SasViya: the connector between source tier & tax relevant data

2021 standard software configuration for tax professionals

From Tax Risk Management to Tax Data Analytics

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Presenters:
Robert de Vries, Ex-nihilo
Steef Huibregtse, TPA-Global

EXNIHILO

Scope & purpose

What does a 2021 standard software configuration for tax professionals mean?

- Layers of software delivering integrated workspot solutions for tax professionals

- Each layer of software has to be connectable

- Each layer must be compatible with process & communication software (i.e. Office 365 or Google Suite)

- Each layer of software must be cloud native

- Cost of combinations of software need to be affordable.

- Demand from tax professionals can be assessed based on the 25 in-house tax challenges.

    - https://www.tpa-global.com/ux-tax-day-digital-training-for-tax-professionals/

Transforming the World of Tax
TPA Global
tpa-global.com

Poll

Question: which issue can you relate to most?

a. How to team up with your Finance and IT colleagues drives the success of the digital transformation of tax?

b. Can you keep up to date with all digital tax filings in the world?

c. Are you constantly worried about your compliance deadlines?

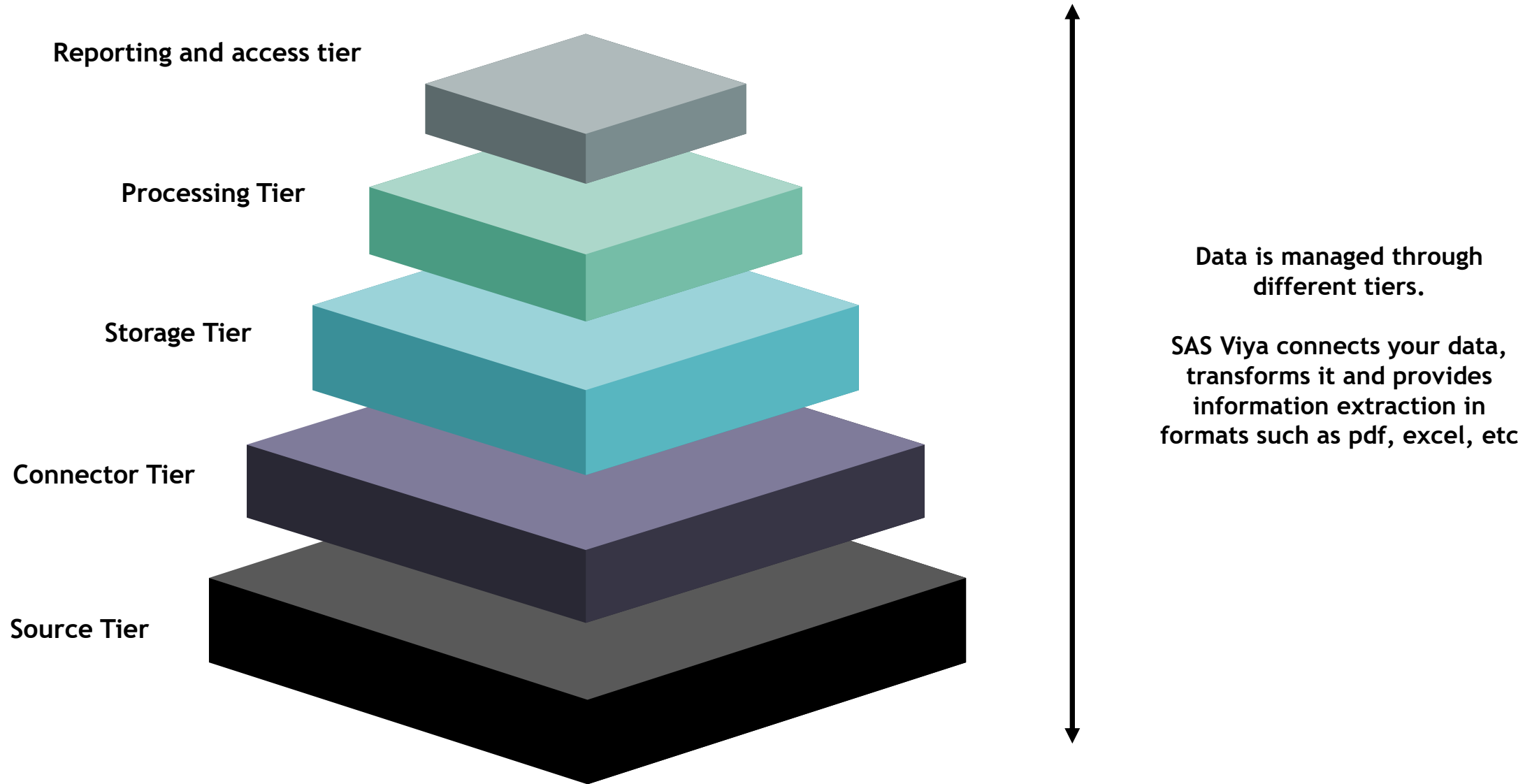# Where are you now? Where are you going?

