

EXPO & CONGRESS 2019

4. UND 5. DEZEMBER FRANKFURT KAP EUROPA

"Tomorrow Comes Today"



Alvin Tedjamulia
CTO & Co-Founder
NetDocuments

Who is NetDocuments?

netdocuments[®]





2700 Firms

Cloud Only Deployments



9.1 Billion

Files stored and protected globally



556K+

Registered Cloud Users



Safe

Ready



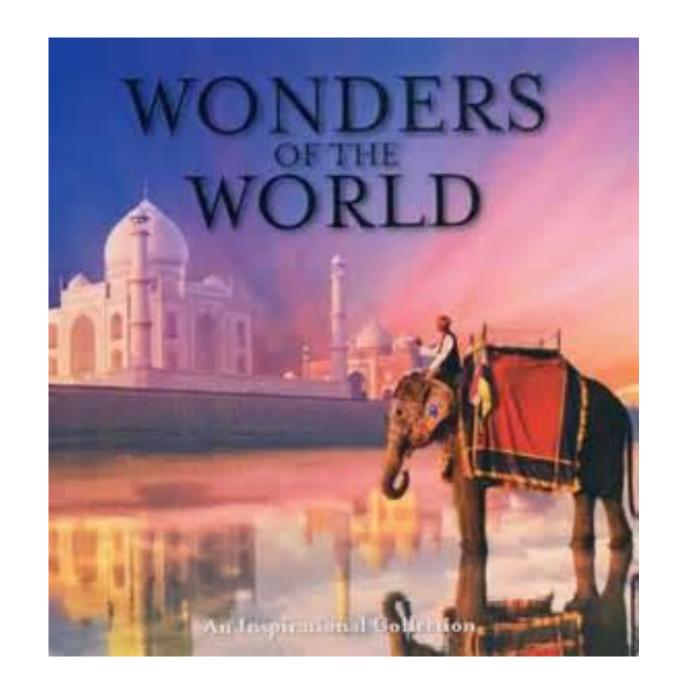
31%

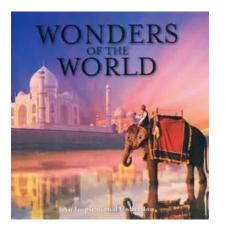
Growth Yr. over Yr. Average New 2.3 Firms per Day



"Tomorrow
Comes
Today"

Seven
Wonders
of the
World











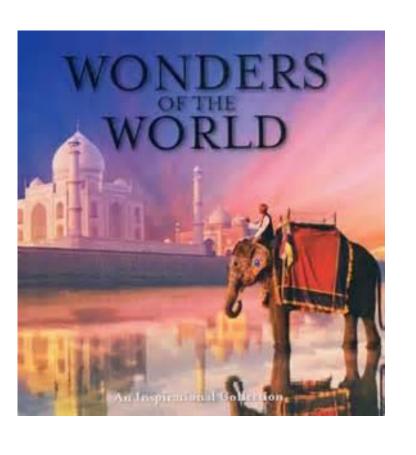








Tomorrow Comes Today

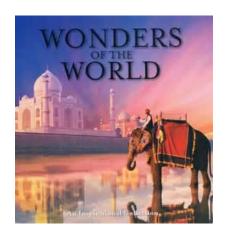


7 Wonders of the World

- 1. Taj Mahal, India
- 2. Borobudur Temple, Java
- 3. Cristo Redentor Statue
- 4. Sydney Opera House
- 5. Stonehenge, England
- 6. Great Wall of China
- 7. Pyramids of Giza, Egypt

7 Wonders of the DMS World

- 1. Cloud Technology
- 2. Cryptography
- 3. High Adoption
- 4. Predictive Email
- 5. Collab & Productivity
- 6. Data Sovereignty
- 7. Triple Datacenters

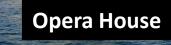








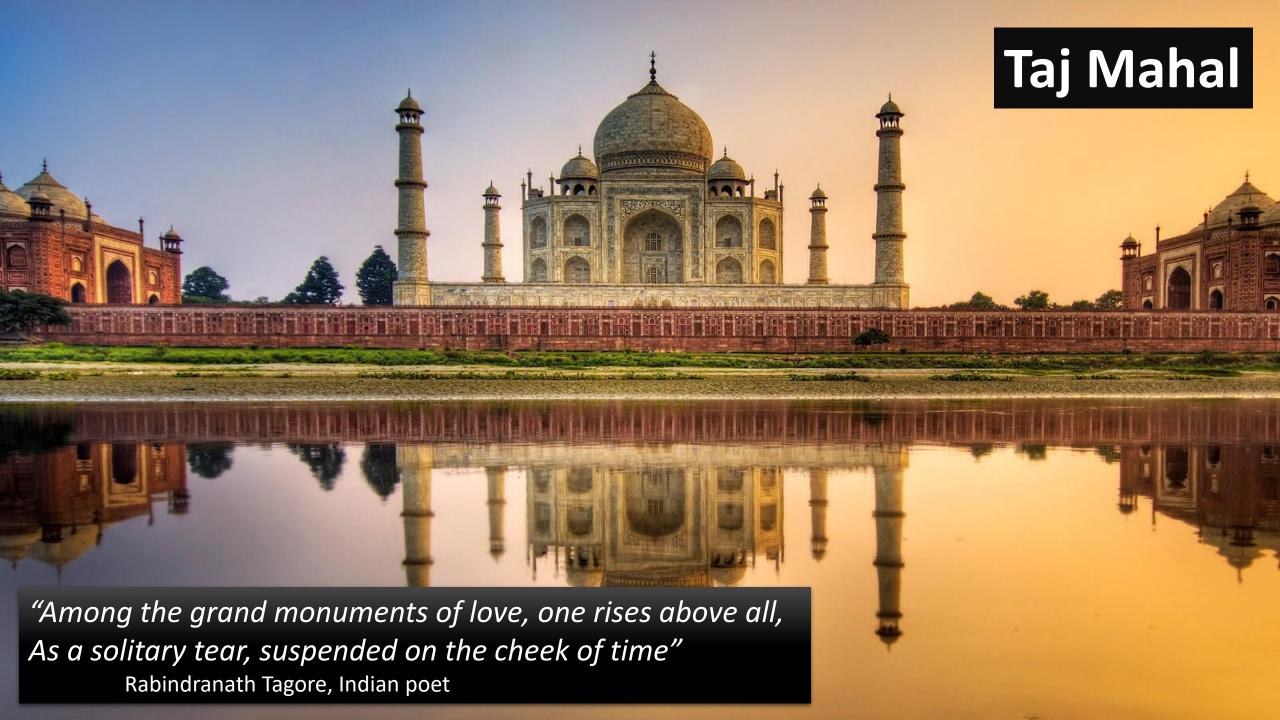
Great Wall





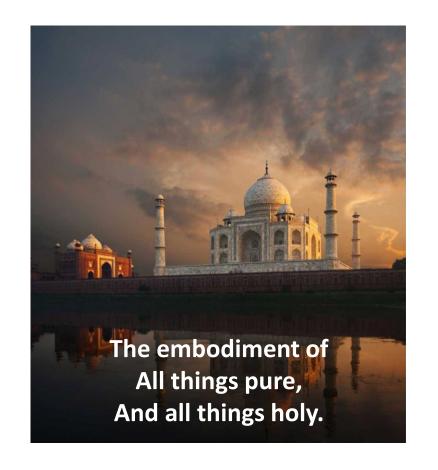








Taj Mahal commissioned in 1632 by Emperor Shah Jahan to house the tomb of his wife Mumtaz Mahal at the equivalent cost of today's \$900 million dollars. Its construction took 22,000 workers, 1000 elephants, and 22 years to complete.



