



## **Tarmin GridBank: Financial Services**

**Where Data Defines Value.™**

## About Tarmin

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



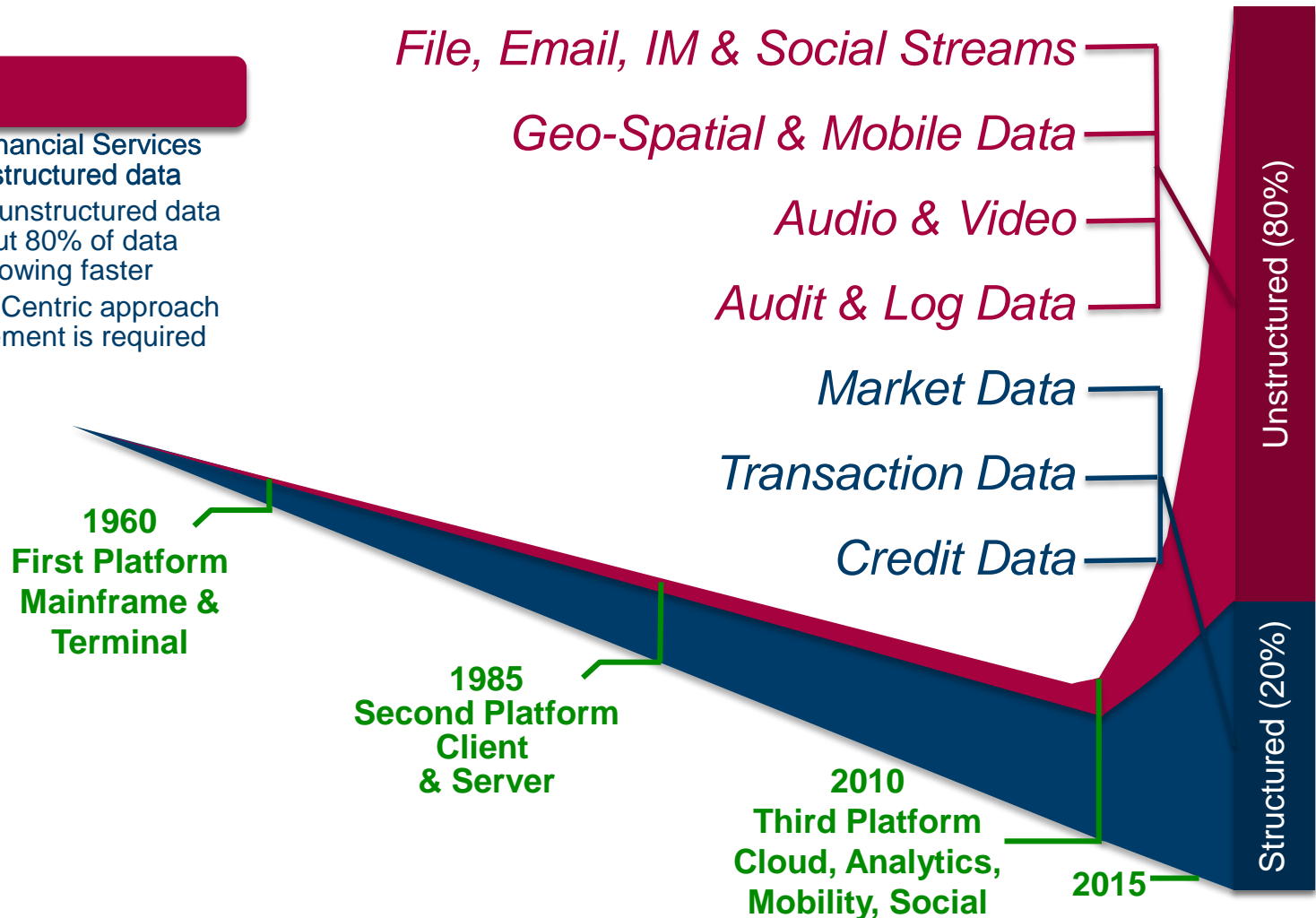
**Archiving & Compliance  
Product of the Year**



