# Gain big value from Big Data - Govern the information

**Pawel Walczak** 

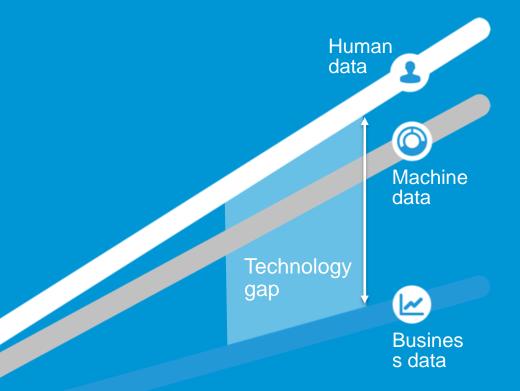
**HP Exstream** 

Robert Lejnert (mental support)

**HP Software Big Data** 

## Big Data shift

Mobile apps
System logs
Data centers
Compliance
archives
Internet of Things
Sensors
Social networking
Photo sharing
Wearable devices



→ Time



Data

## Data is your most strategic asset

Monetize

**Differentiate** 

**Personalize** 

**Monitor** 

Meter

**Optimize** 

**Predict** 

...and more









## ... but also your greatest risk



Regulate

**Comply** 



**Control** 

Secure



**Ensure** 



## **Optimizing the Big Data Balance Sheet**

Monetize
Differentiate
Personalize
Monitor
Meter

**Predict** 

Regulate Assets **Comply** Control Secure Address **Ensure** Liabilities



## Why HP Software Big Data?

Our mission is to be the trusted partner for organizations to store, explore, govern, protect, and serve information and insights that fundamentally improve the outcomes of businesses, people, and the environment, while managing risk and meeting legal obligations.

Store

Protect

Serve

Explore



#### From Big Data to Smart Data





Eliminate what is not important



Better manage what is important



Lower compliance-based risk



Automate as much as possible



## Adaptive Intelligence + Big Data

Critical to effectively address all 3 forms of data

## Annual Machine Data Growth

**Human Information** 

~100%

~10%

Sensors;
Web logs;
App logs;
event
monitors;
security
and
intelligence
systems.

**←**90% of Information-

Business Data

> ERP; CRM; EDW

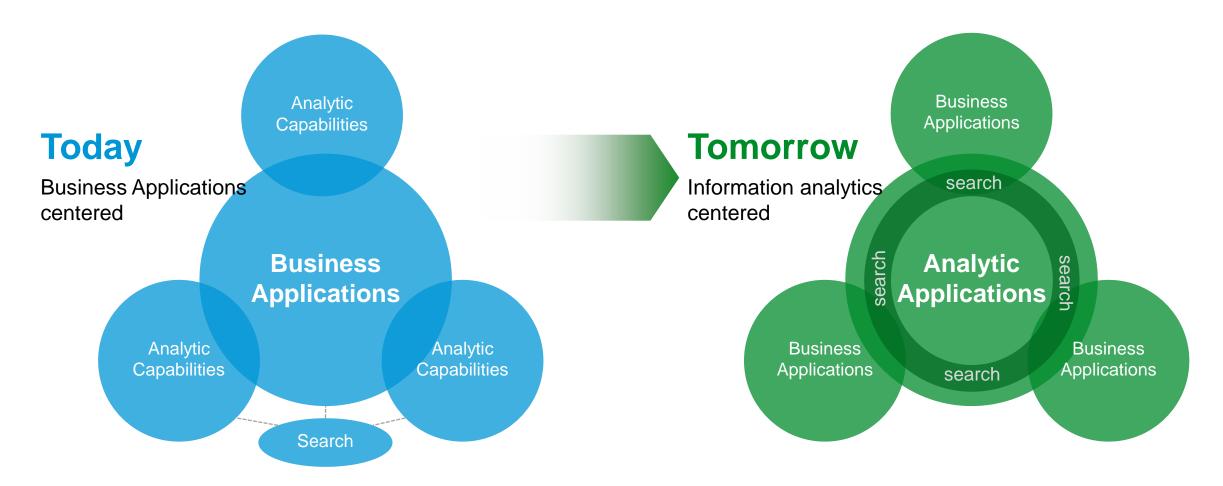
email,
social
media,
documents
and
records,
video,
audio, and
images

10% of Information



#### The next shift in computing

#### Analytics move to center.....of everything!





## Act on 100% of your information









**Find** 

**Enrich** 

Analyze

Act

news clustering. Categorization 500+ high-ROI, powerful, automated functions and services act phrase matching.

