



Tarmin GridBank: Education & Research Solutions

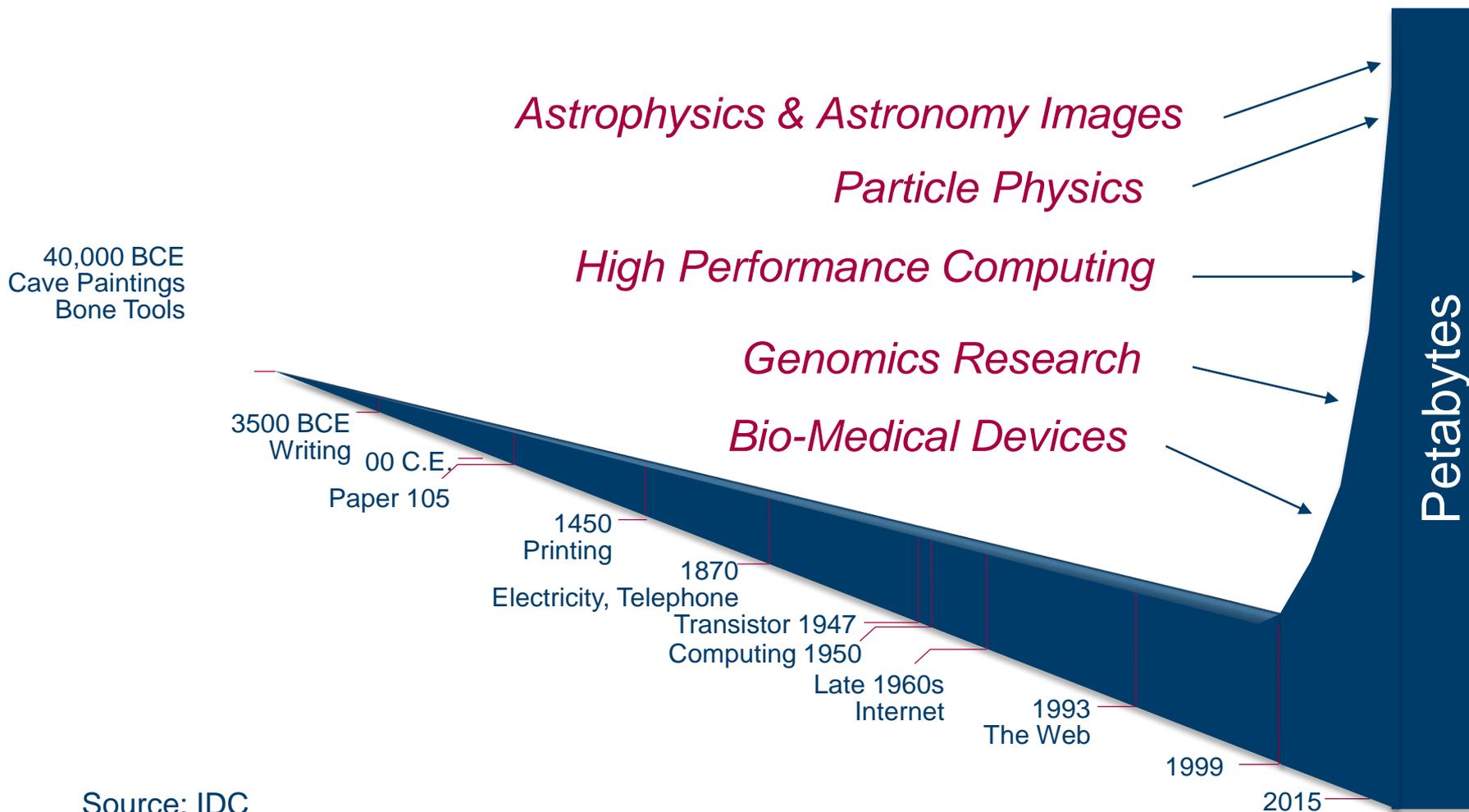
Where Data Defines Value.™

About Tarmin

- Founded in 2007
- Corporate Headquarters: Boston, London
- Pioneer of Data Defined Storage
- Solution: GridBank Data Management Platform