# Financial Services Data Growth

## Data Growth

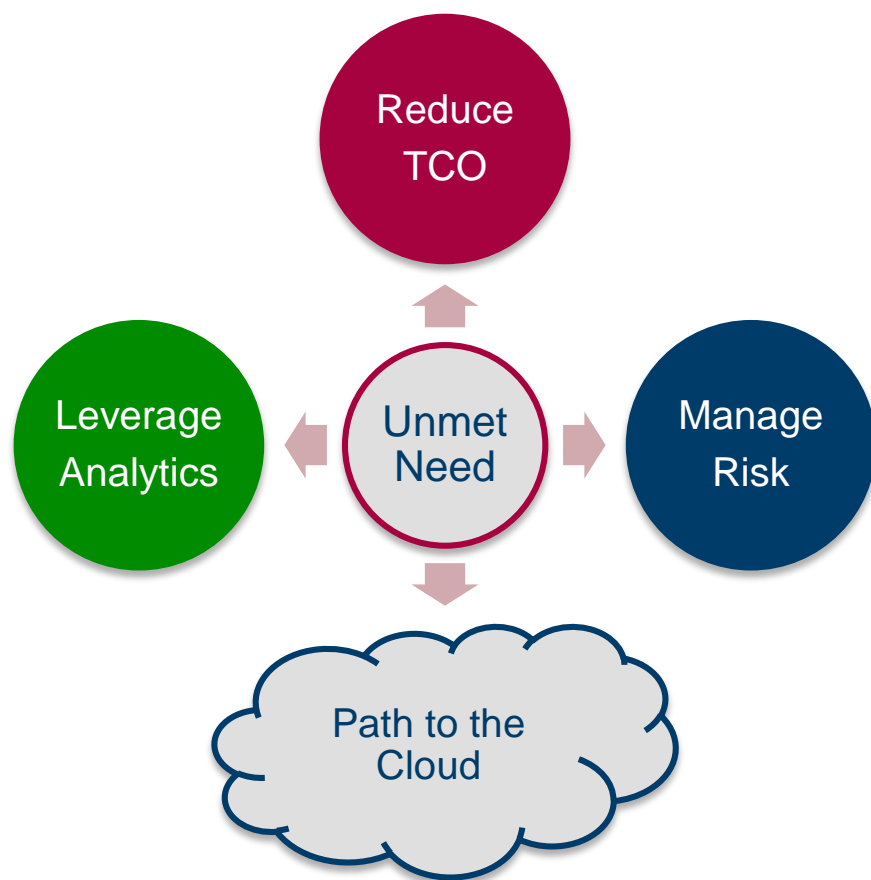
- Traditionally, Financial Services produced only structured data
- Third Platform: unstructured data represents about 80% of data volumes & is growing faster
- A modern Data Centric approach to data management is required



# Trends and Challenges in Finance

Challenges	Opportunities
<b>Data Silos</b> <ul style="list-style-type: none"> <li>Limited data transparency &amp; access between business units</li> </ul>	<b>Data Aggregation</b> <ul style="list-style-type: none"> <li>Unified data, simplified infrastructure &amp; lower TCO</li> </ul>
<b>Data Volumes</b> <ul style="list-style-type: none"> <li>Massively growing unstructured data volumes</li> </ul>	<b>Massive Scalability</b> <ul style="list-style-type: none"> <li>Scale to very large, rapidly growing data sets</li> </ul>
<b>Regulation &amp; Reputation</b> <ul style="list-style-type: none"> <li>Increasingly complex regulatory &amp; business conduct environment</li> </ul>	<b>Information Governance</b> <ul style="list-style-type: none"> <li>Simplified legal &amp; regulatory compliance</li> </ul>
<b>Business Risk</b> <ul style="list-style-type: none"> <li>Huge data flows from a variety of devices &amp; sources</li> </ul>	<b>Secure Data Access/Audit</b> <ul style="list-style-type: none"> <li>End-to-end identity centric security</li> </ul>
<b>Data Discovery</b> <ul style="list-style-type: none"> <li>Restricted search across complex data repositories</li> </ul>	<b>Business Efficiency</b> <ul style="list-style-type: none"> <li>Global data view &amp; access. Accurate Search &amp; e-Discovery</li> </ul>
<b>Business Economics</b> <ul style="list-style-type: none"> <li>IT cost/performance needs &amp; business requirements</li> </ul>	<b>IT &amp; Business Alignment</b> <ul style="list-style-type: none"> <li>Meet reduced CAPEX/OPEX &amp; business requirements</li> </ul>