clickable version available on
www.tpa-global.com

From Source to Dashboard – The Why?

Reporting and access tier

Processing Tier

Storage Tier

Connector Tier

Source Tier

Data is managed through different tiers.

SAS Viya connects your data, transforms it and provides information extraction in formats such as pdf, excel, etc

From Data to dashboard process

ERP

Update

Tax reports

Compliance Tracker

Compliance

Data

Create reports

Information

Database

Data cleaning

Tax Motor

Business Intelligence

Analytics Dashboard

SAS Viya for Tax

Manage entire process with TPA & PawPaw Taxology

**Connect all siloed
data sources**

**SAS Viya as your Tax
Processing tool**

**Extract and manage
Tax reports**
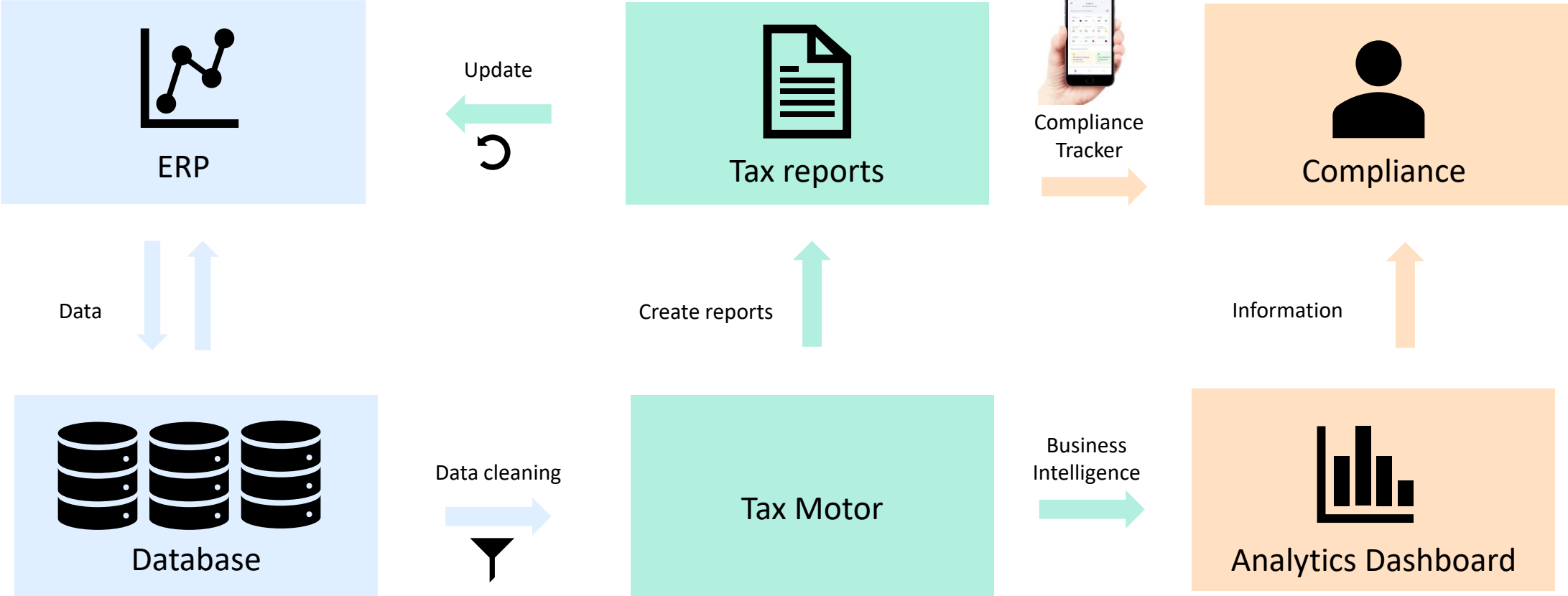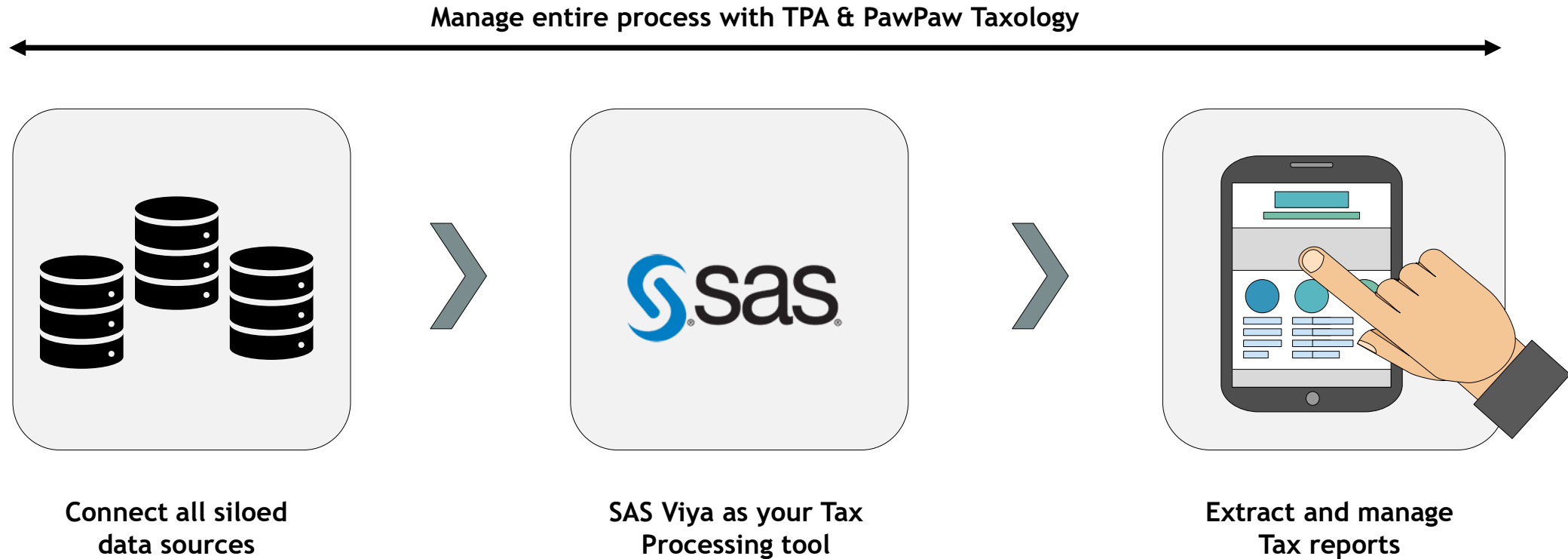
Market Differentiators

1 — **Connect to any source of data**
SAS Viya can connect to any type of DB source

2 — **Multi-language programming**
SAS Viya can read and process multiple languages including R, Python, SQL, etc

3 — **Data Quality Check**
SAS Viya identifies possible data errors to ensure quality, allowing you to transform it and inject it back to the database.