Taj Mahal

The Crown of Palaces



For Law Firms & Legal Departments

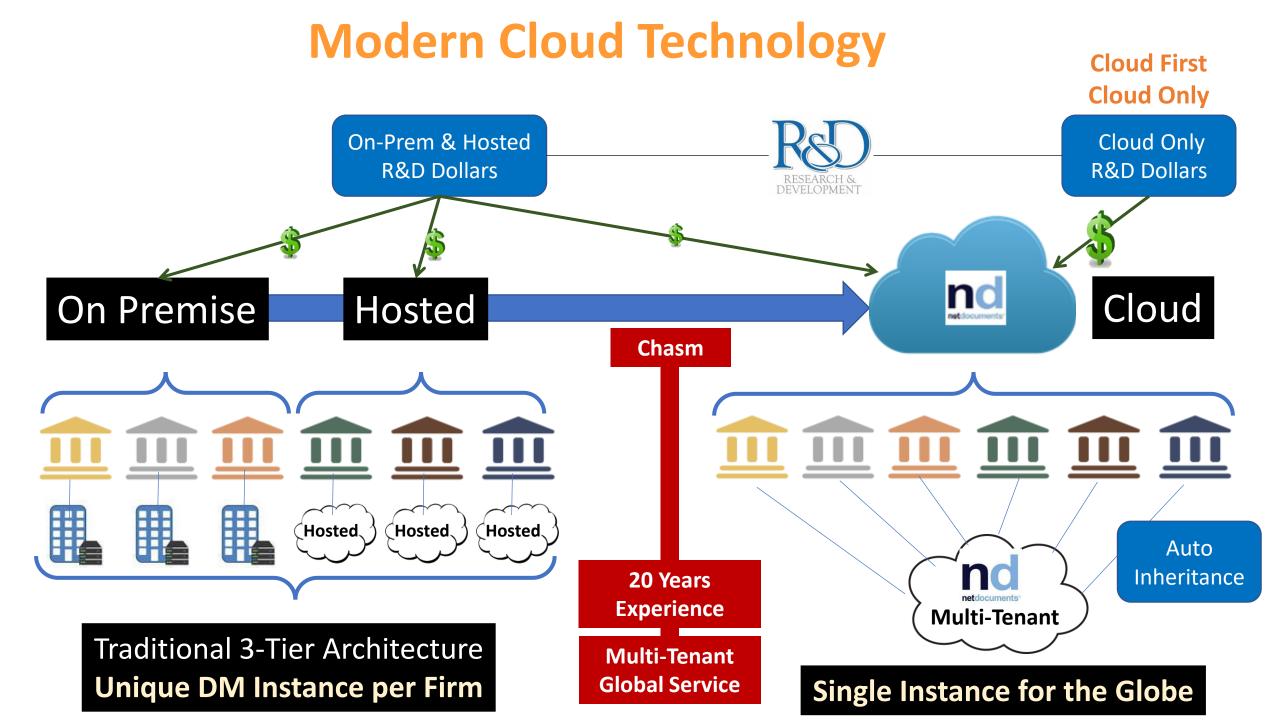
Document Mgmt belongs in the Cloud

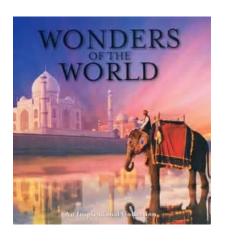


The Taj Mahal belongs in the Cloud











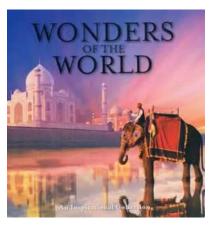




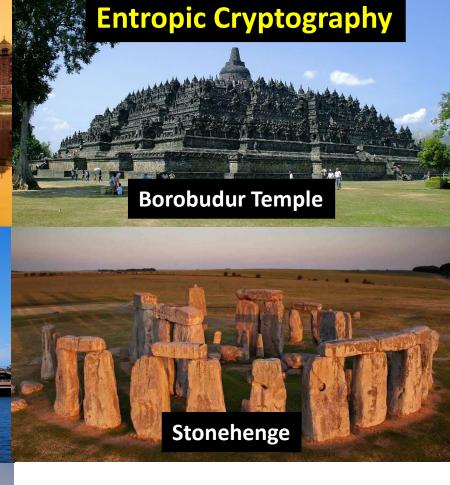
Great Wall











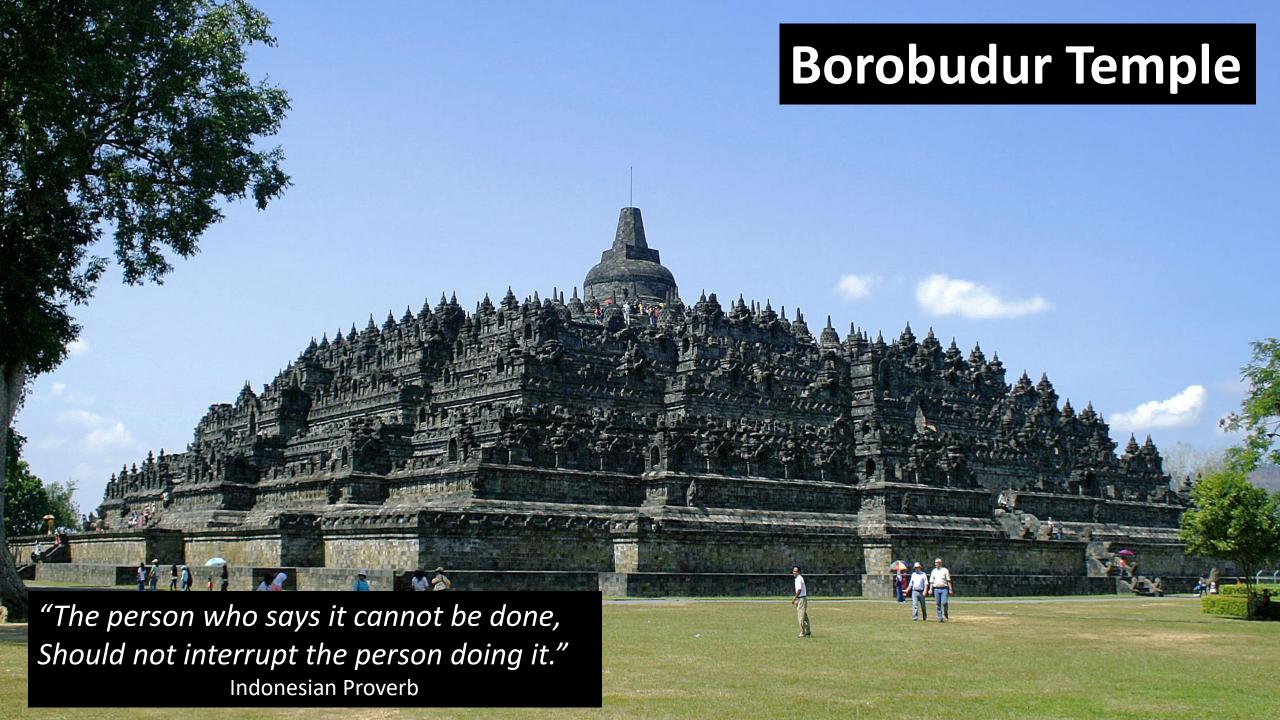


Great Wall



Opera House







Built 9th Century, worlds largest Buddhist monument. With 2,672 relief panels, 504 Buddha statues, represents ascend of mankind until reaching Nirvana. Worlds: Desires, Forms, Formlessness in 1,460 narratives. <u>Hidden for centuries</u> under volcano ashes & jungle Rediscovered by Thomas Raffles in 1814

The Borobudur Temple, hidden for centuries by:

Jungle Ashes Time Fear

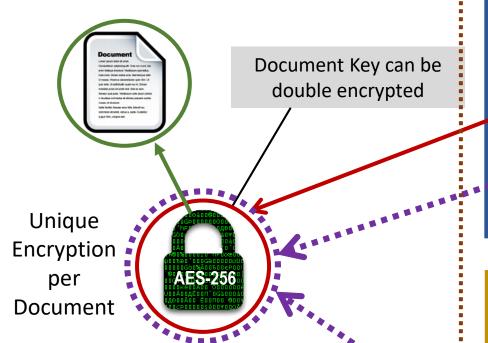
Cryptography

Documents & Emails, hidden by Security and Entropic Cryptography





Modern Cloud Security



Goals:

Silent Subpoena Defense

Protection against Self

Defense Nation State Attack



FIPS 140-2 **LEVEL 3**

Crypto Processor & Tamper Resistant Keys won't work outside HSM

NetDocs Shared HSM





Master Key

Owned by Cloud Provider

Dual Custody Cryptography



Matter Workspace Key

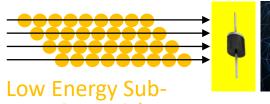
Owned by the Firm

2

Firms'
Private
HSM



Quantum Random Number Generator









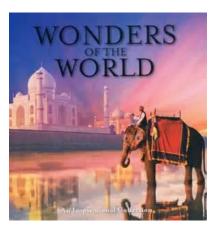


itum Entropic nel Randomness

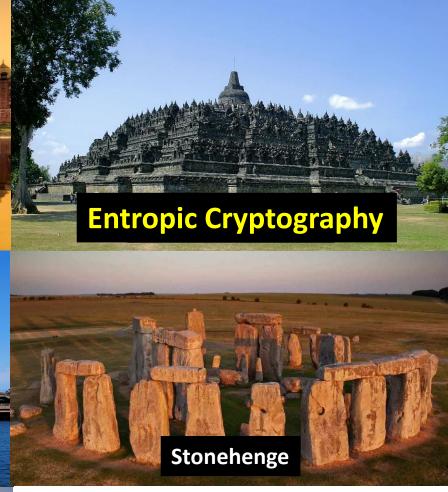
Matter Workspace Key

Owned by the Firm

Unique by Matter







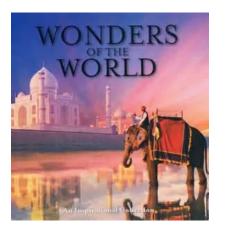


Great Wall



Giza Pyramids











Great Wall



Opera House



Cristo Redentor Statue (Rio de Janeiro, Brazil)





Built by French Sculptor Paul Landowski And Brazilian Engineer Heitor Silva Costa in 1922 700 tons located at Corcovado Mtn at 2,300ft

Many Ul's – One DM Experience

Meeting Where You Work

Browser iOS Office 365

Office Android WebDay

Outlook Folders Mac

High User Adoption



Cristo Redentor in Rio Hosting:

- 2014 World Cup
- 2016 Summer Olympics
- 2016 Para-Olympics

Many Nations, Many Games, One Olympic Experience



Cloud DM Customers with near 100% Adoption

Active Users / Total Users







CUATRECASAS, GONÇALVES PEREIRA

1800/1800 users



1023/1050 users





Snell & Wilmer

915/970 users



650/680 users



TRAVERS SMITH

702/702 users







1115/1198 users



521/**521** users



340/354 users





Dirkzwager

291/314 users



558/565 users



391/400 users



432/465 users

Modern DMS: Human Friendly Platform







High Adoption Rates











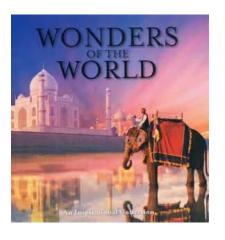


We meet you work

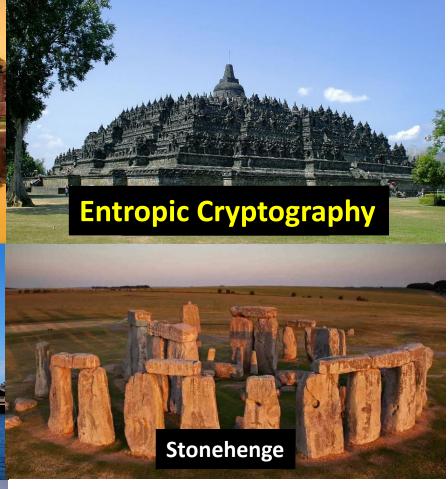






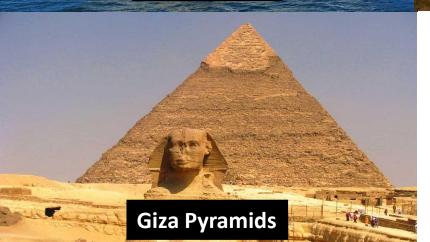






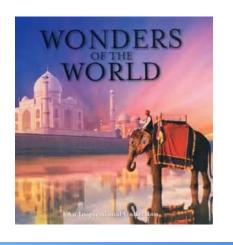


Great Wall



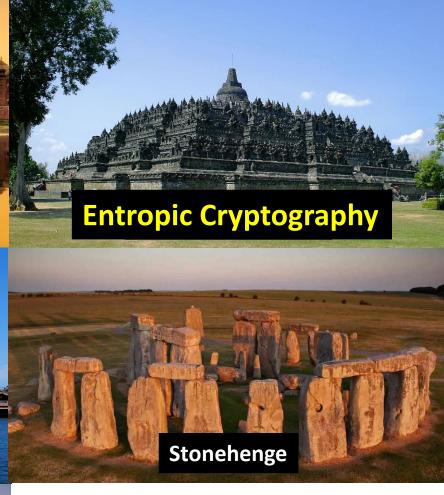
Opera House







Predictive Filing





Great Wall



Giza Pyramids









Designed by architect Jorn Utzon, the building was opened in 20 Oct 1973, and it hosts 1,500 performances annually attended by 1.2 million people.

Predictable Wind Patterns in Sydney Harbor

Modern DMS: Predictive Email Filing

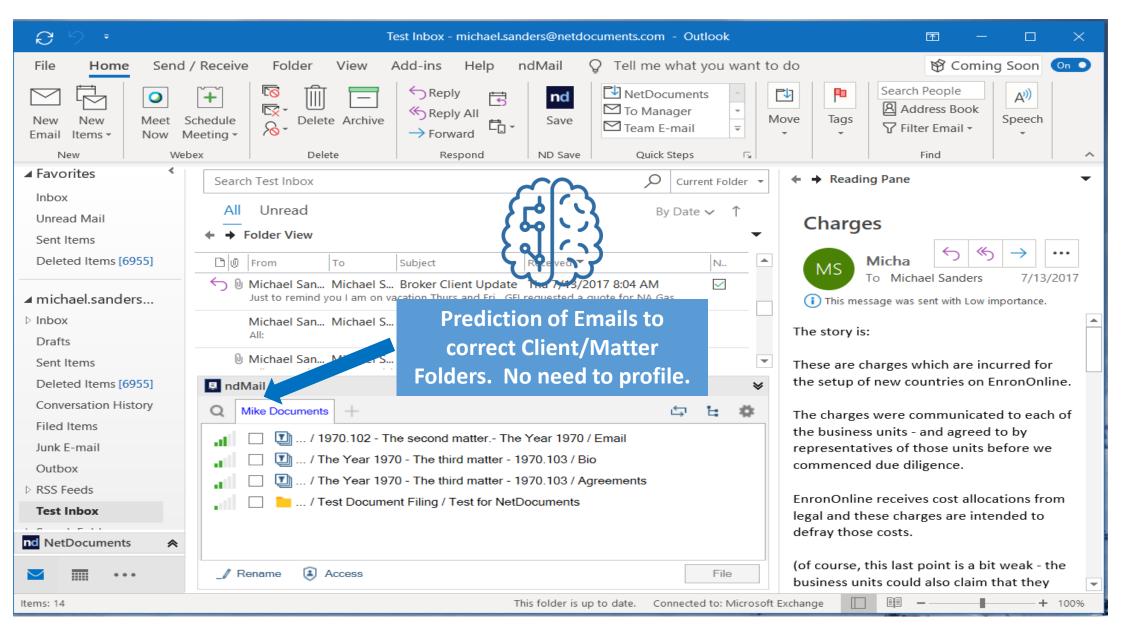
What does the building remind you of?

