

Challenges of moving Information & Data Management to the cloud both software and data

Practical examples of how a small- medium E&P company can distribute their workforce
and virtualise their office using modern cloud based approach

Hampton Data Services Ltd

www.hamptondata.com

Waclaw (Wally) Jakubowicz

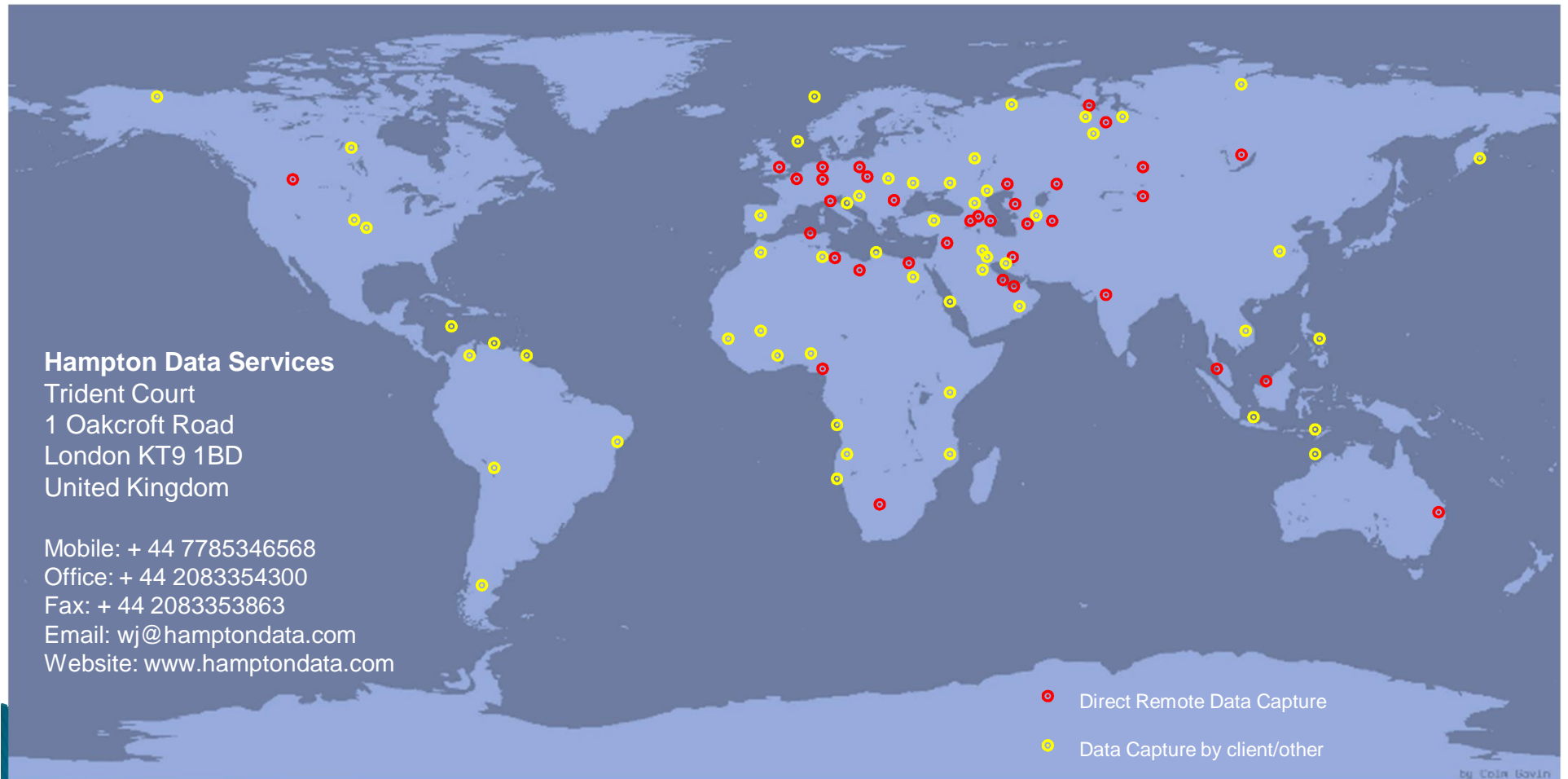
Finding Petroleum
Solving E&P Problems with Digitisation
19th November 2017



Hampton Data

25 years of E&P Data Management

Worldwide experience of
Remote Data Capture
Data Rooms, Oil Co archives



D2D

Virtual
Validated
Data Room

Discover >> Index >> Capture >> Extract > Validate
The Intelligent way

Data to Decision . Ready:
M&A, Due Diligence, Discovery, Farm In/Out

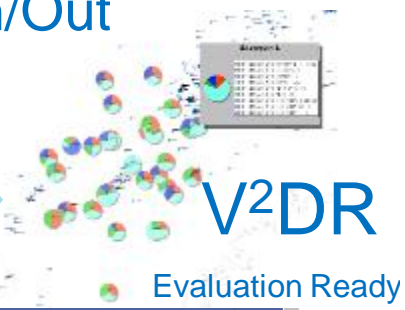
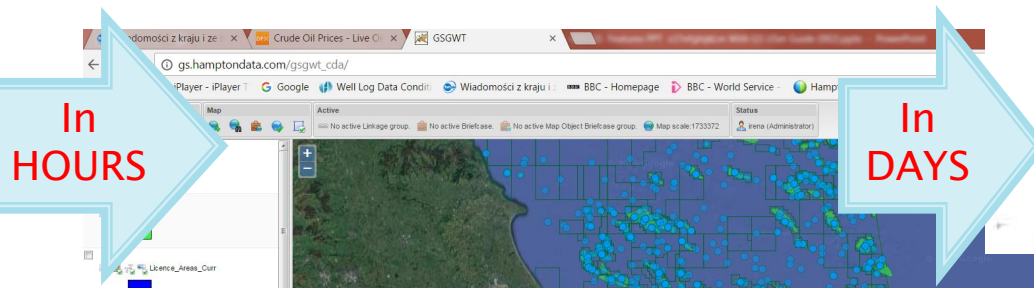
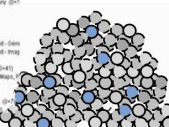
Assorted & Unsorted
Unstructured Data ;
physical, disk,
database

- 30,000 files
- 220 wells
- 7,500 Reports as PDF, Word
- 10,000 other docs
- 1500 xls
- 450 PPT
- 5500 LAS
- 120 DLIS
- 25 SEGY

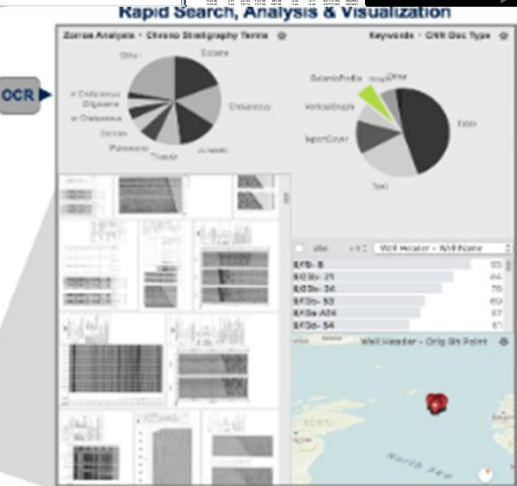


Digital, analogue, data & metadata

Using the latest
in BI & Machine
Learning to
discover, index,
extract, validate



Label	Size	Total Size	Docs	Total Docs
ROOT	0.00B	0	0	16973
LAN_Folders	0.00B	0	0	5406
GEOPHYSICAL	0	336,540B	0	71
WELLS	0	3,197B	0	478
Image_TXT	85,094B	85,094B	54501	54
CDA	0.00B	0	0	474
DWL_FILE	0.00B	32192	974	
DWL_INDEX	0.00B	0	0	3
JWL_AUDIT	0.00B	0	0	1
JWL_FILE	0.00B	14	21	
JWL_IMAGE	0.00B	14	2230	
LOG_IMAGE	0.00B	30	1377	
REPORT_IMAGE	0.00B	9	51	
VSP_FILE	0.00B	0	17	
VDD_FILE	0.00B	0	0	11
WELL_DIGITAL_CORE	0.00B	0	0	1
WELL_DIGITAL_SEISMIC	0.00B	0	0	1
WELL_DIGITAL_TEST	0.00B	0	0	3



Summary Data: Location |
 License No | License No |
 AP# | INABEVSZEEOR1 |
 License No | License No |
 2202

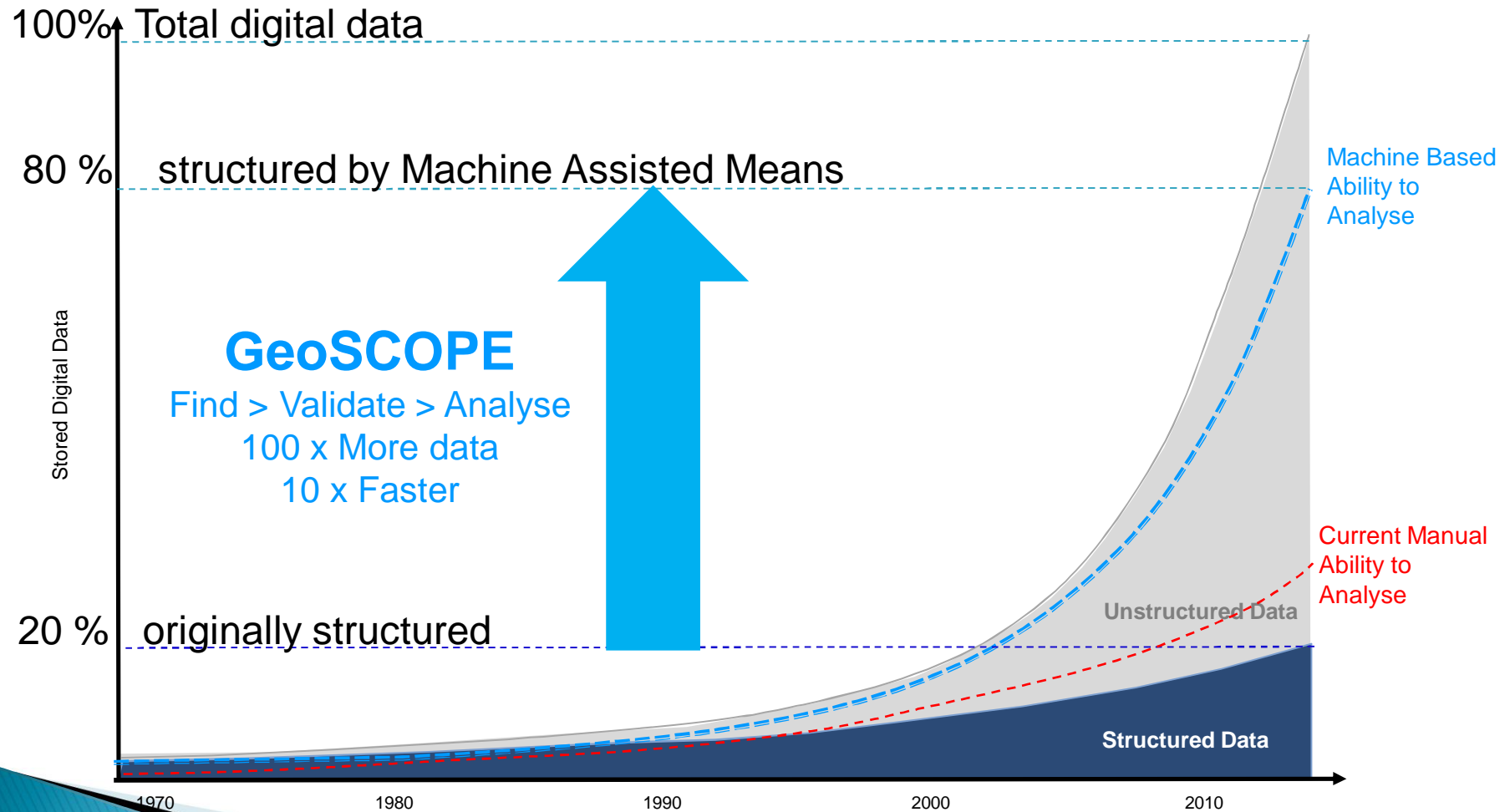
Presentation Key Points

- E&P IM/DM Works on cloud
- How ?
- What can be done ?
 - Examples
 - Emir Oil
 - language – XTM
 - Services
 - HDS
 - XTM
 - Nephin
 - Volumes
 - Services
- Applications on the Cloud – where are they ?
 - SLB HLB Emmerson LR IHS
 - Antheus – GeoFIT



