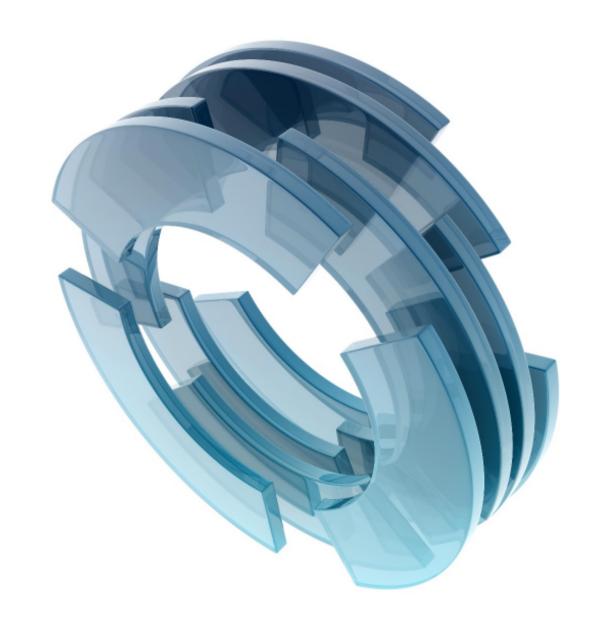
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EMEA TMC client conference Enterprise data management

The Crystal, London 9-10 June 2015



# Agenda

The context – The technology landscape

The data management challenge

The Vertex approach to Enterprise data management (EDM)

Q&A

# Enterprise data management The context

This diagram shows the overall tax technology landscape for the global business tax record to report cycle. It sets out the major product categories and the major products to those categories. There are some 'adjacent' product catagories not shown, for example:

- . Customs and Eartin
- Fland Appets
- . Research and Development
- Employment Taxes
- Environmental Taxes Travel and Expenses
- Manager . Worker Enterprise

SAP Netwower

Portals

Oracke

· CCH Portal

SharsPoint.

#### Process / Workflow

- BM Bushes Proges Marager
- torswipedy Lombards K2 Blackpoint
- ONESCURICE Workstow Manager
- OperRat (Mitatorn, Gobal 360)
- + Worker Workstow Manager

- · COH Portal, Products, Training
- . IEFO Portal Products, Training
- Internet perenal knewledge
- Locisticolis Portal, Products, Training
- TR Checkpoint

#### Data Analytics

- Arasian
- CassWare IDEA
- Longview ArcPlan
- Microsoft Excel / PowerPhot.
- OlikView, OlikSense
- + SAS, IBM SPSS and R + Tableau

#### Document Mont, and Storage

- CCH Document Management
- Coretax Workspace
- EMC Occurrentum XCP
- ERP Systems
- SAP Disclosure Management.

DRMS (Data Record Mgmt Systems)

Scenario Planning and Forecasting

+ BNA Corporate Tax Analyzer

TRI ONESOURCE Global Tax

. Longview Tax Planning

Tax Audit Management

CCH Audit Automation

Cassware Audit

- Iris Open Audit

ShartPoint.

+ TR Flofingm

Autonomy

Manager

Shart/Point.

+ DART (SAP)

+ Anaptan

+ Corptax

Planning

Record Retortion

+ Vertex Enterprise

+ Vertex Document Manager

+ HP Records Manager & P

- Openfloot Enterprise Content

#### **Huskness Systems**

#### ERP systems

- Oracle ERP
- Oracle ID Edwards / PoppleSoft + SAP ERP
- Microsoft Dynamics
- + SME ERPs Digita, Sage, Intuit, Workstay...

### Consolidation, BLG EPM systems

- IIIM Cognes Suite
- · Longview Performance Mgmt. CPM
- Oracle Hyperton Financial Management
- SAP EPM (Financial Consolidation. **Business Planning and** Consolidation SAP HANA

#### Transactional Data Storage / Data Warehouse

- + Bespoke build / combination
- + CCH Global Integrator
- . HIP (SAP, Orade, HPM)
- EM Data Watchouse / Mgmt.
- Longview Tax Data Platform Microsoft Dynamics
- Microsoft SQL Server / PDW
- Vertex Enterprise

#### **Global Provisioning**

- CCH Global Integrator
- Corplax Provision
- Longview Tax

- · Oracle Hyporton Tay Provision
- TR ONESOURCE Tax Provision

. TR ONESDURCE Indirect tax

Winter Enterprise Tax Accounting

#### Indirect Tax Determination

- + ERP native
- + Ayabra - Taxware
- Vortex Indirect Tax

## Tax Return and Information Reporting

#### Direct Tax Return

- + Alefratax (UK)
- + CCH Tax Integrator
- + Corotax (US)

