



SCREENING CHAPTER 29 CUSTOMS UNION

AGENDA ITEM 12: COMPUTERISATION

**Country Session: The Republic of TURKEY
13-14 March 2006**

Towards a Modern Customs Administration

HISTORY

1988-1998

GIBOS (Customs Administrations Integrated Automation System)

- Real-time process
Customs automation system was implemented at three sites
- Batch process
Production of foreign trade statistics

1996

EC-Turkey Association Council Decision No. 1/95 (completion of Customs Union)

Improvement of Customs Administration by means of Information Technologies

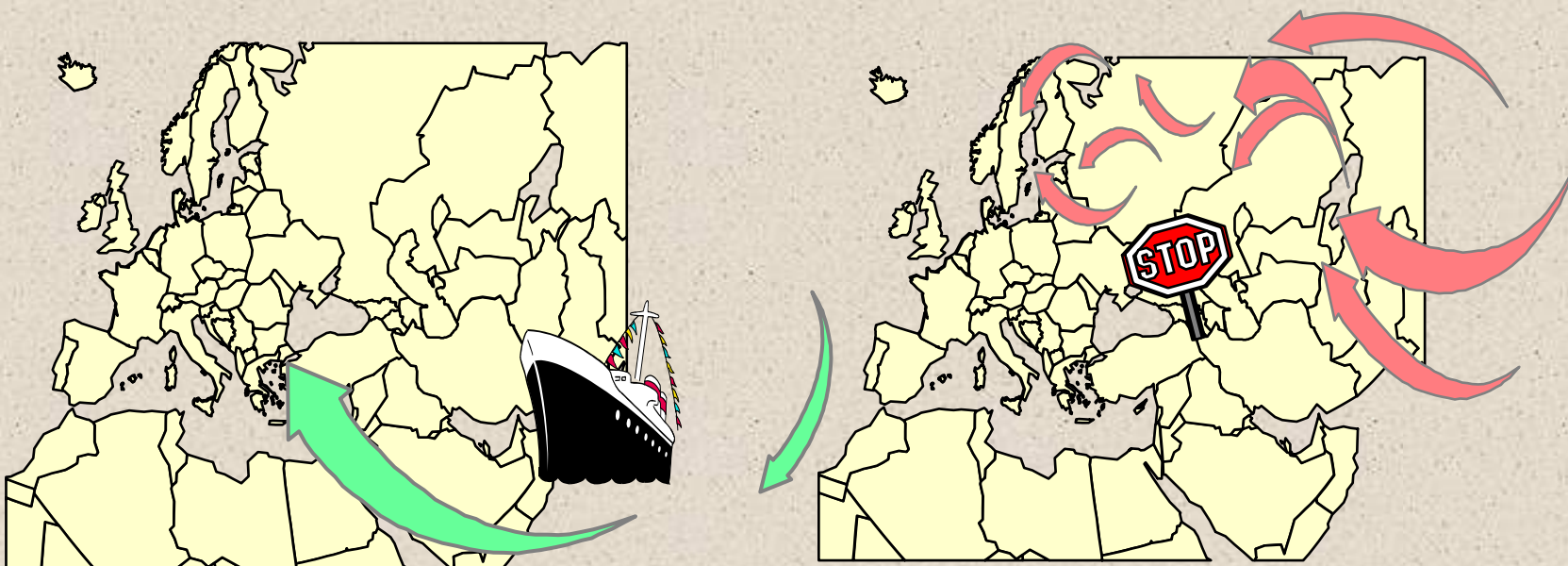
Mission of Turkish Customs Administration (TCA)

Using Information Technologies (IT);

- to facilitate legal trade
- to prevent illegal trade



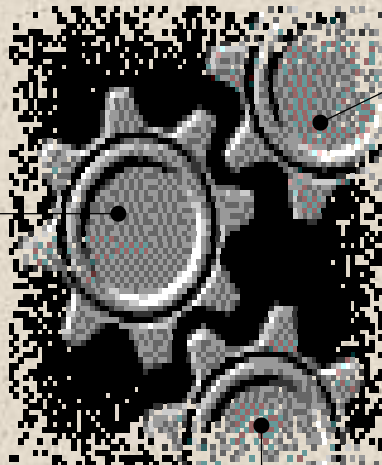
A CHALLENGE: GEOGRAPHICAL CONDITIONS



- situated at the very east corner of the West and at the very west corner of the East.
- on the route of illicit trafficking of narcotics
- neighbouring eight countries with different economic and social structures
- with land border of 2753 km, and coastal border of 8333 km

NOT ONLY AUTOMATION BUT ALSO MODERNIZATION

Modification of customs
legislation and
procedures in line with
the EU Legislation



Re-organization of
customs
administration

Development and implementation
of IT systems for customs
procedures

CUSTOMS MODERNIZATION PROJECT

Objectives

- selective but more effective customs control
- providing better service for trade community
- uniform implementation of customs legislation
- more effective human resources management
- more effective production of foreign trade statistics
- more effective tax collection