# Financial Institution Priorities



## Reduce TCO

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

## Managing Business Risk

- Legal preparedness for compliance
- Reduce corporate exposure & conduct risk

## Leverage Data

- Search & discover data across all silos
- Drive new revenue streams

## Path to the Cloud

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

# GridBank Feature Set

## GridBank File System

- Linear, scale out object storage technology
- Media independent: flash, disk, tape & cloud
- Single unified view of all data

## GridBank Data Management

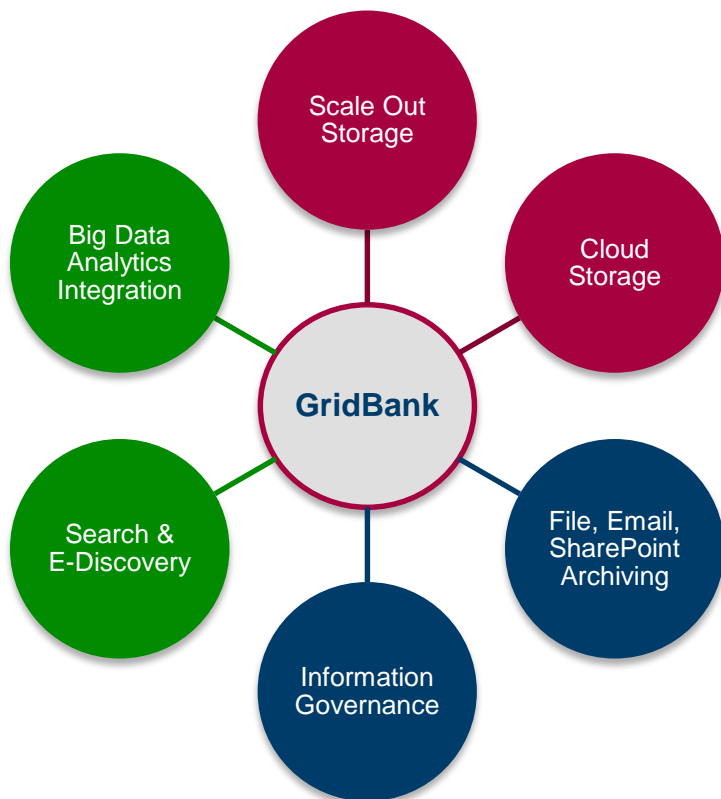
- Policy-based data retention, granular legal hold & data migration for archiving & tiering
- High availability global replication
- AD-Integrated security & authentication

## GridBank MetaBase

- Application integration of Exchange, SharePoint, Social Streams; supporting 550+ file formats
- File, full text content & custom metadata indexing
- Metadata repository: unified search & e-Discovery



# Technology Use Cases



## GridBank File System

- Flexible Infrastructure Scalable to Petabytes
- Media Independent: Flash, Disk, Tape & Cloud
- Private, Public or Hybrid Cloud