Computer Aided Indexing, Metadata Capture, Classification, Spatial Tagging

- Highly efficient > Machine Based Automated >
 - The E&P IM/DM Team can do More in Less Time : **Save Money \$\$\$**
 - Process > Structure > Validate more data > **Reduce Risk**
 - Deliver Data to Decision Quickly > **D2D**



Assorted & Unstructured E&P Data Input Can be effectively managed using Autonomous Machine Assisted & Machine Learned methods:

Physical, Hardcopy, Electronic
Live shared Hard Disk with >> 100,000s of unstructured data files



DATA is Locked in:

Digital E&P Standard Format Files:

SEGY DLIS LAS LIS P190 UKOOA etc

Other Digital Vector files:

MS Office PPT DOC XLS TXT ASCII XML HTML PDF etc

Other Raster Image & Graphic Files (& embedded in docs):

TIFF JPG PDS CGM WMF Physical & Hardcopy

Standard E&P Databases:

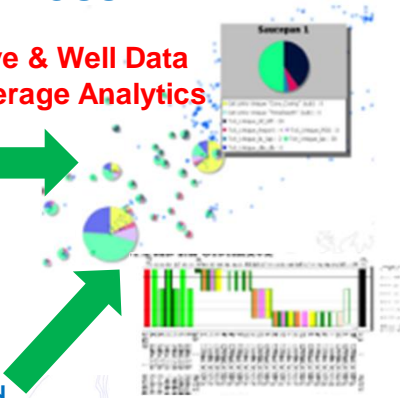
Petrel, R5000, OW/SW, Paradigm EPOS,
Geolog, RMS, VIP, Eclipse, IHS_Kingdom
ArcGIS, IKON RokDOC ? etc



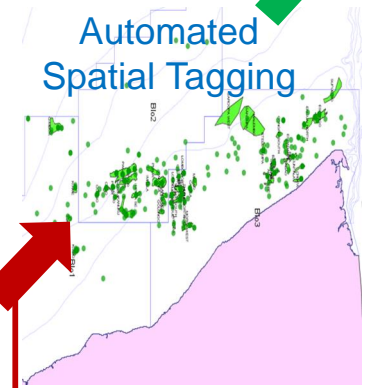
Automated Full data
Index with RICH
Metadata

Advanced Data
Analytics &
Visualization becomes
POSSIBLE

Curve & Well Data
Coverage Analytics



Automated
Spatial Tagging



Using Workflows & Tools:
OCR
CNN
HD E&P Crawler
Tf-Idf
ML
AI?

OCR Optical Character Recognition
CNN Convolutional Neural Networks
Tf-Idf - Term Frequency/Inverse Document Frequency
HDS E&P File Metadata Extractor
OpenSpirit

Virtual folders

Automated
Classification

- Documents (0-102051)
- GP Archive (0-151060)
- HDS Data Main 01 (0-275620)
- HDS Data Comments/Comments (0-275620)
- 01 Well Logs (0-101460)
 - 01 01 Well Logs Analysis (0020-2420)
 - 01 02 Well Logs (2000-400)
 - 01 03 Key Logs (0-2074)
 - 01 04 Key Logs 0000 (0-2340)
 - 01 05 Key Logs Read (143)
- 02 Well Report (0-1000)
 - 02 01 Final Well Report - FWR EWR (100)
 - 02 02 Well Location Drilling Program - WLD G&I (15)
 - 02 03 Well Drilling Report - WDR - Daily Monthly Final (15)
 - 02 04 Well Geologic Report - WGR - Daily Monthly Final (210)
 - 02 05 Well Log Report - WLR - Daily Monthly Final (100)
 - 02 06 Well Files Other (20)
 - 02 07 Well Geotechnical Report (20)
 - 02 08 Well Biogeographic Report (177)
 - 02 09 Well Formation Evaluation - Petrophysical Report (10)
 - 02 10 Well Reservoir - Well Well & Struc (0)
 - 02 11 Well Reservoir - Well Well & Struc (24)
- 03 Core (15-2000)
 - 03 01 Core Report Description (100-210)
 - 03 02 Core Photo (0-40)
 - 03 03 Core Photo SWPC Plug (100)
 - 03 04 Core Photo Thin Section Petrographic Photo (70)
 - 03 05 Core Analysis Data (20-400)
 - 03 06 Core Analysis Data - SWC - software (20)
 - 03 07 Core Analysis Data - SCAL - software (100)
 - 03 08 Core Analysis Data - CCAL - Conventional (14)
 - 03 09 Core Analysis Data - SSI - Scanning Electron Microscope (440)
 - 03 10 Core Analysis Data - XRD - X Ray Difracton (30)
 - 03 11 Core Analysis Data - LPSA - Laser Particle Size Analysis (200)
- 04 Well Testing & Sampling (0-2000)
 - 04 01 Well Testing Report - General (0)
 - 04 02 Well Test Sampling Summary (0)
 - 04 03 Well Testing Report - DST - Well Test (0)
 - 04 04 Well Testing Report - DST - Well Test (2)
 - 04 05 Well Testing Report - PVT - Press Vol Temp (0)
 - 04 06 Well Testing Data - PVT - Press Vol Temp (2000)
 - 04 07 Well Testing Report - FA - CA - Fluid Gas Properties Analysis (10)
 - 04 08 Well Testing Data - FA - CA - Fluid Gas Properties Analysis (10)
 - 04 09 Well Testing Data - SSI - Scanning Electron Microscope (10)
 - 04 10 Bottom Hole Sampling and Pressure (10)
- 05 Test Data (11-10000)
 - 05 Well Directional (0-1000)
 - 05 Well Electric (1-4000)
 - 05 Misc (0)
 - 05 Well Report for Distribution (0)
 - 05 Misc/REVIEW (0-4)

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The Key to performing these services is GeoSCOPE

GeoSCOPE is designed by E&P professionals working with real live project data

The Metadata Database that Autonomously Collects, Stores & Aggregates information about files and other DB records thus enabling Data Analytics to be done

Maintaining a comprehensive, high-quality, “trusted” information base is a critical activity in E & P projects. For the geoscientist, evaluating and interpreting data sets is the key to timely and effective decision making. Whilst traditional oilfield data management systems provide a framework for quantitative interpretation, their high cost, complex internal structures and narrow scope means that important information can often remain stranded on data islands outside the reach of the project team.

GeoScope provides a high performance, cost effective solution for staging and delivering all your E & P information to the whole project team. The intuitive map-based interface, powerful searching & data mining modes and flexible indexing schemes deliver results straight to your desktop. The client/server architecture exploits the latest networking standards and technologies to provide a centrally managed, low maintenance solution that is easily integrated into corporate networks and workflows.

GeoScope incorporates deep data mining and analytics that assist in data indexing and discovery. The tool and workflows used by GeoSCOPE utilise:

- OCR (Optical Character Recognition), to provide metadata that can be searched and analysed
- CNN (Convolutional Neural Networks) to identify pictures, images and graphics, so as to classify maps, logs, seismic, graphs, well sketches etc
- Tf-IDf –(Term Frequency/Inverse Document Frequency) for full text signature analysis based on machine learning to classify content
- HDS E&P File Metadata Extractor – to extract metadata from industry file formats – SEG Y LIS LAS DLIS P190 UKOOA
- 3rd party E&P Application metadata extractors - OpenSpirit, Kingdom, Petrel, OW,SW ,R500, Eclipse, Geolog etc

GeoScope is a highly efficient & autonomous document archiving and retrieval system utilising Java & Web technology to run through local Intranet and Internet applications on a broad range of platforms and operating systems. GeoScope combines the searchability of a database with the intuitive searching of objects within a graphical interface (typically a map) to recover appropriate documents for any given search criteria.

The built-in Entitlements and Workflow management modules, allow E&P IM/DM professionals to manage large scale E&P data workflows from reception, through discovery, classification, validation, editing and new data creation prior to delivery to trusted Master Data Stores with full auditability and identification of provenance and data quality.