Sails on a sail boat in the Sydney Harbor





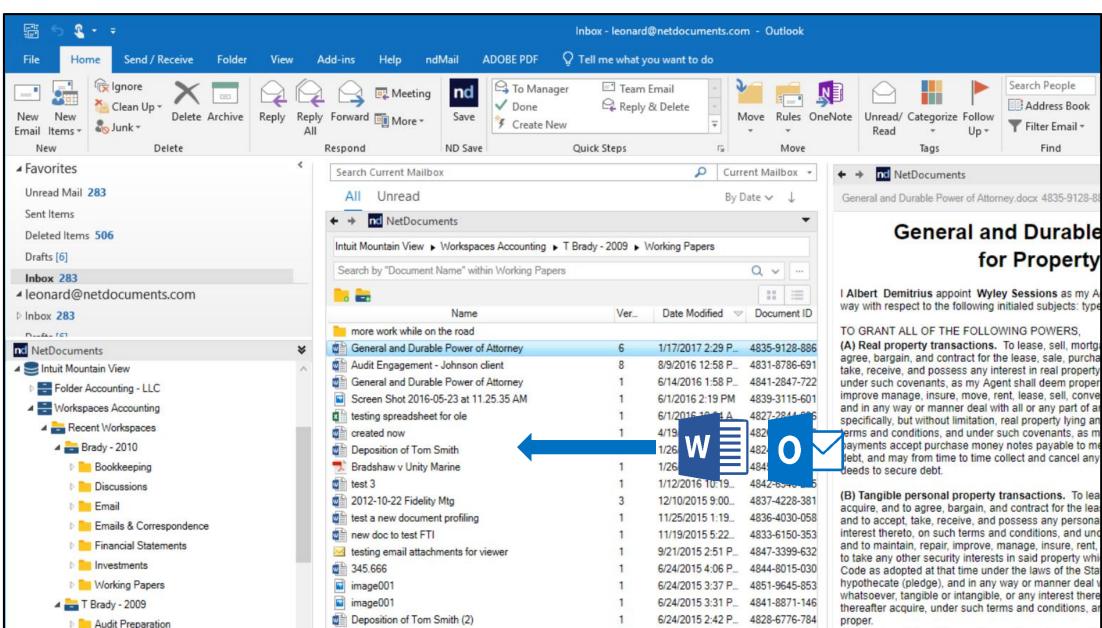
Predictive Email Filing



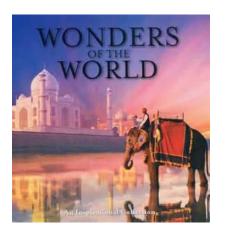


Documents & Emails in Outlook

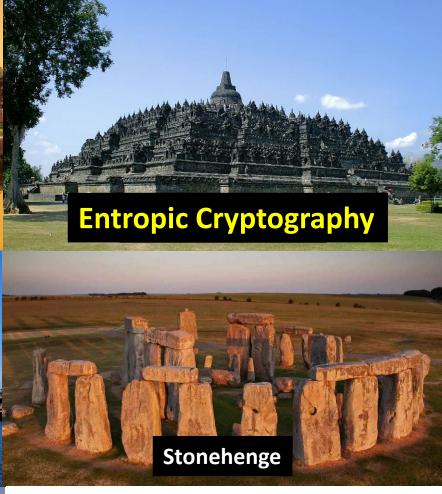












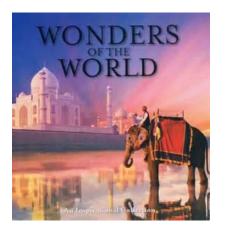




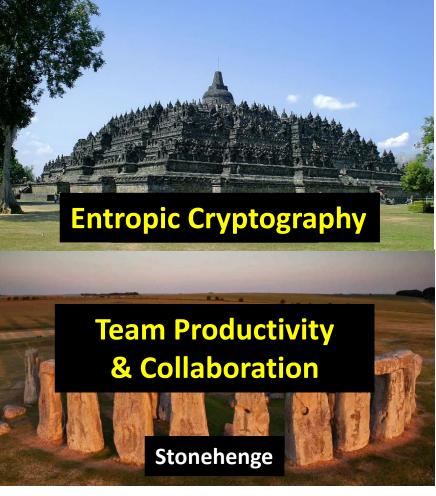












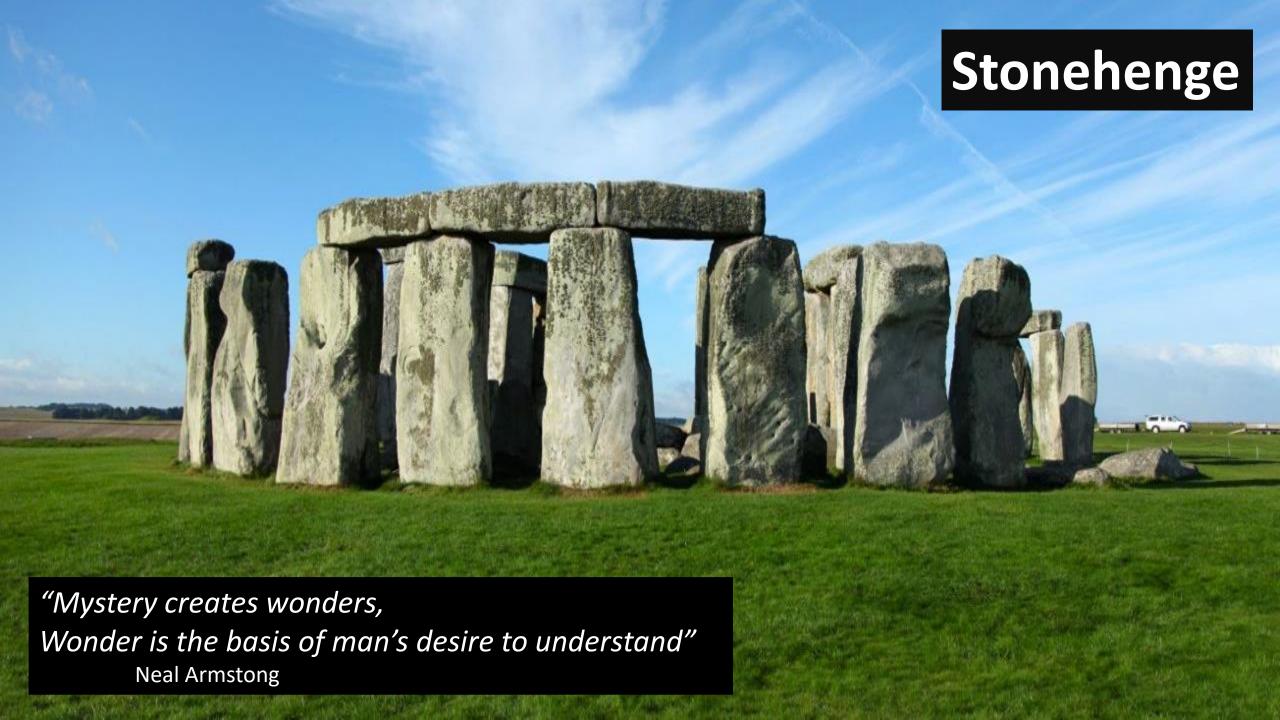


Great Wall



Giza Pyramids







Stonehenge

Monument in celebration of Collaboration

Collaboration & Team Productivity

Collaboration for Legal Profession

Located in Salisbury, England, part of a 10,000 year old continuously evolving sacred landscape. Its bluestones come from west Wales (240 miles away). Recent studies with ground penetrating radar & magnetometer suggest it marks the "unification of Britain," a place where people from all parts of the island would together hunt, work, bury their deceased noblemen, and build a massive complex monument of Collaboration. Source: http://www.livescience.com/22427-stonehenge-facts.html





Enabling Your Best Work



Collaboration & Team Productivity

- Discussions
- CollabSpaces
 - KM Dynamic Profiling

Tasks

- SetBuilder
- Workspace Portals

- Annotations
- Signatures
- ETC





Document Management System

- Docs & Emails
- Workspaces
- Ethical Walls

- Organization
- Version

Ransomware

Search

• OCR

Compliance



"Work on Documents"



Safe

Cloud Platform

- Datacenters
 - Blockchain
- Authentication
- Search Engine
- ndFlexStore
- Content Server
- HSM & FIPS
- Cryptography
- Object Store

Document Management Services (DMS)

Capture

- **Microsoft Office**
- **Email Outlook**
- **Mobile Devices**
- **Browsers**

Organization

Workspaces

Cabinets

Folders

Profile

Control

- **Approvals**
- Echo
- Download
- Recovery

Application

Distribution

- **Geo-Aware Storage**
- **Alerts**
- **Attachment Mgmt**

Search

Profile

Content

Entities

Taxonomy

Content Server



Safe









Platform

Security

- **Access Control**
- **Ethical Walls**
- Cryptography

Management

- **Version Control**
- **Access History**
- **Administration**

Collaboration & Team Productivity (CTP)

E-Signatures

- **Esign Capture**
- **Blockchain**

Colaboration

- **CollabSpaces**
- **Extranets**
- **Secure Delivery**

Communication

- Threads
- **Annotations**
- **Mobile Devices**

Application

Tasks (Kanban)

- To-Do, Doing, Done
- **Project Status**

Set Building

- **Binders**
- **Templates**
- Final PDF w/Hyperlinks



Safe



Ready





Proven

Organization

- **Cabinets**
- **Folders**
- Workspaces
- Profile

Platform

Security

- **Access Control**
- **Ethical Walls**
- Cryptography

Management

- **Version Control**
- **Access History**
- **Administration**

Profile

Search

- Content
- **Taxonomy**
- **Entities**

How to Unify DMS with CTP?

Documents Collaboration

DMS CTP

Organization

- Cabinets
- Folders
- Workspaces
- Profile

"Matter-Based Collaboration"

Security

- Access Control
- Ethical Walls
- Cryptography

Management

- Version Control
- Access History
- Administration

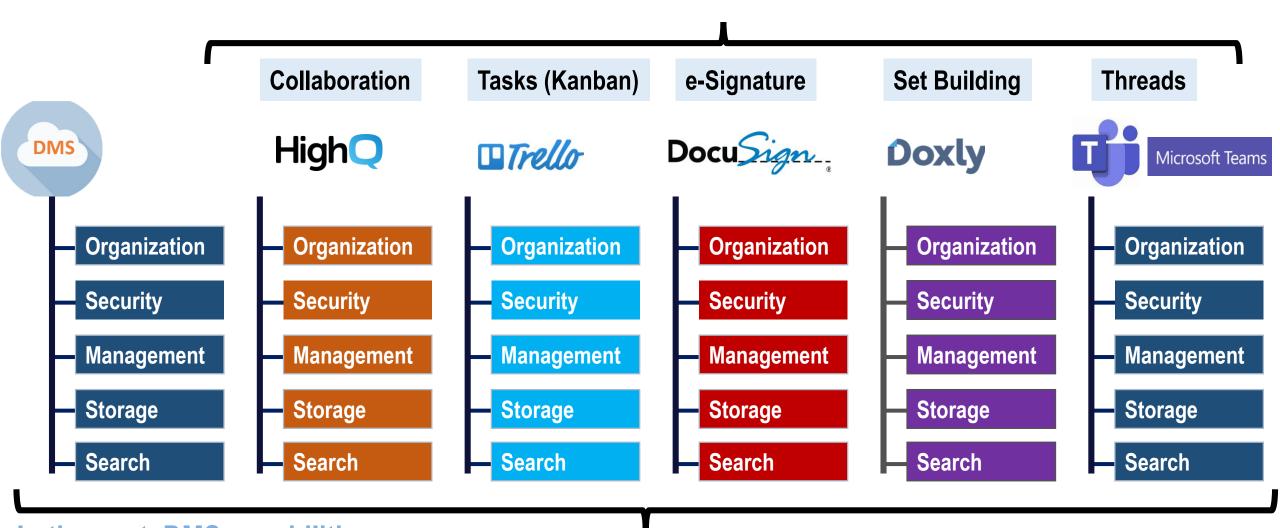
Common Platform

Search

- Profile
- Content
- Taxonomy
- Entities

Challenges for Implementing "Matter-based Collaboration"

