

International Developments Towards Reliable Information

Ben, B.G.A.M. van der Zwet RA EDP-auditor Dutch Tax Administration Belastingdienst

Programma

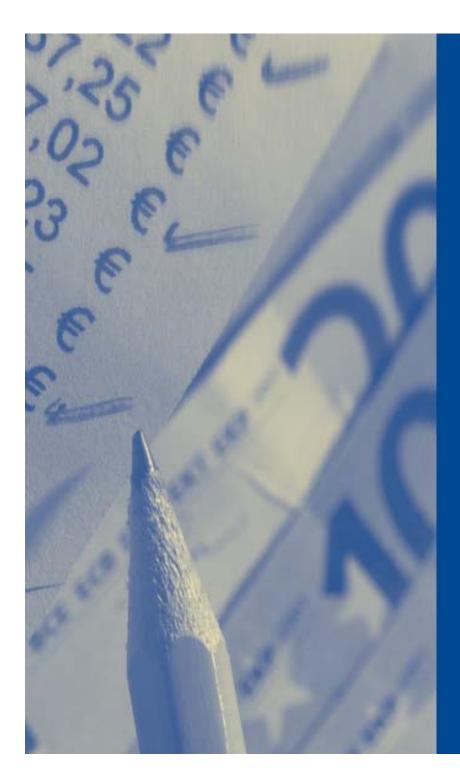
Introduction
Why Governments Care
What is the problem
How can WE solve it

Introduction

- Ben van der Zwet
- IT-auditor
- Cash Registers
 - Investment in knowledge
 - Demands / obligations
 - Criminal Pursuit Developers
 - Fiscalis PG cashregisters I and II

bgam.van.der.zwet@belastingdienst.nl

Belastingdienst



your cash register and the fiscal accounting obligations Securing data

Are the transaction data secured against changes later on?

• Audit trail

Are the data retained and secured in such a manner that it can be traced how these data originated during an audit?

 Auditable within a reasonable period of time Are the data being retained and are they accessible (or: are they in a legible format) in such a manner that a tax audit can be made within a reasonable period of time?

After a certain time can the data still be produced or reproduced within a reasonable period of time? Even if a new (cash) payment system has been bought, or after a version change ?

Has the audit file for cash registers been incorporated in the payment software?

Belastingdienst

- 2 XML Audit file for Cash registers (XAA)
- 2.1 A tool in tax audits
- 2.2 The XAA concept: some background information information
- 2.3 Advantages of the XA!A⁻ Generated at:
- 2.4 XML platform <!-- Generated using:

EC-Design 1.3.5 (htt]

02-07-2007 16:53:54

6

- 2.5 The XAA industry stoper: Generated by: Jeffrey Outshoven, have been and by the belasting tense of tens
- 2.6 Security and packing $\frac{1}{2}$ Organisation: Branche Initiatieven 4
- 2.7 Physical packing and xsd:schema targetNamespace="http://www.auditf: xmins:xaa_nttp://www.auditfiles.nl/XAA/1.2"
- 2.8 Technical information xmlns="http://www.auditfiles.nl/XAA/1.2" xmlns:xsd="http://www.w3.org/2001/XMLSchema" el attributeFormDefault="unqualified">

Account community auditfiles

www.oswo.nl/cso



EUROPEAN COMMISSION

DIRECTORATE-GENERAL

TAXATION AND CUSTOMS UNION

Indirect taxation and Tax administration

Administrative cooperation and fight against fiscal fraud

Restricted – for administrative use only

FISCALIS FPG 12

Cash Register Project Group

Cash Register Good Practice Guide

Belastingdienst



Website: <u>www.itaide.org</u>



Belastingdienst



CALIFORNIA ZAPPERS: A PROPOSAL FOR CALIFORNIA'S COMMISSION ON THE 21ST CENTURY ECONOMY

Boston University School of Law Working Paper No. 09-01 (January 8, 2009) Richard T. Ainsworth

This paper can be downloaded without charge at: http://www.bu.edu/law/faculty/scholarship/workingpapers/2009.html