4 — **Latest technology**
Create custom machine learning scripts to make the most of your data.
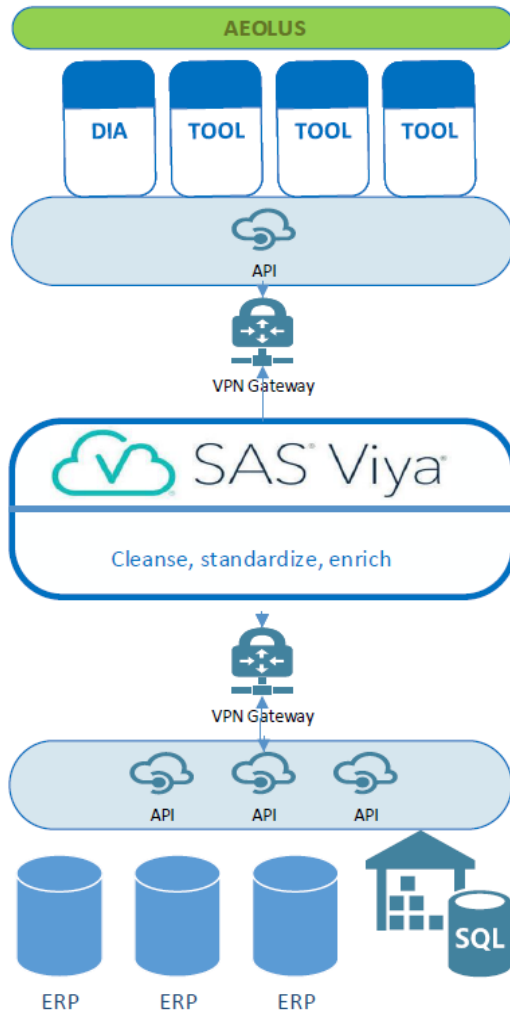
Advantages