STAGES OF CUSTOMS MODERNIZATION PROJECT

**BILGE was introduced
as a pilot application
at Atatürk Airport**

1998



December/1999

**An international
bidding was completed
to deploy BILGE at
other customs sites**

January/2000

**A deployment contract
was signed and
automation studies
were initiated on a
schedule**

AS of DECEMBER 2005

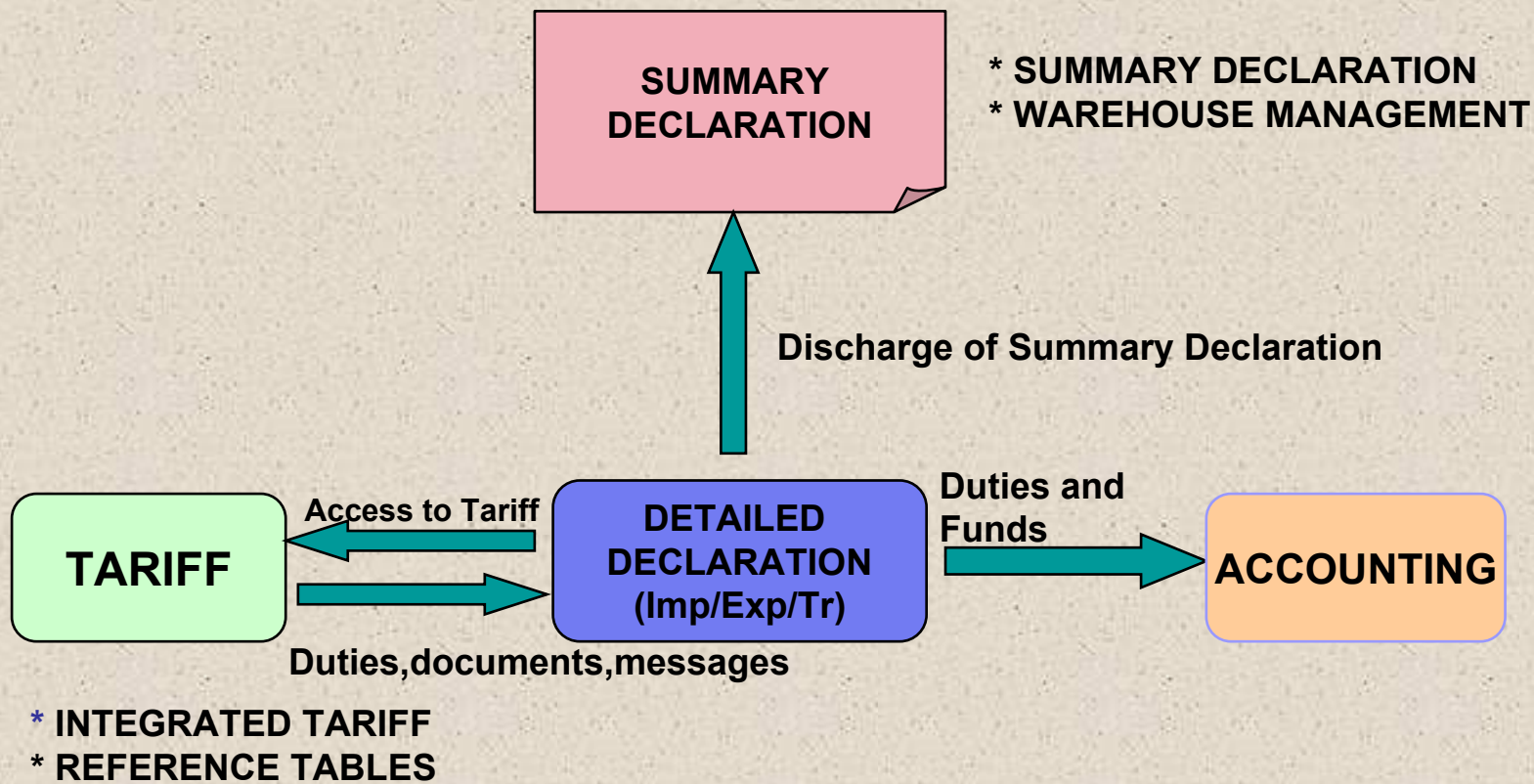
71
Customs Directorates
&
16
Regional Directorates
automated

- the number of annual import and export declarations are 3.99 million
- 99.5 % of all transactions are under automation
- IT infrastructure of the remaining 54 customs directorates have been completed

Under this project;

- IT Infrastructures were established
- customs officers (2.500) and traders (14.000) were trained
- Customs Automation Software was developed

SOFTWARE (BİLGE)



Submission of declarations to BİLGE

- through kiosks provided within the customs directorates
- via Internet

OR

- from traders' offices through EDI (Electronic Data Interchange) messages

KIOSKS



Approximately 600 PCs are available at 71 customs sites for the use of traders

TECHNICAL INFRASTRUCTURE OF BİLGE

- UNIX Operating System on server
Solaris 9 version
- ORACLE RDBMS
10 g version
- C ++ programming and '.net' language
- Client-Server architecture

EDIFACT messages used in BİLGE

- CUSDEC (CUSToms DEClaration report message)
- CUSCAR (CUSToms CARgo report message)
- CUSRES (CUSToms RESponse report message)