#### Enterprise











NOSQL **PORTALS EMAIL** and more



#### **External and Cloud**



Language independent

#### Language independent

app



Social media



Video



Audio



Mobile

**Documents** 





Customer communications



Email

**Transactional** data



IOT



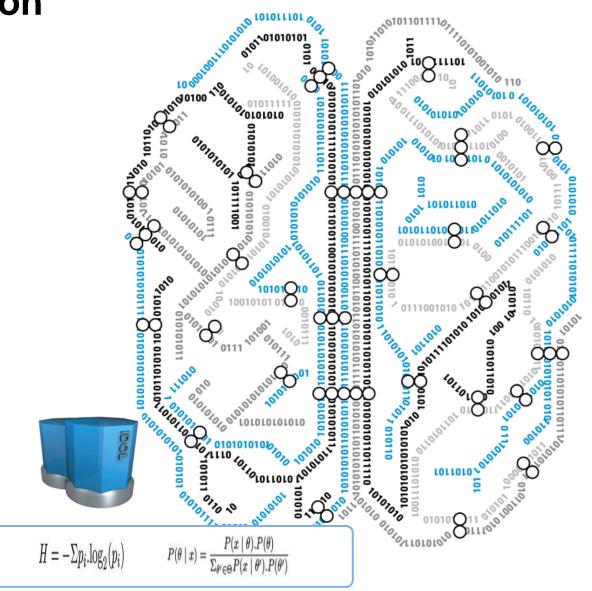
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Search engine

#### **IDOL: the OS for human information**

- Only IDOL can handle the continuum of human information
  - Single processing layer for all data
  - Continuous learning ability
  - Superior speed, scalability, and simplicity
  - Built in security and compliance functionality
  - More than 400 seamless data connectors
  - Supporting 1000+ file types
  - Language independent
  - Process data in-memory, in-time, & inplace
- Ability to understand meaning makes IDOL totally unique in the market





## Why is processing human information different?

- Human information is diverse: text, audio, video, social
- Information is dynamic
- Information is complicated
- Meaning is relative
- Ideas don't match they have distance

Keywords and metadata do not solve this problem.

The processing and retrieval of human information must be automated.

"My grandma makes the best apple pie."

"Apple will begin selling the unlocked iPhone 5 in the US tomorrow."

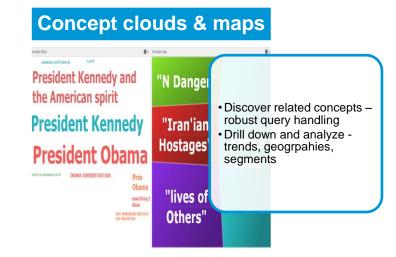
"Celebrity Gwyneth Paltrow kicked off the holiday season with a day of shopping with **Apple** and Moses."

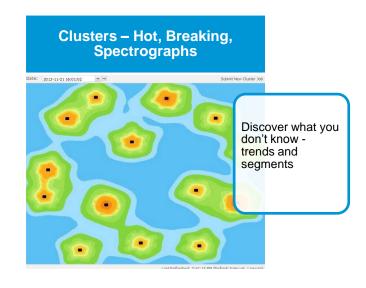


## **IDOL** – operating human information

#### Easy to use analytics for business users

# Native data enrichment Total 52 documents Total 52 documents People, places, companies Social, credit card #s, etc. Sentiment Other eduction Social media attributes – twitter # tags, followers etc









