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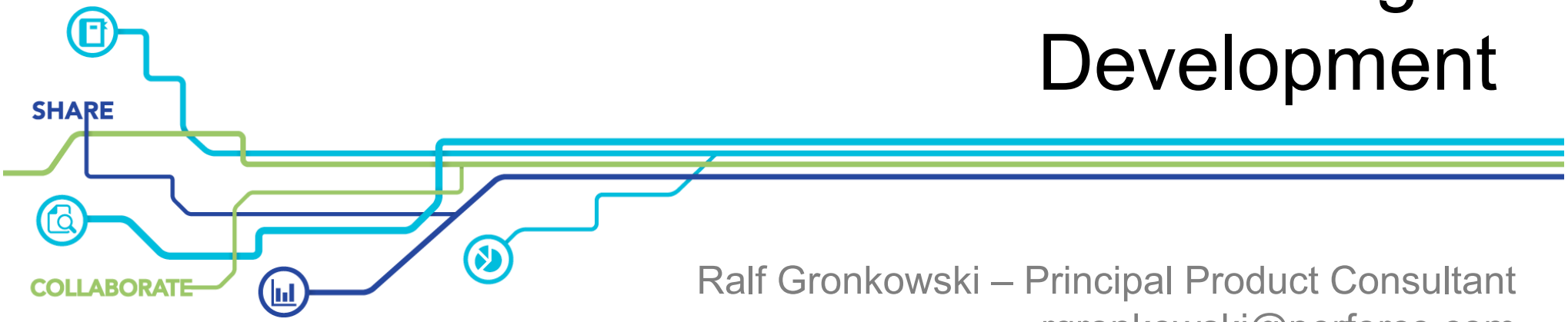
5 Pain Points of Agile Development



Ralf Gronkowski – Principal Product Consultant
rgronkowski@perforce.com

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“Individuals and interactions over processes and tools.”

— Manifesto for Agile Software Development, 2001

What We'll Talk about Today

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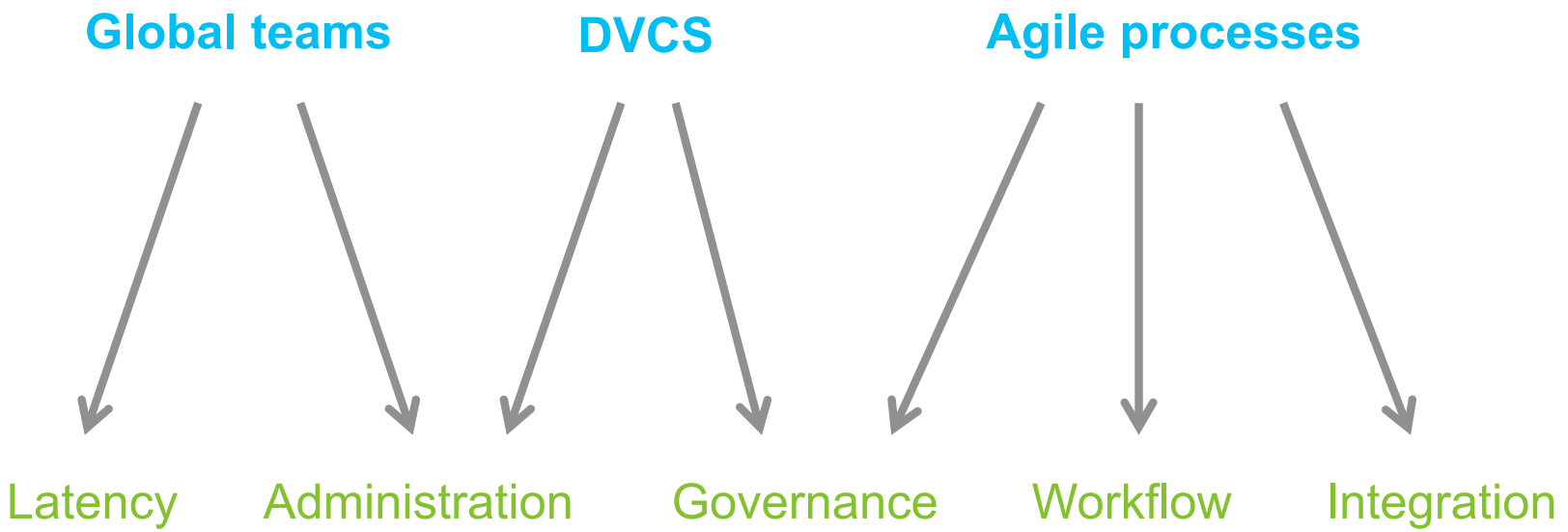
3 Key Trends and 5 Pain Points