- + Datey (AU, DE, CZ, IT, ES, PO)
- . Iris Business Tax TRI ONESCURCE Corporate Income Tax (UK, US, IR, NL, HC and other APAC
- Wirtox Compliance

#### Indirect Tax Return

- CCH Indirect Tax
- . Dates
- . TR ONESOURCE Indirect Tax
- WAT Applications IVAT
- . Vortex International Tax Returns . Other (Incl. US Sales and Use)
- . TR identity for FATCA

## Tax Information Reporting

#### Consolidation, Bi And **EPM Systems**

TR ONESQUECE WorkFlow

**Business Systems** 



Executi

## Manual Barords

### Disclosure Maranement

- CCH Accounts Production
- . IRIS Accounts Production + TR ONESOURCE Accounts

Accounts Production

CauWore Propriets

. Datey

Production + Sage Accounts Production

## BM Cognos opraviously

- Carity Oracle Hyperion Disclesure
- Management SAP Disclosure Management
- Trintoch Cadkney Worktwa Wdesk (WebFillings)

## Tax Data Management

- IBM IntoSphero MDM
- Simples
- + Oracle MDM Suite
- + Winshuttle (SAP):

### **Key Outputs**



# Provision Reports







## Data Analytics

Data Collection and Transformation

+ TR Data Mgmt Solutions (DataFlow,

+ Vortex Enterprise - Data Collect

+ Longview Data Collection

- Amptan

+ Comptax Data

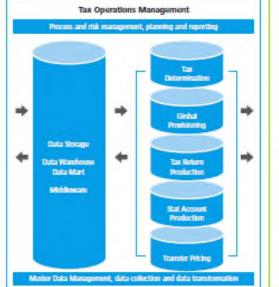
Global Acress

#### Transfer Pricing

+ Corptax Transfor Pricing Architect

+ TR ONESOURCE Audit Maragor

- + Oracle Hyperton Operational Transfer Pricing
- → TR ONESOURCE Coorational TP
- . PubbloAse Hyperion Transfer
- Pricing SAP PCM.
- Transfer Pricing Documentation Solutions, Incl. Til Documenter. Barchmark



- Master Data Management (MDM)
- . Microsoft SQL Server Master Data
- SAP Netweater MDM

# Enterprise data management The technology challenge for tax

## **Technology Landscape**

- Full array of product categories with choices BUT
- No overall platform for tax

# **Current Approach**

- Tactical automation and attempts at interconnectivity
- Problems emerging around data management
- Limited capability to apply analytics and derive insight

## Future moves

- Recent emergence of "process-specific" middleware such as Deloitte Conversion Tool (DCT), VAT Smart
- First appearance of more industrial scale data management solutions
- Portal technology available to create the "Tax Desktop"

# Enterprise data management What data are we trying to manage in Tax?

# **Financial**

- Most statutory accounts
- Paper tax returns
- Tax calculations

- Master file / Local file
- Trial balances
- VAT ledger
- Expense reports
- Forecasts
- Tax payments

- GAAP adjustments
- e-Tax returns & e-Audit
- Share options
- Tax adjustments

# Unstructured

- Valuation reports
- DTA\* recognition
- Tax advice

- APAs\*
- Master File / Local File
- UTPs\*

## Structured

- Employee numbersand locations
- Tax registrations
- R&D timesheets

- Business activities
- Due dates
- Work allocations

# Enterprise data management

The ability of an organization to precisely define, easily integrate and effectively retrieve data for both internal applications and external communication.

Focused on the creation of accurate, consistent and transparent content. EDM emphasizes data precision, granularity and meaning and is concerned with how the content is integrated into business applications as well as how it is passed along from one business process to another."

Source: Wikipedia

# Enterprise data management What is the EDM challenge?

# Wikipedia definition

"The governance challenge can be a big obstacle ...because of the difficulties associated with providing a business case on the benefits ...The core of the challenge is due to the fact that data quality has no intrinsic value. It is an enabler of other processes and the true benefits of effective data management are systematic and intertwined with other processes. ..."

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# Enterprise data management The prize?