#### Scalable across languages & documents



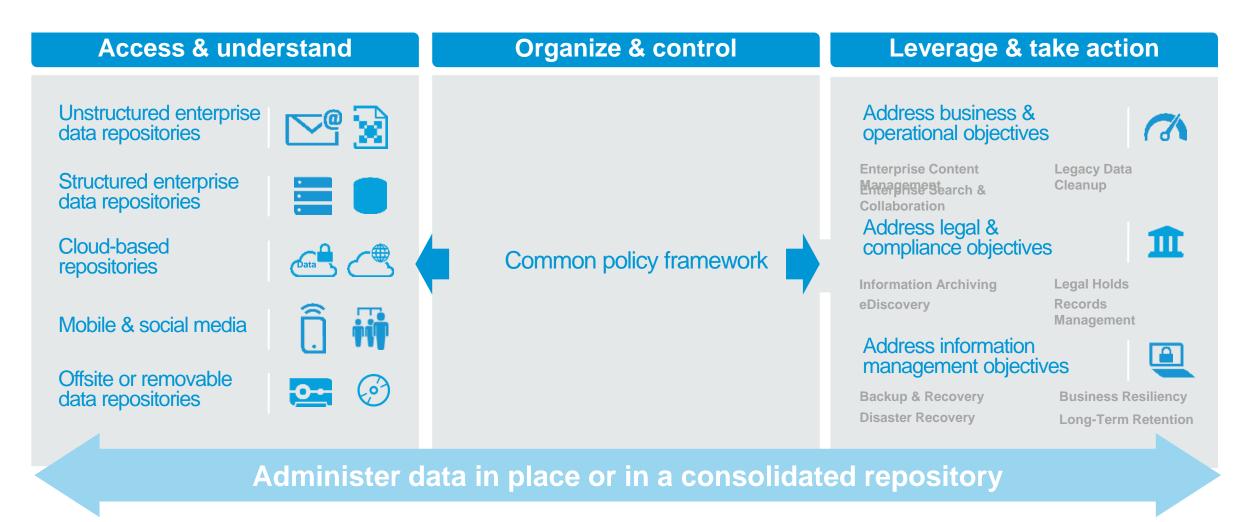
- Language & industryagnostic (statistical algorithms vs NLP)
- In-memory indexing (Fast!!)

#### **Enterprise-grade**

- Secure (cloud & on-prem)Worflows, roles &
- permissions
- Engagement
- Alerts, automation



## Managing risk and meeting governance requirements





## HP SW BigData family, powered by IDOL

#### **Information Management & Governance**

#### **Information Optimization**

## Data Protection

Server Data Protection
Virtual Server Data
Protection
Remote & Branch
Office Data Protection
Endpoint Device

## Information Archiving

Compliance
Storage Optimization
Database Archiving
Policy Management
Supervision

#### **eDiscovery**

Litigation Readiness
Policy Management
Legal Hold

## **Enterprise Content Mgmt**

Policy-Driven Info Mgmt
Legal Content Mgmt
Business Process Mgmt
Document Mgmt
Records Mgmt
Workflow Automation
Legacy Clean Up

#### Exstream

Customer Communication Mgmt

#### Aurasma

Augmented Reality

## Marketing Optimization

Digital Experience
Mgmt
Web Optimization

Search Engine Marketing

Marketing Analytics
Contact Center Mgmt

Rich Media Mgmt

## Unified Information & Analytics

Voice of the Customer Video Surveillance Big Data Analytics Enterprise Search

Knowledge Mgmt

Content Access
& Extraction

Software Cloud

**Data Protection** 

## IDOL the Oshuman brmation

Hybrid OEM

Big Data

Cloud

**Mobility** 

**Security** 



# WorkSite The Electronic Project / Matter File

Unify information in context, for enhanced productivity and service delivery

#### Unified digital "project" files

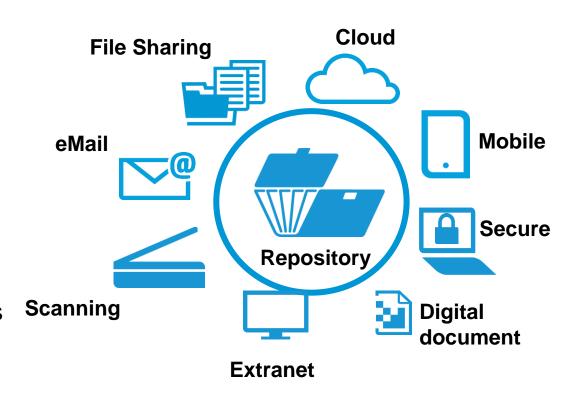
- Metadata and security inheritance
- OCR and search

#### Access from any device, anywhere

- Web portal for partner access
- Full mobility client
- Mobile cloud file synch and share

#### Secure, automated, comprehensive

- Security, audit trails cloud and on-premises
- Notifications for edits and new documents
- Fully integrated with RM, BPM, capture





## **HP ControlPoint**

#### Gaining control over all enterprise content

#### Approach

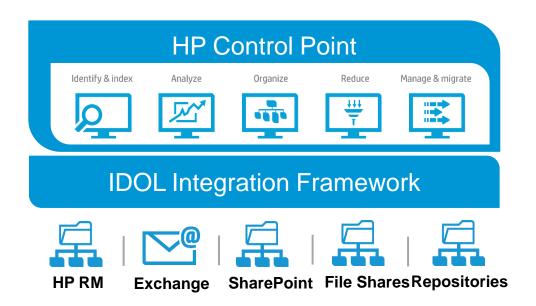
- Identify, classify, assess content for value & risk
- Ability to take action for cost /risk reduction, better compliance
- Consistent, automated policy –driven approach across multiple repositories