Belastingdienst

Programma

Introduction
Why Governments (should) Care
What is the problem
How can WE solve it



Belastingdienst

Why Governments Care

Money, Tax evasion 16 % of sales not reported to the sales of sales not reported to the sales of sales not reported to the sales of the sales Quebec \$ 425 million Sweden: 150
 SWEEFOP

CARE FOR A GOOD SOCIETY

Belastingdienst

Care for a good society

Jean-Marc Fournier Quebec: \$ 425 m. = 7.000 nurses Fairness, unfair competition to compliant entrepreneurs to employees Sweden: misuse of alcohol! NL: Safe Taxi Transport USA - EU: Green Lane (IT aide)

Belastingdienst

Why Governments Care

- Euro's , Tax gap
 - Cash registers have a big Tax hole
- Care
 - A fair and safe society
 - An open economy, with fair competition



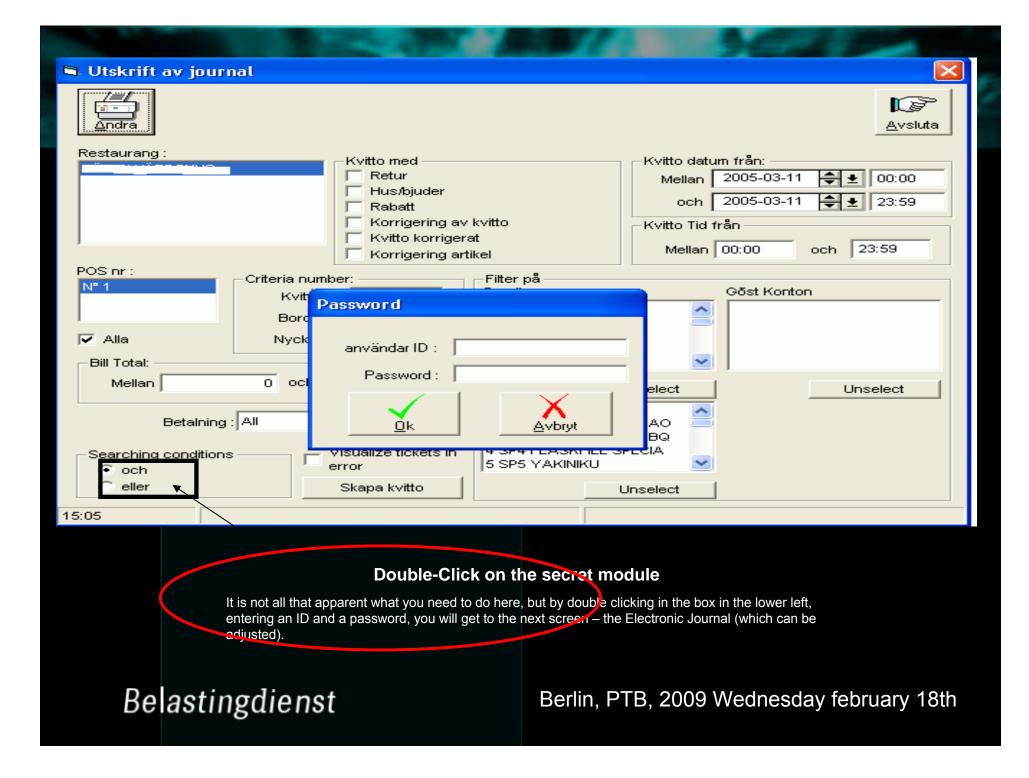
Belastingdienst

Programma

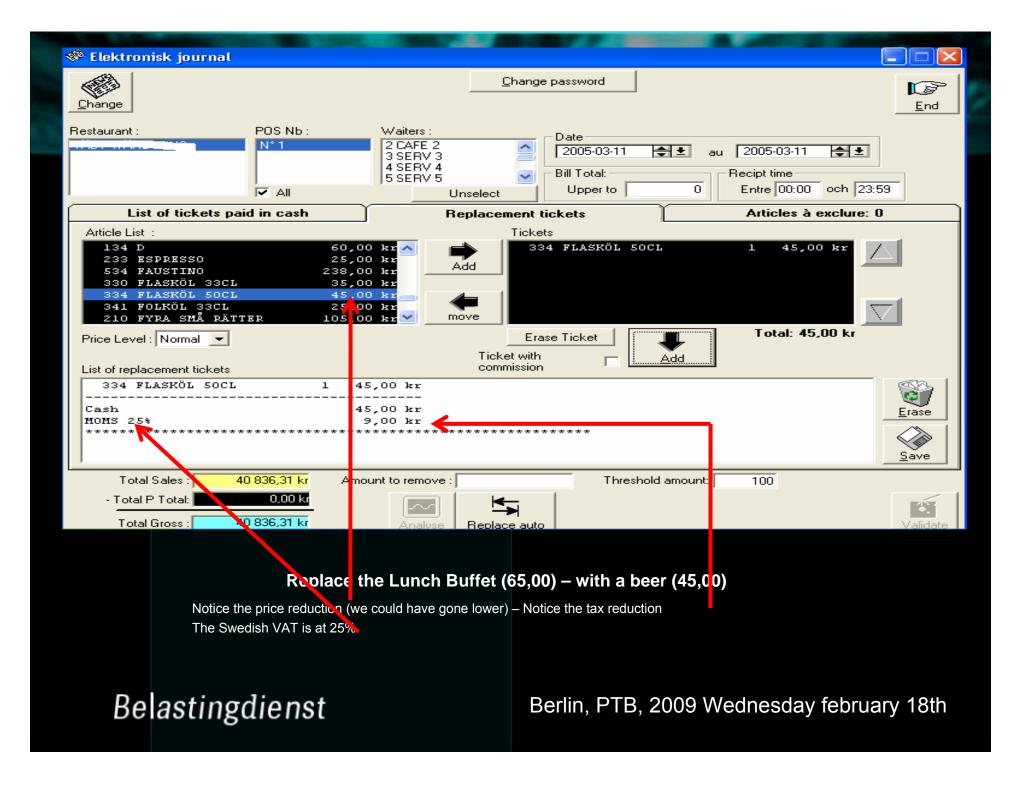
Introduction
Why Governments Care
What is the problem
How can WE solve it

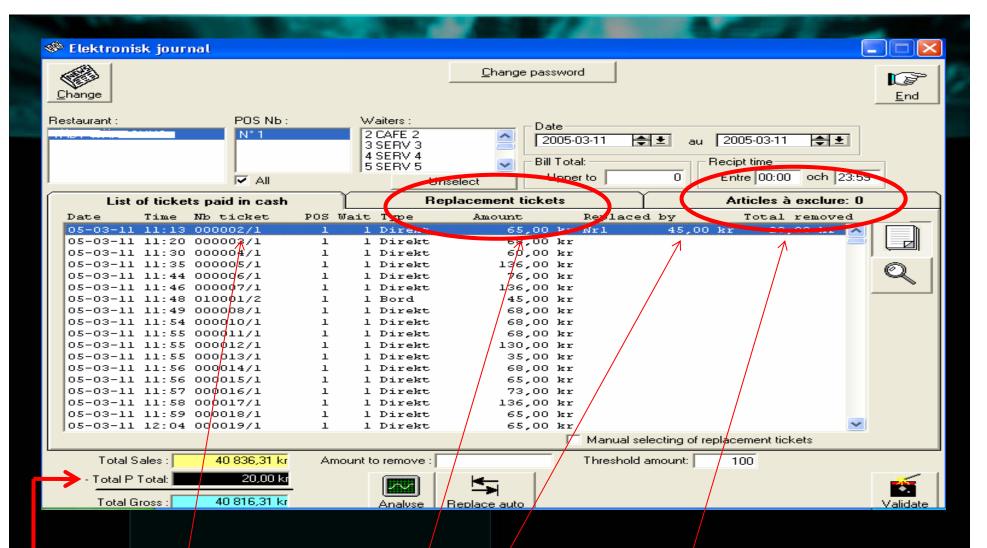
What is the problem

- Zappers and Phantomware
 - Automated sales suppression
 - Programs mis / used for Cash Skimming
 - Phantom ware; internal
 - Zappers, external, USB sticks etc.
 - International!