The application and services can be purchased on a fixed monthly subscription



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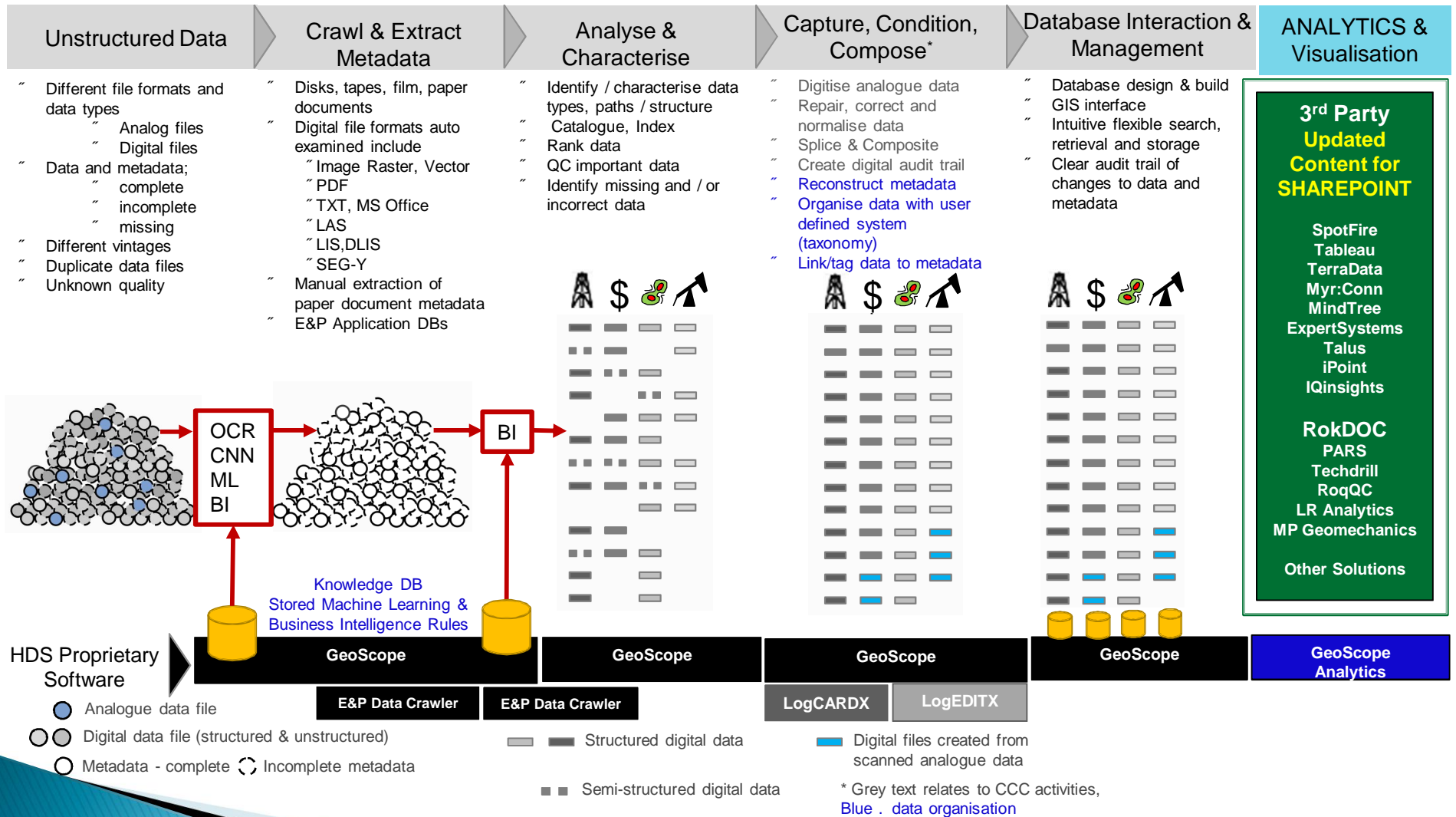
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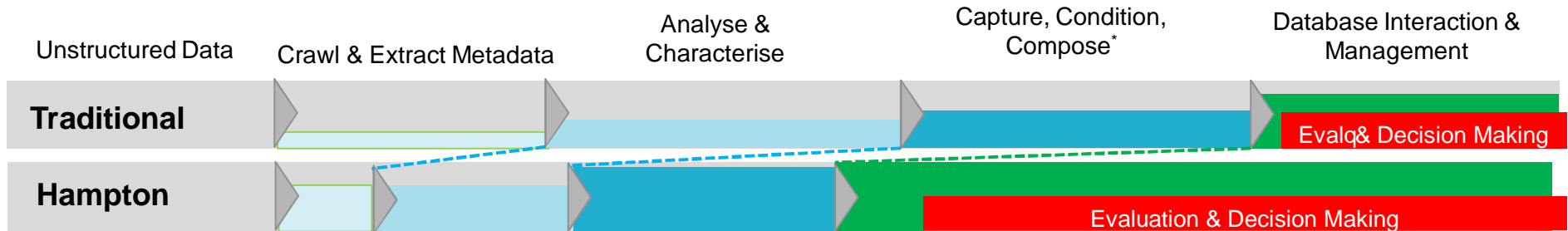
Transforming diverse unstructured E&P data into valuable interpretation & analytics ready assets

~ HDS provides a range of services driven by proprietary software, carried out by analysts with direct experience in data acquisition and interpretation and managed in close association with customers

Automation

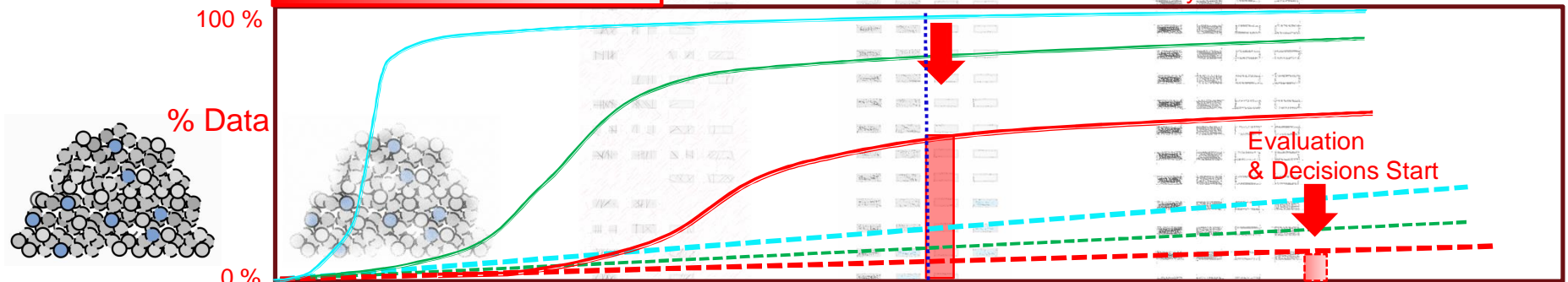


Efficiencies in The Hampton Data Solution 2



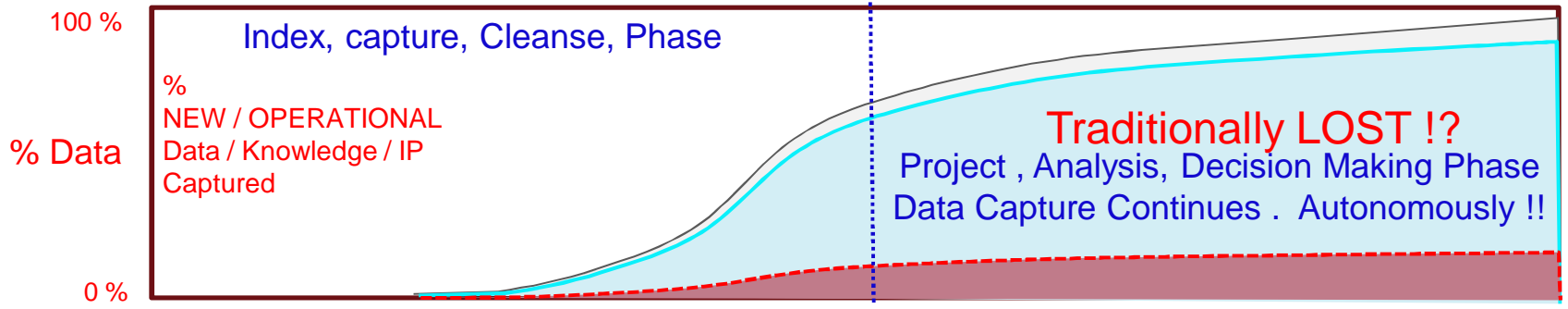
Increased use of Automation

Evaluation & Decisions Starts Earlier with access to Greater Volume of Quality Data !



Traditional Hampton
 Indexed Catalogued Data
 Validated Data
 Cleansed & Decision ready Data

Autonomous Virtual Project IM/DM



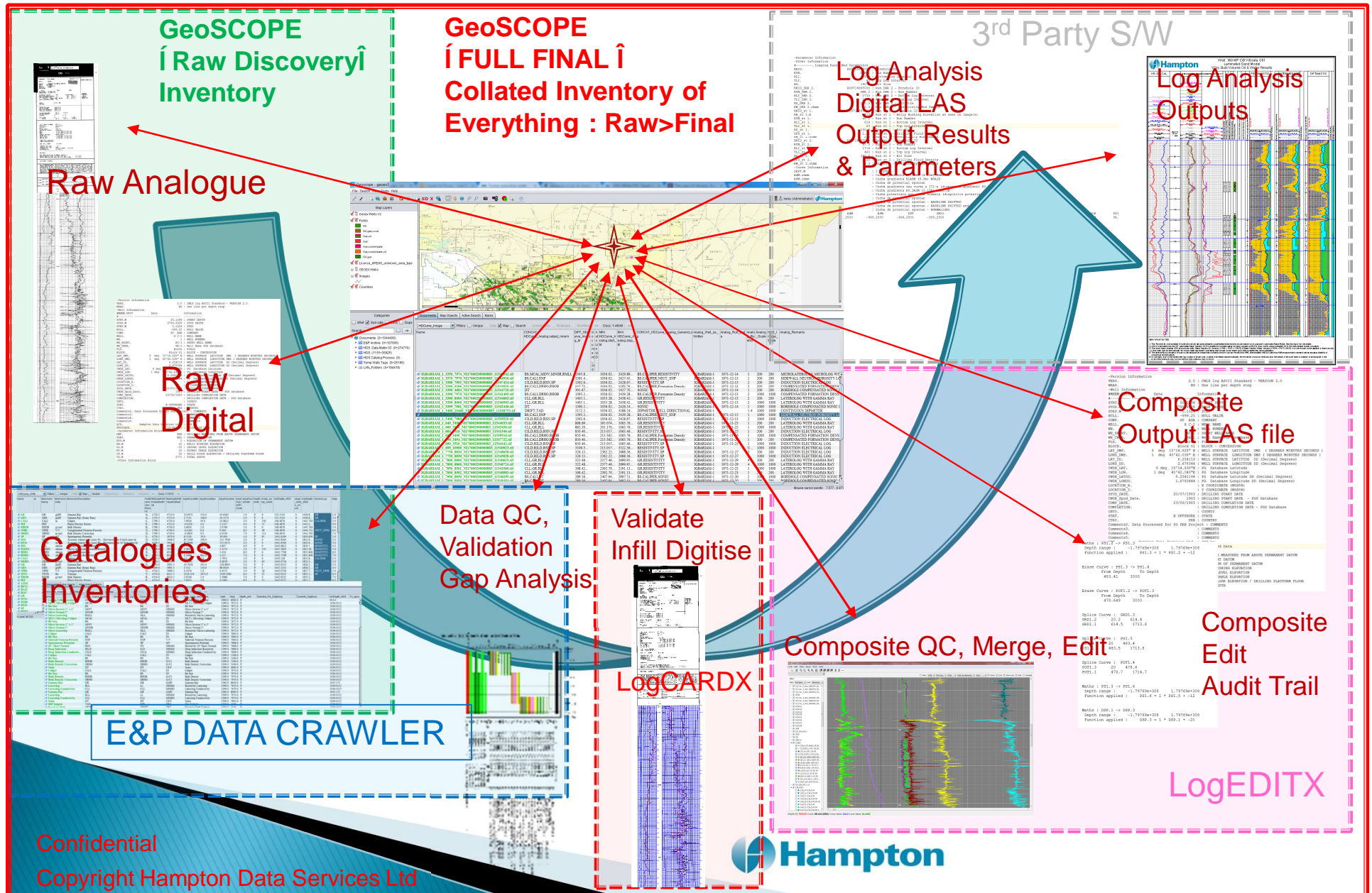
Index, capture, Cleanse, Phase

% NEW / OPERATIONAL Data / Knowledge / IP Captured

Traditionally LOST !?
 Project , Analysis, Decision Making Phase
 Data Capture Continues . Autonomously !!