## GridBank Data Management

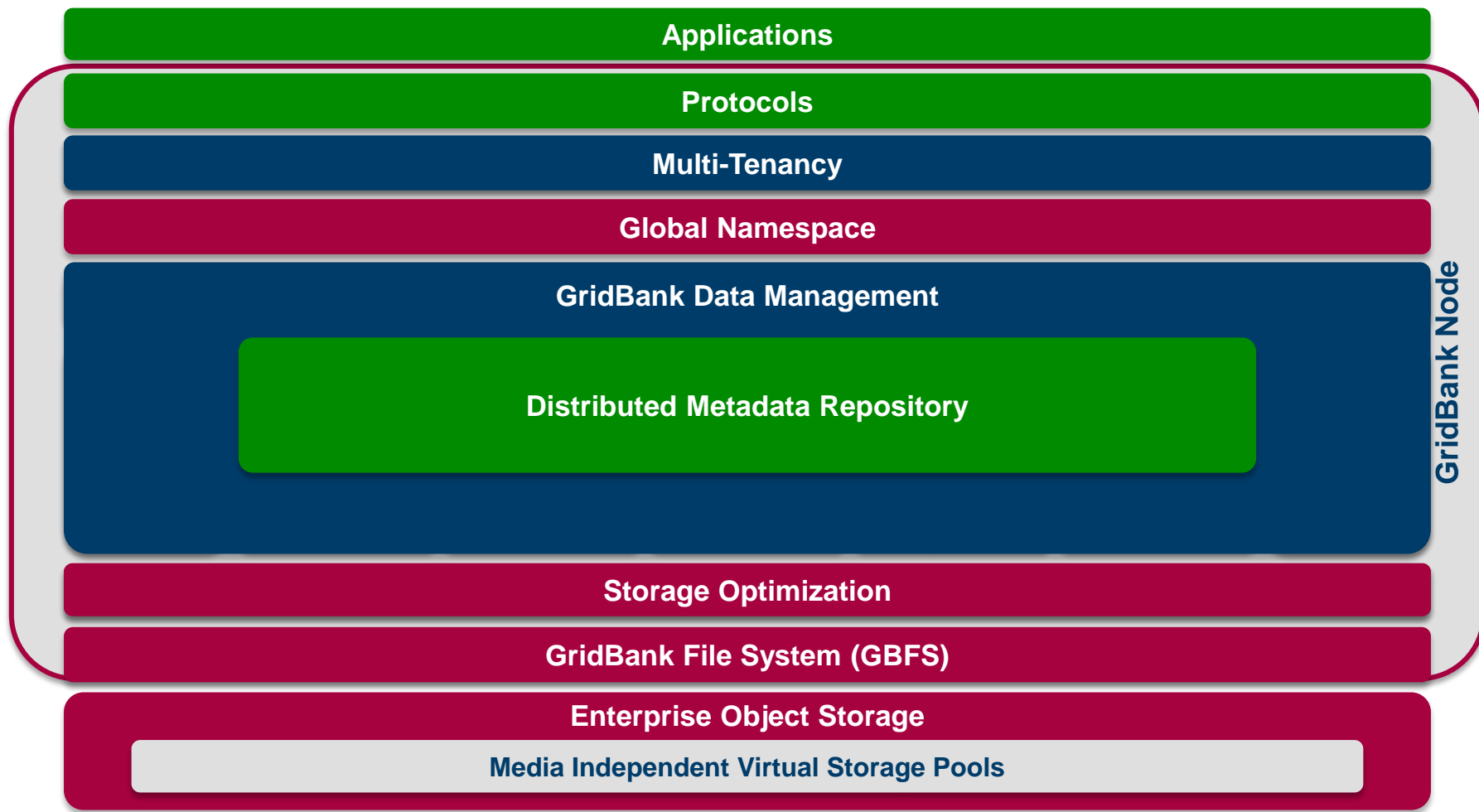
- File, Email, SharePoint Archiving
- Information Governance
- Secure Enterprise Mobility (BYOD)

## GridBank MetaBase

- File, Content & Custom Metadata Repository
- Enterprise Search & E-Discovery
- Foundation for Big Data Analytics