bilgtw2: Transfer Log

File Help

Search

Date/Time: 20060208 000000 - Log Id: # Search

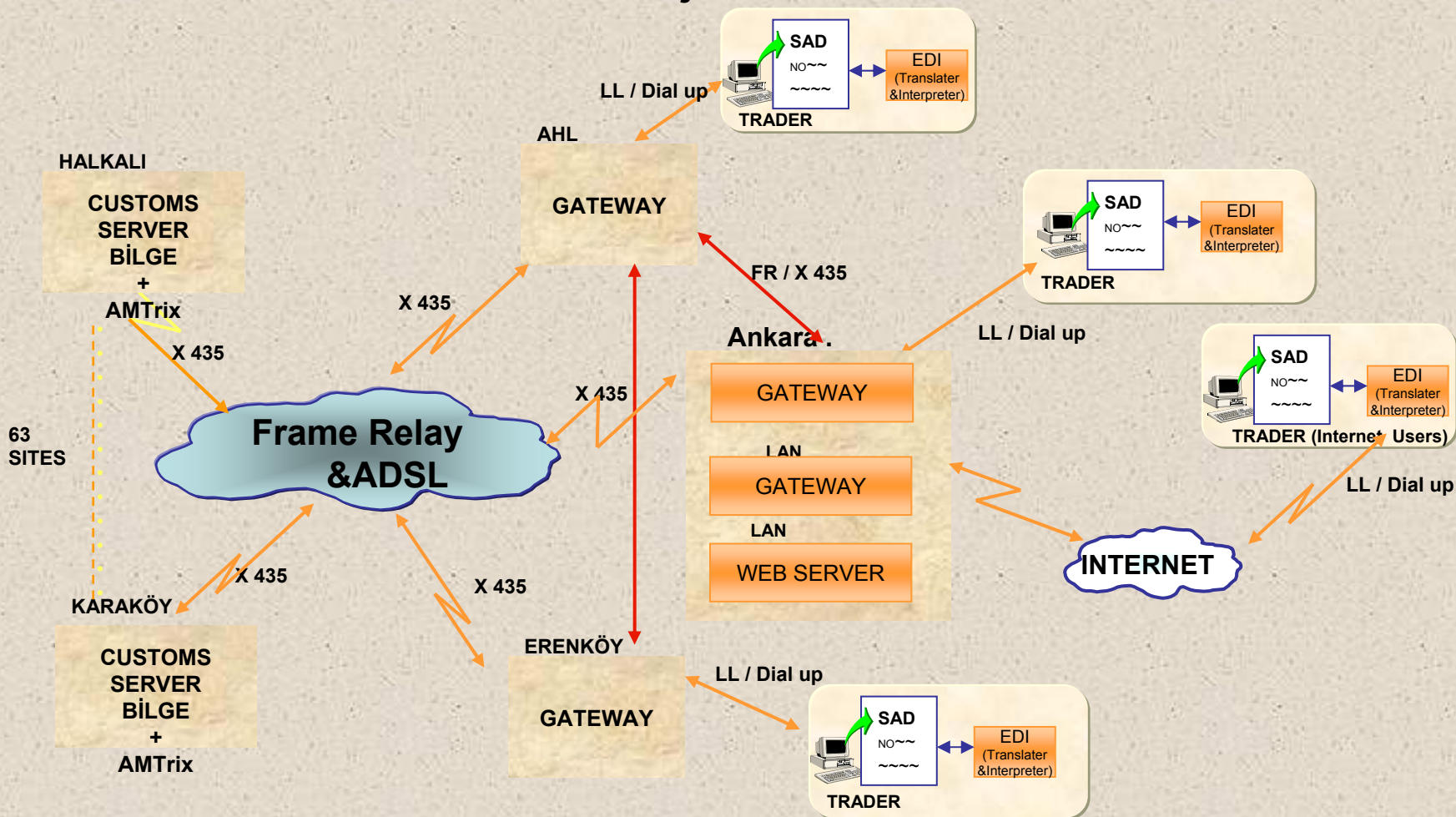
Source: # Type: # Cancel

Destination: # Transfer state: #

Log Id	Date/Time	Source	Destination	Type	Transfer State
11064001	20060208	140421	GH2	FTP	CUSRES SUPERVISED
11064000	20060208	140421	GH2	FTP	CUSRES SUPERVISED
11063999	20060208	140421	GH2	FTP	CUSRES SUPERVISED
11063998	20060208	140421	GH2	FTP	CUSRES SUPERVISED
11063997	20060208	140421	GH2	FTP	CUSRES SUPERVISED
11063996	20060208	140420	GH2	FTP	CUSRES SUPERVISED
11063995	20060208	140420	GH2	X435	CUSDEC SUPERVISED
11063994	20060208	140419	GH2	X435	CUSDEC SUPERVISED
11063993	20060208	140418	GH2	X435	CUSDEC SUPERVISED
11063992	20060208	140418	GH2	X435	CUSDEC SUPERVISED
11063991	20060208	140417	GH2	X435	CUSDEC SUPERVISED
11063986	20060208	140416	GH2	X435	CUSDEC SUPERVISED

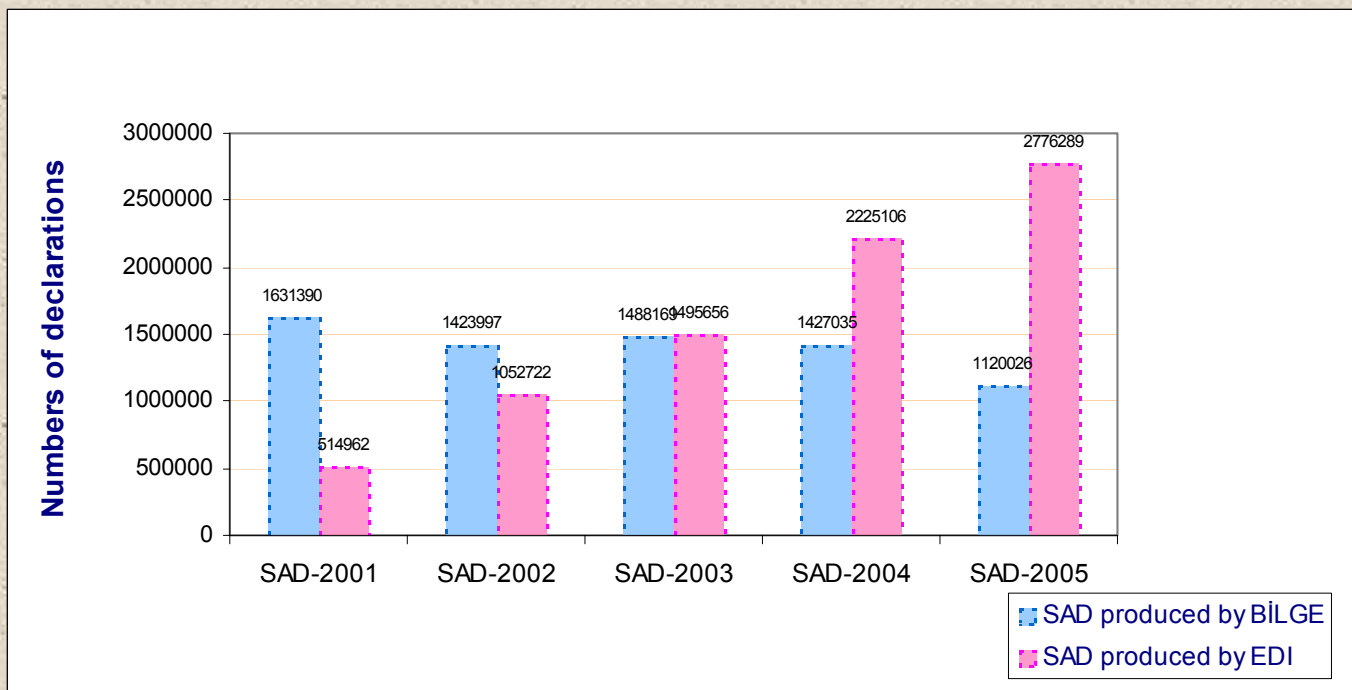
Transfer... Interchange... Trace... Agreement... Associated...

Customs EDI Project Network Architecture



EDI Usage Rates

Rate of Export/Import (SAD) declarations processed by EDI increased from 8% in 2001 to 50.12% in 2003, and reached to 71.25% as of December 2005

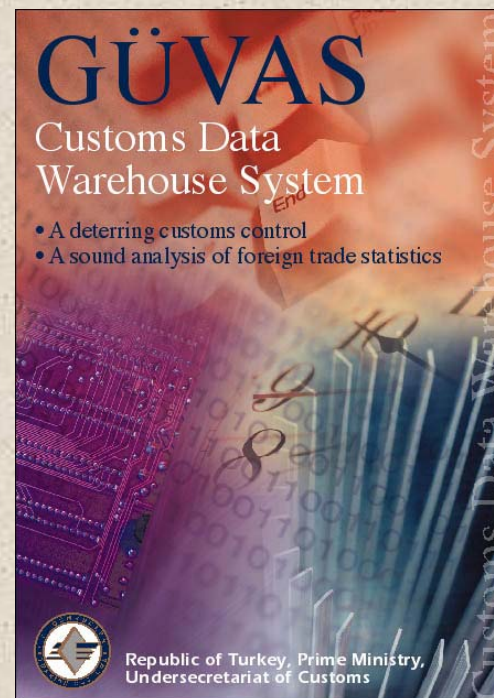


OTHER SOFTWARE INTEGRATED INTO BİLGE



Establishment of Data Warehouse System for a more effective;