Education & Research Data Growth



Source: IDC

Challenges and Opportunities in Education and Research Data

Challenges

Funding

- Shrinking gov funding & rising demand for aid

Data Volumes

- Massively growing machine generated data

Research Data

- Huge data flows from internal & external sources

Regulation

- Increasing regulatory environment

HPC Analytics

- Massive compute power for analysis

Online Media

- Online course provisioning in mixed media

Opportunities

Budget

- Chargeback & lower TCO for decreasing budgets

Massive Scalability

- Scale to very large, rapidly growing data sets

Multi-Site

- Replication bandwidth requirements

Retention Periods

- Retention requirements outlive hardware & media

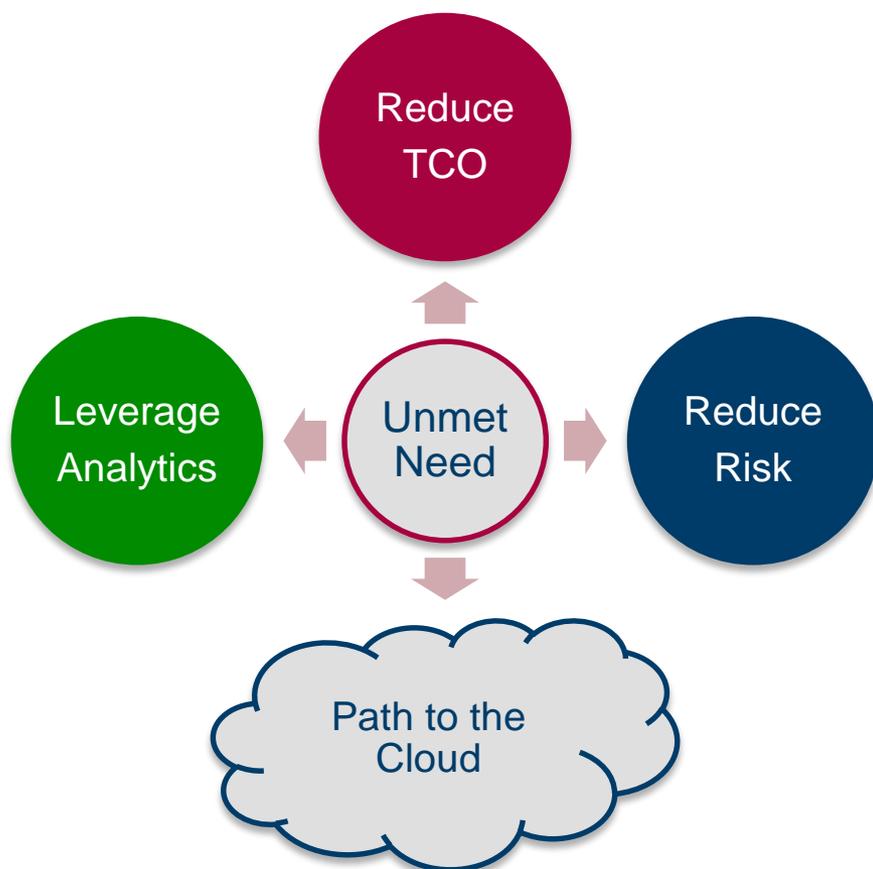
Data Analysis

- High performance analysis of data repositories

Variety

- Ingestion & indexing of multiple file types

Customer Priorities



Reduce TCO

- Reduce CAPX with no vendor lock in
- Constrain data growth & storage OPEX

Reduce Business Risk

- Meet compliance & regulatory mandates
- Simplify storage & data management

Leverage Analytics

- Drive new revenue streams
- Gain competitive advantage

Path to the Cloud

- Simple, agile cloud migration model
- Transparent, non-disruptive transition

GridBank Feature Set

Reduce TCO

- Optimize Data Storage & Limit Volume Growth
- Reduce TCO with Data Consolidation
- Evade Data Silos with Media Independence