Reduction in management effort

Process efficiency

Greater control & visibility

Identifying new tax opportunities

Monitoring effectiveness in existing tax structures

# Vertex



# Managing data across the organisation

"Even where data is available, it remains challenging to organise, store, enrich with tax analysis and ultimately report in an insightful, controlled and efficient manner"

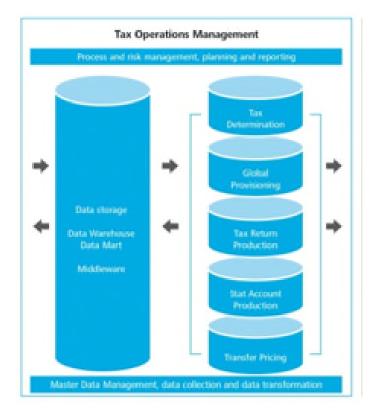


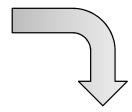
Additionally, the *Velocity* of regulatory change, the *Volume* of data being processed and the *Variety* of information required to support the global transparency is accelerating at unprecedented levels.

<sup>\*</sup>ISO - International organisation for standardisation

<sup>\*</sup>FATCA - Foreign Account Tax Compliance Act

# Basic process flow??????





# ERP & Financial Data (Current & Historical)

### Indirect Tax Data

- US Sales/Use transaction data
- VAT/GST transaction data
- · Customs / Excise
- Environmental / Telecom
- Partial Exemption

### Corporate Tax Data

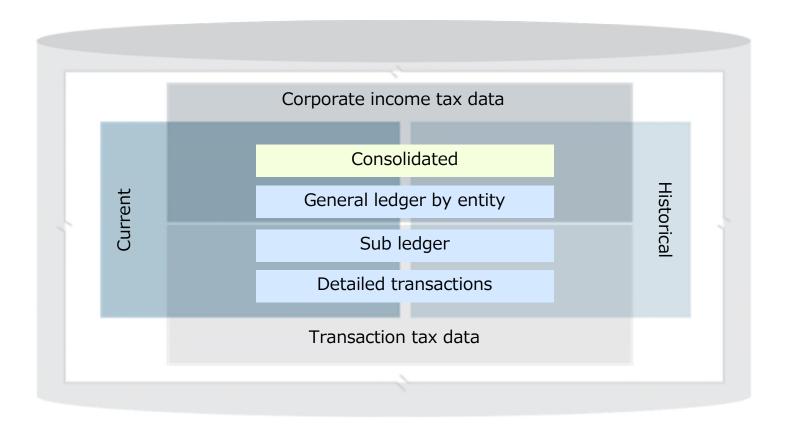
- Legal entity income builder
- Transfer pricing and book-tax adjustments
- · Tax groupings/mapping
- State apportionment

### Secure Accessible Record Retention

- Auditable trail with drill down
- Workpapers/ document management

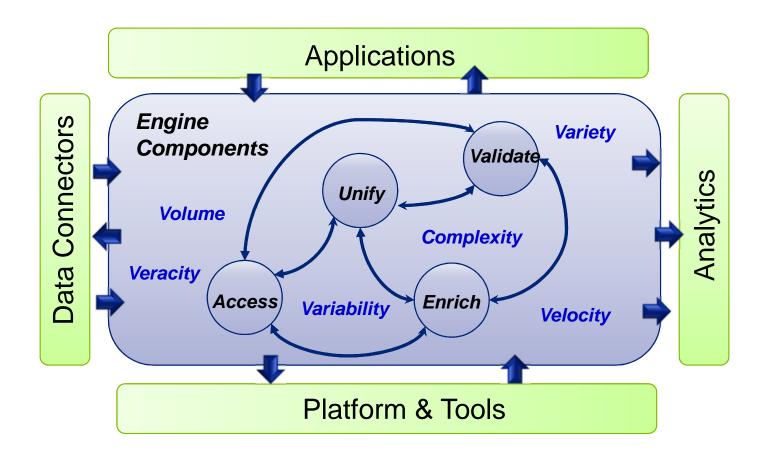
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# Inside the architecture of tax data management





# The architectural engine for tax data management





# Enabling tax management views

## Accounting/ operations

- Global provision
- Tax sub-ledger
- True-up automation
- Tax footnote
- Attest firm audit source
- Account reconciliations

# **Global** returns

- Corporate
- Sales/Use
- VAT/GST
- Other
- Workpapers for all jurisdictions

# Modeling & planning

- Tax planning
- Tax audit settlements
- Tax legislation
- M&A
- Multi-year effective tax rate (ETR), cash tax

## Audit management

- Retrieve data to respond to exams
- Reverse audits
- Direct access by tax authorities
- Auditable trail

## Other

- Country-bycountry reporting
- Harmonisation of transfer pricing, customs & VAT
- Exemption certificate consolidation
- Customer refund workflow



# Summary



# Enterprise data management In summary

EDM is a key component in your tax technology architecture - getting it right will impact positively on all aspects of your tax organisation

The business case to be made should focus on what you can do with it rather than EDM itself

Find the quick wins and build from there

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