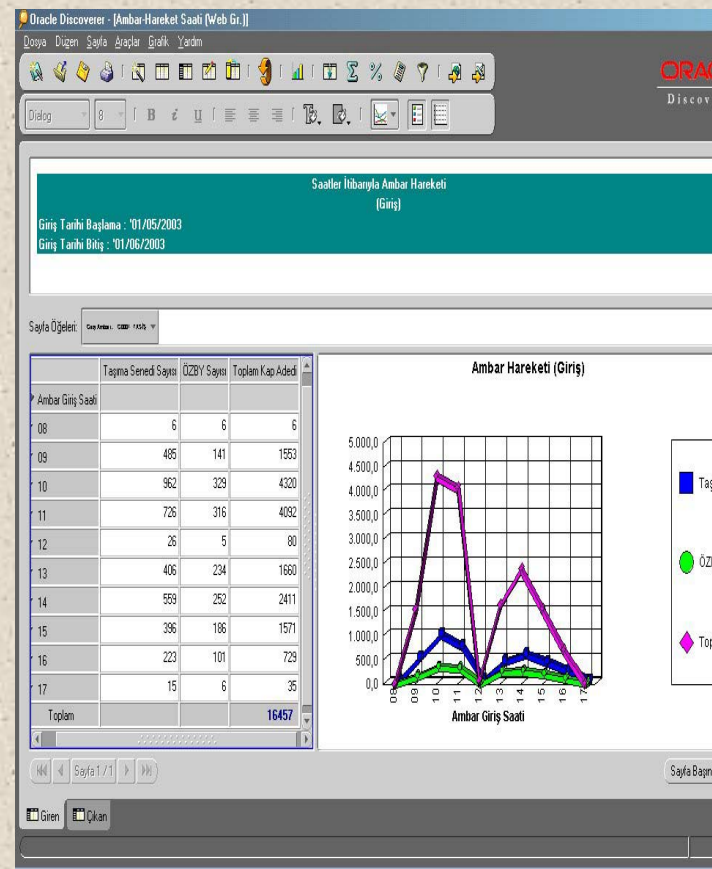
- management
- performance measurement
- foreign trade statistics analysis
- Anti-Smuggling Data Bank
- Valuation Data Bank

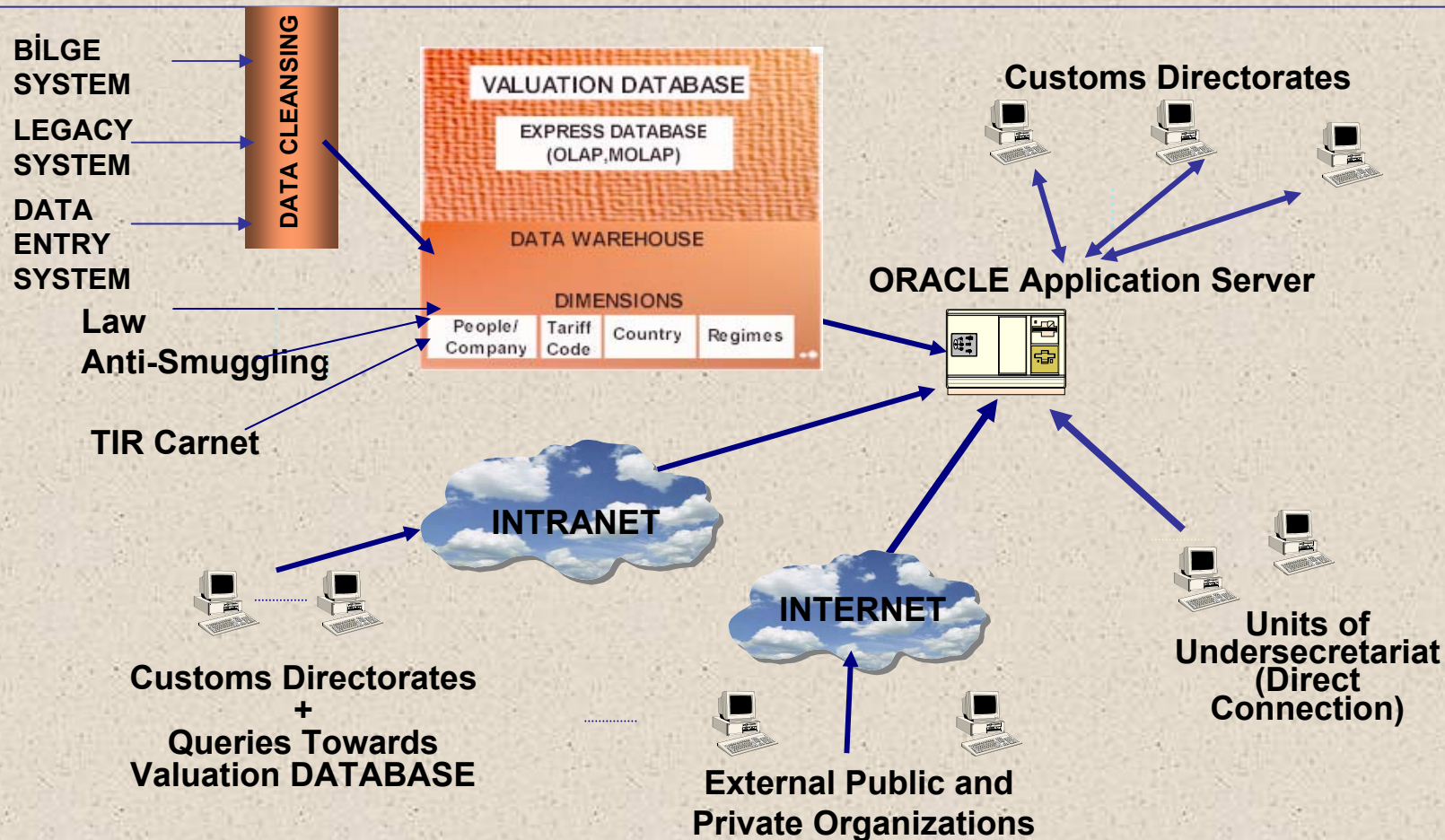


FUNCTIONAL SCOPE OF GÜVAS

- foreign trade statistics
- queries
- graphical analysis
- bulletin (graphical analysis)
- performance statistics of customs offices
- tracking & query of TIR, vehicle, container
- estimation & analysis
- Valuation Data Bank
- Anti-Smuggling Data Bank
- Judicial Information System (tracking smuggling cases)
- external users' access to GÜVAS on web site Oracle