Total NEW Data, Information , Knowledge , IP Actually Created
 Total NEW Data, Information , Knowledge , IP Captured by HAMPTON Solution
 Total NEW Data, Information , Knowledge , IP Captured during TRADITIONAL project operations

GeoSCOPE can manage E&P workflows and the data value chain: Capture the Provenance and Audit information for each Data Object :

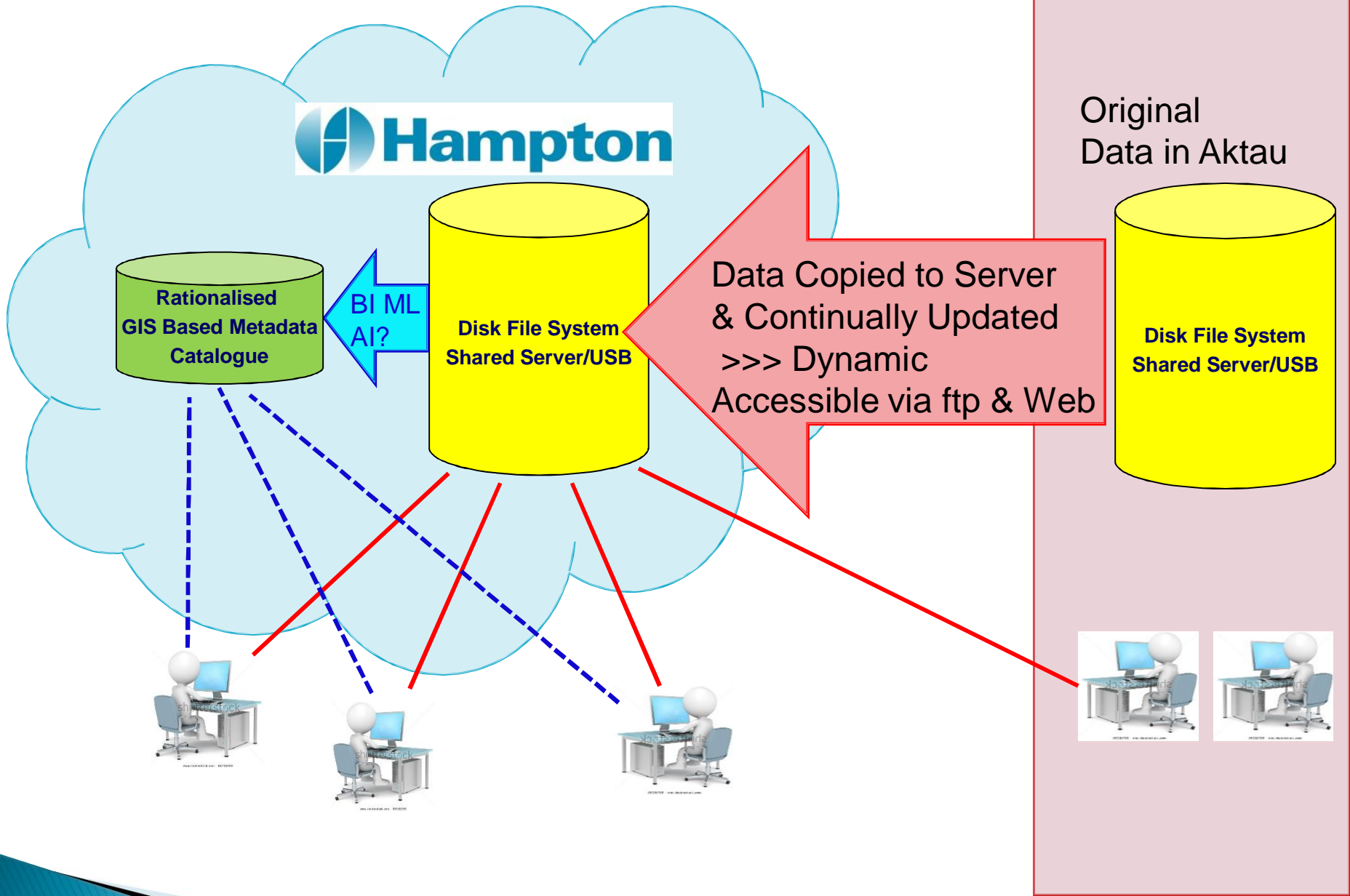


Example 1 – Reach Energy Bhd



- ▶ KL Registered and KL & HK funded E&P Co
- ▶ Acquires controlling interest in Emir Oil LLC Kazakhstan
 - Assets have seen several previous Operators
 - Legacy Data processed in different E&P cultures
 - Mixed **English, Russian, Mandarin & Kazakh**
 - Many data silos in different countries/institutes – gathered
 - Many previous studies done
 - Much data duplicated
 - Multiple seismic versions,
 - Multiple (poorly labelled) maps frequently with unknown datums etc
 - Mobile Expat Management – who want to “work & access data – on the move”
 - Require secure data access to consultants and consultancies doing reserves audits, evaluation, subsurface modelling





Total of 268,628 files managed by GeoSCOPE > without duplicates = 114722

The screenshot displays the GeoSCOPE software interface. At the top, a map shows various oil fields and wells, including 'Yespelsay', 'Karagaye North', 'Zhetysay Northwest', and others. The interface includes a 'Map Layers' panel on the left and a 'Documents' panel at the bottom. The 'Documents' panel shows a list of files with columns for Name, Links, Filename, FileSize, Types, Date Added, CategoryLinks, ENG_Filepath, Languages, and MapLinks_Wells. The search results are filtered to show 114,722 documents.

Name	Links	Filename	FileSize	Types	Date Added	CategoryLinks: E&P Archive	ENG_Filepath	Languages	MapLinks_Wells
Reach Emir Oil Data ...	0/0	...Reach Emir Oil Data Base Rev01.pet	252.04KB	LAN Files	2017-10...	Petrel Projects	\\Mercury\rf\ENG\ftp\B...		
web.config	0/0	...URY\Jobs\2615ReachEnergy\web.config	255.00B	LAN Files	2017-10...		\\MERCURY\Jobs\261...		
web.config	0/0	...Mercury\rf\web.config	299.00B	LAN Files	2017-10...		\\Mercury\rf\ENG\web...		
Core data-all.xls	0/0	...cun\Datum-MIE\Cores\Core data-all.xls	1.24MB	LAN Files	2017-05...	Data	\\Mercury\rf\ENG\Datu...	English	
Report Aidai 1 english.pdf	2/2	...d reportVAD1\Report Aidai 1 english.pdf	4.61MB	LAN Files	2017-05...	Data, Studies and Report	\\Mercury\rf\ENG\Datu...	English	Aidai 1
Workbook 1.xlsx	0/0	...s\Data and reportVAD1\工作簿1.xlsx	160.34KB	LAN Files	2017-05...	Data, Studies and Report	\\Mercury\rf\ENG\Datu...	Not English	Aidai 1
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Well B2 history history...	0/0	...s>Data and reportB2\井史\История Борлы 2.xls	146.50KB	LAN Files	2017-05...	Data, Studies and Report, Well Testing	\\Mercury\rf\ENG\Datu...	Not English	Borli, Borly 2
Gun 1 Diao Nan 2....	0/0	...芯描述\博德纳井筒 2\履 1 井筒 2.xls	284.00KB	LAN Files	2017-05...	Acquisition, Data, Studies and Report, Well T...	\\Mercury\rf\ENG\Datu...	Not English	Borli, Borly 2
Borly-2 (no laboratory ...	0/0	...d reportB2S1\Borly-2 (无化验报告).xls	15.00KB	LAN Files	2017-05...	Data, Studies and Report	\\Mercury\rf\ENG\Datu...	Not English	Borli, Borly 2
Well Borly-2 1-2 tubula...	0/0	...portB2ST\Borly-2井第1-2筒管心描述.xls	15.00KB	LAN Files	2017-05...	Data, Studies and Report	\\Mercury\rf\ENG\Datu...	Not English	Borli, Borly 2
A first cylindrical core ...	0/0	...Data and reportB2ST\第1筒管心描述.xls	14.00KB	LAN Files	2017-05...	Data, Studies and Report	\\Mercury\rf\ENG\Datu...	Not English	Borli, Borly 2ST1
The second cylindrical...	0/0	...Data and reportB2ST\第2筒管心描述.xls	14.50KB	LAN Files	2017-05...	Data, Studies and Report	\\Mercury\rf\ENG\Datu...	Not English	Borli, Borly 2ST1
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D6.xls	0/0	...Datum-MIE\Cores\Data and reportD6.xls	582.00KB	LAN Files	2017-05...	Data, Studies and Report	\\Mercury\rf\ENG\Datu...	Not English	Dolinnoe 6
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K7.xls	0/0	...Datum-MIE\Cores\Data and reportK7.xls	824.50KB	LAN Files	2017-05...	Data, Studies and Report	\\Mercury\rf\ENG\Datu...	Not English	Kariman 7
K8,K10.xls	0/0	...m-MIE\Cores\Data and reportK8,K10.xls	1017.50KB	LAN Files	2017-05...	Data, Studies and Report	\\Mercury\rf\ENG\Datu...	Not English	Kariman 10, Kar...
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NK-2 core analysis rep...	0/0	...s\Data and reportNK-2岩芯分析报告.xls	14.89KB	LAN Files	2017-05...	CCA, Data, Studies and Report	\\Mercury\rf\ENG\Datu...	Not English	North Kariman 2
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Added problem of well/field/asset ALIAS names