Mitigate Risk

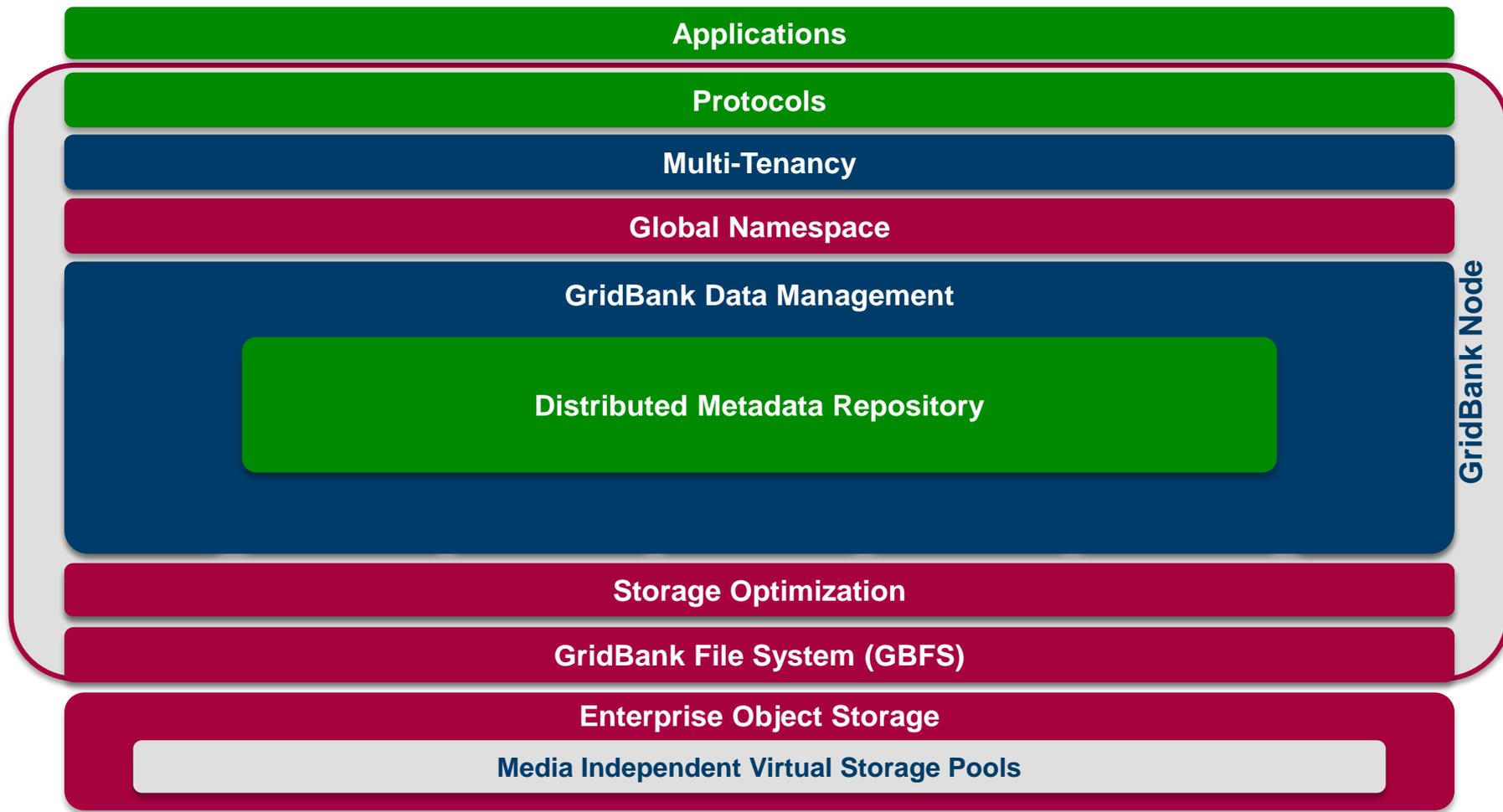
- Information Governance for Compliance
- AD-Integrated Security & Authentication
- High Availability Global Replication & BYOD