MOLAP Express, Discoverer, Web, '.net'
tools are used





Approximately 10.000 transactions

Binding Tariff

btb - Microsoft Internet Explorer provided by Muhabere ve Elektronik Dairesi

Dosya Düzen Görünüm Sık Kullanılanlar Araçlar Yardım

Adres: http://www.gumruk.gov.tr/gumruk_tarife/

Bağlayıcı Tarife Bilgisi

BTB No	GTİP	Eşyanın Tanımı
TR000001	040690880000	Yeni Petit Danone Taze Peynirli ve Meyveli (Çilek/Kayısı/Seftali-Armut/Orman Meyveleri/Ahudu) Süt Ürünü Alüminyum folyo ile kapatılan ve ait olduğu meyve/ vanilya rengine yakın taze peynirimsi bir kütleye doldurulan 50 gramlık renkli plastik kaplardadır. Kuru Madde Miktarı: %26.9 (Seasand Metodu), Süt Yağı Oranı: %3,2, süt proteini %2.92, nişasta glikoz %3.1, şeker %2.8
TR010001	740710000013	ORTALAMA 8 MM ÇAPINDA %99.9 ORANINDA BAKIR İÇEREN RAFİNE BAKIRDAN MAMUL BAKIR ÇUBUK. EŞYANIN SEVK ŞEKLİ: RULOLAR HALİNDE KULLANIM ALANI: BAKIR KABLO ÜRETİMİ
TR010002	852540110000	"Premier" Brand Dijital Kamera. Bilgisayarla da kullanılabilen dijital sabit görüntü kamerası. Yüksek çözünürlükte 16, standart çözünürlükte 32 görüntüyü muhafaza edebilecek 2 MB lik dijital hafızası bulunmaktadır. Hafızaya alınan görüntü uygun yazılımla bilgisayara aktarılabilir ya da makine PC ye bağlanarak video konferans için bilgisayar kamerası olarak kullanılabilir. Otomatik flaşlıdır. Saniiye 15 görüntüye kadar çekim yapabilmektedir. Piller haric 112 gr. ağırlığında, 95x65x35 mm boyutlarındadır. Dijital kamera, 2 adet PC disketi, yazılım cd si, kullanım kılavuzu, PC seri kablo, TV kablosu, USB kablosu, 2 adet AA alkalın pil, kayış, kılıfı birlikte set halinde bulunmaktadır.
TR010004	852719000000	RIVER RL-2224 HARİCİ BİR GÜÇ KAYNAĞI İLE ÇALIŞAN KOMBİNE HALDEKİ İŞİLDAK VE RADYODAN OLUŞAN CİHAZ
TR010005	960321000000	DİŞ FIRÇASI+DİŞ MACUNUNDAN OLUŞAN BİRLEŞİK EŞYA .DİŞ FIRÇASININ ELLE TUTULAN BÖLÜMÜNDE SİLİNDİR BİR HAZNE İÇERİSİNDE DİŞ MACUNU YER ALMAKTADIR. BU HAZNE İLE DİŞ FIRÇASININ BİRLEŞİM NOKTASINDA PLASTİK BİR DÜĞME BULUNMAKTA VE DÜĞMENİN OK YÖNÜNDE ÇEVİRİLMESİYLE HAZNE İÇERİSİNDEKİ MACUN FIRÇA KILLARININ ORTASINDAKİ

Creating Fun From.....

Premier

DC-520

Digital Camera & PC Camera in One

- Two in one with Digital and PC camera features
- USB/RS232/TV output supported
- 540 x 480 pixels good for display and printing.
- Compact size plus low power consumption.

The digital world & cyberspace are both in your hands

DC-520

<http://www.gumruk.gov.tr>

CURRENT AUTOMATED TIR CARNET SYSTEM

Entry/Departure Office

Destination/Exit Office

Real time data entry of Volet1 by Customs Officer

Inspector is assigned automatically by the system

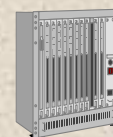
For Export Procedure Volet 1 data created by Summary Declaration Data of BİLGE



Local DB



Local DB



Real time data entry of Volet2 by the Customs Officer

Inspector is assigned automatically by the system

Summary Declaration Data in BİLGE Created by Volet2 data

Import Procedures in BİLGE going on

WAN

All TIR Data collected on GÜVAS to be analysed

Customs Data Warehouse (GUVAS)



General Directorate of Customs Control

PROCEDURES OF USER CODES FOR BİLGE (1/3)



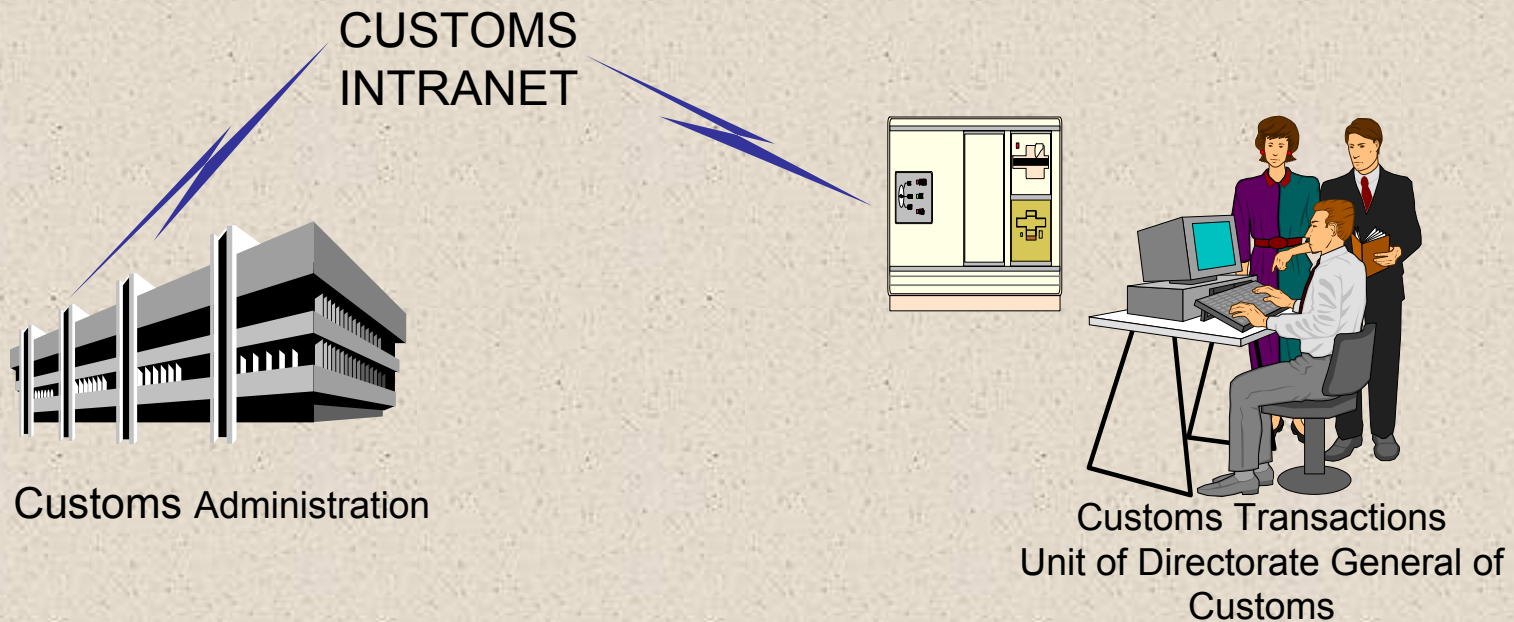
Declarant

Application Information



Program for Request of
User Code

Procedures of User Codes for Bilge (2/3)



