Using Digital Technologies and Process Control Frameworks to Battle Sales Suppression

Securing the Fisc

PwC's Digital Services

2024C

Presenters

David Deputy

- Director of Strategic Development, Vertex
- Areas of expertise: Finance, Data Management, Analytics, Innovation and use of emerging technologies for tax
- 30 years of US and International tax, ERP, startups, corporate finance, bank regulatory

Goran Todorov

- Managing Director, Data Tech International
- Areas of expertise: Electronic revenue assurance, Certification of invoicing systems
- 14 years in development and implementation of anti sales suppression technologies

Agenda

TOPIC

- Categories of Tax Collection Risk (Goran)
- Common Goals and Compliance by Design (David)
- Opportunity and Outside the US Experience (Goran)
- Key Components (Goran & David)
- Adoption Recommendations (Goran)
- Q&A

TIME

10 minutes

10 minutes

10 minutes

10 minutes

5 minutes

15 minutes

Under Reporting – Falsifying books or deleting sales records

Zappers and phantom-ware - on

or off premise modification of sales records to manipulate ledger

Collected but Unremitted – Lag between collection and payment results in non payment False Expense/Credit/Refund – Creating false records to justify lower income taxes

Wrong Tax Rate – Intentionally or unintentionally applying the wrong rate

Digital Remedies: Focusing on the Transaction Tax Concerns



Under Reporting & Zappers

Ensure all business transactions are evaluated for taxation by securing the data flow to the point of tax determination

Wrong Tax Rate

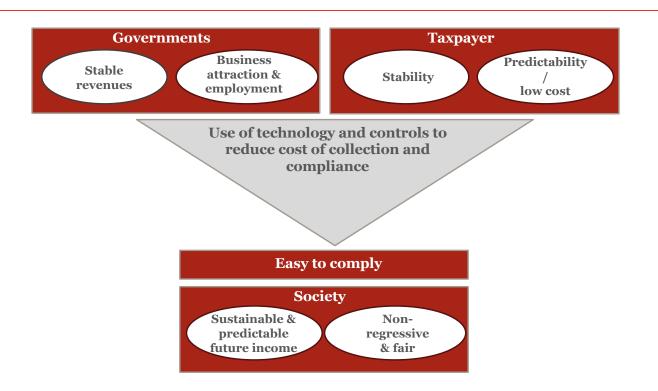
Ensure the appropriate tax rates and rules are applied through use of validated, monitored interaction with a trusted source(s) of calculation services



Collected but Unremitted

Remove the potential for alternative use of funds collected by eliminating the time lag between funds collection and remittance to tax authorities

Moving Towards a Common Objective



Application of Digital Technologies and Process Controls

Digital Technologies – Designed Compliance

• Anti-sales suppression system framework

- Verification of document integrity, inspection and audit
- Trusted Tax Determination: Processes & Parties
- Immediate Remittance
- Leveling the playing field for all suppliers
- User acceptance

Process Controls – Tax Control Frameworks

Enterprise Income Tax Focused TCF	SMB Indirect Tax Focused TCF
Tax Strategy Established	Secured Chain System Established
Applied Comprehensively	All Transactions Processed
Responsibility Assigned	Digital Communications Established
Governance Documented	Notifications of Changes Communicated
Testing Performed	Baseline Established, Changes Tracked
Assurance Provided	3rd party Signoff & Standards Adopted

"Tax compliance by design" recognizes these fundamental changes in the way SMEs operate and shows how tax compliance can become an integral part of the systems businesses use to carry out their daily transactions with one another and with citizens. Tax compliance can become easy and accurate if it is simply a by-product of the steps a business follows automatically to transact. "Tax compliance by design" assembles the different elements of technology on which modern commerce relies into a system that delivers a seamless and secure flow of accurate tax information and tax payments....." 8

Tax Compliance by Design

Centralized Data Approach

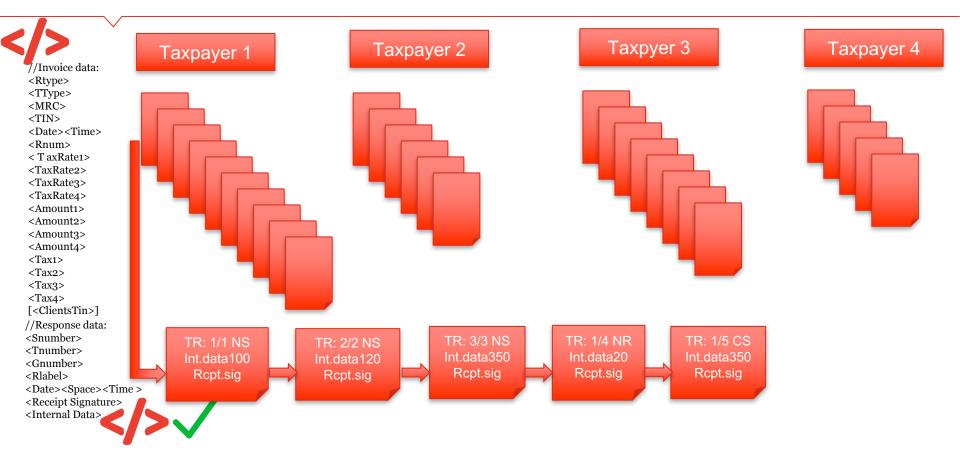
"The idea behind the centralized data approach is to make sure that the revenue body itself can capture as many business transactions from the source as possible in order to determine the right amount of tax to be paid with minimum information from the taxpayer. The role of the revenue body is more about managing the whole process, handling and transforming all information by itself so the need for the taxpayer to provide information on his own transactions is significantly reduced....."