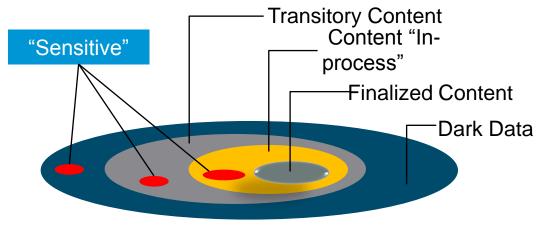
#### Benefits

- Reduce Information footprint for cost & efficiency
- Improve eDiscovery Readiness
- Protect and secure sensitive information (e.g. PII, PHI)
- Automate Records Classification
- Improve compliance and defensible disposition

#### Offerings

- Legacy Data Cleanup Assessment Service
- Information Governance for SharePoint

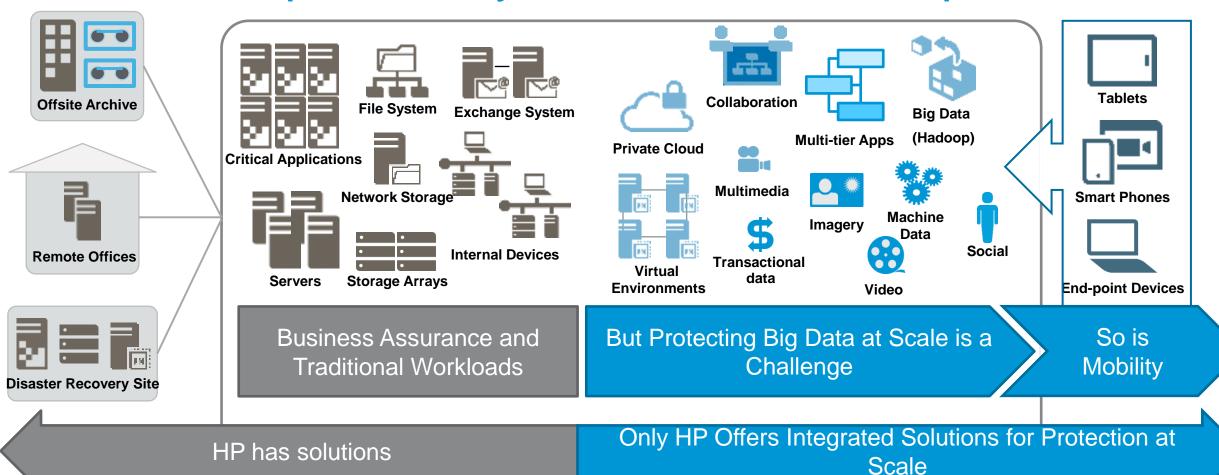






#### Protecting today's enterprise

#### Traditional backup and recovery remains architected for the past

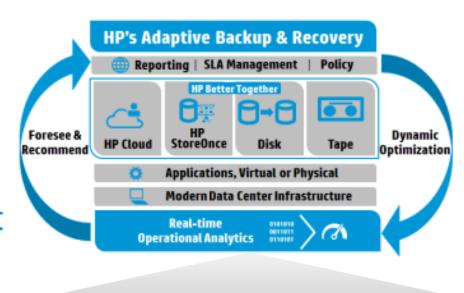




## **HP Data Protector software**

Rethinking backup and recovery for the modern data center

- HP StoreOnce™ Federated Deduplication
- Breakthrough Scalability and Performance
- Enterprise Application Protection
- Comprehensive Virtual Environment Support
- Extensive 3<sup>rd</sup> party device support
- Enhanced Automated Disaster Recovery



**Data Protector** 



## **HP Consolidated Archive**

Solving business issues

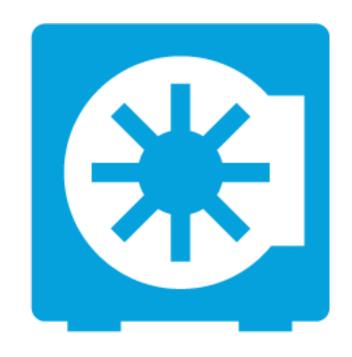
Unified information archiving – Mitigate risk with access to virtually all data types and repositories ensures defensible policy management

Intelligent data insight – Gain rich data visibility and knowledge to understand its value

Storage optimization - Comprehensive data lifecycle and storage management help reduce the overall storage footprint

Advanced search and analytics – Respond more quickly with efficient identification of critical, responsive data