- when the request of user code is transferred to the system it is also transferred to the Customs Transactions Unit
- it is approved by User Approval Program

Procedures of User Codes for Bilge (3/3)

- user is requested to have a password to enter BİLGE system
- user is not given password directly for security reasons
- user is requested to activate password defined by him/herself on <http://uygulamalar.gumruk.gov.tr>

GÜMSİS PROJECT (Customs Border Gates Security Systems)

- System Control Centre
- Closed Circuit TV (CCTV) System
- Cryptographic Communication System
- Vehicle and Container Inspection System
- Nuclear Detection System
- Transit Vehicle Tracking System
- Licence-Plate Scanning System
- Integration of the Existing System into the Planned Systems

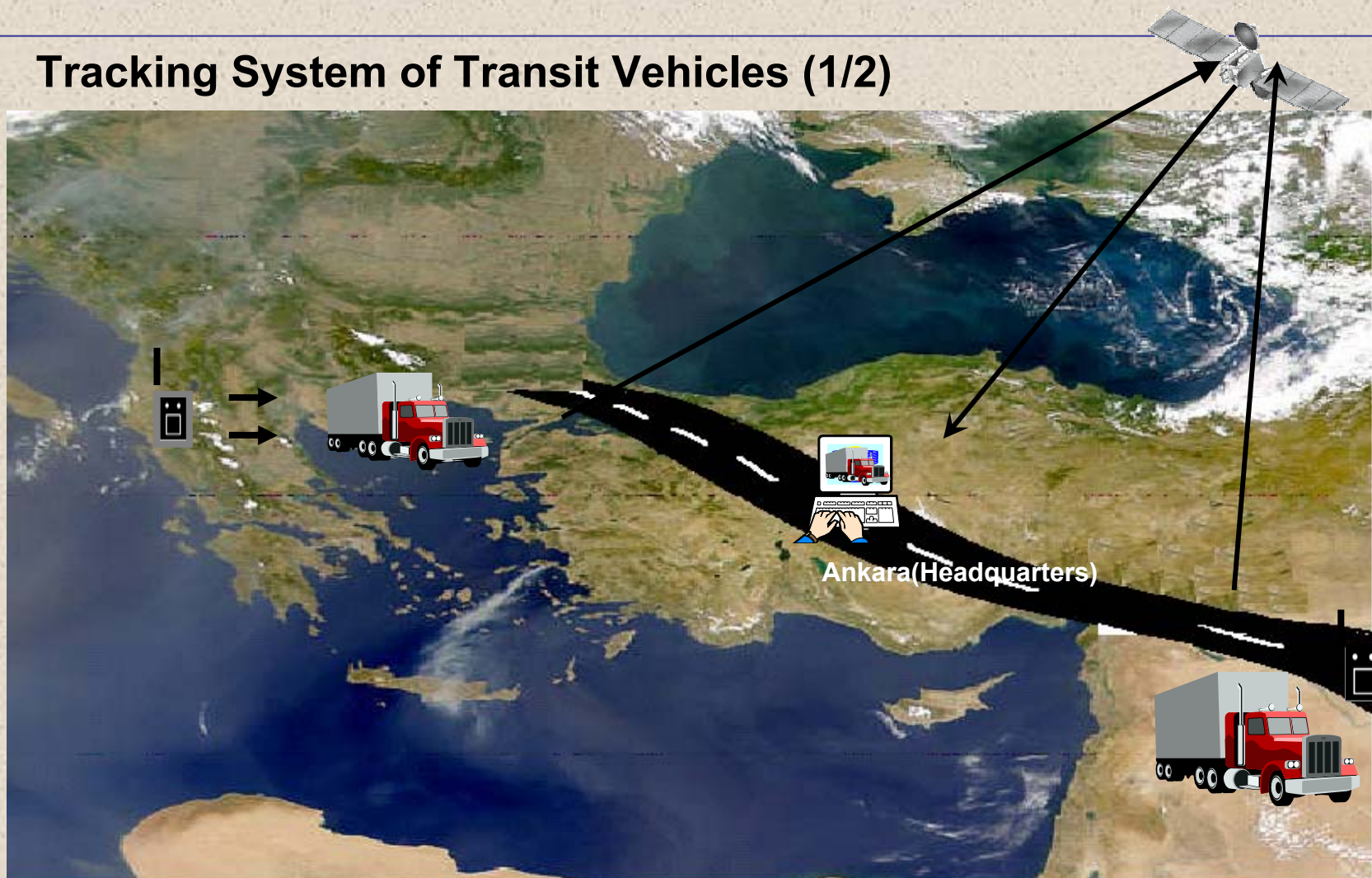


Implementation Sites

From national Budget ; Bulgarian, Greek, Georgian, Iranian, Iraqi Borders

From EU Loan ; Syrian and Azerbaijan Borders
Ro-Ro Ports (5)

Tracking System of Transit Vehicles (1/2)



Licence-Plate Scanning System (1/2)

- Licence-plates of vehicles to/from the country automatically scanned by cameras are converted into texts and controlled by Program for Tracking Vehicles and Denounced Smuggling Events at Land Border Posts