Delegate Poll

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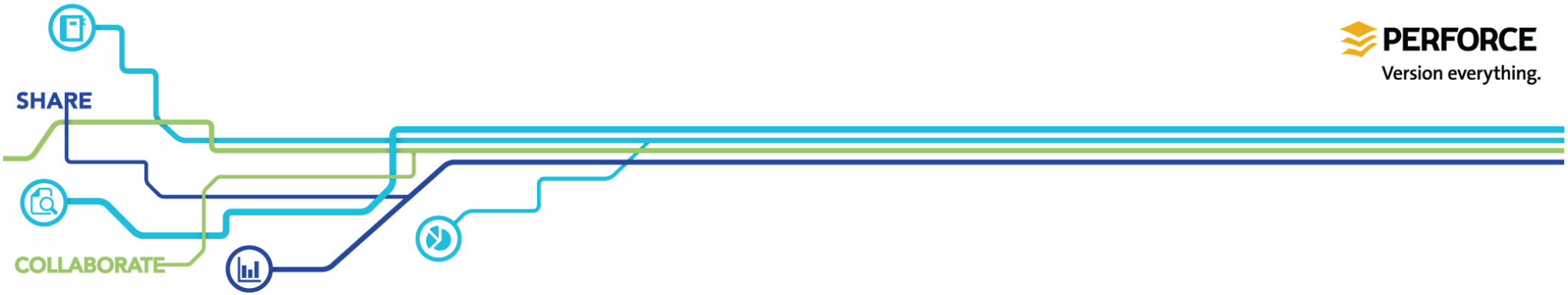
Which of these are your main development challenges?

Please select all that apply.

- Latency
- Workflow
- Governance
- Administrative Overheads
- Integration



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Pain Point #1

Latency

Latency

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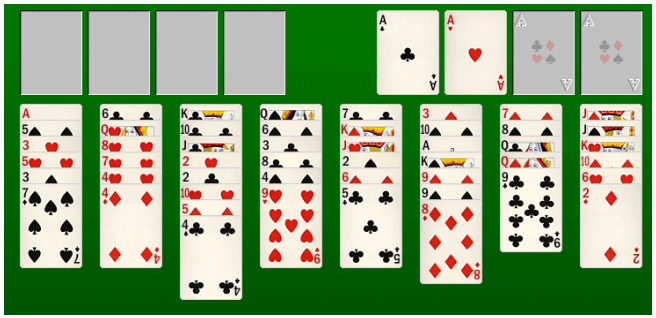
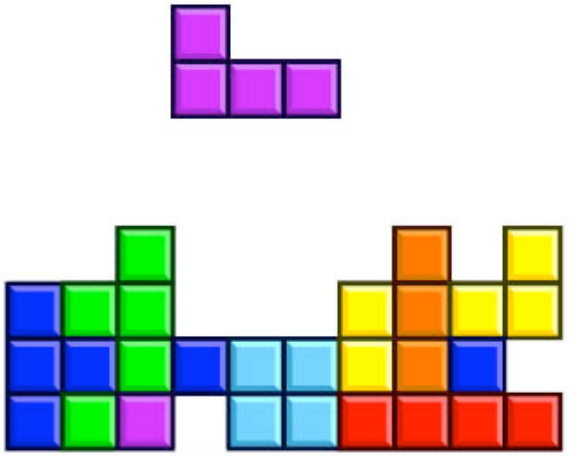
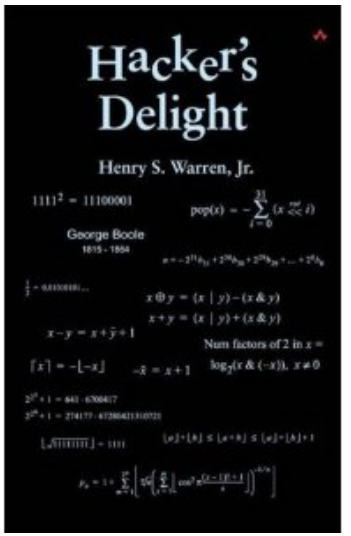
- SCM latency means reduced developer productivity.