Well Data Table

Aliases can be Automatically created

Well_Name	TotalDepth	U n i q u e I d	TopMDT2B_t	TopMDT2C_t	TopTVD2B	TopTVD2C	CalcTopTVD	DatumEva	WellStatis	Field	Well_No	DD_Alias1	DD_Alias2	DD
Saura-Segendi 4														
Aksaz 1	0	A1	4166	4213	4163	4210	-999	-10	11	Aksaz	1	Аксаз 1	A 1	
Aldai 1	-5264	AD1	-99999	-99999	-99999	-99999	-999	-64	11	Aldai	1	Айдай 1	AD 1	
Borli_Borly 2	0	B2	-99999	-99999	-99999	-99999	-999	-13	PJ	Borli	2	Борлы 2 -ST	B 2 -ST,STK,SIDE*	
Borli_Borly 2ST1	0	B2ST1	-99999	-99999	-99999	-99999	-999	-13	PJ	Borli	2ST1	Борлы 2 ST 1	B 2 ST,STK,SIDE* 1	
Dolinnoe 1	0	D1	3523	3582	3480	3538	-999	-41	11	Dolinnoe	1	Долинное.Долин.Д 1	D 1	
Dolinnoe 110	-3754	D110	3501	3572	3501	3572	71	-24	11	Dolinnoe	110	Долинное.Долин.Д 110	D 110	
Dolinnoe 112	-3762	D112	3494	3559	3494	3559	65	-32	11	Dolinnoe	112	Долинное.Долин.Д 112	D 112	
Dolinnoe 12	0	D12	3686	3750	3524	3556	-999	-84	11	Dolinnoe	12	Долинное.Долин.Д 12 -ST	D 12 -ST,STK,SIDE*	
Dolinnoe 12ST1	0	D12ST1	3576	3677	3574	3675	-999	-26	11	Dolinnoe	12ST1	Долинное.Долин.Д 12 ST 1	D 12 ST,STK,SIDE* 1	
Dolinnoe 2	0	D2	3576	3677	3574	3675	-999	-26	11	Dolinnoe	2	Долинное.Долин.Д 2 -ST	D 2 -ST,STK,SIDE*	
Dolinnoe 2ST1	0	D2ST1	3510	3590	3507	3572	-999	-26	PJ	Dolinnoe	2ST1	Долинное.Долин.Д 2 ST 1	D 2 ST,STK,SIDE* 1	
Aksaz 105	0	A105	3522	3616	3502	3575	-999	-27	PJ	Aksaz	105	Аксаз 105	A 105	
Dolinnoe 2ST2	0	D2ST2	3522	3616	3502	3575	-999	-27	PJ	Dolinnoe	2ST2	Долинное.Долин.Д 2 ST 2	D 2 ST,STK,SIDE* 2	
Dolinnoe 3	0	D3	3536	3587	3536	3586	-999	-47	11	Dolinnoe	3	Долинное.Долин.Д 3	D 3	
Dolinnoe 5	0	D5	3491	3548	3490	3548	-999	-60	11	Dolinnoe	5	Долинное.Долин.Д 5	D 5	
Dolinnoe 6	0	D6	3475	3539	3474	3538	-999	-54	11	Dolinnoe	6	Долинное.Долин.Д 6 -ST	D 6 -ST,STK,SIDE*	
Dolinnoe 6ST1	0	D6ST1	3849	3928	3636	3685	-999	-25	PJ	Dolinnoe	6ST1	Долинное.Долин.Д 6 ST 1	D 6 ST,STK,SIDE* 1	
Dolinnoe 7	0	D7	3531	3600	3531	3600	-999	-42	11	Dolinnoe	7	Долинное.Долин.Д 7	D 7	
Dolinnoe 8	0	D8	3531	3600	3531	3600	-999	-42	11	Dolinnoe	8	Долинное.Долин.Д 8	D 8	
Emir 1	-3582	E1	2961	3003	2961	3003	42	18	11	Emir	1	Эмир 1	E 1	
Emir 2	-3155	E2	2948	2983	2948	2983	35	15	11	Emir	2	Эмир 2	E 2	
Emir 5	0	E5	2948	2983	2948	2983	35	15	11	Emir	5	Эмир 5	E 5	
Aksaz 106	-4348	A106	4217	4261	4217	4261	44	-5	11	Aksaz	106	Аксаз 106	A 106	
Emir 6	-3208	E6	3005	3053	3005	3053	18	12	11	Emir	6	Эмир 6	E 6	
Kariman 1	0	K1	-999	-99999	-999	-99999	-999	-85	11	Kariman	1	Кариман,Кари,Кар,К 1 -ST	K 1 -ST,STK,SIDE*	
Kariman 10	0	K10	3407	3476	3407	3476	-999	-81	11	Kariman	10	Кариман,Кари,Кар,К 10	K 10	
Kariman 11	0	K11	3432	3476	3432	3476	-999	-88	11	Kariman	11	Кариман,Кари,Кар,К 11 -ST	K 11 -ST,STK,SIDE*	
Kariman 113	0	K113	3770	-99999	3606	-99999	-999	-81	11	Kariman	113	Кариман,Кари,Кар,К 113	K 113	
Kariman 114	0	K114	3476	3509	3476	3508	-999	-82	11	Kariman	114	Кариман,Кари,Кар,К 114	K 114	
Kariman 116	-3633	K116	3421	3461	3421	3461	40	-93	11	Kariman	116	Кариман,Кари,Кар,К 116	K 116	
Kariman 117	0	K117	3564	3564	3564	3564	-999	-93	11	Kariman	117	Кариман,Кари,Кар,К 117 -ST	K 117 -ST,STK,SIDE*	
Kariman 117ST	0	K117ST	3655	3741	3618	3678	-999	-84	11	Kariman	117ST	Кариман,Кари,Кар,К 117 ST	K 117 ST,STK,SIDE*	
Kariman 118	-3684	K118	3433	3473	3433	3473	40	-84	11	Kariman	118	Кариман,Кари,Кар,К 118	K 118	
Aksaz 2	-4285	A2	4124	4166	4122	4164	42	8	11	Aksaz	2	Аксаз 2 -ST	A 2 -ST,STK,SIDE*	
Kariman 119	-3629	K119	3422	3460	3422	3460	38	-84	11	Kariman	119	Кариман,Кари,Кар,К 119	K 119	
Kariman 11ST	0	K11ST	3584	-99999	3433	-99999	-999	-81	11	Oil	11ST	Кариман,Кари,Кар,К 11 ST	K 11 ST,STK,SIDE*	
Kariman 12	0	K12										p,K 12	K 12	
Kariman 120	-3735	K120										p,K 120	K 120	
Kariman 121	0	K121										p,K 121	K 121	
Kariman 123	0	K123										p,K 123	K 123	
Kariman 124	0	K124										p,K 124	K 124	
Kariman 13	0	K13	3919	4128	3676	3728	-999	-83	11	Kariman	13	Кариман,Кари,Кар,К 13	K 13	
Kariman 1ST1	0	K1ST1	-99999	-99999	-99999	-99999	-999	-85	PJ	Kariman	1ST1	Кариман,Кари,Кар,К 1 ST 1	K 1 ST,STK,SIDE* 1	
Kariman 1ST2	0	K1ST2	3426	3470	3415	3459	-999	-82	PJ	Kariman	1ST2	Кариман,Кари,Кар,К 1 ST 2	K 1 ST,STK,SIDE* 2	
Aksaz 2ST1	0	A2ST1	-99999	-99999	-99999	-99999	-999	7	PJ	Aksaz	2ST1	Аксаз 2 ST 1	A 2 ST,STK,SIDE* 1	
Kariman 2	-3621	K2	3391	3434	3391	3434	43	-86	11	Kariman	2	Кариман,Кари,Кар,К 2	K 2	
Kariman 3	0	K3	3608	3650	3608	3650	-999	-81	11	Kariman	3	Кариман,Кари,Кар,К 3 -ST,-2	K 3 -ST,STK,SIDE*	
Kariman 3ST	0	K3ST	3624	3700	3600	3666	-999	-83	PJ	Kariman	3ST	Кариман,Кари,Кар,К 3 ST	K 3 ST,STK,SIDE*	
Kariman 3ST2	0	K3ST2	3673	-99999	3581	-99999	-999	-81	11	Kariman	3ST2	Кариман,Кари,Кар,К 3 ST 2	K 3 ST,STK,SIDE* 2	
Kariman 4	0	K4	3552	3597	3552	3597	-999	-87	11	Kariman	4	Кариман,Кари,Кар,К 4	K 4	
Kariman 5	0	K5	3567	3614	3567	3614	-999	-88	11	Kariman	5	Кариман,Кари,Кар,К 5	K 5	
Kariman 6	0	K6	3441	3483	3441	3483	-999	9	11	Kariman	6	Кариман,Кари,Кар,К 6 -ST	K 6 -ST,STK,SIDE*	
Kariman 6ST1	0	K6ST1	-99999	-99999	-99999	-99999	-999	-81	PJ	Kariman	6ST1	Кариман,Кари,Кар,К 6 ST 1	K 6 ST,STK,SIDE* 1	
Kariman 6ST2	-3636	K6ST2	-99999	-99999	-99999	-99999	-999	-81	PJ	Kariman	6ST2	Кариман,Кари,Кар,К 6 ST 2	K 6 ST,STK,SIDE* 2	
Kariman 6ST3	0	K6ST3	3502	3580	3461	3515	-999	-81	PJ	Kariman	6ST3	Кариман,Кари,Кар,К 6 ST 3	K 6 ST,STK,SIDE* 3	
Aksaz 2ST2	0	A2ST2	-99999	-99999	-99999	-99999	-999	7	PJ	Aksaz	2ST2	Аксаз 2 ST 2	A 2 ST,STK,SIDE* 2	

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Borli, Borly 2(Wel11)	595/838	Borli, Bo...	0
Borli, Borly 2ST1(Wel12)	300/481	Borli, Bo...	0
Dolinnoe 1(Wel13)	554/3085	Dolinnoe...	0
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Dolinnoe 12(Wel16)	541/986	Dolinnoe...	0
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Karman 7(Wel60)	322/1531	Karman 7	0
Karman 8(Wel61)	525/2196	Karman 8	0
North Karman 1(Wel62)	471/550	North Ka...	0

Doc search complete Current Map Zoom Level: 48.198

Mouse cursor pos: 51,127, 43,647

See Where its is on the File Folder System

Selected file locations are shown in a virtual English translation of the real Windows folders (which contain Chinese and Russian language)

ō after clicking on the well, the files for well %Dolinnoe-5+ are gathered from across the network and listed in the results page below.

Name	Links	Filename	FileSize	Types
Daily Geological Report	17...	...r\Datum-MIE\Cores\Data and report\D5.doc	128.00KB	LAN Files...
Dolinnoe-5-Tabl ris Dolinnoe 5.xls	0/0	...r\Datum-MIE\Cores\Data and report\D5.xls	985.00KB	LAN Files...
Well Acid Pressure/Completion Sum...	0/0	...r\Datum-MIE\Fracture and washing\Frature\2012年ID-5井酸压小结.doc	599.50KB	LAN Files...
Dolinnoe 5 summarizes the acid fract...	8/8	...r\Datum-MIE\Fracture and washing\Frature\2012年Dolinnoe 5酸压总结.rtf	364.06KB	LAN Files...
Acid fracturing Dolinnoe 5 summariz...	8/8	...r\Datum-MIE\Fracture and washing\Frature\2012年Dolinnoe 5酸压总结.rtf	390.60KB	LAN Files...
D5.LAS	3/44	...r\Datum-MIE\Logging\Pictures\dolinnoe_5\D5.LAS	1.38MB	LAN Files...
dolinnoe_5_200.PDF	25...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	0.99MB	LAN Files...
DOL5.PDF	5/5	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	179.56KB	LAN Files...
DOL5-1.PDF	5/5	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	510.87KB	LAN Files...
Final Report	17...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	1.07MB	LAN Files...
Dol5FWR RU.pdf	18...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	591.56KB	LAN Files...
F2D05 merged.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	9.07MB	LAN Files...
initial static downlog.las	18...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	8.13.79KB	LAN Files...
initial static uplog.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	1.01MB	LAN Files...
F1D10 28.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	1.01MB	LAN Files...
F1D25 26.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	1.00MB	LAN Files...
F1U10 29.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	1.00MB	LAN Files...
F1U25 27.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	1.00MB	LAN Files...
F2D20 35.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	1.03MB	LAN Files...
F2D30 35.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	1.03MB	LAN Files...
F2D45 39.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	1.03MB	LAN Files...
F2U05 32.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	1.02MB	LAN Files...
F2U10 36.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	1.01MB	LAN Files...
F2U20 34.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	1.03MB	LAN Files...
F2U30 38.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	1.03MB	LAN Files...
S0D10 11.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	1.02MB	LAN Files...
S0D20 13.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	145.92KB	LAN Files...
S0D40 15.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	144.96KB	LAN Files...
S0U10 12.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	158.88KB	LAN Files...
S0U20 14.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	120.79KB	LAN Files...
S0U40 16.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	139.93KB	LAN Files...
S1D10 17.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	157.33KB	LAN Files...
S1D20 19.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	121.37KB	LAN Files...
S1D40 21.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	119.63KB	LAN Files...
S1U20 20.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	119.63KB	LAN Files...
S1U40 22.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	122.72KB	LAN Files...
S2D10 42.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	114.99KB	LAN Files...
S2D20 46.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	114.79KB	LAN Files...
S2D30 46.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	115.76KB	LAN Files...
S2D40 46.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	1.02MB	LAN Files...
S2D50 46.las	19...	...r\Datum-MIE\Logging\Pictures\dolinnoe_5_200.PDF	1.02MB	LAN Files...

Multiple variations of the %Dolinnoe-5+ well name are automatically detected.

Position the mouse over any %page+icon on the left and a text preview popup appears.

Double-clicking on a file will open the file on the users PC.

Geoscope - Reach1

File Search View Tools Help

Categories: XRef, Sub-cats, docs VC, docs LAN, Dups

Search: []

Documents: Cats LC, Map, Search, Linked Docs, Briefcase, Similarity, Workflow, Docs: 1-100/6164

irena (Administrator) Hampton

Filenames are automatically displayed as English translations

For text files, the language of the text is detected.

File paths are shown in original language and also in automatic English translation.

The data classes relevant to the file are summarised.