Competitors in Data Analytics

Microsoft
Power BI

Salesforce
Einstein Analytics
Tableau

QlikView
Qlik

Players

SAP
SAP Analytics Cloud

Alteryx
Alteryx
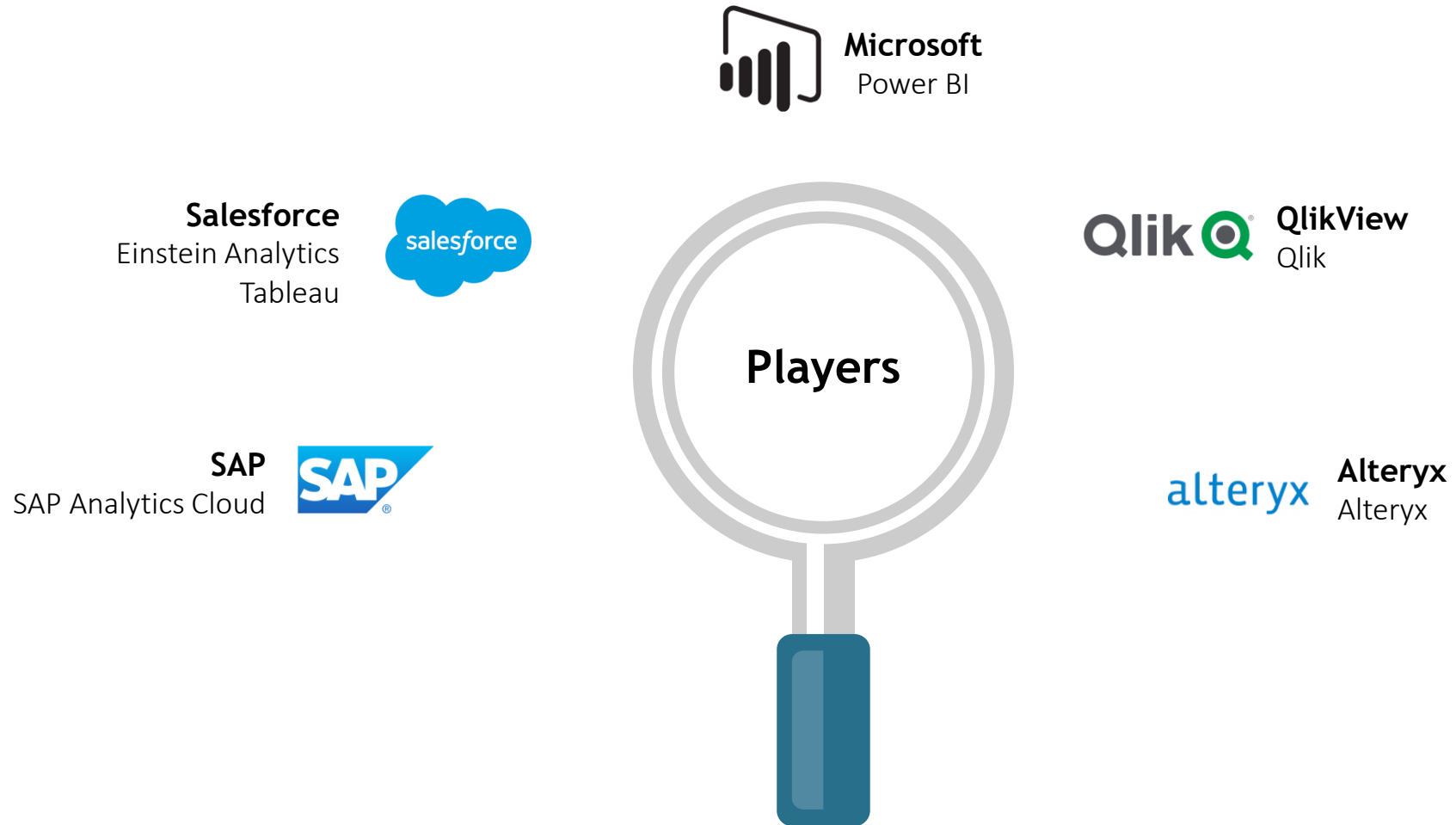
Vision: 21st century tax professional's "workspot" toolkit

- Leverage SAS Viya to cleanse, standarize data

- Update and edit information from SAS Viya: **Single source of truth**

- Customize Tax Templates

- Transform and load templates with SAS Viya

- Risk assessment and error detection alerts from SAS Viya

- Extract reports through various dashboards from SAS Viya:

  - Position report in content manager (DIA)

  - Submit directly to Tax Authorities

  - Update status of documents (Compliance Tracker)

- Integrate via API with 3rd party tax / legal / finance applications

Types of connectors & what they do?

- **API Based:** Corporate's system (ERP such as SAP, Oracle or Xero) can consume with tax technology software. For such API no additional connector required.
- **Data Warehouse:** Corporate's system and tax technology software can connect to a Data Warehouse which acts as a middleware for connection.
- **SQL-SSIS:** Corporate's system and tax technology software connect to a SQL Table which acts as a middleware for connection.
- **File Based:** Corporate's system connects to an intermediate database. Tax technology software application and DSU connectors provide connectivity between intermediate database and tax technology software.

The API based system has 2 blocks, the Data Warehouse and SQL methods have 3 blocks and the File Based method has 4 blocks.

In today's practice: our standard implementation timelines are 4-6 weeks for complex implementations using above type of connectors.

For example the compliance tracker tool has been designed using APIs, it is possible to provide API connectivity to external systems.

Requirements list – Where do you stand?