Two Key New Latency Problems

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- Global teams
- Continuous Integration
  - CI can account for **>50%** of load on SCM servers.

Global Project Staffing

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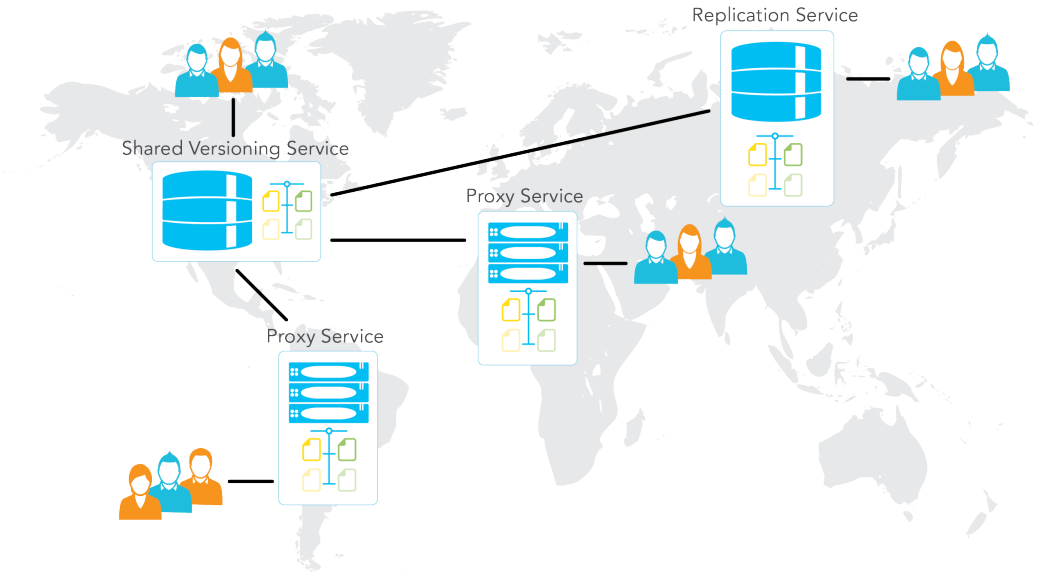
- Global development -> virtual teams
- Developer and infrastructure may be on different continents
- Team membership may change quickly



Prepare for the Staffing Shuffle

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- Solve performance problems before you know the geographic configuration of the team

Accelrys

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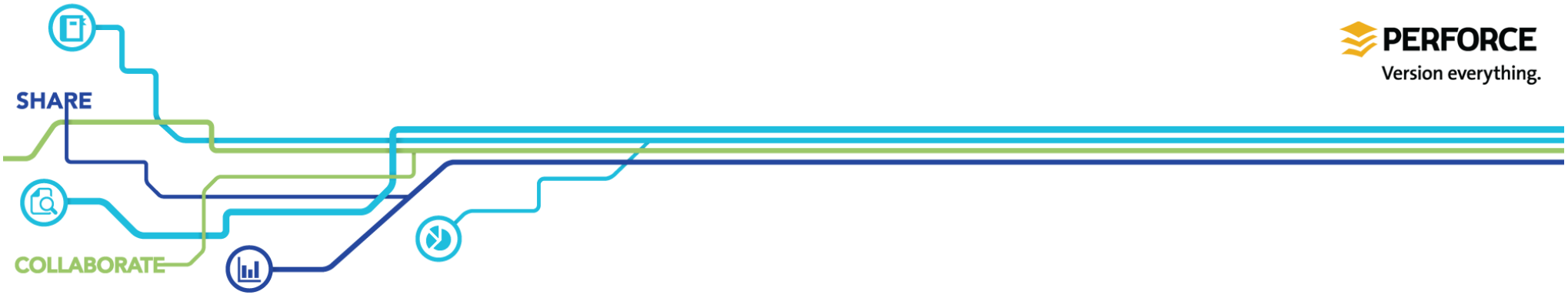
- Leading provider of scientific innovation lifecycle management software
- Hot standby
- Perforce proxies for global development teams



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Pain Point #2

Workflow

Componentization

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- Components are individually well-versioned
- How to track compatible versions across components?
- Track component versions separately, or can your SCM system do it?