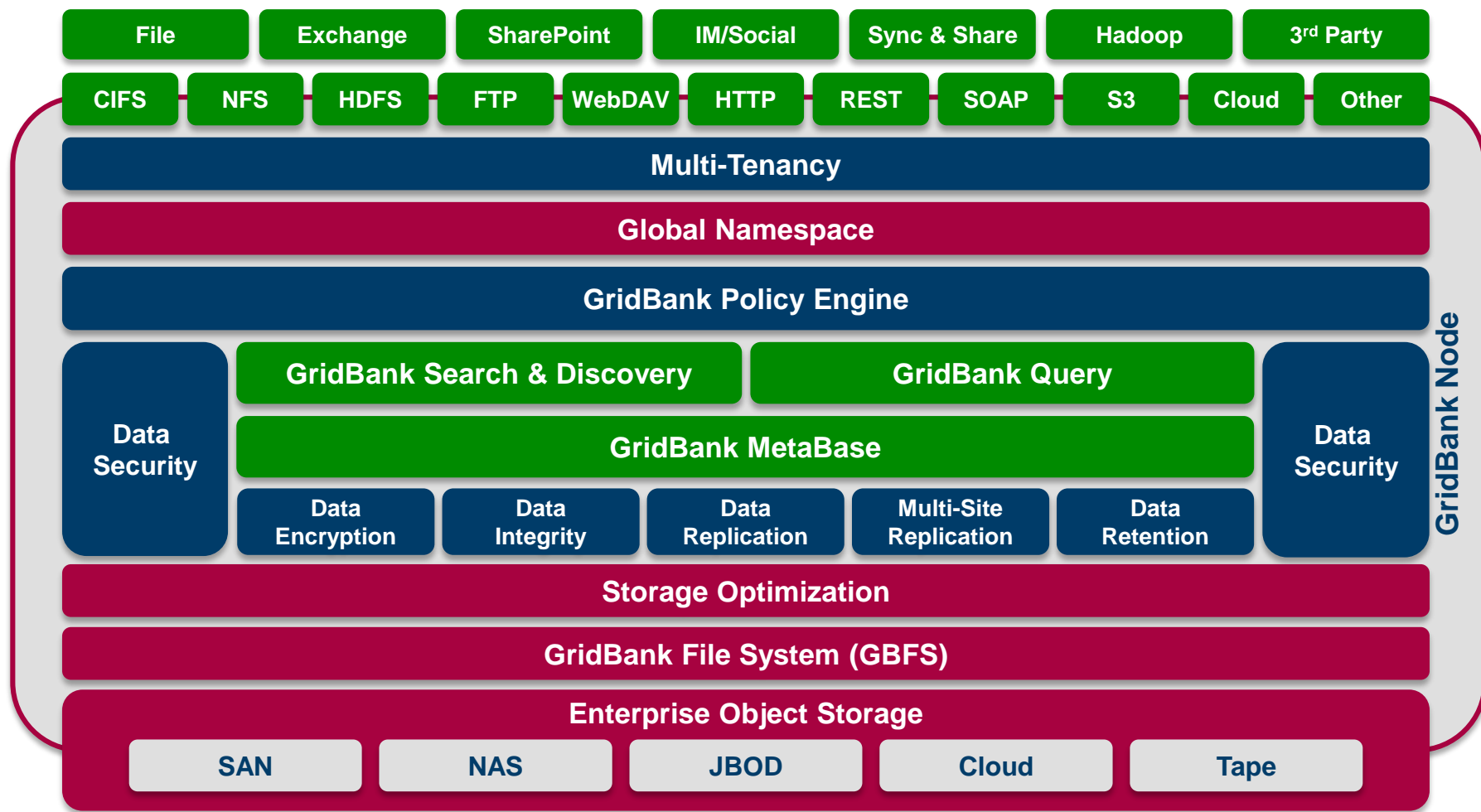


# GridBank Solution





# GridBank Solution



# GridBank Benefits: Financial Institutions

## Reduce TCO

- Higher storage utilization with unified data management & administration

## Extensible & Scalable

- Across all financial data transactions, content, applications & locations

## Data Governance & Compliance

- Simple & efficient legal & regulatory compliance

## Manage Corporate Risk

- End-to-end identity centric security inside & outside data center

## Data Search & Discovery

- Unified search & e-Discovery across all consolidated data sources enterprise-wide