🏶 Elektronisk journal					
Change	Change password				
Restaurant : POS Nb :	Waiters : 2 CAFE 2 3 SERV 3 4 SERV 4 5 SERV 5 Unselect Date 2005-03-11 $\textcircled{1}$ au 2005-03-1 Bill Total: Upper to 0 Entre 00:1	11 🔹 生			
List of tickets paid in cash	Replacement tickets Articles	à exclure: 0			
Date Time Nb ticket	POS Wait Type Amount Replaced by Tota	1 removed			
05-03-11 11:13 000002/1 05-03-11 11:20 000003/1 05-03-11 11:20 000003/1 05-03-11 11:35 000004/1 05-03-11 11:35 000005/1 05-03-11 11:44 000006/1 05-03-11 11:44 000008/1 05-03-11 11:48 01001/2 05-03-11 11:54 000008/1 05-03-11 11:55 000012/1 05-03-11 11:55 000012/1 05-03-11 11:55 000013/1 05-03-11 11:56 000013/1 05-03-11 11:57 000016/1 05-03-11 11:57 000016/1 05-03-11 11:58 000017/1 05-03-11 11:59 000018/1 05-03-11 11:59 000018/1 05-03-11 12:04 000019/1	1 1 Direkt 65,00 kr 1 1 Direkt 68,00 kr 1 1 Direkt 60,00 kr 1 1 Direkt 136,00 kr 1 1 Direkt 136,00 kr 1 1 Direkt 76,00 kr 1 1 Direkt 136,00 kr 1 1 Direkt 68,00 kr 1 1 Direkt 35,00 kr 1 1 Direkt 68,00 kr 1 1 Direkt 65,00 kr 1 1 Direkt 73,00 kr 1 1 Direkt 136,00 kr 1 1 Direkt 65,00 kr 1 1 Direkt 65,00 kr				
Total Sales : 40 836,31 kr	Amount to remove : Threshold amount:100				
- Total P Total: 0,00 kr		_< 1			
"Manipulate-able" Electronic Journal Notice that we can either (1) select a ticket to adjust, or (2) auto-replace					
So, assume we take the selection of a ticket approach (1),					
When we select the first item (ticket number 2/1) we then get					
Belastingdienst	Berlin, PTB, 2009 Wednesda	ay february 18th			





Manipulated Electronic/Journal (pro-forma)

Here is what we have done so far – is this enough manipulation? Ticket 2/1 has been changed from 65,00 to 45,00 with a reduction of 20,00 on this ticket There is a running total kept (in case you want to remove more)

Belastingdienst

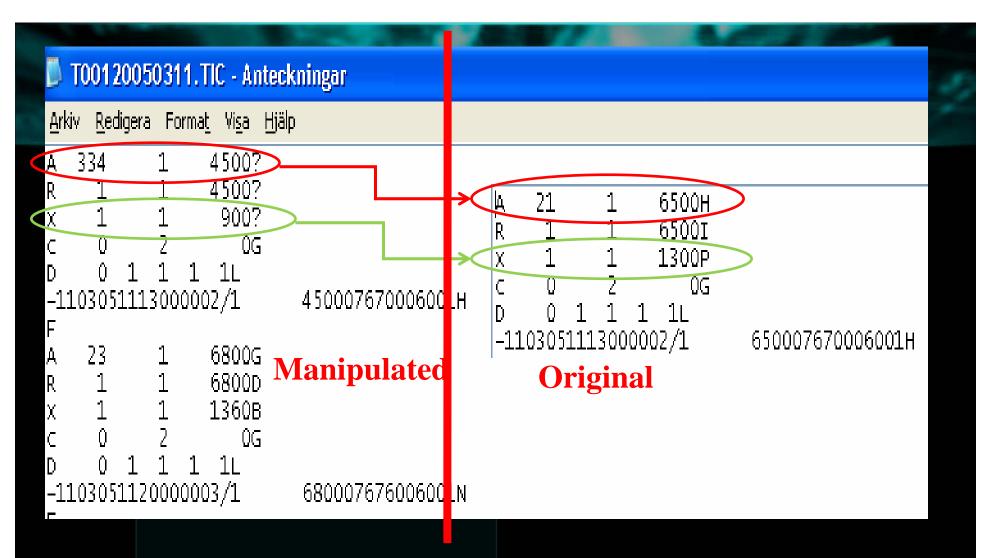
Nr Namn 		Ant	SUM
21 LUNCH B		l	65,00
1 KONTANT MOMS 25%	Original	 1 1	65,00 13,00 (
TOTAL KVITTO Direkt Bord NR:0 2005-03-11 11:13	POS number:l GÄST ANT:l N Kvitto NR:000002/l	Jyk nr:l Servit NR:l	65,00
Nr Namn		Ant	SUM
			45,00
334 FLASKÖL 50CL		1	
334 FLASKOL SOCL 1 KONTANT MOMS 25%	Manipulated		 45,00 9,00