UX / UI landing page

App Analysis & Middleware

Data Engine Analysis & Middleware

Back end Analysis
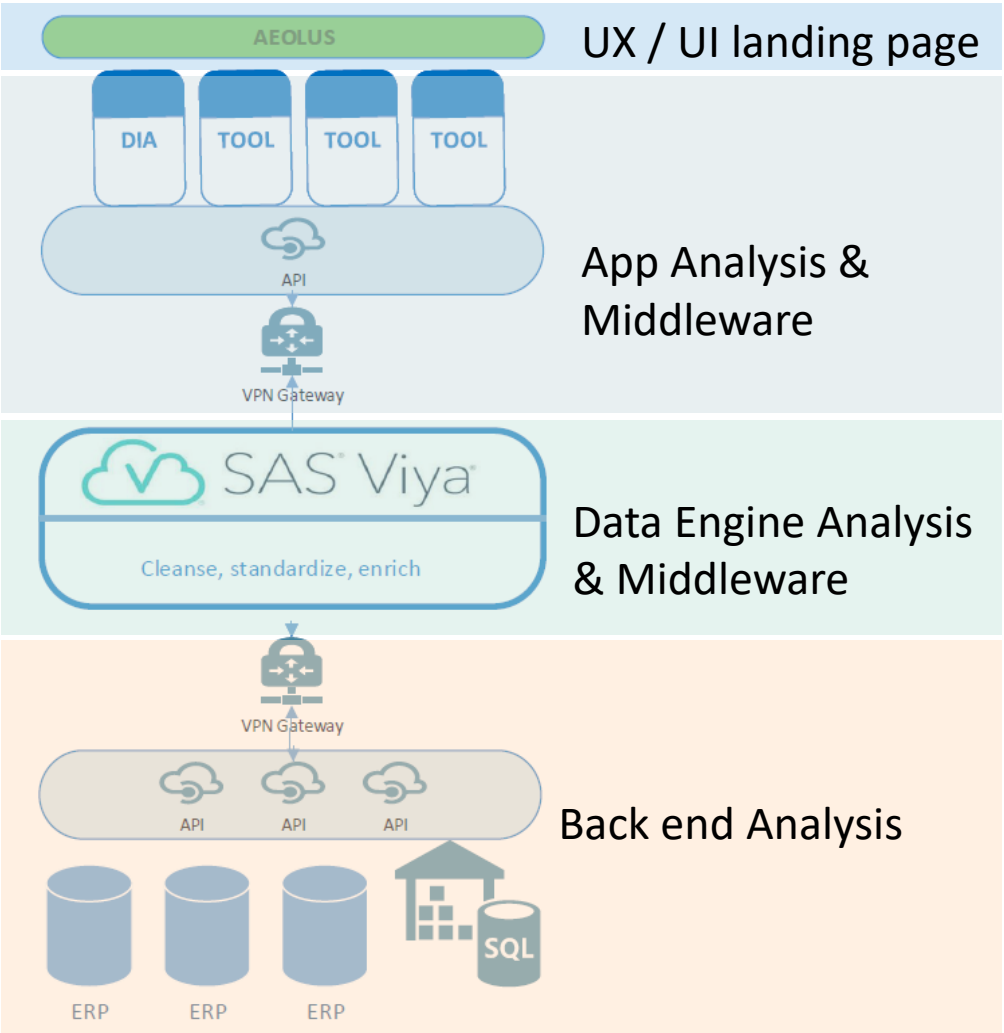
Status Key

Developed
Partially developed
To be developed

Mapping exercise: what dataset and data quality should be migrated through connectors to middleware and/or applications?

Back End

SAP	SAP S/4HANA
	SAP ECC 6.0
	SAP B1
Oracle	Oracle Netsuite
	EBS
Peoplesoft	
Salesforce	
Custom ERP	
Other	Autoline
	Icare
	Mars
	IWEEN
	OFIN
	ORION
	BAAN