## Business Agility

- Timely access to market & transactional data to drive decision making

# 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 Risk Control

## Retention & Disposal

SOX & SEC  
Compliant  
Retention

Legal Hold for  
Litigation  
Proceedings

## Data Security & Integrity

Prevent  
Unauthorized  
Access  
Across Any  
Device

Tamper-Proof  
Encrypted  
Storage

## Audit & Logs

Real-Time &  
Historical  
Audit  
Records

Object  
Insertion,  
Access,  
Deletion Audit

## Reputation & Conduct Risk

FCA & SEC  
Trust,  
Transparency  
&  
Governance

Global  
Control for  
Risk Policy

## Multi-Site Replication

High  
Availability  
with Failsafe  
Replication

Low Latency  
GridBank Site  
Data Access

# GridBank MetaBase for Business Agility

## Distributed Metadata Repository

- Ingestion & indexing file, full text index & custom metadata
- Application integration of Exchange, SharePoint, Social & LOB applications
- Support for over 550+ standard & industry-specific file types

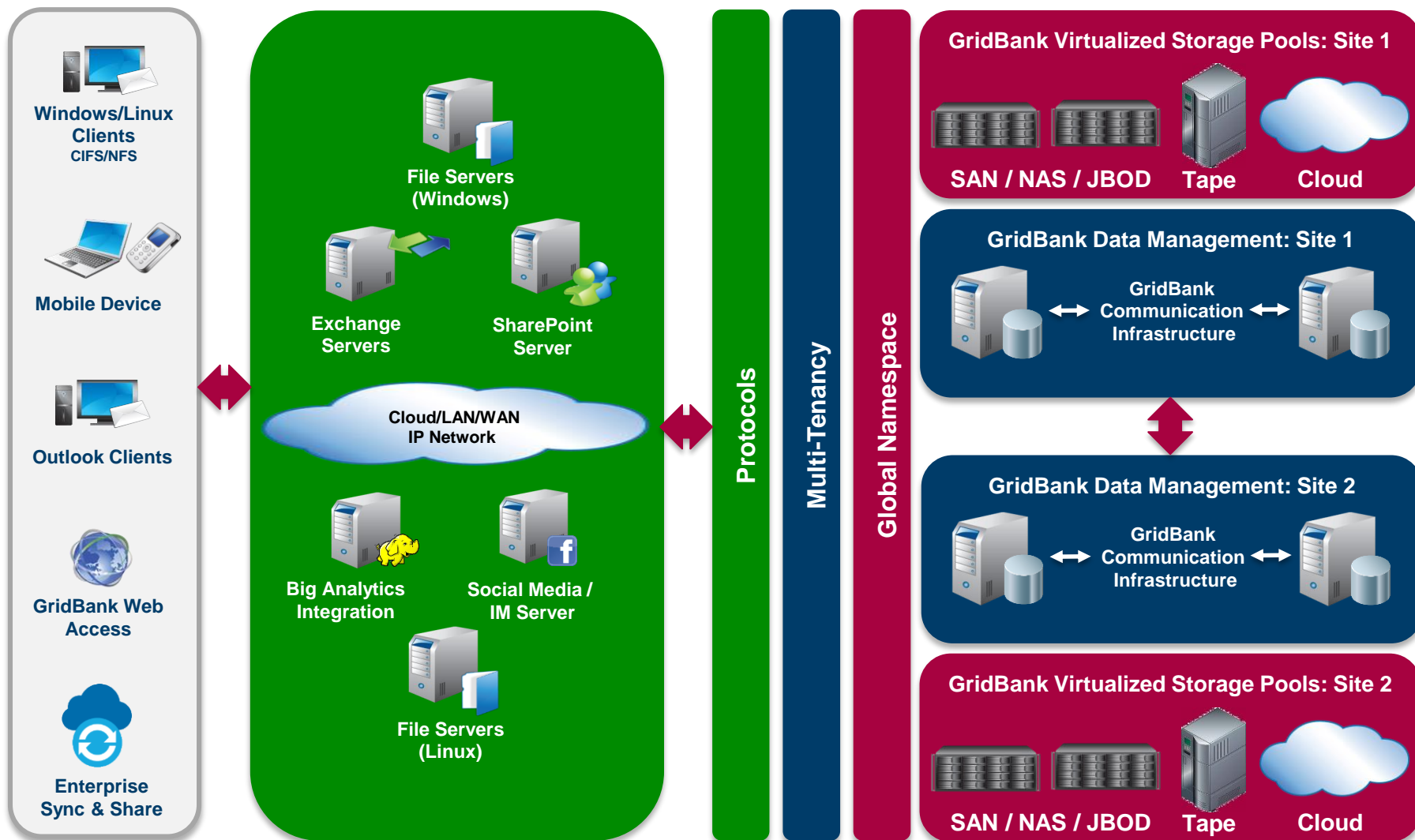
## Accelerate Access & Discovery

- On-demand high availability access across entire data estate
- Unified search across all consolidated data sources
- Reduce cost & risks with fast & accurate e-Discovery

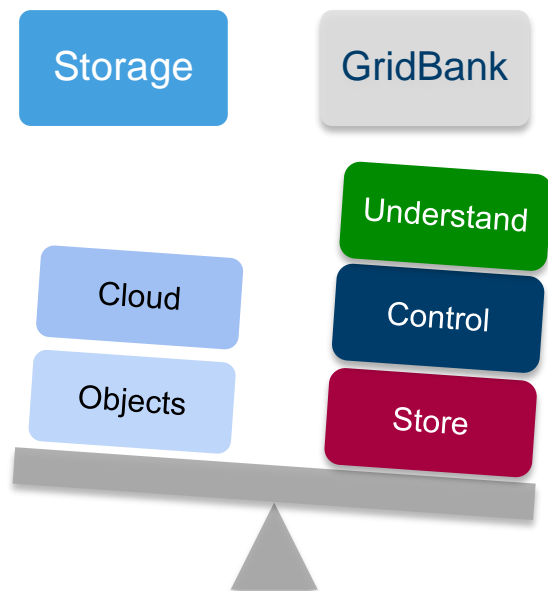
## Maximize Return on Data

- Gain business agility & improved operational efficiencies
- Big analytics integration framework for insights & decision-making