Comparison: Original & Manipulated Electronic Journal

Notice the reduction in gross sales & the reduction in tax.

If this record is tied into inventory control, adjustments in related purchases will be necessary [some zappers will do this for you] because you may have just "sold" more beer than you ordered

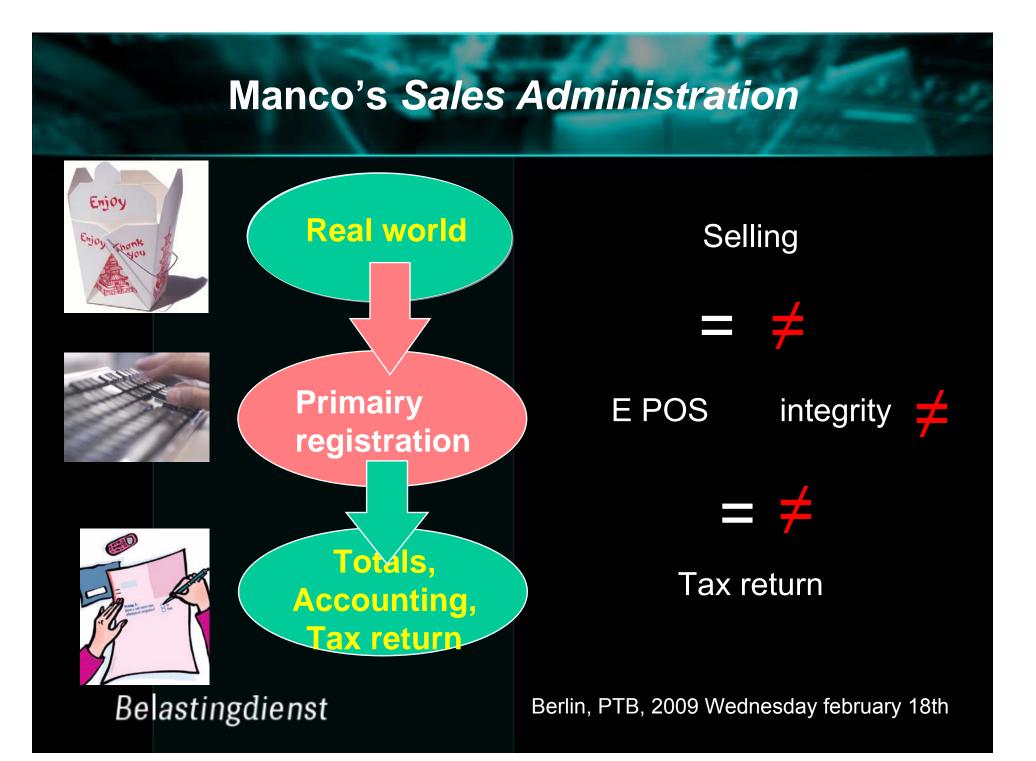
Belastingdienst

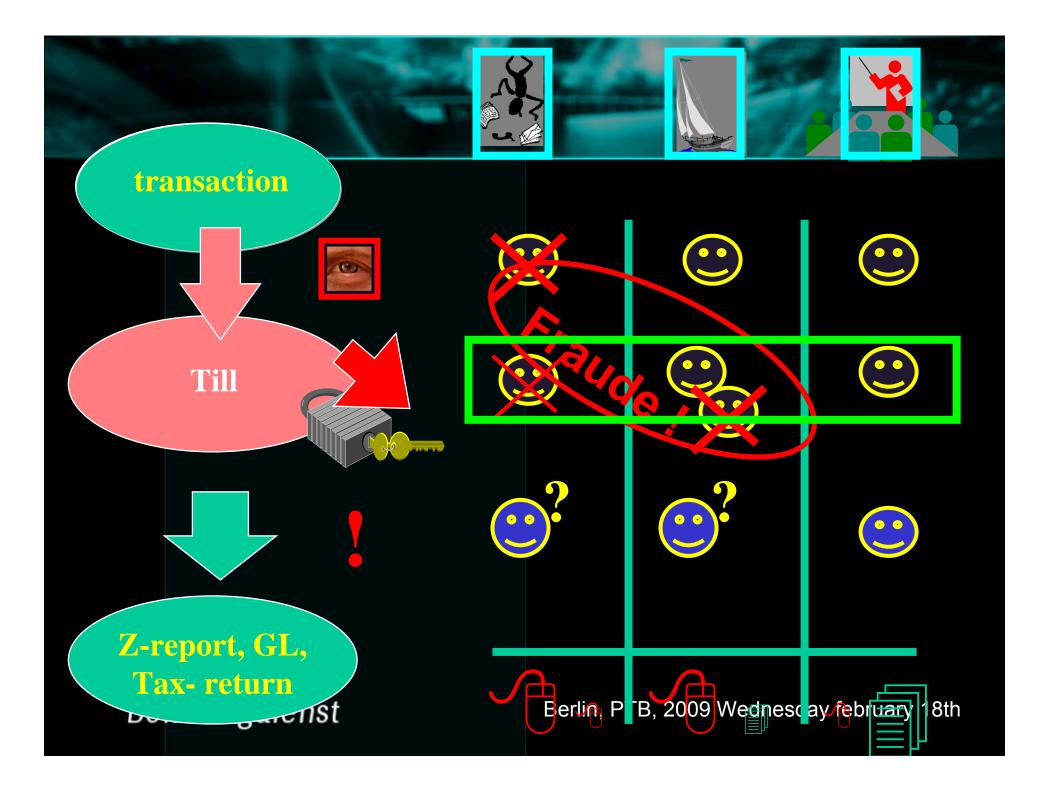


Comparison of the TIC-files – Manipulated & Original

Notice the "?" in the Manipulated version in contrast with the letters "H", "I" & "P" in the original version. This one of the tell-tale signs of manipulation in this particular program. It may indicate that the system has not been correctly updated since the manipulation procedure.

Belastingdienst





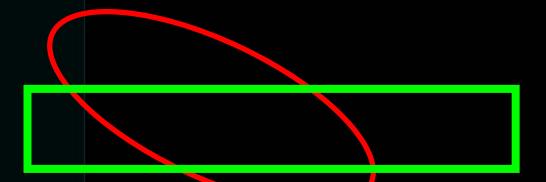
What is the problem



Belastingdienst

What is the problem

- Small : Not registering sales
- Medium : Zappers and Phantomware
- Big : Normally no issue



Belastingdienst

Programma

Introduction
Why Governments Care
What is the problem
How can WE solve it

Why Governments Care

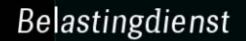
- Euro's , Tax gap
 - Cash registers have a big Tax hole
- Care
 - A fair and safe society
 - An open economy, with fair competition



Belastingdienst

What is the problem

- Small : Not registering sales
- Medium : Zappers and Phantomware
- Big : Normally no issue