Connectors

Middle-layer	Approach	Status	Application

Applications

Mapping exercise for SasViya

Relational databases	Nonrelational databases	PC files	R/3	SAP	ORC Engine
• Amazon • Hadoop • JDBC • ODBC • Oracle • SAP HANA • SAPA IQ • Snowflake • And many more	• Predefined LIBNAME options • DBMS Interfaces for SAS/ACCESS: -MongoDB -PI System -Salesforce	• Reading and writing between SAS data sets and PC Files • Supported formats: -XLS(X) -CSV -ACCESS -WK -TAB -DLM a.o.	• A read only engine for using SAS to access data in the SAP R/3 or SAP BW systems	• SAP BW (register table) Wizard • SAP (R/3 (register table) Wizard • SAP Server Wizard • SAS Data Surveyor for SAP (on SAS RFC)	• SAS Base LIBNAME Engine

"9 out of 10 digitalization projects fail due to poor communication between IT, Finance and Tax"
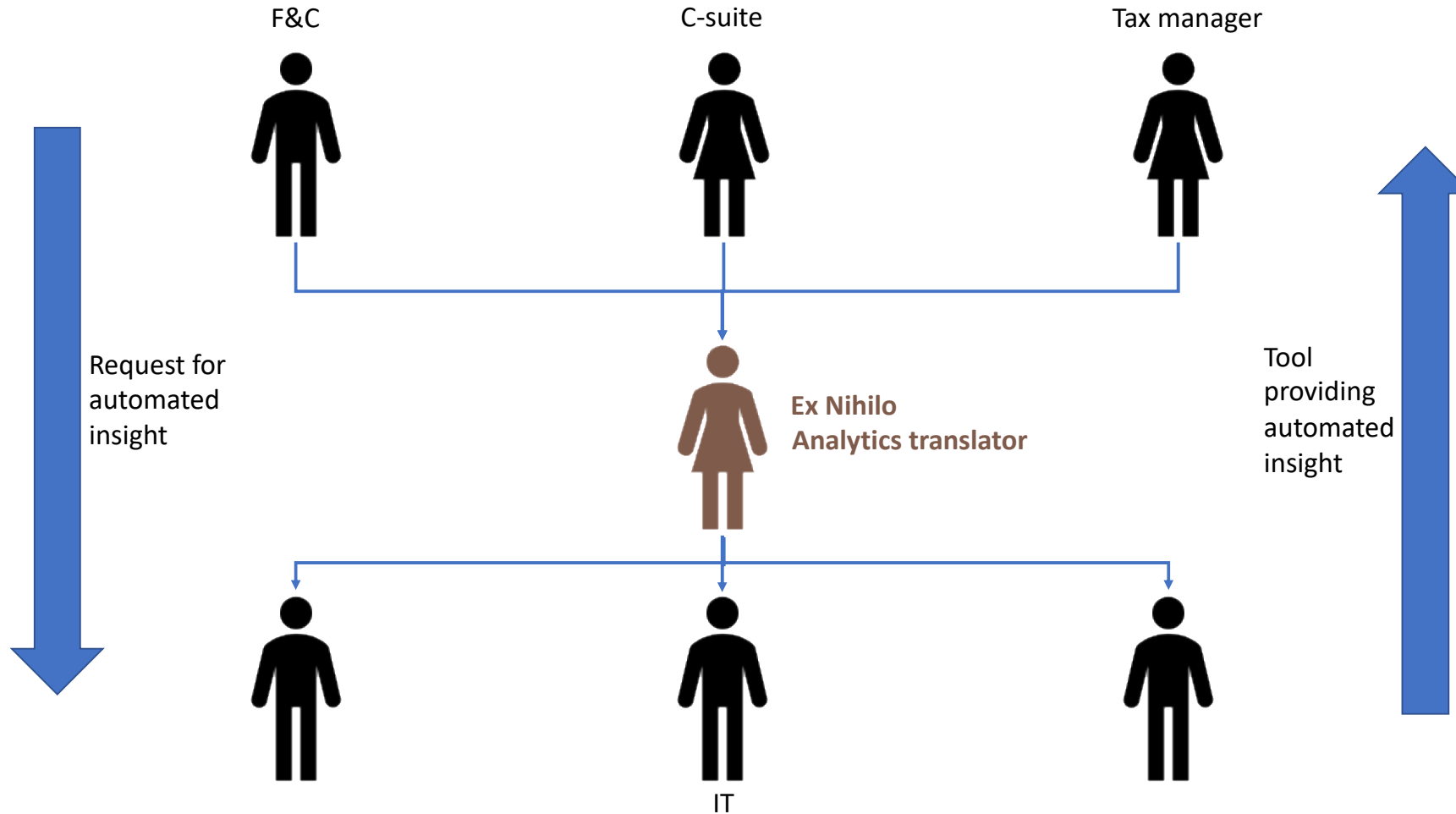
Poll