Grow Business Potential

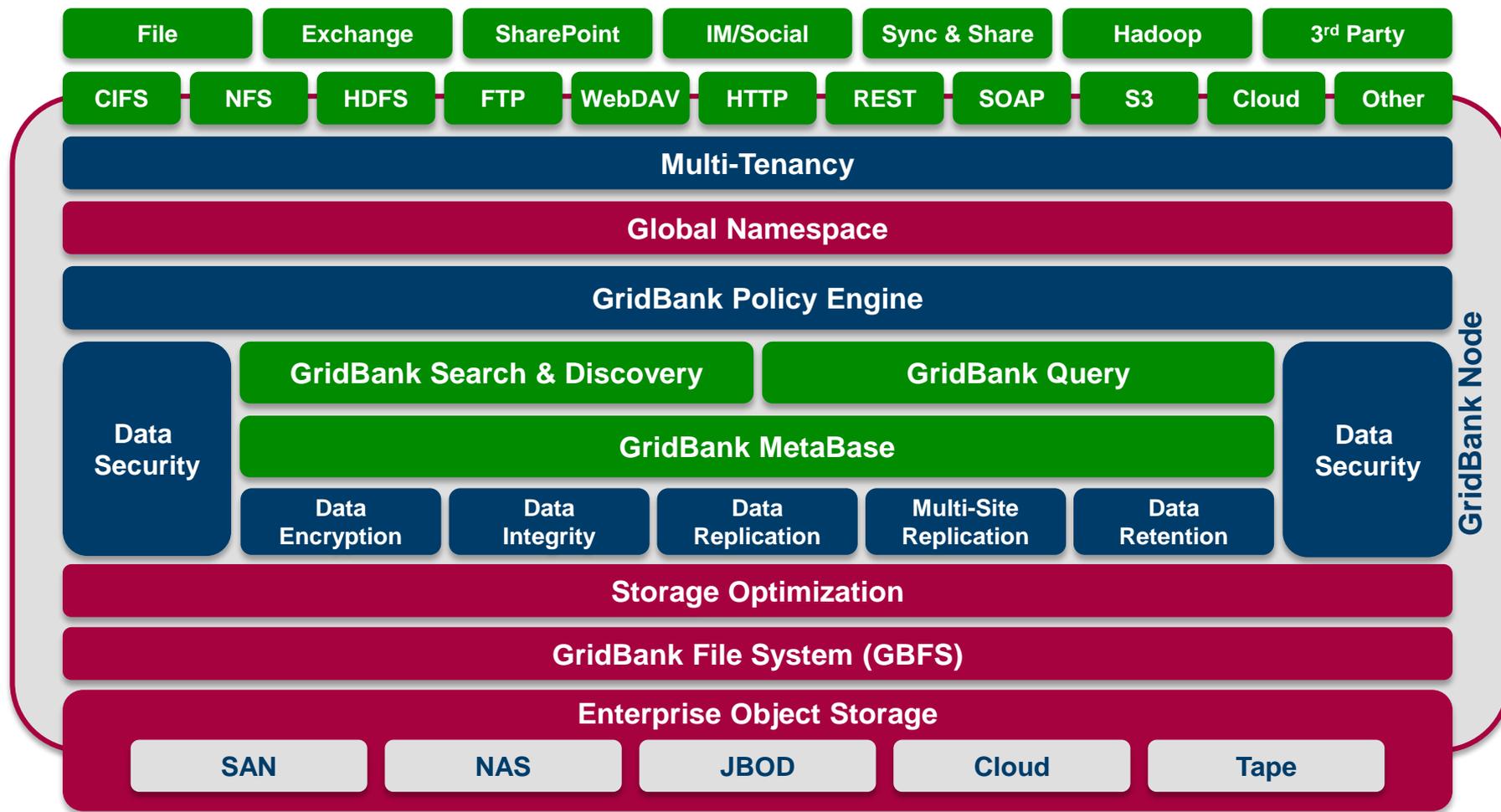
- Enterprise-wide Unified Search & e-Discovery
- On Demand Access to Business Critical Data
- Maximize Return on Data with Big Analytics



GridBank Solution



GridBank Solution



GridBank File System for Reduced TCO

Consolidated Infrastructure for Operational Efficiencies

- Eliminates storage silos
- Increases utilization
- Massively scalable to multi-PB

Optimized Price Performance

- Distributed Object Dedupe & compression limits volume growth & footprint
- Flexible & dynamic multi-site features
- Automated, policy-based self-management

Simplified Administration

- Easy to operate & centrally managed
- Fault tolerant & self-healing
- Improved FTE/TB ratio

GridBank Data Management for Reduced Risk

Replication

Distributed
Object
Dedupe

Bandwidth
Optimized
Smart Device
Access

Retention & Disposal

Policy-Based
Retention
Periods

Legal Hold for
Litigation
Proceedings

Security & Protection

Prevent
Unauthorized
Access

Encryption

Data Integrity

CRC Self-
Healing
Model

Tamper-Proof
Storage

Understanding at the Data Layer

- Ingestion & indexing of over 550 types of file format
- Application archiving for Exchange, SharePoint & LOB applications
- Industry-specific file type modules for core verticals