PRESENT APPLICATIONS SOLUTIONS – POLICY ORIENTATIONS

Belastingdienst

SOLUTIONS – PRESENT APPLICATIONS **GREECE**: FEDs; FECRs, AFED Printers; FESDs GERMANY **EMBEDDING SMART CARDS IN ECRs** ▶ QUEBEC, CANADA, MEV SWEDEN CONTROL UNIT

SOLUTIONS – PRESENT APPLICATIONS totals > detailed data Secure box > Secure data e-signing, PKI Secure data > Secure view ► IT Aide dia Using Standards CEN, ISO, CC EAL CERTIFICATION OF THIRD PARTY SERVICE PROVIDERS **USA**, SSUTA SAAS ? Belastingdienst Berlin, PTB, 2009 Wednesday february 18th

basic rules;

- Data needs to be stored electronically.
- Facilities have to be implemented to export data to digital data carriers.
- Settings of the software and the adequate database structures must support a proper audit trail.
- Measures must be taken to assure the reliability of retained data.

PRESENT APPLICATIONS SOLUTIONS – POLICY ORIENTATIONS

Belastingdienst

	Greece			
	Turkey	Rules based		
	Hungary			
	Sweden 1 Control Unit			
	▶ Germany ☆ INSIKA			
	United Kingdom	Principles		
	France	based		
	The Netherlands			
	Belgium			
	Ireland			
Belasunguiensi CANADA, USA, SERBIA Deniii, Pird, 2009 weunesuay iebruary				

- Greece
- Turkey
- Hungary
- Sweden 1 Control Unit
- ► Germany ① INSIKA
- United Kingdom
- France
- The Netherlands
- Belgium
- Ireland

Stakeholders Standards ISO, CEN, CC Third Party's SAAS, SSUTA

Rules Based Or Comply

Belastinguienst USA, USA, SERBIA

Programma

Introduction
Why Governments Care
What is the problem
How can WE solve it

Why Governments Care

Euro's, Tax - gap

Cash registers have a big Tax hole WHO PAYS?

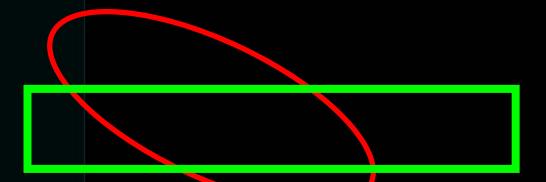
Care

A fair and safe society

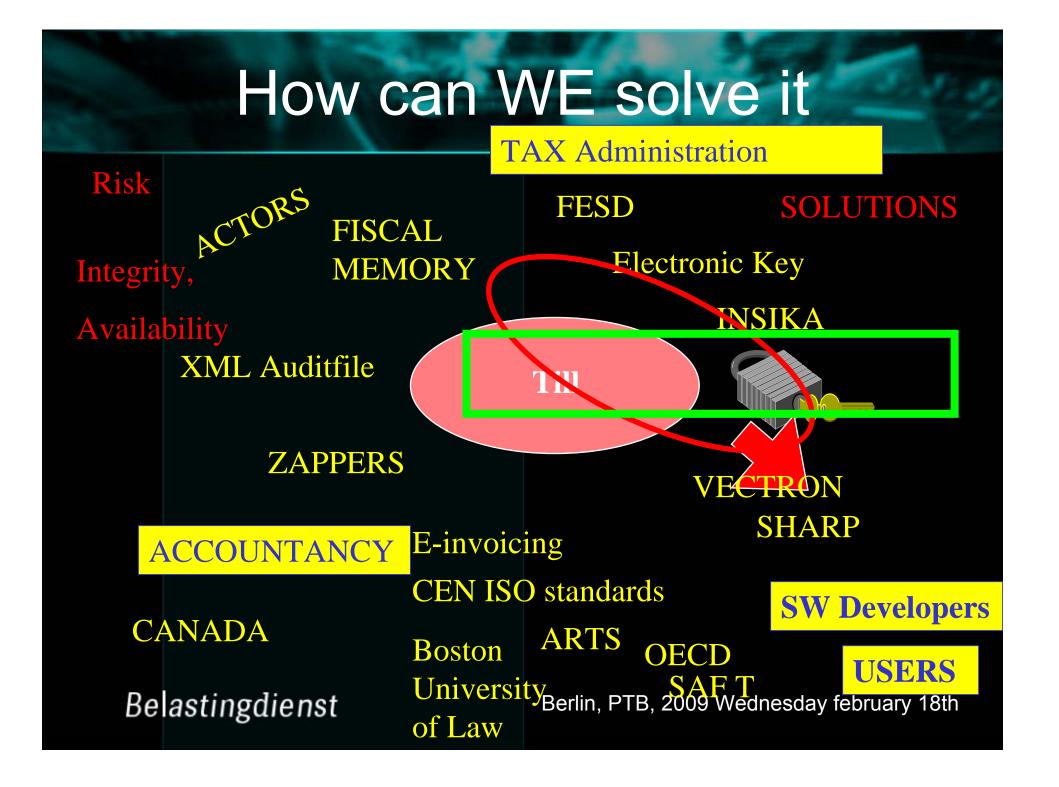
POPOLITICIANS CARE? DOPOLITICIANS An open economy, with fair competition