Name	File Size	Types	Date Added	ENG_Filepath	Languages	Category/Links: E&P Archive
Dolinnoe-5 tabl... rris Dolinnoye 5.xls	985.00	LAN Files	2017-05...	\\Mercury\rfE...	English	Data, Studies and ...
Well Acid Pressure/Completion Sum...	599.50	LAN Files	2017-05...	\\Mercury\rfE...	Not English	Data, Studies and ...
2012年Dolinnoe 5 酸压总结.rtf	364.06	LAN Files	2017-05...	\\Mercury\rfE...	Chinese	Development, Frac...
2012年Dolinnoe 5 酸压总结 RU.rtf	390.60	LAN Files	2017-05...	\\Mercury\rfE...	English	Development, Frac...
D5.LAS	1.38MB	LAN Files	2017-05...	\\Mercury\rfE...	English	Digital
dolinnoye 5 200.PDF	1.09MB	LAN Files	2017-05...	\\Mercury\rfE...	English	Analog
DOL5.PDF	175.65	LAN Files	2017-05...	\\Mercury\rfE...	English	Analog, Final Logs...
DOL5-1.PDF	510.87	LAN Files	2017-05...	\\Mercury\rfE...	English	Analog, Final Logs...
ster logging\D5\Dol5FWR RU.doc	1.07MB	LAN Files	2017-05...	\\Mercury\rfE...	Cyrillic	EOWR, Final Logs...
ster logging\D5\Dol5FWR RU.pdf	591.56KB	LAN Files	2017-05...	\\Mercury\rfE...	Not English	EOWR, Analog, Fin...
renamed ADD... .las	874.27KB	LAN Files	2017-05...	\\Mercury\rfE...	English	2D, Mapping, Press...
ed ADD\initial static downlog.las	9.07MB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
ed ADD\initial static uplog.las	813.79KB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\F1D10 28.las	1.01MB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\F1D25 26.las	1.01MB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\F1U10 29.las	1.00MB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\F1U25 27.las	1.00MB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\F2D10 33.las	1.03MB	LAN Files	2017-05...	\\Mercury\rfE...	English	2D, Mapping, Press...
LAS\slases renamed\F2D20 35.las	1.03MB	LAN Files	2017-05...	\\Mercury\rfE...	English	2D, Mapping, Press...
\\Mercury\rdatum-MIE\Pressure and temp\Reports and data\2013年\ГДИ_2013 (试井资料) \ГИС контроль Долинное_5 (流体测井) \Дополнительный отчет притока\LAS\slases renamed\F1D10_28.las	1.03MB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
\\Mercury\rdatum-MIE\Pressure and temp\Reports and data\year 2013\GDL_2013 (testing data)\GIS control Dolinnoe_5 (fluid logging)\Dolinnoe 5\Final Report inflow\LAS\slases renamed\F1D10_28.las	1.03MB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\F2U20 34.las	1.03MB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\F2U30 38.las	1.02MB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\F2U30 38.las	1.02MB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\S0D10 11.las	145.92KB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\S0D20 13.las	144.96KB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\S0D40 15.las	158.88KB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\S0U10 12.las	120.79KB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\S0U40 16.las	157.33KB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\S0U20 14.las	139.93KB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\S1D20 19.las	119.63KB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\S1D10 17.las	121.37KB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\S1D20 19.las	119.63KB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\S1D40 23.las	119.63KB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\S1D40 23.las	122.72KB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\S1U10 18.las	114.99KB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\S1U20 20.las	114.79KB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\S1U40 22.las	115.76KB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\S2D10 42.las	1.02MB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure
LAS\slases renamed\S2D10 45.las	1.02MB	LAN Files	2017-05...	\\Mercury\rfE...	English	Mapping, Pressure

Doc search complete Current Map Zoom Level: 59.264 Mouse cursor points: 51.593, 43.862

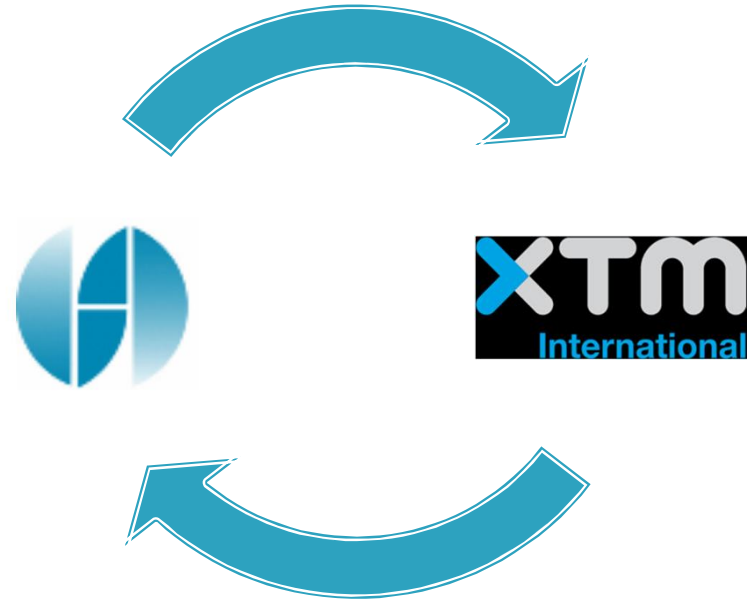
Catalogue Delivered via a Web Browser

The screenshot displays a web browser window with the URL `gs.hamptondata.com/gsgwt_Reach1/`. The interface includes a map of a region with various fields and wells marked. A legend on the left side of the map identifies different types of fields: Gas, condensate, oil; Oil; Gas; Gas, condensate; Oil, gas; and Oil, gas, cond. Below the map, there is a table with columns for Well Name, Field, DO_Alias1, DO_Alias2, Object Name, DO_Alias4, Docs, Object, Layer, and TotalD... (Total Documents). The table lists various wells and their associated fields and documents.

Well Name	Field	DO_Alias1	DO_Alias2	Object Name	DO_Alias4	Docs	Object	Layer	TotalD...	Uniq
North Karimian 2	North Karimian	Сев Кариман-Карп.Кар.К.2	NK.2	North Karimian 2	"N.North Karimian 2"; "Karimian N.North 2"	527/832	Well64	Wells_170518v1	0	0
North Karimian 1ST	North Karimian	Сев Кариман-Карп.Кар.К.1 ST	NK.1 ST.STK.SIDE*	North Karimian 1ST	"N.North Karimian 1 ST.STK.SIDE*"; "Karimian N.North 1 ...	226/501	Well63	Wells_170518v1	0	0
North Karimian 1	North Karimian	Сев Кариман-Карп.Кар.К.1 -ST	NK.1 -ST.STK.SIDE*	North Karimian 1	"N.North Karimian 1 -ST.STK.SIDE*"; "Karimian N.North 1 ...	667/1369	Well62	Wells_170518v1	0	0
Karimian 8	Karimian	Кариман-Карп.Кар.К.8	K.8	Karimian 8	Karimian 8	525/2196	Well61	Wells_170518v1	0	0
Karimian 7	Karimian	Кариман-Карп.Кар.К.7	K.7	Karimian 7	Karimian 7	322/1531	Well60	Wells_170518v1	0	0
Karimian 6ST3	Karimian	Кариман-Карп.Кар.К.6 ST.3	K.6 ST.STK.SIDE* 3	Karimian 6ST3	Karimian 6 ST.STK.SIDE* 3	117/350	Well59	Wells_170518v1	0	0
Karimian 6ST2	Karimian	Кариман-Карп.Кар.К.6 ST.2	K.6 ST.STK.SIDE* 2	Karimian 6ST2	Karimian 6 ST.STK.SIDE* 2	6/21	Well58	Wells_170518v1	-3638	0
Karimian 6ST1	Karimian	Кариман-Карп.Кар.К.6 ST.1	K.6 ST.STK.SIDE* 1	Karimian 6ST1	Karimian 6 ST.STK.SIDE* 1	9/59	Well57	Wells_170518v1	0	0
Karimian 6	Karimian	Кариман-Карп.Кар.К.6 -ST	K.6 -ST.STK.SIDE*	Karimian 6	Karimian 6 -ST.STK.SIDE*	321/1641	Well56	Wells_170518v1	0	0
K5G	Karimian	Кариман-Карп.Кар.К.5 G	K.5 G	K5G	Karimian 5 G	3/3	Well79	Wells_170518v1	-900009	0
Karimian 5	Karimian	Кариман-Карп.Кар.К.5	K.5	Karimian 5	Karimian 5	329/803	Well55	Wells_170518v1	0	0
Karimian 4	Karimian	Кариман-Карп.Кар.К.4	K.4	Karimian 4	Karimian 4	519/2252	Well54	Wells_170518v1	0	0
Karimian 3ST2	Karimian	Кариман-Карп.Кар.К.3 ST.2	K.3 ST.STK.SIDE* 2	Karimian 3ST2	Karimian 3 ST.STK.SIDE* 2	203/521	Well53	Wells_170518v1	0	0
K3ST1	Karimian	Кариман-Карп.Кар.К.3 ST.1	K.3 ST.STK.SIDE* 1	K3ST1	Karimian 3 ST.STK.SIDE* 1	8/54	Well70	Wells_170518v1	0	0
Karimian 3ST	Karimian	Кариман-Карп.Кар.К.3 ST	K.3 ST.STK.SIDE*	Karimian 3ST	Karimian 3 ST.STK.SIDE*	220/627	Well52	Wells_170518v1	0	0
Karimian 3	Karimian	Кариман-Карп.Кар.К.3 -ST.-2	K.3 -ST.STK.SIDE*	Karimian 3	Karimian 3 -ST.STK.SIDE*	572/2175	Well51	Wells_170518v1	0	0
Karimian 2	Karimian	Кариман-Карп.Кар.К.2	K.2	Karimian 2	Karimian 2	852/2010	Well50	Wells_170518v1	-3821	0
K16	Karimian	Кариман-Карп.Кар.К.16	K.16	K16	Karimian 16	21/24	Well78	Wells_170518v1	-900009	0

Phase 1: Project Initialisation

- ▶ Identify all documents in the project
- ▶ Derive actual and translated <folder>\<file> names
- ▶ Extract meta data from translated file paths and by document scanning to create virtual file folder hierarchy.
- ▶ GeoSCOPE and XTM operate collaboratively, in the background, to provide translation between >190 languages.