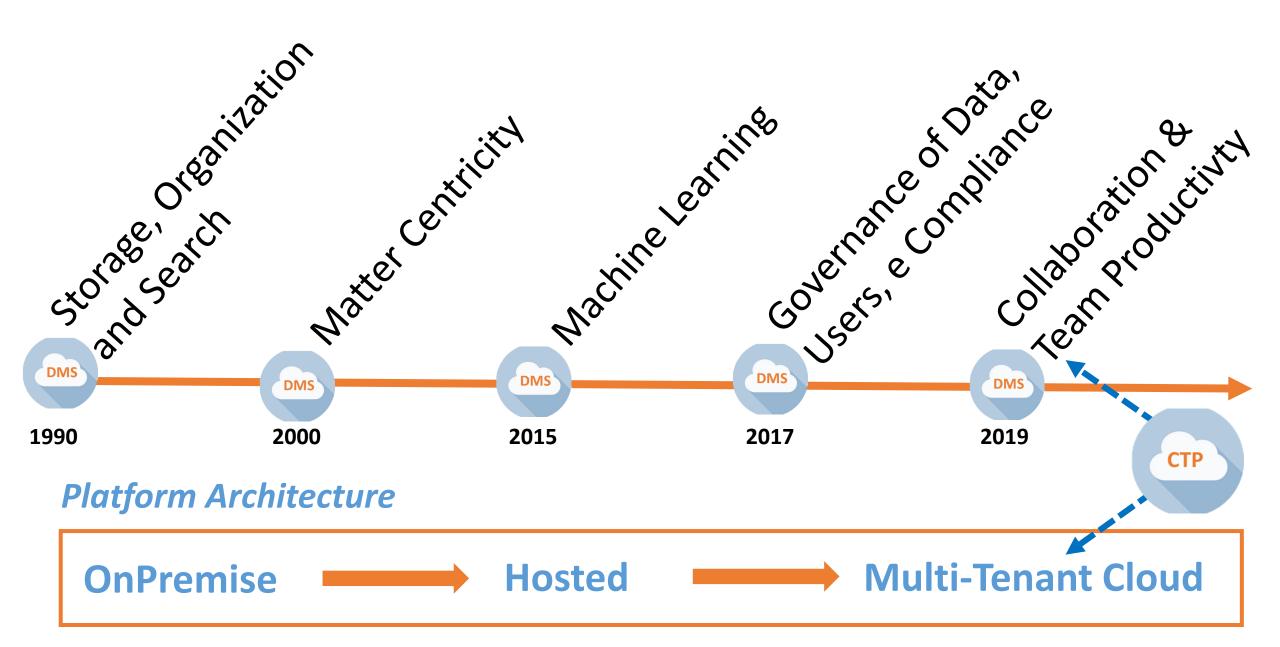
Hundreds of Specific Offerings – None a Complete Collab & Team Productivity



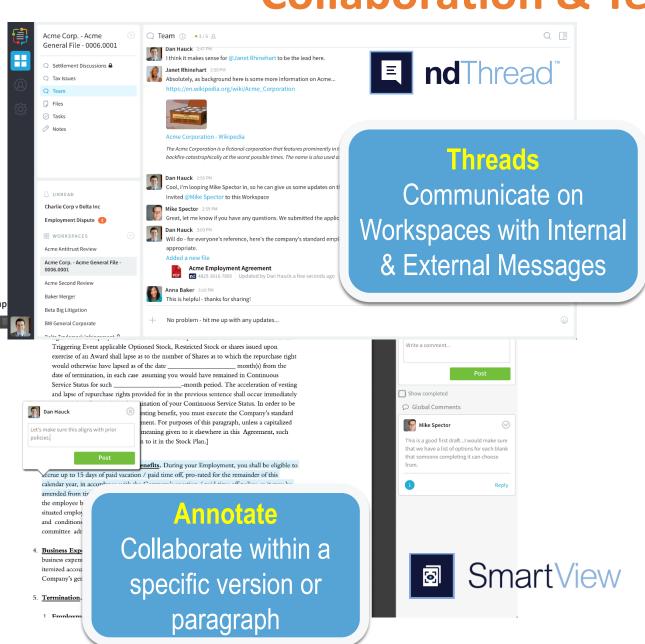
In the past, DMS capabilities for CTP were limited

