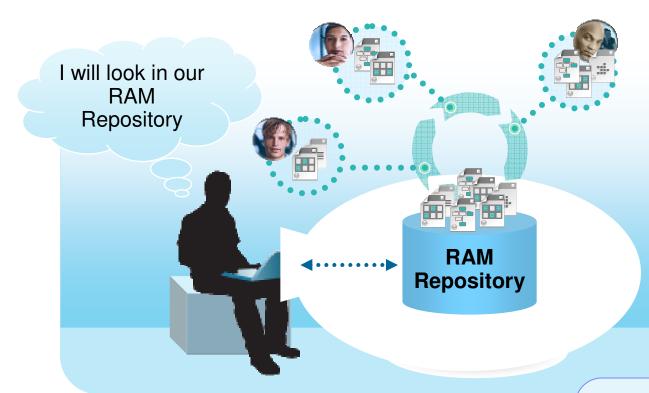




Solution: Operational reuse

Instill proactive asset management of all IT artifacts into the organization's processes and culture by deploying a reuse infrastructure





Rational Asset Manager
WebSphere Service Registry and
Repository

Delivering

Greater reuse, development efficiency, faster time-to-market, and higher quality



Provide a range of appealing, more intuitive user interfaces to increase employee productivity and boost customer satisfaction





But...

The cost of replacing or re-writing these applications is prohibitive, and they may not have the necessary web and UI technology skills.

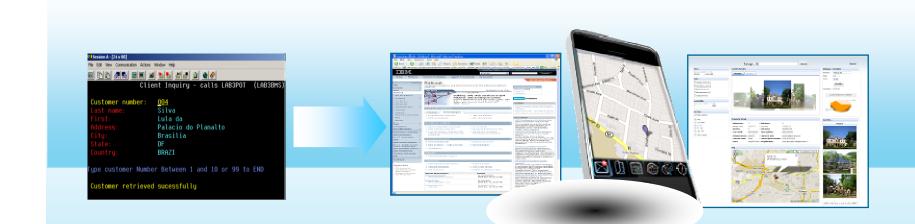




Solution: User interface modernization

Deploy the ideal UI for your application, from quickly creating a modern Web UI out of an existing green screen application to customizing a highly interactive, graphical Web 2.0 UI





Rational EGL Community Edition

Host Access Transformation Services

Rational Developer for System z

Rational Developer for Power Systems

Rational Business Developer

Delivering

Greater customer satisfaction, lower employee training costs, and fewer errors from more modern and compelling UIs



Boost productivity and accelerate innovation with modern skills



Modern IDEs for all platforms and languages

Modern business language

Application transformation tools and services

Enterprise training programs, communities and resources

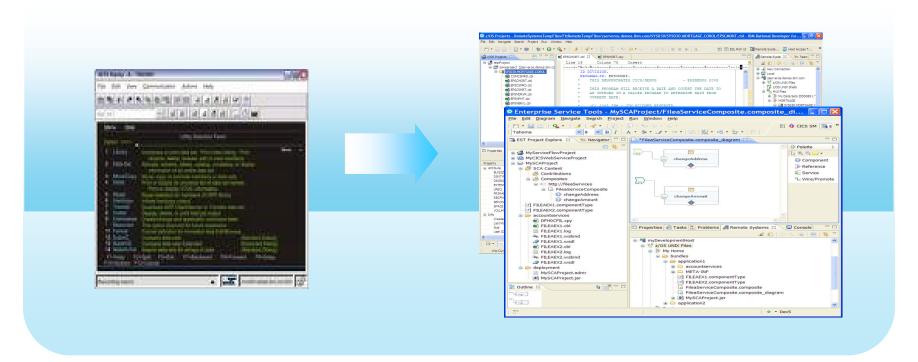
Rational Software Delivery Platform powered by





Increase productivity of their "backend" development staff, as well as attract new employees to this work





But...

They have antiquated development tools which deliver low productivity and are repulsive to younger staff.



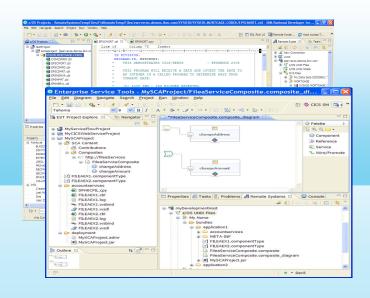




Solution: Modern IDEs for all platforms and languages

Upgrade to modern Eclipse-based tools to develop and maintain enterprise applications spanning multiple platforms and languages





Rational Developer for System z
Rational Developer for Power Systems
Rational Application Developer
Rational Business Developer

Delivering

50%-80%¹ reduction in host CPU usage with workstation syntax checking, ~15% improvement in developer productivity¹, and tools with which to attract new talent

¹ Aggregation of results from a productivity study conducted by IBM System z customers

NEW



Build modern, multi-platform applications with existing and new staff





But...