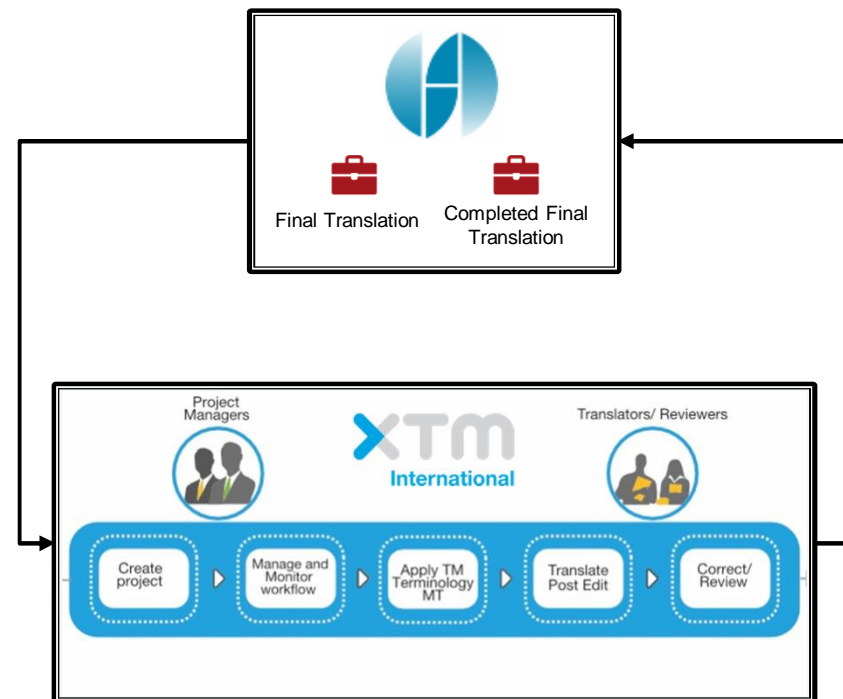
Phase 2: Fast draft document translation

- ▶ Translate individual documents
- ▶ Batch process several files
 - Add to “Draft Translation” briefcase.
 - Completed Translations returned in “Completed Draft Translations”
- ▶ Translated documents stored in a separate folder/file hierarchy
 - Original document is tagged to show that a translation exists.
 - Translated document is tagged to indicate that it is a draft.
- ▶ GeoSCOPE works with XTM and cloud based Machine Translation engines to provide a fast turnaround time



Phase 3: Final document translation

- ▶ Selected Files placed in a GeoSCOPE briefcase.
- ▶ The briefcase contents enter a XTM managed translation process:
 - Quality of the final document(s) is managed by linguistic and domain specialists.
- ▶ Finalised documents are returned to the user/project and are appropriately tagged.





The Beginning

XTM International was formed in 2002 by Bob Willans and Andrzej Zydron

Around the world

XTM International has offices around the world, including United Kingdom, United States, Poland, Argentina, Ireland and Japan



Independent Developer

XTM International is an independent Translation Management System and CAT Tool developer.

Innovative at its core

XTM International launched XTM Cloud a web based Translation Management System in 2010

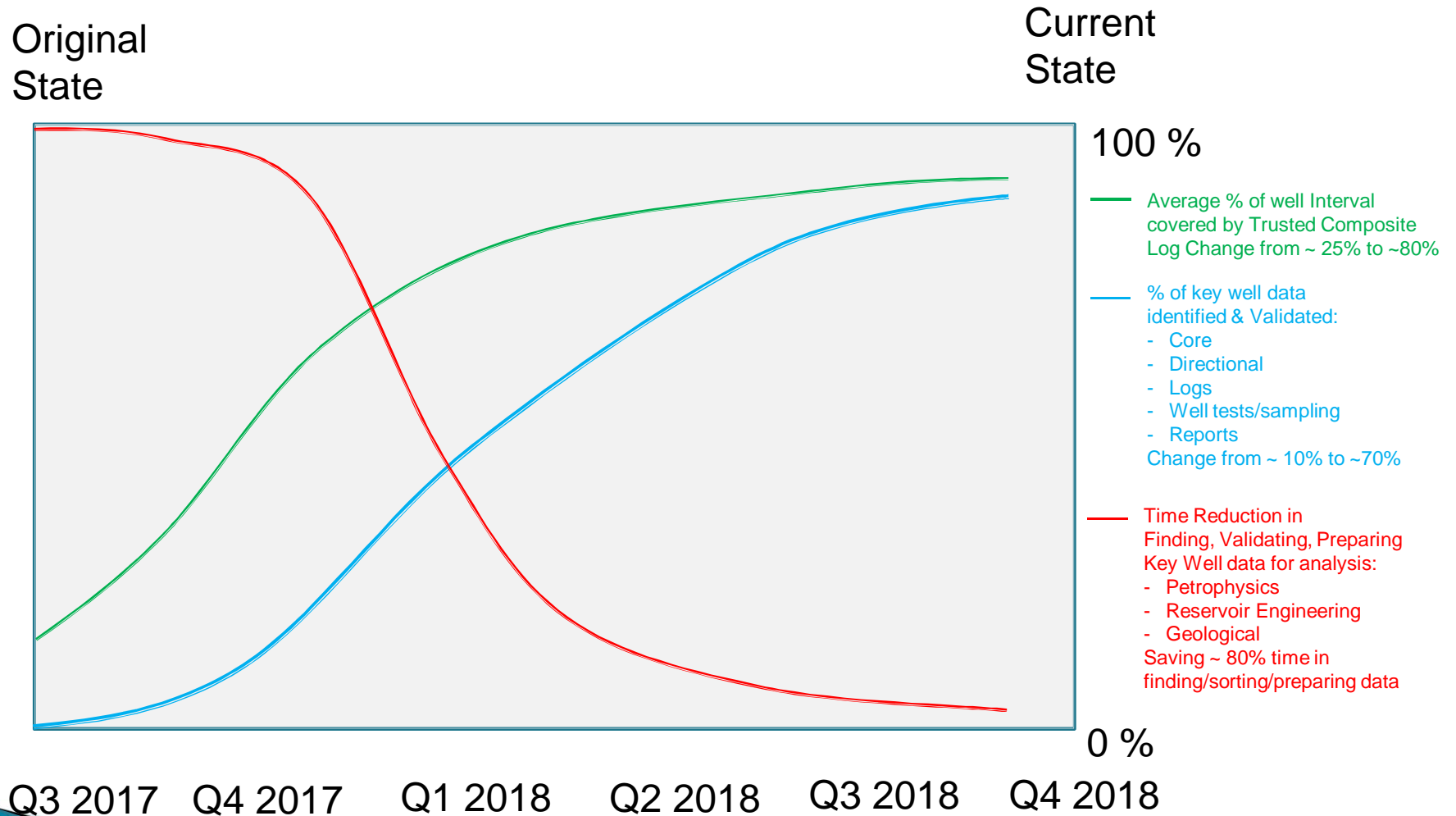


Confidential

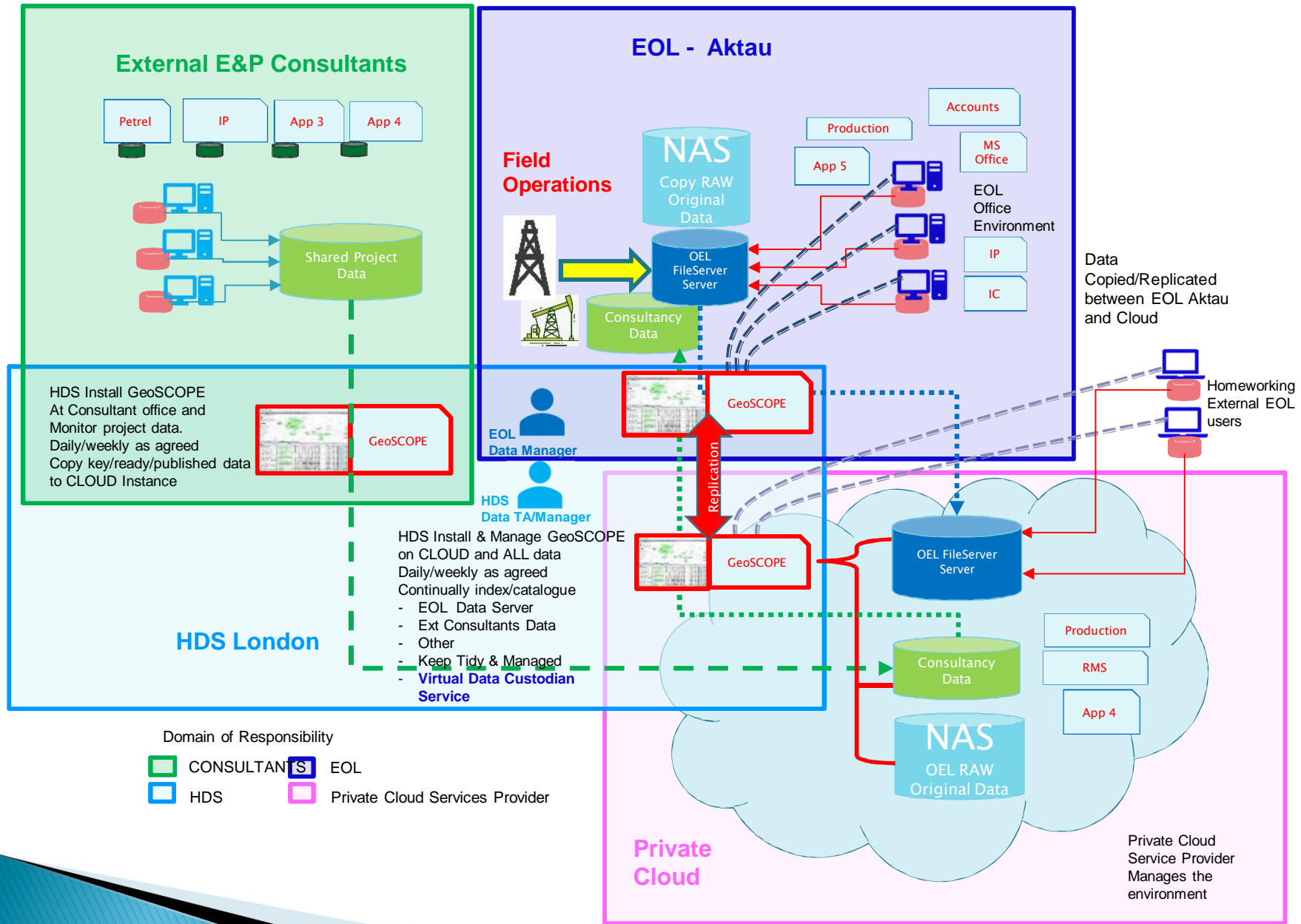
Copyright Hampton Data Services Ltd



Change in IM/DM of Key Well Data for technical users



Developing Data Management Configuration



Example 2 – Nephin Energy Ltd

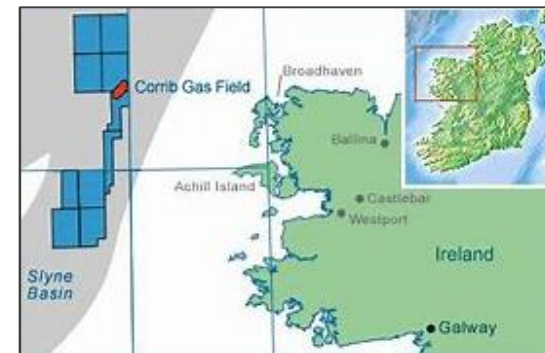


- ▶ New Dublin Registered Company
- ▶ Currently in process of acquiring SEPIL's share of Corrib Gas field – West of Ireland on behalf of a Canadian Pension Fund – CPPIB
- ▶ Corrib Produces ~60% of RoI Gas
- ▶ Non Operator
- ▶ >18TB & 170k of technical data transfer
- ▶ Quick & thorough audit of technical data required