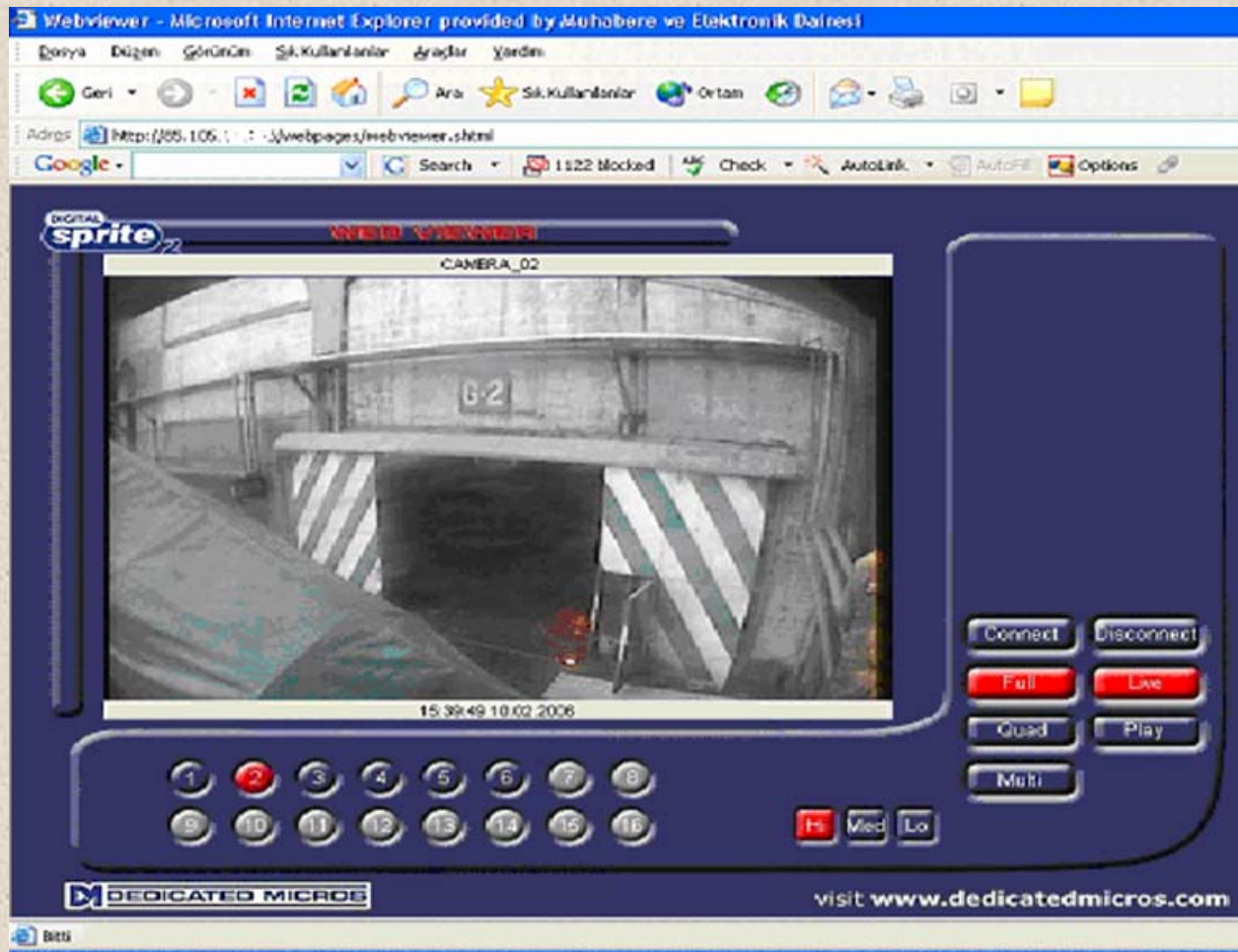


National Anti-Smuggling Databank

- all information on paper about narcotics, arms and ammunition and commercial seizures was started to be collected at one centre and the anti-smuggling databank was fed by data entry
- after re-designing the software, all information has been entered by Customs Intranet and stored on GÜVAS
- this databank is basically used to get information about smuggling cases and to prepare risk analysis
- it has been expanded to include the information from international organizations

MONITORING SYSTEM OF WAREHOUSES

- it is obligatory to furnish A type warehouses with electronic devices through camera systems and to set up electronic measuring devices at fuel warehouses and to provide a central tracking environment for customs administrations through Internet
- this system has been initiated as of 01.01.2006
- records are stored in the system on the 7/24 basis for 3 months and tracked on-line. Thus, possible changes in the amount of fuels are also tracked on Internet



<http://medbim.gumruk.gov.tr/antrepo/>

CONTAINER CONTROL (Temporary Entry and Exit Procedures) (1/2)

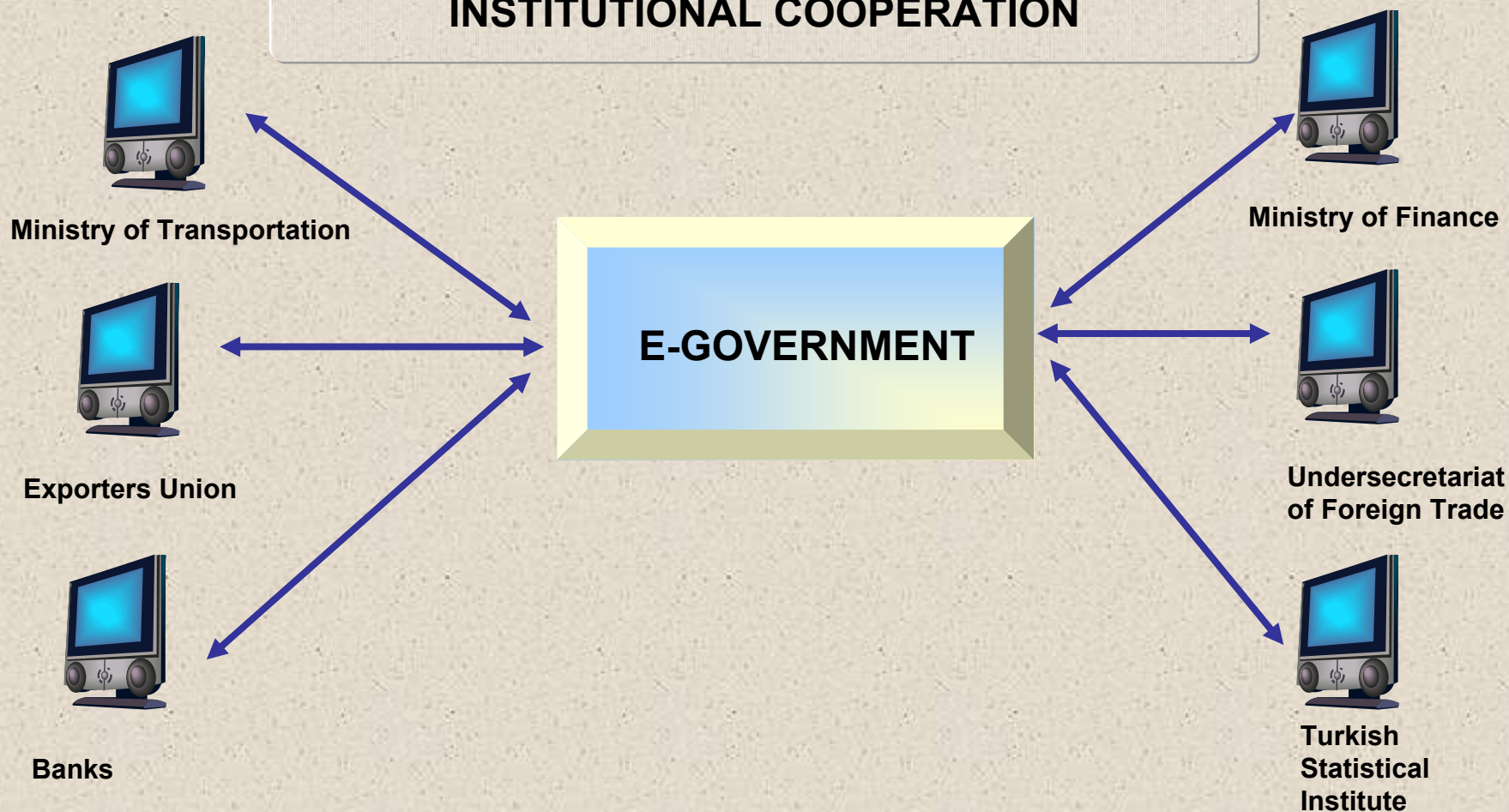
- it will be implemented by the end of June 2006
- operator will submit the container information via internet or web services to Customs Server
- container records will be automatically linked to summary declaration records
- additional data will be entered at entry office and an inspector will be assigned automatically by the system
- when the Container exits from the country, entry records will be accessed and discharged by the exit customs office

