**Ed Goldman, CTO of Intel IT
GM Strategy, Architecture, and Innovation**

Intel IT Labs and Big Data

Over the past few years, we have investigated the concept behind the big data technologies and now have much of the capabilities running in our production environment. The IT Labs continue their work to explore new and innovative solutions focused in three areas:

1. Deep Insights: This is the exploration of methodologies for combining analytics, big data technologies and new capabilities to achieve deeper insights. Researching combinations of visualization, knowledge representation, and machine learning tools will help us uncover new ways to apply emerging analytics in our complex business environments.

2. Big Data Virtualization: Currently, the big data platforms are not easy to implement and lack effective toolsets

to efficiently deploy, run and manage this in our environment. We are looking into virtualization to bring enterprise-tested high availability and fault tolerance and more agility with automated management. Virtualization allows for separation of data and compute, letting users preserve data locality and enables mixed workload deployments. We are optimistic about this direction.

3. Big Data Search: When building systems to manage big data applications, we feel that "Search" cannot be an afterthought. Organizations want to provide a simple way to analyze petabytes of information to deliver the information that businesses require to make real-time, intelligent and actionable decisions.

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This means that "Search" in a Big Data environment takes on a new dimension of importance. A big data "Search" platform should allow us to leverage large quantities of data available across disparate sources, enabling extraction of information from large distributed volumes of structured and unstructured data.

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