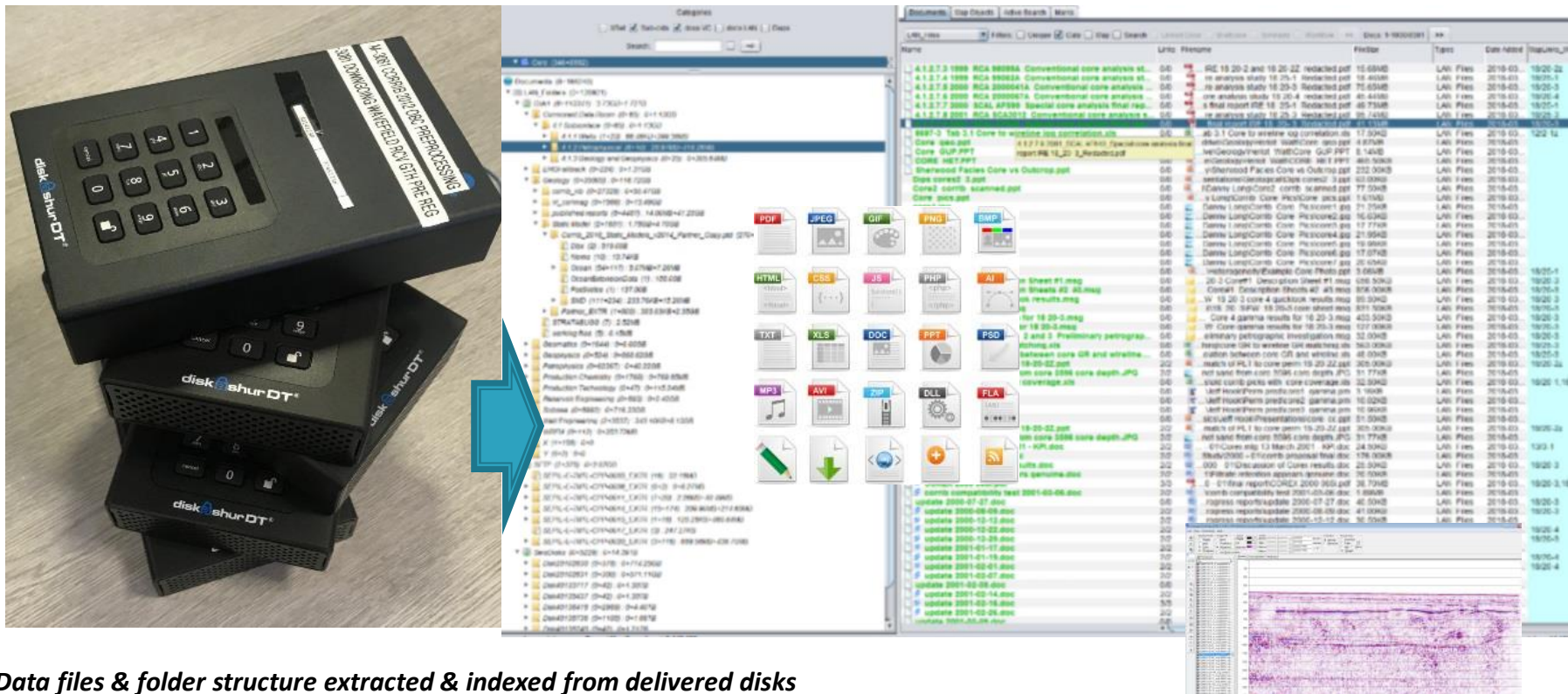
- ▶ NEPHIN wish to outsource:

- IT Infrastructure to the Cloud
- IM/DM

- Technical Services: Geology Geophysics Reservoir Engineering



As part of the transfer process, Nephin is in the process of receiving the SEPIIL technical data package of some 18 TB in disk volume, containing some 170k data files. Seismic data makes up the bulk of this data volume, taking up 15 TB, but other files include all the normal types associated with a producing field including but not limited to wells data, logs, PETREL subsurface models, production data, facilities drawings (CAD DXF DWG files) and ROV surveys



Data files & folder structure extracted & indexed from delivered disks

Key Advantages of cloud based IT and IM/DM

“ **Minimal IT costs in-house (massive total IT cost reductions)**

This is primarily a result from outsourcing of Corporate IT to the CLOUD

“ **Minimal IM/DM costs in-house**

This is primarily the result of outsourcing & virtualising Corporate IM/DM to a ‘CLOUD Ready’ environment using Hampton Data GeoSCOPE and Virtual Data Custodian Service which:

“ **Operates on the data structure “As Is” and therefore avoids the need to create new file folder systems & data duplication**

“ **Operates “Virtually” & flexibly from anywhere, from multiple simultaneous locations, as long as broadband access to the www is available**

“ **Allows easy access to data for consultants & other Co’s as and when needed.**

“ **Keeps ALL Data managed continually in real-time for all operational and evaluation needs, keeping it “Evergreen” and “Validated” 24/7 and “Operationally Ready” .**

“ *Data is Autonomously & Continually*

“ *scanned for :Duplications / New data arrivals / creations /deletions / renames / Changes in file content or file movement*

“ *Mined for content which is extracted from files and records*

“ *Tagged/classified to multiple Taxonomies (client defined) using “intelligent HDS data mining” algorithms (both BI & ML based)*

“ *Tagged/linked to spatial entities (Geo-tagged) – wells, surveys, field, block etc*

“ *Manually Validated as regards set TAXONOMIES (Classes) and SPATIAL Links made,*

Key Advantages of cloud based IT and IM/DM

- “ **Manages ALL “users work & activity ” in the background, WITHOUT the need for the users to be involved in an IM/DM role (and EDMS form filling or data entry to Corp DB) - providing apparent seamless “Lite” E&P IM/DM for the user.**

- “ **Allows users to continue working and creating data, information and KNOWLEDGE without any superimposed IM/DM workflows.**
 - “ *Users have freedom to work, create and evaluate in the style that is most comfortable to them*
 - “ *Petroleum Engineers, Geologist, Geophysicist, etc. can spend max time in evaluation and decision making and minimise time spent in DM & search, therefore releasing them from non-core tasks*

- “ **Efficiently and thoroughly Captures Data, Information, Knowledge & Corporate IP**

- “ **Provides online Data Support Services centre at fixed commodity charges on a per usage basis for:**
 - “ **Workstation loading**
 - “ **Data conversion**
 - “ **Data validation**
 - “ **Digitising**
 - “ **Editing/compositing**
 - “ **Processing etc**

Summary of Advantages of Cloud Based Virtual & Autonomous E&P IM/DM

- “ IT and IM/DM costs are significantly reduced
- “ Allows flexibility & distributed remote working
- “ Provides an “central” automated indexing, classification, geo-tagging of the content on a dynamic shared filesystem, therefore:
 - “ KNOWLEDGE and INFORMATION Created and placed anywhere on the filesystem, by all company users & contractors, is automatically identified, tagged and retained.
- “ The “IM/DM Management” of KNOWLEDGE & IP becomes independent of :
 - “ the users and corporate IM/DM skills and capability, and does not rely on the users to do any “tagging” or” data key-in” or “entry” into a DM systems for future retrieval and search by others.
 - “ the presence of the data originator (or former data owner) in the Company and therefore NEVER lost. It’s quickly, easily & intuitively found by new personnel and other staff unfamiliar with the data, as well as any outside consultants on demand.
 - “ **The Company retains its KNOWLEDGE & IP** once the key staff member/consultant leaves the project or the Company.

E&P Applications on the Cloud – where are they ?

Basic cloud based IM/DM . is here !.

But the big E&P applications providers tend to favour use of ~~their~~ software on their cloud. Reluctant to park it on private clouds. Licencing is generally restrictive.

The majority of the E&P applications are still traditional client server , desktop applications working on in-house infrastructure. Few are web browser / internet enabled. But Virtual Machines can be created on a cloud environment allowing them to accessed and used remotely (providing the licence keys allow).

But ~~some~~ significant E&P software providers, without a large vested interest in promoting ~~their~~ cloud+, are becoming flexible

There are however smaller embryonic E&P development initiatives that are developing browser & cloud based applications



<https://operations.antaeus.cloud/>

Why did we create Antaeus?

O&G Industry challenges of today



Scattered Data,
Impaired Analysis



Siloed
Solutions



Outdated
Systems



Inaccessible
Solutions



Poor User
Experience



Limited
Worksharing



High
Capital Cost



Why did we build our cloud platform?

How Antaeus' platform (GeoFit™) is designed



Data Management



Single Global Platform
Accessible Anywhere



Innovative &
secure cloud
technology



Open to 3rd Party Apps
Continuous Development



Intuitive User Interface,
Improved Connectivity



Internal and External
Workspaces



Scalable Cost
Software As A Service
SaaS model

3
4



GeoFit™ Cloud Collaborative Platform



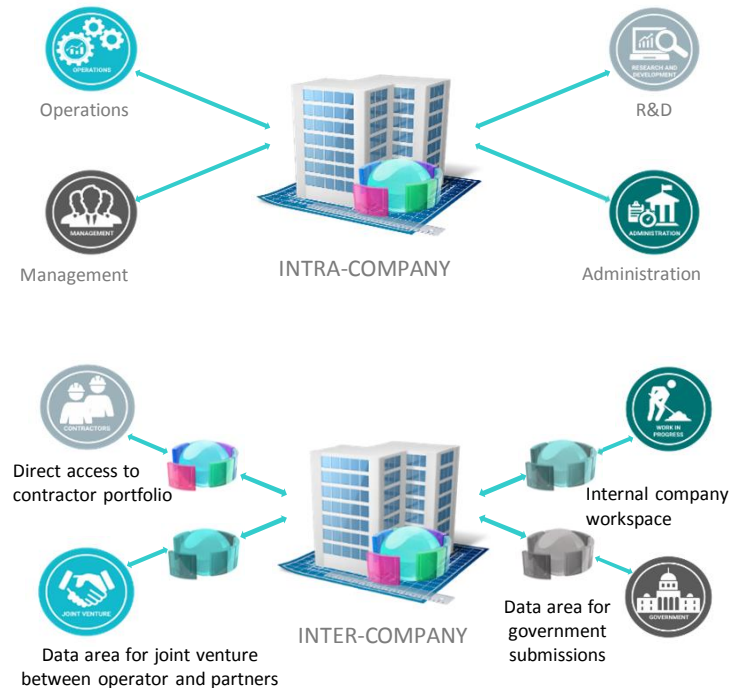
Internal and External Workspaces

Independent internal Project Collaboration Workspaces (PCW)

Partner Collaboration Workspace for external worksharing

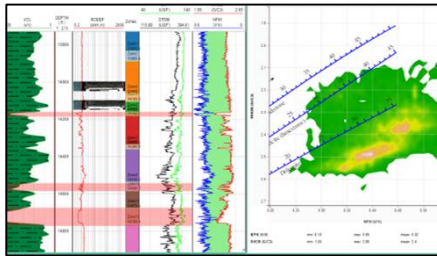
Instantaneous changes reflected on common workspaces

- No breach of security during worksharing
- Preserved confidentiality for projects and negotiations
- Enhanced collaboration within the company and with partners



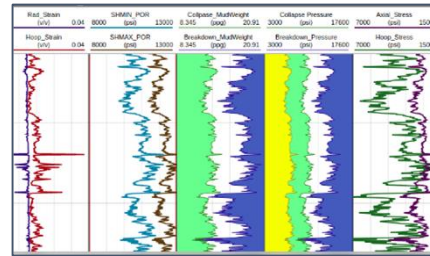
Current Domain Algorithms

Petrophysics



(Conventionals and Unconventionals Interpretation)

Geomechanics



(Pore pressure and Wellbore Stability)

Coming Soon;

Realtime Measurement
Drilling & Completion
Production

+ Custom Development to suit client Requirements



Our Plan.



Open to Third Party Solutions, Continuous Development

- Independent development, no vendor partiality
- Secure hosting for third party applications
- Plan for continuous expansion of Antaeus suite technical apps
 - One-stop shop for all current and future technical software needs on the cloud
 - User freedom to choose best app for the job



3rd party Apps



Partners added monthly

Thank You

Hampton Data Services Ltd

Tel : +44 208(0) 335 4300

Fax : +22 208(0) 335 3863

info@hamptondata.com

www.hamptondata.com