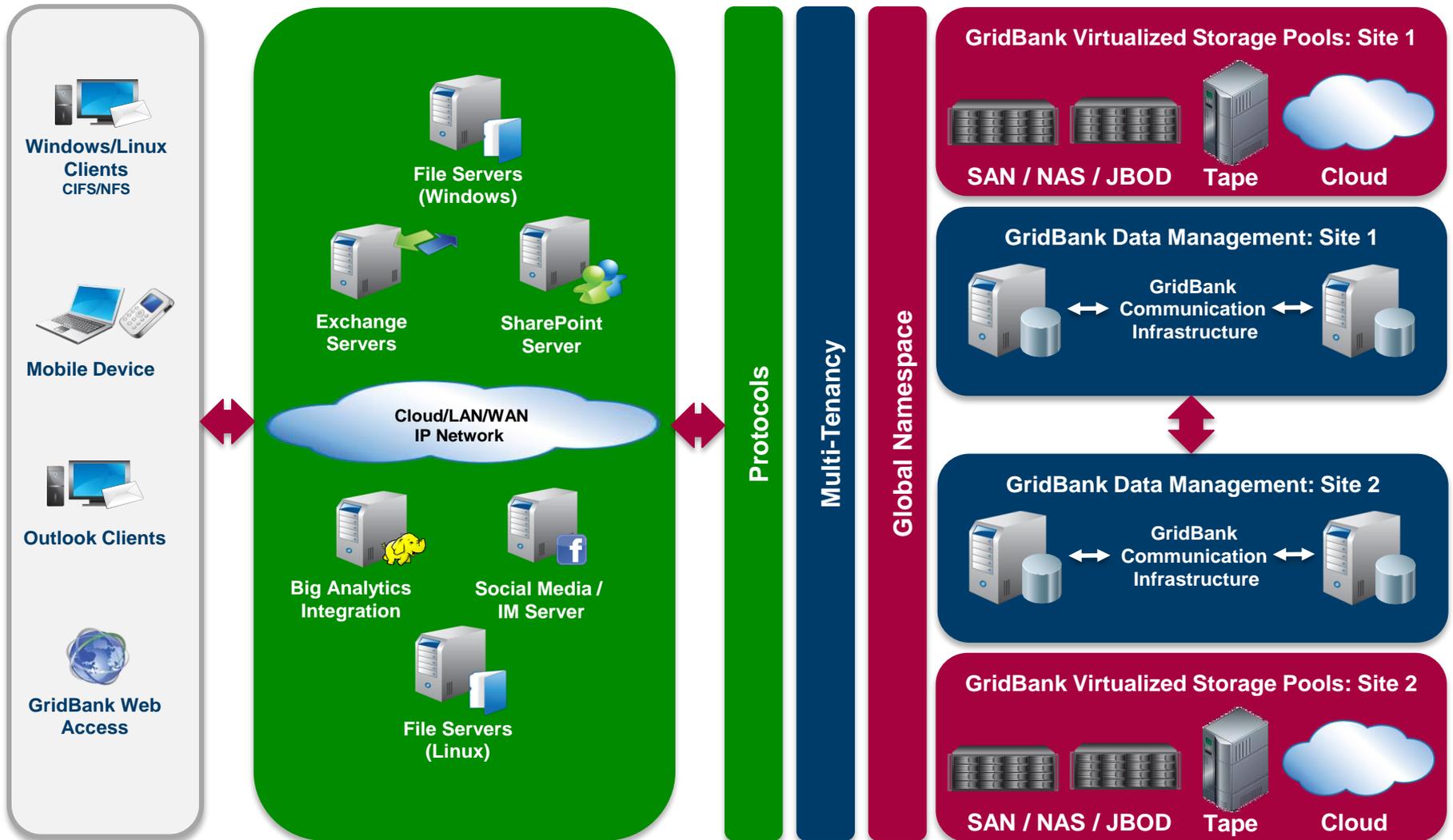
Accelerate Access to Critical Data

- On-demand high availability access to critical information
- Unified search across all consolidated data sources
- Enhance knowledge worker efficiency with optimized search