They have different teams of developers for each platform, and re-training them to all the new technologies would be costly, time consuming, and often impractical.

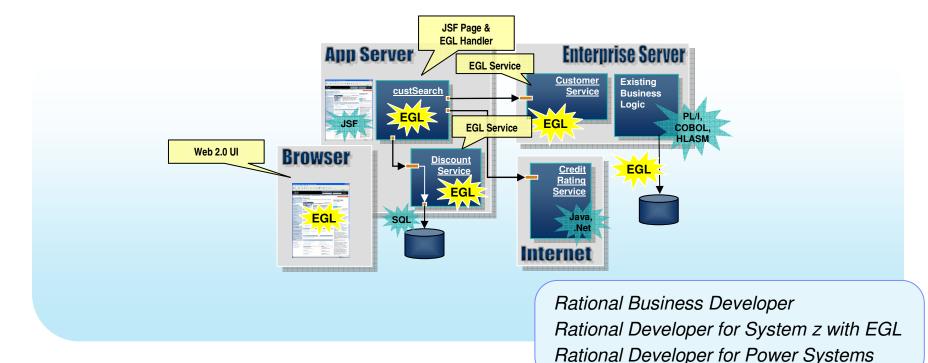




Solution: EGL – next gen business language

Build new or extend existing multi-platform enterprise applications leveraging EGL with its middleware abstractions and high productivity language and development environment





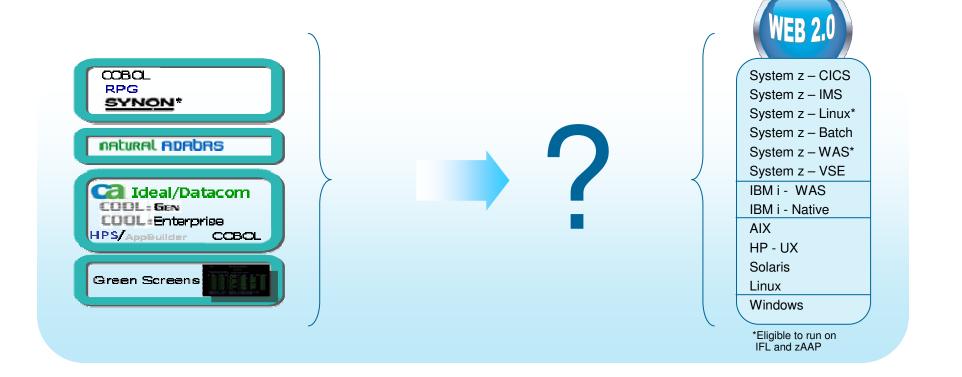
Delivering

Skills flexibility, high productivity and platform portability for existing and new developers when building all types of modern enterprise applications



Reduce tool support costs and move to modern platforms, languages, and tools for their multi-platform application development





But...

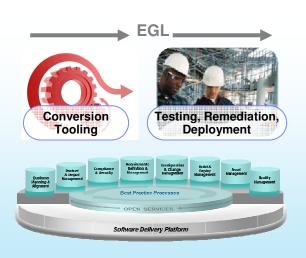
They are stuck on poorly supported, expensive, legacy development platforms.



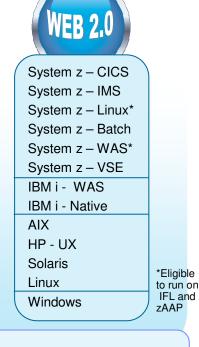
Solution: Application transformation tools and services

Migrate from older languages and stagnant platforms to modern development platforms, languages and tools









Rational Migration Extensions

Delivering

Greatly reduced development platform support costs, and more flexible, integrated development environment for making future application enhancements (e.g. SOA and web 2.0)



Maximize organizational agility by bridging organizational silos



Consolidated team infrastructure

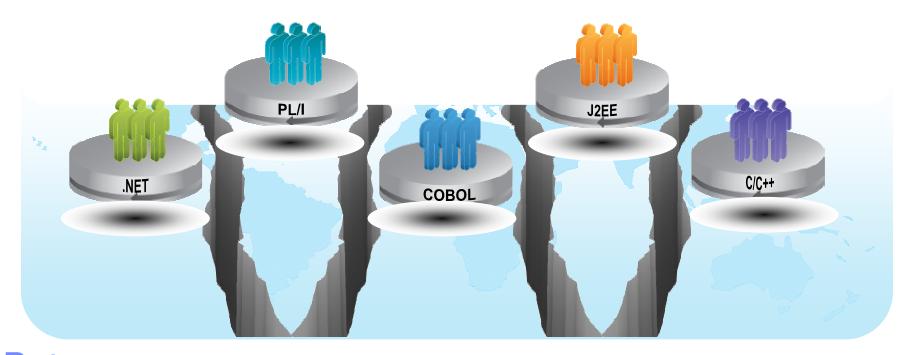
Agile team infrastructure

Rational Software Delivery Platform powered by



Enable agile, multi-platform and cross-geo collaboration and governance while reducing their team infrastructure costs





But...