End-to-end platform - Integration with the HP Information Governance Portfolio to ensure complete data management and total value





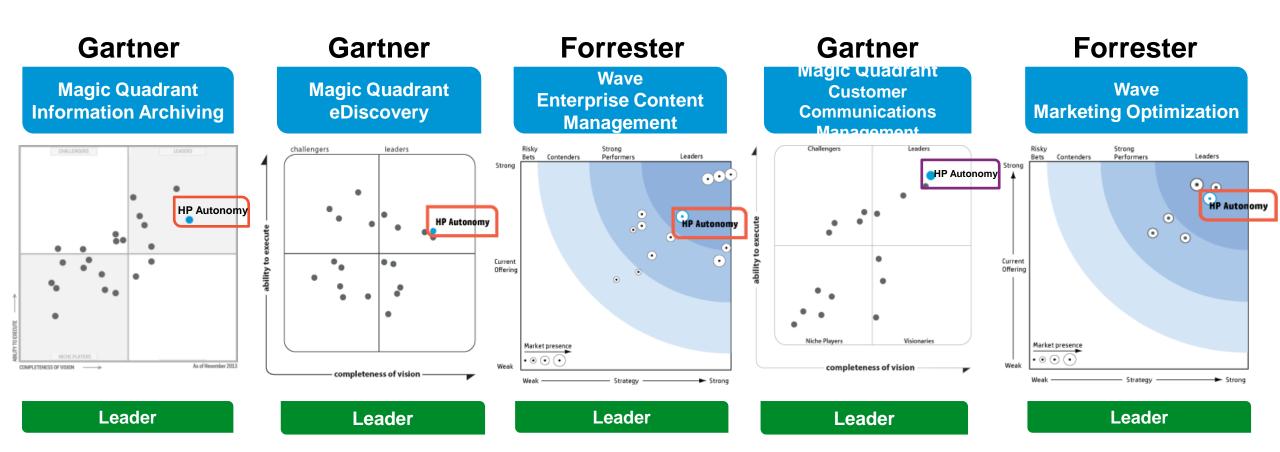
#### **HP Consolidated Archive - Features**

- Archive device support: HP Storeall, Cloud, EMC Centera, NetAPP, Hitachi, NTFS, etc.
- Supports Journal or mailbox capture for Notes, Exchange, GroupWise
- Retention management set by user/group, content type or folder
- User/group management support for LDAP directory services and IDOL Community server
- Unified UI for administration across all archiving tasks
- Web-based archive search HP CAmail
- Integration with IDOL platform (including connectors for additional content type)





#### Leading solutions across industries

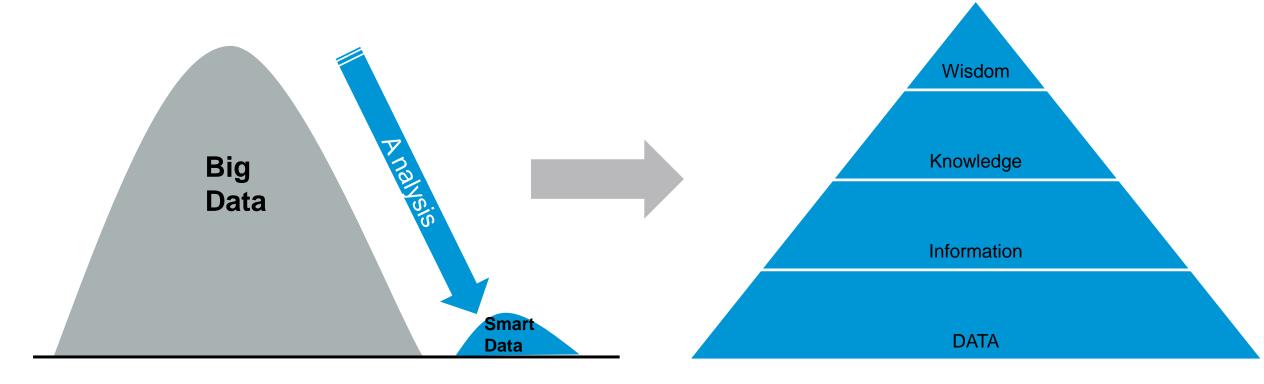


"HP has particular strengths in the areas of records management, information governance, and eDiscovery, drawing on solid technology from both the HP and Autonomy product teams." - Forrester



#### The Era of smart data has arrived

A unified data analysis for all Information



For the first time in the IT industry, there is a fundamental shift from the "T" to the "I": information management is the new source of competitive advantage.



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## Thank you