Incompatible Platforms

DMS Evolution



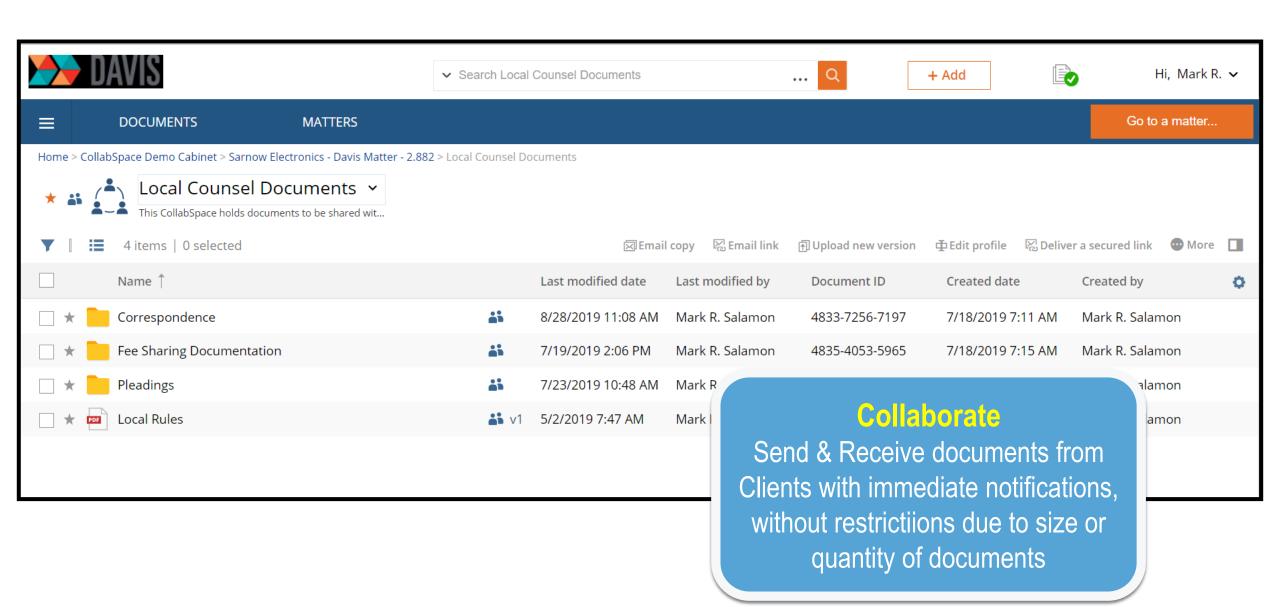
Collaboration & Team Productivity





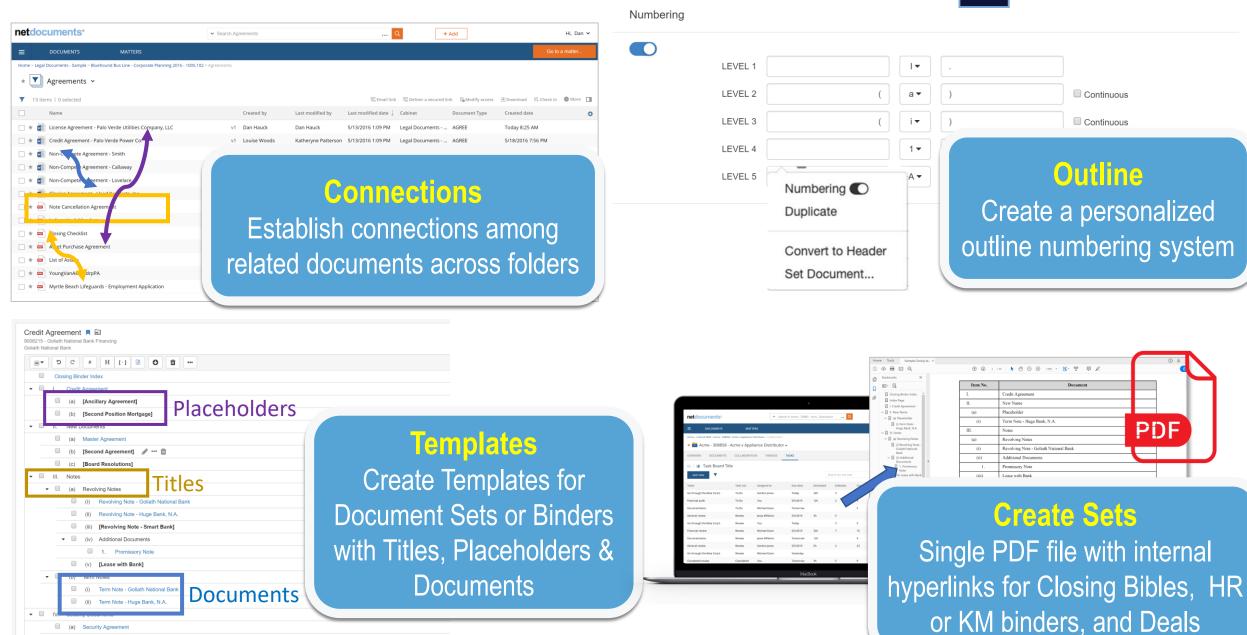


Internal & External Collaboration



Create Document Sets

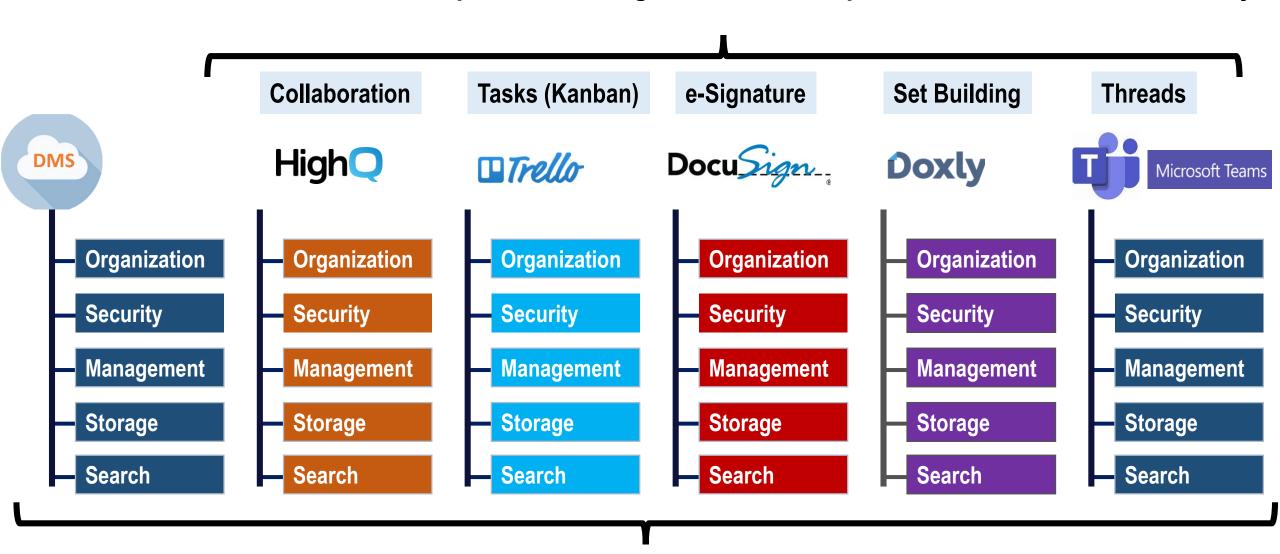




(a) Security Agreemen

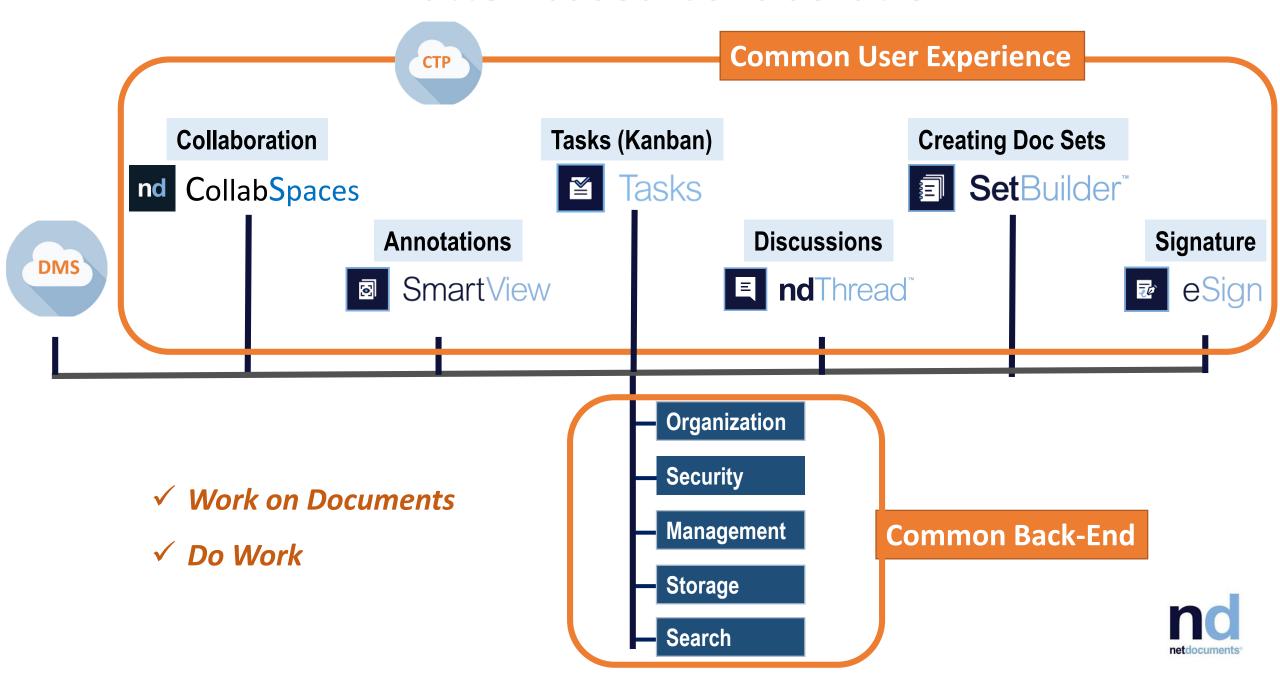
Challenges for Implementing "Matter-based Collaboration"

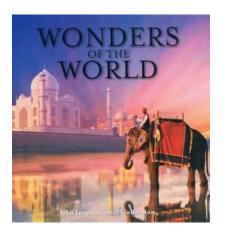
Hundreds of Specific Offerings – None a Complete Collab & Team Productivity



Incompatible Platforms

Matter-based Collaboration











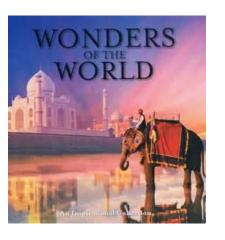
Great Wall













Predictive Filing



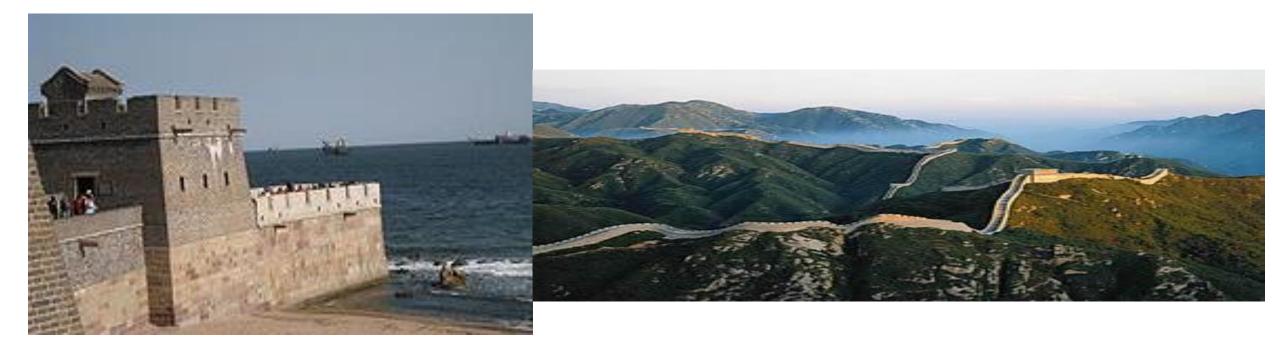


Data Sovereignty & Single Global Library









21,196 km (Main wall & branches)
Started 7th century BC, Unified 3rd century BC
2000+ yrs to build, largest human project ever
1 million people died during its construction