- Increasing returns to data volume; more data == more value

# GridBank Deployment Diagram



# Financial Institutions Use Cases



## Core Banking Services Provider Use Case

- Scalable, Globally Distributed Data Storage
- Archival of Billions of Check Images & Exchange Emails
- Data Compliance, Risk Mitigation
- Litigation Preparedness, Granular Legal Hold & E-Discovery

## Global Investment Bank Use Case

- Backup Optimization, Search & Discovery
- Replace Proprietary Hardware Backup Deduplication
- Index Backup Content & Store Objects as Separate Files
- Search, Discover & Retrieve Backed Up Files Individually

## Tarmin Solution

- Unified Global View of Unstructured Data
- Media Independent Storage Abstraction Layer
- Information Governance across Diverse Storage Pools
- Metadata Content Indexing for Rapid Search & Discovery



## Endorsements

"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.

"The latest capability enhancement of Tarmin's GridBank [product]  
further solidifies its innovation leadership [in the market] and helps  
banks and financial institutions to meet regulatory compliance"

Finextra Research



"GridBank's massively scalable model allows businesses to  
consolidate their data globally across silos to reduce cost...and  
enhance the value of data."

Ashish Nadkarni, Research Director, Storage Systems, IDC



# 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***



**Where Data Defines Value.™**

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