DVCS Usage

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- Git, Hg and other DVCS provide strong versioning within a software component
- Difficult to track versions across
  - Software components
  - Configuration data
  - Binary assets

Non-Code Assets

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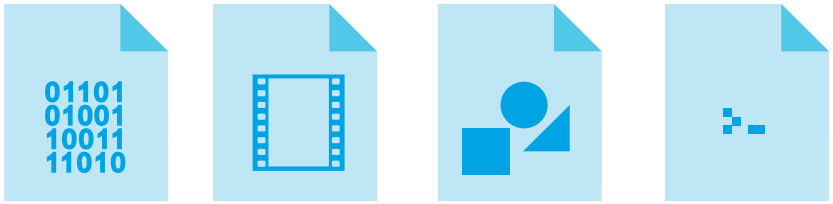
- Configuration files
- Binary assets

Save time: keep all needed resources in a common system.



NVIDIA

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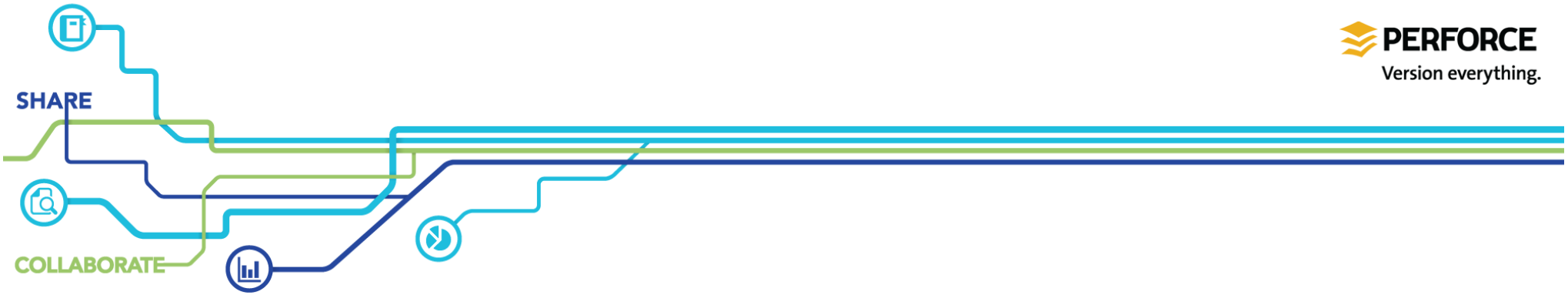
- Many teams using Perforce
  - Hardware
  - Software
  - Legal
- Many kinds of assets
  - Code
  - Hardware design
  - Office documents



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Pain Point #3

Governance

Versioning: Legal issues

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- Establish **prior use defence** against patent trolls
- Track compliance with open source and other third-party licences
- Code escrow

Build, Test, Release

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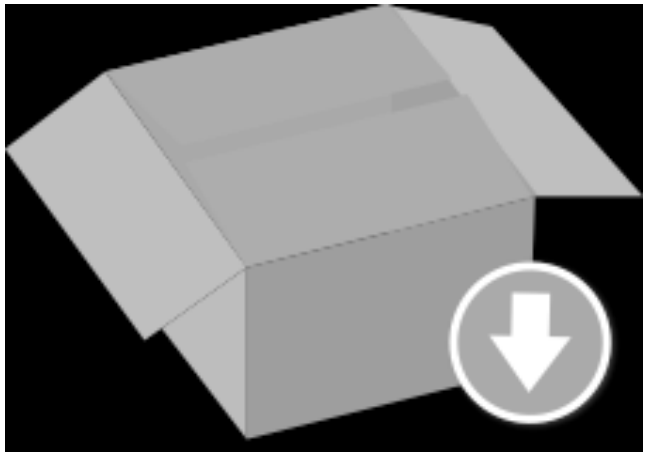
- Do Developers, CI, and QA get the same build?
- Can you reconstruct a “historic” build?
- Is the environment versioned together with code and assets?