Great Wall of China

- Perimeter Defense
- Isolation

Great DMS Walls

- Ethical Walls Need to Know
- Data Sovereignty Walls

Modern DMS: Geo Aware Service



NetDocuments Global or Regional Storage

1. United States New:

2. United Kingdom Central Europe

3. Australia *2019 or early 2020*

NetDocuments Azure Regional Storage

4. Canada 12. South Korea

5. Germany 13. Brazil

6. Netherlands 14. India

7. Ireland 15. France

8. Singapore 16. South Africa

9. Hong Kong 17. Switzerland

10. China 18. UAE

11. Japan 19. Norway

NetDocuments Customer Managed Storage

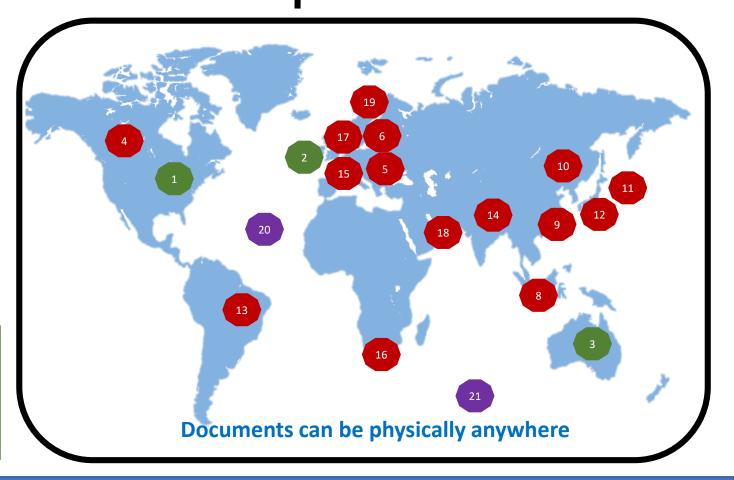
20. Anywhere at Firm's Location

21. Anywhere at Client's Location

Work as One



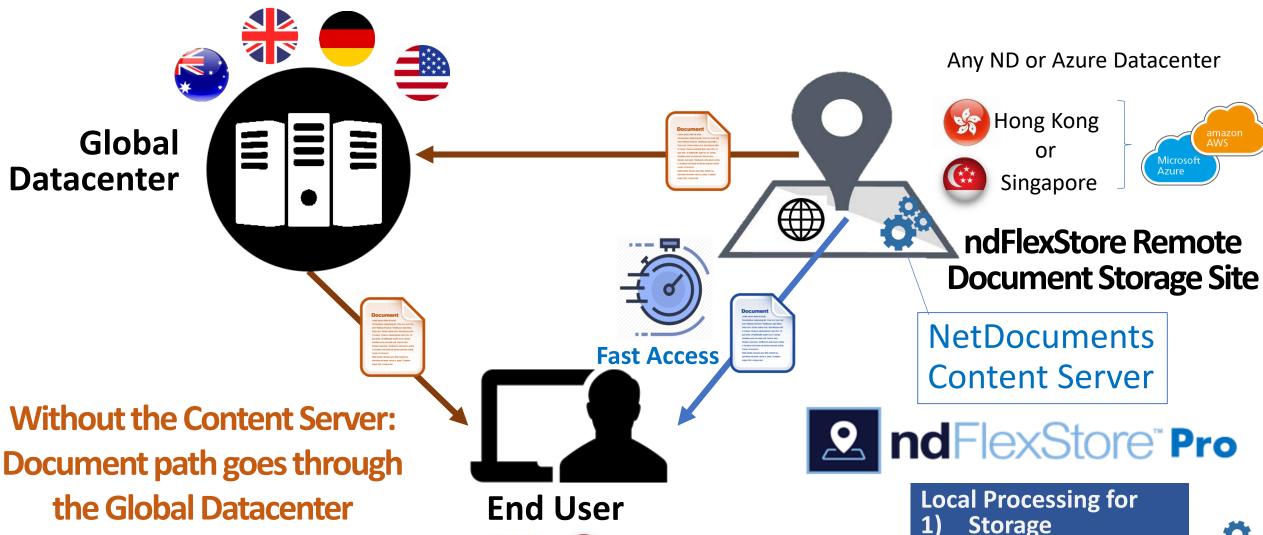
One Global Library
One Firm-Wide Search Index
One Workspace Infrastructure



Geo Aware Storage



ndFlexStore Pro



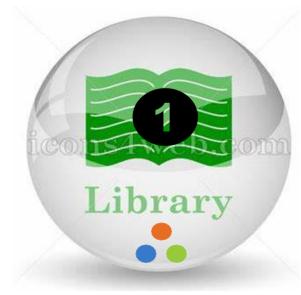


Reads & Writes

First Encryption Last Decryption

NetDocuments – High Performance Global Sovereign Access





One Global Library "One Firm"

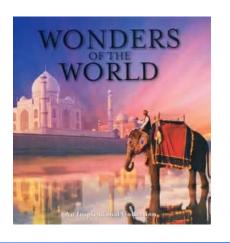




Shrink the World



THE POWER OF ONE



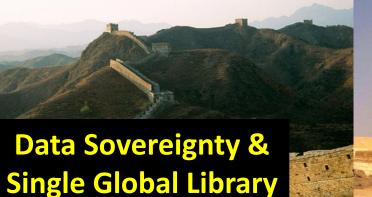






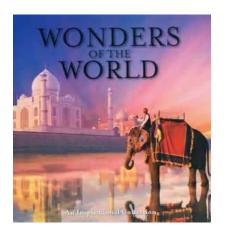
Data Sovereignty &











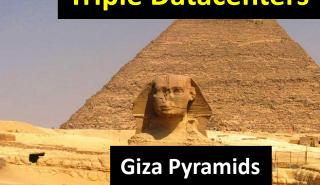














Data Sovereignty & Single Global Library





Khufu, Khafre, Menkaure, Finished 2540 BC (Khufu)
Oldest of the 7 wonders of the ancient world,
but only one still standing
Tallest man-made structure for 3800 years

Triple Pyramids of Giza

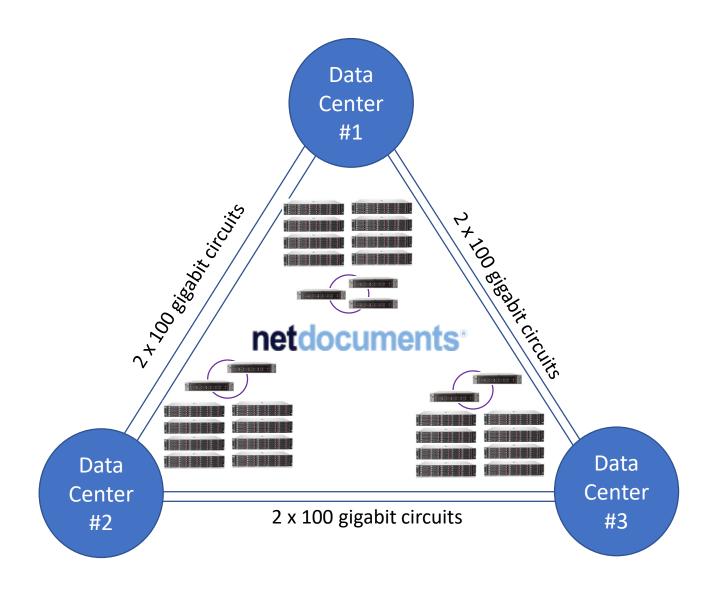
One of the World's 7-Wonders for 4500 Years

Triple Datacenters

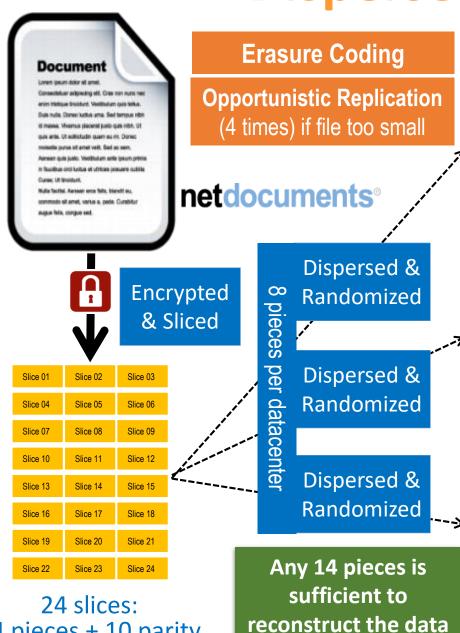
Software Defined Datacenters for DMS Service.



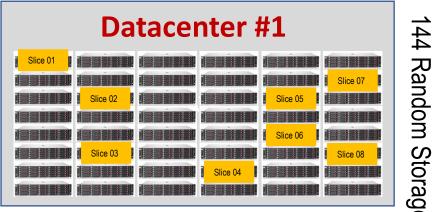
Triple Datacenter Configuration

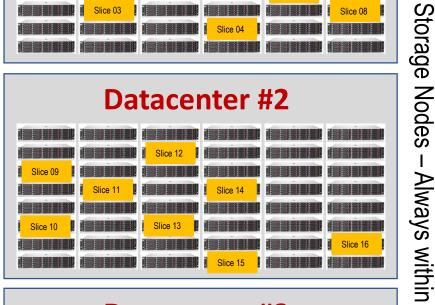


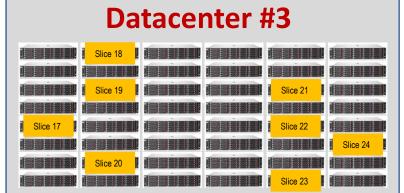
Dispersed Object Technology



14 pieces + 10 parity







Benefits

Extreme Scalability

Trillion Document Repository

Hyper High Availability

99.99999999% up time

Data Self Healing

Bit Rots, Bit Flips Slice & File Corruption

Security

മ

single Country

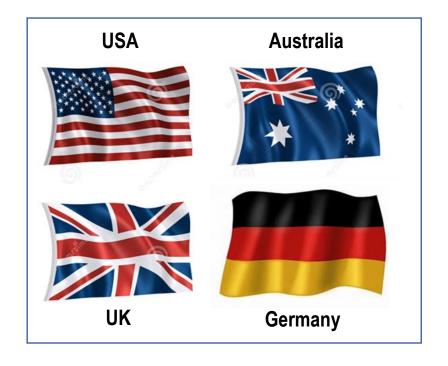
- Single Datacenter breach is inconsequential
- Non-enumerated and Randomized file system
- Hidden from Systems Admins