Question: What do you fear most?

a. A public CbCR on your website?

b. Real-time assessment by tax authorities on your invoices and other tax relevant data?

c. The lack of support on internal digital projects, which are aimed to disclose in a timely matter your tax forms to tax authorities?

d. Lack of support on digital projects aimed to timely disclose your tax forms

Demo SasViya

From Data to digital mailbox to dashboard reporting to multiple stakeholders

A Data (gathered by Robotic Process Automation)

B Wages
Tax
CIT
Customs
UTC/Tax provision
VAT
TP

C Clean data (reliable to be used in a court dispute)

D (Subjective) Standards: legislation, best practice, experience, public opinion

E Algorithm/AI to determine tax-relevant Delta

F Materiality threshold

G Dashboard

• ETR • Cash (tax) • Reputation • Cost	• ETR • Cash (tax) • UTP • Audit risk • Reputation • Operational impact	• Reputation • Personal liability • Operational impact	• ETR • UTP • Audit risk	• Operational impact • Cash (working capital)
CFO	Audit Committee	C-Suite	External auditor	SCM operations

Tax Risk Register

Tax data engine

Tax risk engines

Tax Communication

CbCr report - the first step by tax authorities to 'tax data analytics' of a multinationals' value chain?

Country Snapshot 2019

BARCLAYS

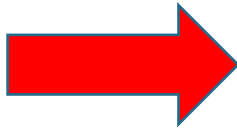| Country	Commentary	Turnover £m (Audited)	Profit/(loss) before tax £m (Audited)	Total tax paid/(refunded) £m (Unaudited)	Corporation tax paid/(refunded) £m (Audited)	Social Security paid £m (Unaudited)	VAT paid £m (Unaudited)	Bank levy paid £m (Unaudited)	Other taxes paid £m (Unaudited)	Public subsidies received £m (Audited)	Average number of employees (Audited)
United Kingdom	We are one of the largest banks in the UK, with operations spanning all business lines. We have been consistently ranked as one of the top four largest UK taxpayers in the last six years. Various factors mean that the profit we report as being earned in the UK differs from the profits on which we are subject to UK corporation tax. In particular, being a UK-headquartered bank, the profit figure includes dividends received from overseas subsidiaries, which are not taxed in the UK as they have already been taxed in the jurisdiction in which those profits were earned. In 2019, we paid no UK corporation tax. This reflected contributions of £1,231m made to our main UK pension fund and the offset of tax losses brought forward from prior years, as well as overpayments in respect of a number of prior years. In the UK, a contribution to a company pension fund attracts tax relief when the payment is made and, when large contributions are made, this can cause taxable profits to vary significantly from one period to another. The bank levy we paid in 2019 was also reduced as a result of taking into account overpayments made in prior years.	13,717	1,367	1,305	–	412	605	218	70	–	48,241

Poll

Question: Any suggestions for next events?

a. More interactive

b. More case studies

c. Comparing software solutions

d. The changing role of tax professionals

Key take-aways

a. Define the desired and required tax insights?

b. Which tax technology software covers source tier to clean data?

c. Which tax technology software injects clean data in tax forms?

d. Which tax technology software converts tax forms in XML?

e. Which tax technology software facilitates filing to digital tax authority's mailbox?

f. How to report your tax risks to multiple stakeholders, which includes tax authorities?

g. What is the required dashboarding for tax compliance and tax risk?

Q&A

Appendix

Data flowcharts tax engines