What is the problem

- Small : Not registering sales
- Medium : Zappers and Phantomware
- Big : Normally no issue



Belastingdienst



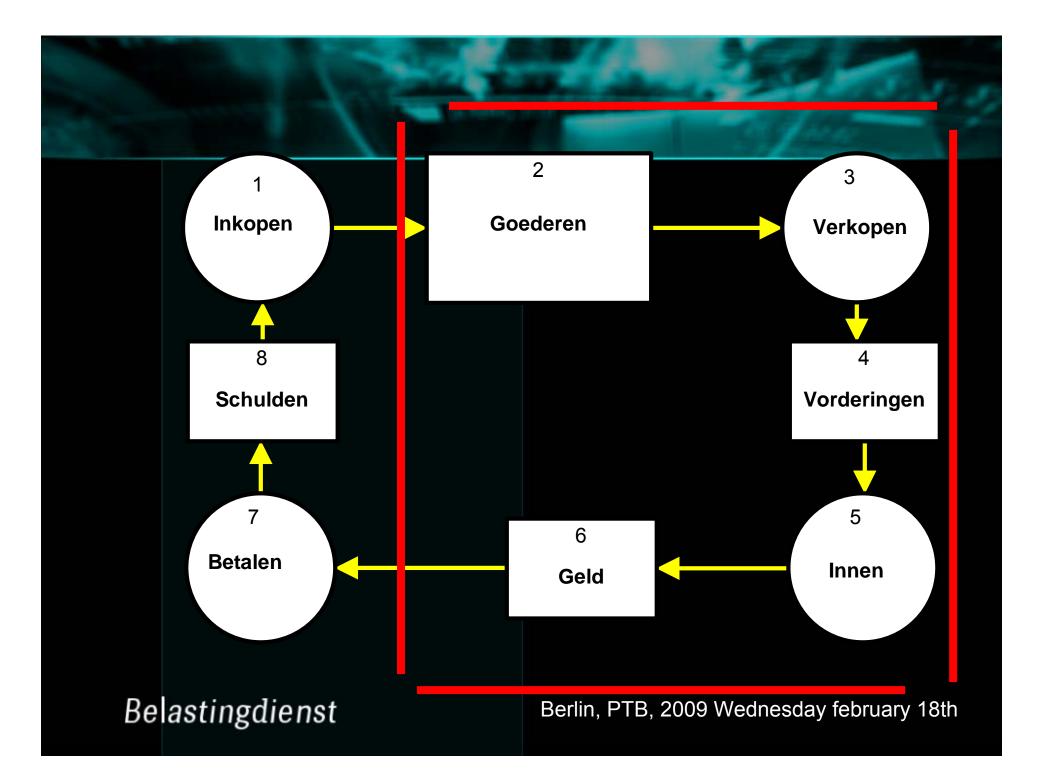
<u>more</u>

Belastingdienst



GRATULATIONS ON WHAT YOU HAVE ACHIEVED !!

Belastingdienst





VALUE CYCLE AND CASH REGISTER