Tax Compliance by Design

Secured Chain Approach

"The idea behind the secured chain approach is to create a secured flow of information from the capture of business transactions to the final determination of the correct amount of tax being paid. The role of the revenue body is mainly to act as a facilitator of needed features in the environment in order to make sure that the flow of information from the taxpayer is secure enough. This reduces the need for the revenue body to handle all of the data by itself and it reduces the need for doing post-filing andits."

The Secured Chain Approach...



Estimating US Sales Tax Revenue Losses

Sizing the Opportunity

6

Sizing the Opportunity



Estimate of over \$16 billion per Year

Unknown

Unknown

...potentially billions of dollars of **lost revenue**

Under Reporting Estimate Details



Double Books



Multiple Vulnerable Sectors

With High Sales Volume

And High Infection Rates

Under Reporting Estimate Methodology

Estimated US Sales Tax Losses			\$ I	Billions	2015		
	# Establishments	Reve	nue	Тах	(Tax Losses	
Restaurant	620,807	\$	740	\$	62	\$ 6.2	Initial Estimated Sector
Bars/nightclubs	68,039	\$	24	\$	2	\$ 0.2	
Dry cleaners/laundromats	59,521	\$	14	\$	1	\$ 0.1	
Hotels	92,331	\$	182	\$	15	\$ 1.5	
Convenience stores	42,032	\$	27	\$	2	\$ 0.2	<u> </u>
Other	n/a	\$	987	\$	83	\$ 8.2	
Total US:		\$	1,974	\$	166	\$ 16.4	Grossed up

... \$16 billion rough estimate based upon little available information

Non US Experience Indicates these Opportunities can be Realized

Argentina Boenia Brazil **Bulgaria** Cyprus China Chile Ethiopia Greece Italy (1983) Jordan Kenya I ithuania Macadonia Malta

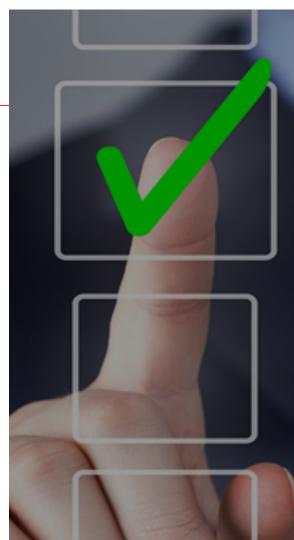


Mexico Moldavia Montenegro Poland Quebec Romania Russia Rwanda Serbia Spain Sweden **Turkey** Ukraine Venezuela...

Tax Revenue Impact Sweden €300 million per year Hungary 15% increase in first year revenue Rwanda increase of 20% over two years

Other Impact

Slovak Republic €500 million risk identified Quebec inspections from 120 to 8000 per year Belgium and Slovenia increased employment



A Modular Framework for Enhanced Revenue

Key Components

Securing the Business Transaction

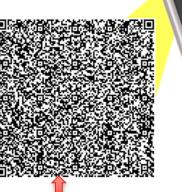
	FISCAL INVOICE
TIN:	444555888
Company:	DTI
Invoice no:	36
Invoice time:	7/12/2017 12:34:10 PM

NORMAL SALE-

It	e	m	າຮ	;	
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VSDC Invoice No Invoice Counter

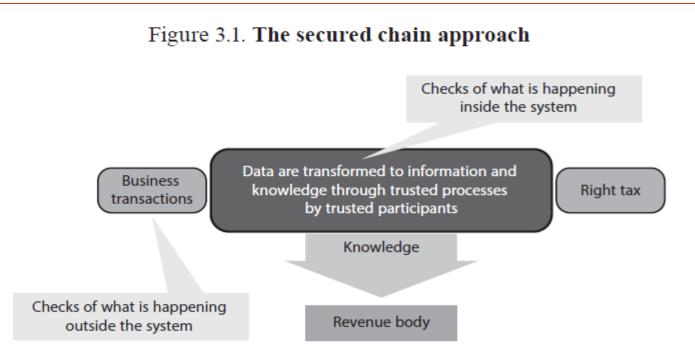
			======
Name Price	Qty.	Total	%
Mountain Bike Socks, L			
9.50	1.00	9.50	9.00
Sport-100 Helmet, Red			
34.99	1.00	34.99	0.00
Total:			44.49
=======================================	======	======	=======
Rate %	Bas	Base	
9.00	8.72		0.78
0.00	34.99		0.00
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 MRC: 6B000000517ACF7AF4	=======	====== 7A00000	0000051
	======= D95B0A	====== 7A00000	0000051
	====== D95B0A3 ======	====== 7A00000 ======	0000051
6B000000517ACF7AF4			
6B000000517ACF7AF4 ====================================	 06E8471		0000052



...digital signatures remove the opportunity for sales under reporting

Fraud detection by the public eye

Securing the Tax Computation



...**trusted processes** ensure the integrity of tax determination

Securing the Remittance





...**real time split payments** remove the lag between collection and remittance

Path Forward

WWW

666

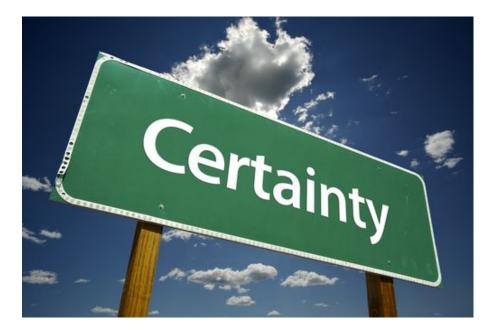
idea 45

Adoption Recommendations

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think in terms of **providing certainty** as a means of attracting taxpayer support



Adoption



think in terms of **legislation around standards** to enable an open marketplace for adoption by trusted parties and supporting organizations





For Additional Information

Request a Copy of the Full Report



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