NYSE Euronext

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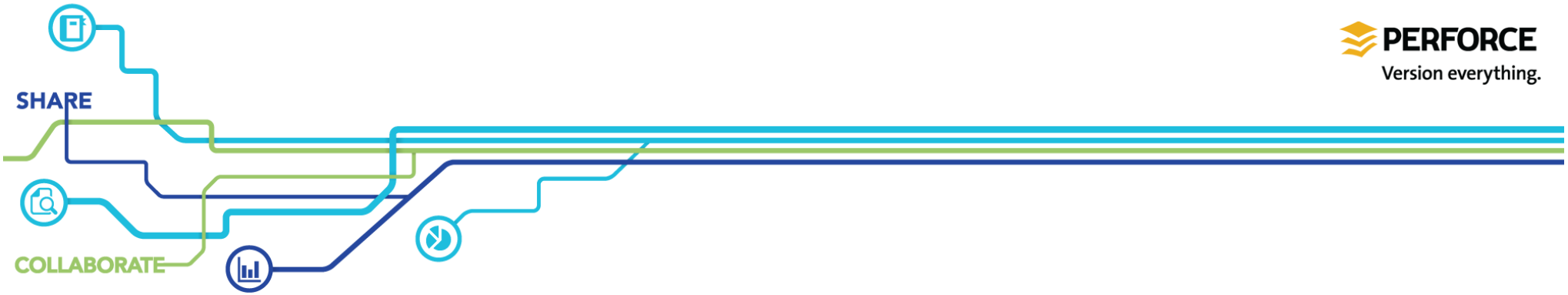
- Track installed versions of all assets
  - Executables
  - Configuration
  - Scripts
- 198 projects
- 6600 releases/year



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Pain Point #4

Administrative Overhead

Admin to User Ratio

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- Large area of difference among SCM systems.
- Can range from 1:30 to 1:1000 or more

Key Admin Tasks

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- Backup/recovery
- HA/DR
- Administration for replicas – build/test farms, analytics, other Agile needs
- Upgrades
- User and Permissions Management

Trend Micro

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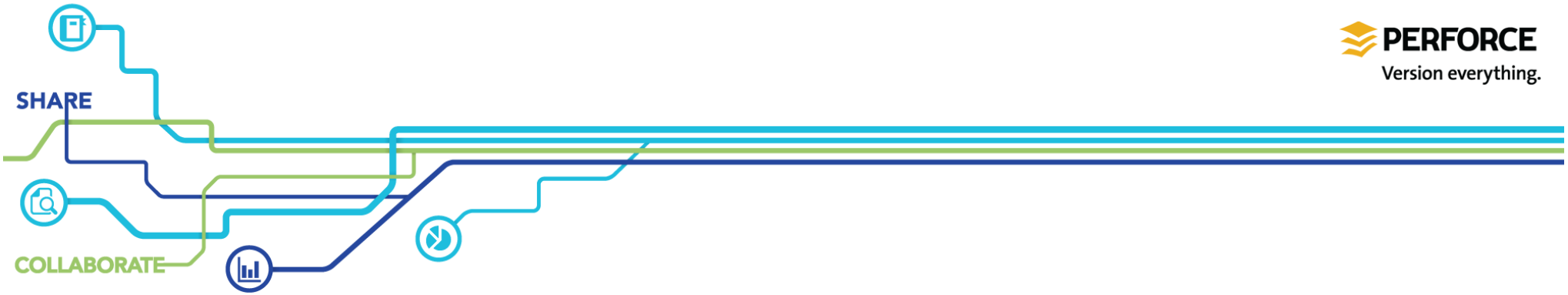
- Previous SCM system required a dedicated server per location
- Migration to Perforce
  - Increased performance
  - Reduced admin requirements
  - Perforce branching model enables sharing among projects

TREND™
MICRO



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Pain Point #5:
Integration Nightmares

Core vs. Context

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- Administrators should not be rewriting basic code for essential integrations.
- Look for SCM with well-tested integrations for the rest of the ALM stack.

Essential ALM Package for 2013

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NetApp

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- Build environments
- Test environments
- Data retention and distribution

How SCM Can Help

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- Latency
- Workflow
- Governance
- Administration
- Integration

And > 5,500 Other Leading Companies

Delegate Poll

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Questions?