German Datacenters





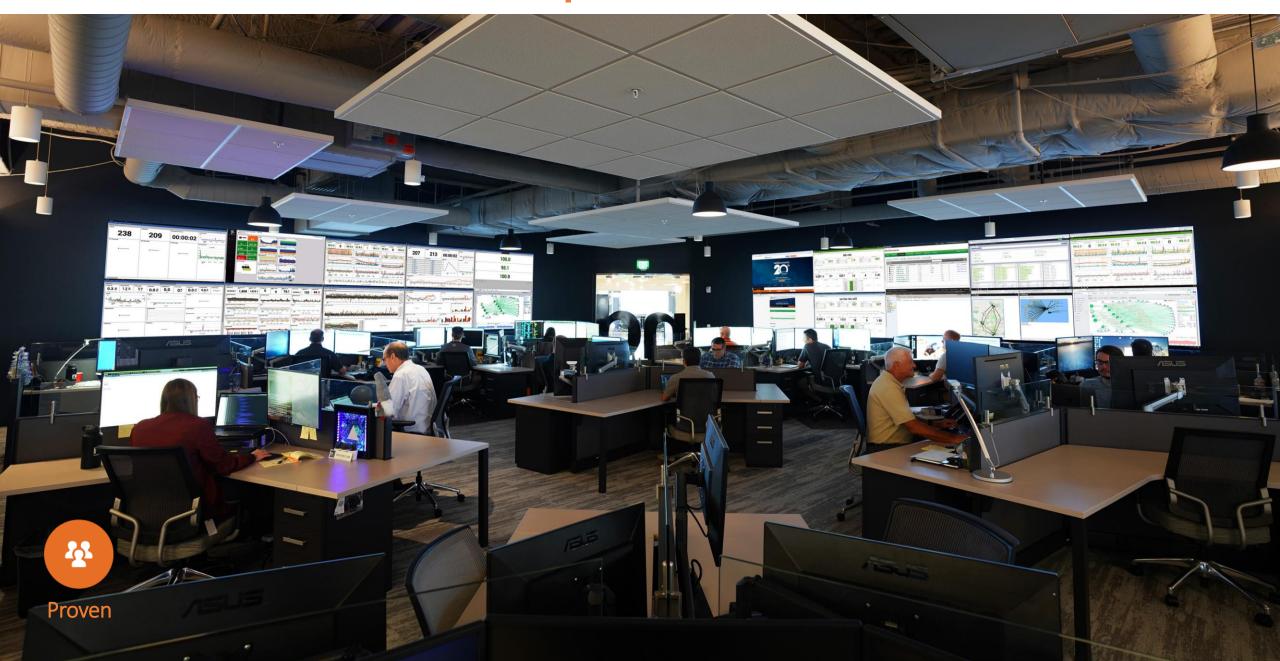
Global Datacenters

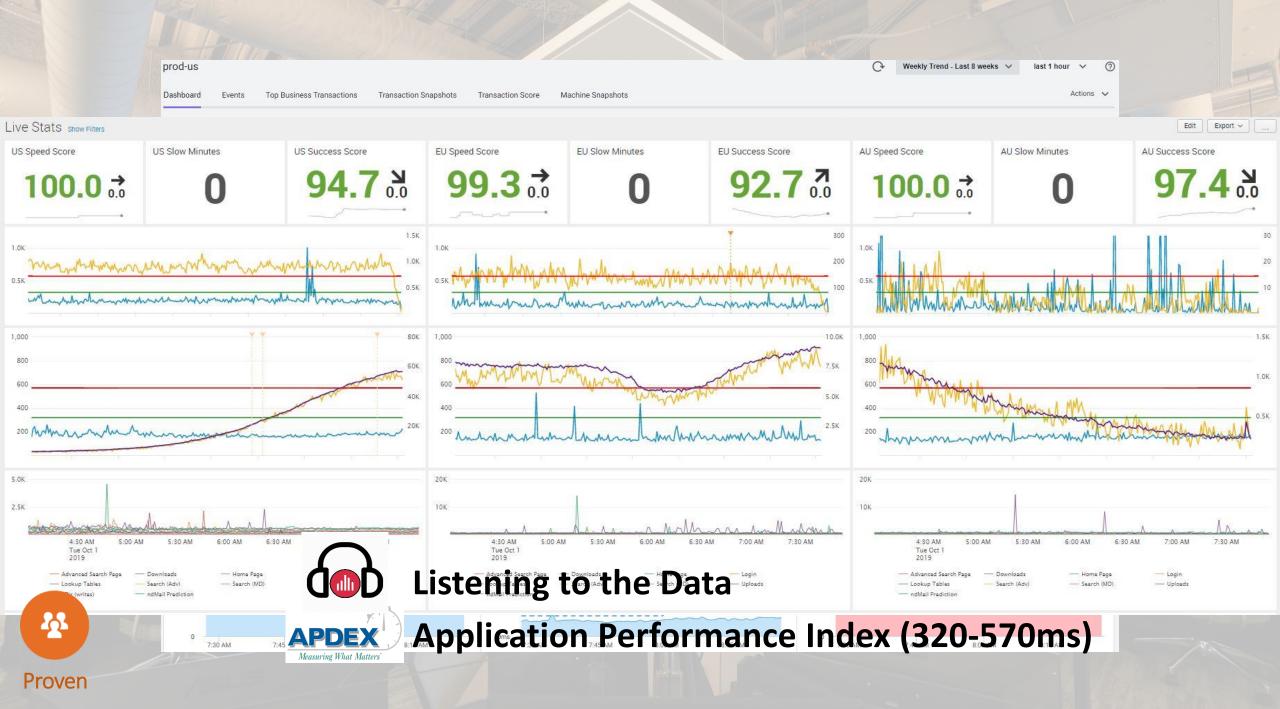


Three German Datacenters



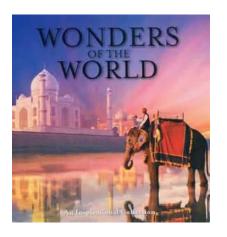
Global Operations Center





Compliance Certifications











Data Sovereignty &

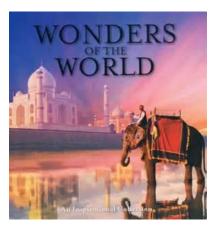
Single Global Library

















Predictive Filing

Seven Wonders of Document Management

"Tomorrow Comes Today"

Data Sovereignty & Single Global Library



Sampling of Legal Customers with Cloud DMS



7.000 users 40 offices



2.600 users 19 offices



3.000 users 32 offices

CUATRECASAS. GONCALVES PEREIRA

1,600 users 24 offices



(For Complex Litigation) 750 users 10 offices

BAKER DONELSON

1.550 users 19 offices



1.800 users 12 offices



1.200 users 13 offices

Snell & Wilmer

1.000 users

9 offices

墨

MCLENNAN ROSS...

200 users

3 offices

Sheppard

1.500 users

15 offices

1,100 users

9 offices

Frost-Brown Todd LLC

Mullin





Milbank

1.275 users

11 offices

1.500 users 15 offices



340 users 8 offices





950 users 16 offices

FARRER&Co

400 Users 2 Offices

HUSCH BLACKWELL

1.100 users 19 offices



2.800 users 23 offices



1.700 users 16 offices

Buchanan Ingersoll 🛝 Rooney PC

1.000 users 15 offices

FINNEGAN

950 users 10 offices

Shook, Hardy &

1.200 users 12 offices



600 users 5 offices



1.600 users 16 offices

jackson lewis

1,650 users 54 offices



600 users 9 offices



1,100 users 9 offices

Robbins Geller Rudman & Dowd LLP

450 users 9 offices



550 users 3 offices

Akin Gump

STRAUSS HAUER & FELD LLP

1.900 users 20 offices

550 users

10 offices

McKool Smith

450 users

8 offices

BRADLEY ARANT

BRADLEY ARANT BOULT CUMMINGS

1.000 users

8 offices

THOMPSON

HINE

900 users

7 offices



THE UNITED STATES DEPARTMENT of JUSTICE

CORRS CHAMBERS WESTGARTH BakerHostetler

2,000 users 1,100 users 14 offices 4 offices



2.000 users 70 offices

RAJAH TANN Lawyers who know Asia

600 users

Singapore



1,800 users 20 offices

haynesboone

1.150 users 13 offices

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Corporate Customers with Modern Cloud DMS



























































Habitat for Humanity®















CardinalHealth









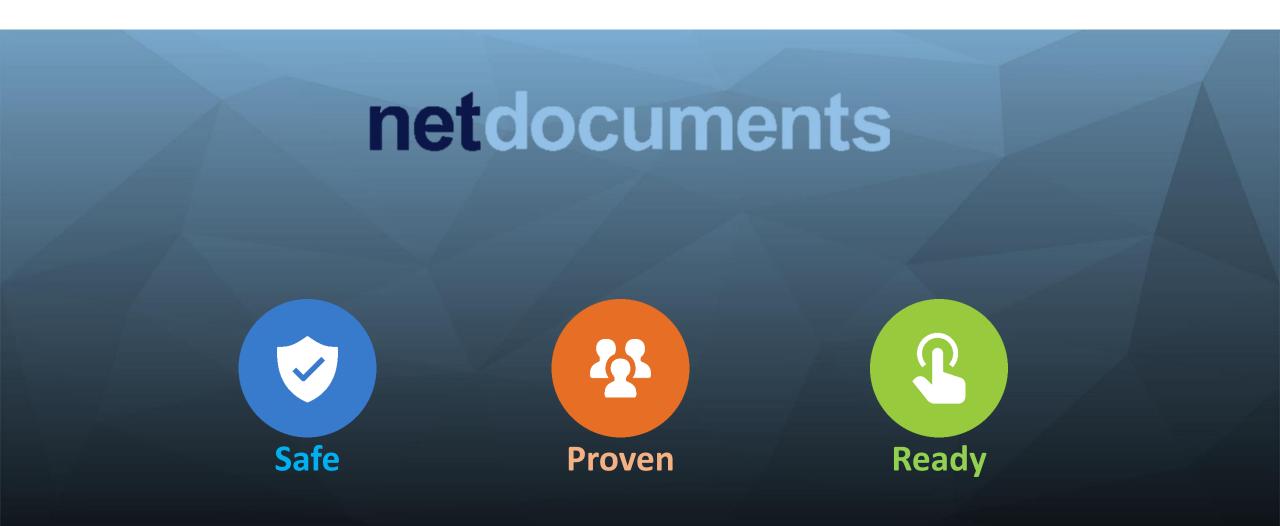








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Alvin Tedjamulia
CTO & Co-Founder
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