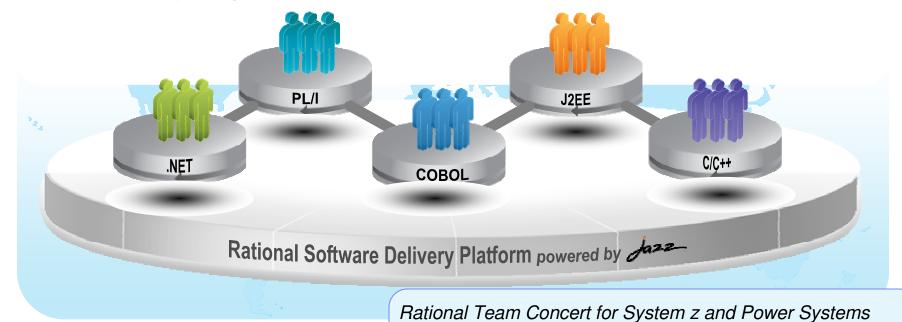
They have "islands" of development, each with different tools, processes and team infrastructure, and they do not support real-time collaboration or integrated, comprehensive oversight.



Solution: Collaborative application lifecycle management



Deploy new, common team infrastructure for source control management and build that empowers your team with integrated collaboration, process automation, and reporting



Rational Buildforge

Rational ClearCase / Rational ClearQuest

Delivering

Improved communication, higher quality, informed decision-making, and more automated, transparent and predictable software development



Increase system utilization by optimizing application infrastructure



Advanced compiler technology

Rational Software Delivery Platform powered by



Maximize application performance on existing hardware to reduce capital expenses





But...

They have back-level compilers or are not fully using optimization.



Solution: Advanced compiler technology

Exploit new advanced optimization technology in C/C++, Java, COBOL, PL/I and Fortran compilers





Compiler Version

Same hardware + NEW compiler = Increased Performance

NEW hardware + NEW compiler = Maximum Performance ENHANCED!

- IBM XL C/C++ for AIX and Linux
- IBM XL Fortran for AIX and Linux
- IBM COBOL for z/OS, AIX
- IBM PL/I for z/OS, AIX
- IBM WebSphere® Development Studio (IBM i compilers)

Delivering

Lower capital outlays by increasing capacity, and improved performance of application suite



Leverage IBM Services to get started today

Executive Services

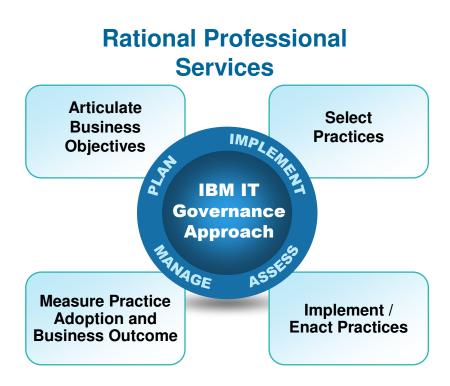
Schedule an Enterprise Modernization Executive Planning Session to define modernization strategies

Application Modernization Services

- Application Assessments to:
 - Develop Modernization roadmaps to resolve specific business issues
 - Improve Application Quality & Performance
 - Identify opportunities for business software delivery improvements

People and Team Modernization Services

- Provide Implementation Services for Rational Enterprise Modernization tools
- Provide SCM migration assistance
- SDLC Assessments to:
 - Improve Software Delivery performance
 - Implement Software Delivery Metrics to more effectively manage the software development environment





IBM Rational Enterprise Modernization solutions

Optimizing your applications, people, team and infrastructure investments

- Difficult times present opportunities for businesses to gain efficiencies in the short term while making strategic IT investments for future growth
- But application complexity, limited staff productivity, poor team collaboration, and constrained infrastructure limits IT flexibility
- Rational Enterprise modernization solutions can help:
 - ✓ Increase flexibility by revitalizing existing application portfolio
 - ✓ Boost productivity and accelerate innovation with modern skills
 - ✓ Maximize organizational agility by bridging development silos
 - Increase system utilization by optimizing application infrastructure



To learn more visit: ibm.com/software/rational/modernization/



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- 5. Networking and innovating with 4,000 peers!

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 and achieve precision in desired business outcomes
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