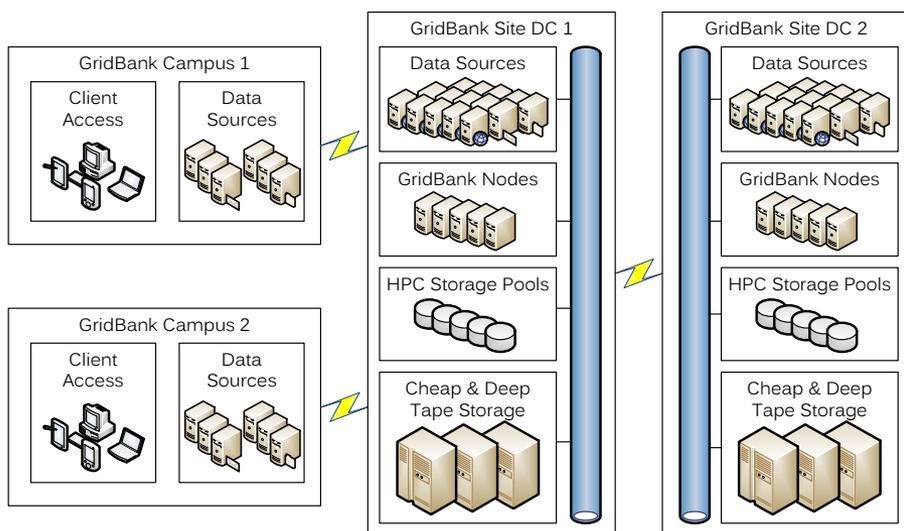
Maximize Return on Data

- Big analytics integration framework for insights & decision-making
- Gain flexibility & agility in innovative responses to dynamic markets
- Increasing returns to data volume; more data == more value

GridBank Deployment Diagram



Education and Research Use Cases



Research University Use Case

- Pioneering HPC University
- Perform Compute on Research Data on Live Store
- Comply with FoIA Public Data Access Mandates
- Archive Completed Projects to Lowest TCO per TB

Teaching University Use Case

- Storage Infrastructure Refresh
- Consolidate Wide Range of Hardware
- Centralized Control & High Availability Access
- Comply with Organizational ILM Policies
- Implement Live & Archive Store

Tarmin Solution

- Unique Solution for Education Market
- HPC Storage, GridBank & Tape Pool Archival
- Cheap & Deep Tape Storage

Awards & Recognitions



Channel Partner Program
of the Year



"The rapid growth of our company is generating more and more data... GridBank allows us to store and protect our G&G data and create a platform for improving business efficiency while reducing TCO"



- David Edwards, Group Head of Information Systems, Premier Oil, Plc.

"We are very impressed with GridBank and see it as an important part of our strategy for ensuring customers achieve unmatched value from their relationship with brightsolid"



Richard Higgs, Managing Director, brightsolid Online Technology

"The object platform industry is just getting started in capturing a bigger piece of the scale-out unstructured data storage... opportunity, which IDC has forecast will be worth \$27 billion by 2017 and is... becoming known as the "data-defined storage" market."



- Ashish Nadkarni, Research Director, Storage Systems, IDC

GridBank Benefits: Education & Research Data

Reduced Total Cost of Ownership

- Higher storage utilization with simplified storage-as-a-service management & administration

Extensible & Scalable

- Across all research data disciplines, applications & locations

Efficient Migration & Replication

- Low bandwidth data migration & replication

Compliance & Information Governance

- Simple & efficient regulatory compliance

Empower Unstructured Data Analytics

- Enable HPC analysis of data repositories

Innovation

- Timely access to research data for research efficiency

GridBank Benefits

Data Defined Storage

- Takes a single, holistic, comprehensive data centric approach
- Consolidates application data across large, distributed locations & cloud
- Provides big data insight & analytics & application integration

Data Consolidation

Massively Scalable Architecture

Reduce TCO

Enhance Operational Efficiencies

Data Management

Simplify Data Management

Enforce Compliance

Reduce Business Risk

Data Value

Improve Business Agility

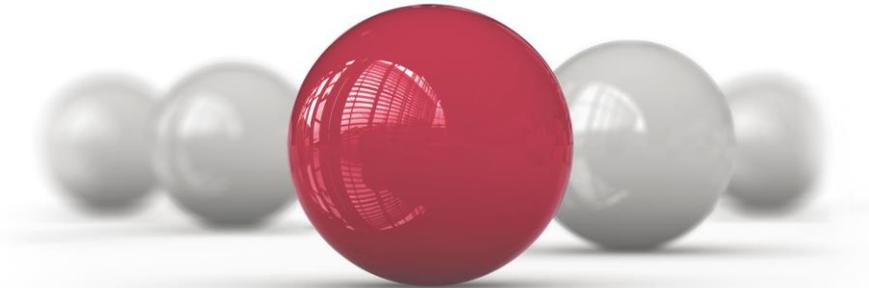
Drive Revenue Growth

Increase Competitive Advantage



Thank You!

Questions & Answers



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TARMIN-GRIDBANK-ED-OV-PS-1.07-18PG-US-2015MAR09