CONTAINER CONTROL (Temporary Entry and Exit Procedures) (2/2)

Results to be achieved;

- risk analysis will be performed for anti-smuggling measures by considering routes of containers
- containers' staying period in the country will be monitored

INSTITUTIONAL COOPERATION



DATA EXCHANGE BETWEEN CUSTOMS AND MINISTRY OF FINANCE

- one of the most remarkable benefits of automation is facilitation of verification process in export transactions
- a network is established between the Undersecretariat for Customs and Ministry of Finance
- the export declarations are transferred electronically to revenue administration
- by using declaration details, revenue administration can struggle effectively against VAT refund frauds

ELECTRONIC PAYMENT (E-PAYMENT)

Gümrük Muhafaza Müdürlüğü - Microsoft Internet Explorer

Dosya Düzen Görünüm Sık Kullanılanlar Araçlar Yardım

Geri İleri Dur Yenile Giriş Sayfası Ara Sık Kullanılanlar Geçmiş Posta Yazdır Düzenle Tartış İlgili

Adres <http://banka/GumrukBirlii/main.asp> Git Bağlantılar >>

[YAPI KREDİ](#) [ABANK](#) [AKBANK](#) [ANADOLU](#) [CITIBANK](#) [DENIZBANK](#) [DISBANK](#) [FINANSBANK](#) [GARANTI](#) [HALKBANK](#) [HSBC](#) [ISBANK](#) [KOCBANK](#) [OYAKBANK](#) [PAMUKBANK](#) [TEB](#) [TEKST](#)

BANK

Beyanname No: 03 / 340300 / IM / 024850 **Tamam**

Vergi Kimlik No: **Tamam**

Ödeme tarihi: (gün/ay/yıl)

Biti Yerel intranet

DATA EXCHANGE ON INWARD PROCESSING BETWEEN CUSTOMS AND UNDERSECRETARIAT OF FOREIGN TRADE

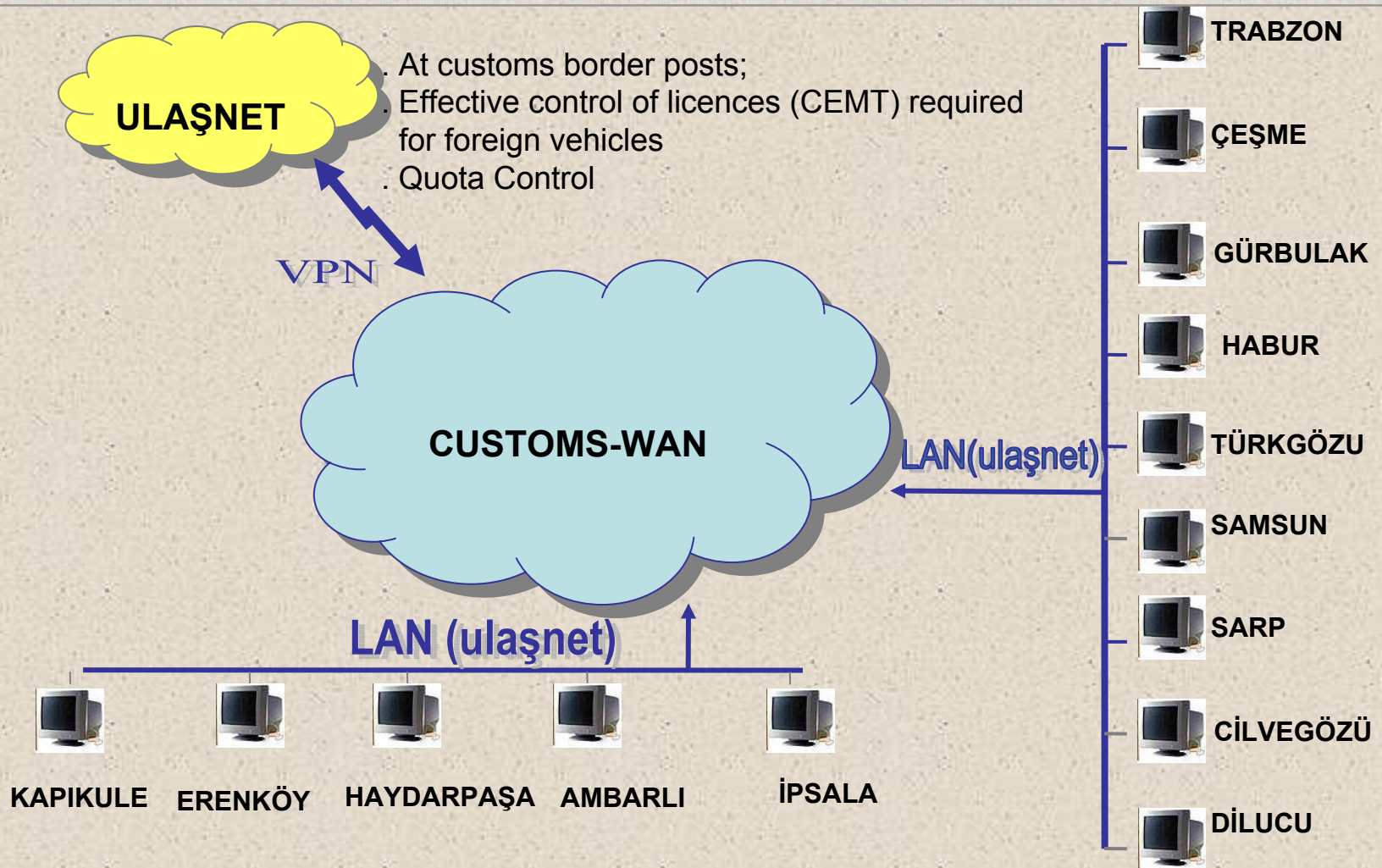
- declarants enter line number of Inward Processing Licence while completing their declarations
- during registration, declarations under electronic Inward Processing Licence get approval after electronic verification of Inward Processing Licence issued by Undersecretariat of Foreign Trade
- after approval, special requirements are viewed by inspector on inspection screen
- import declarations completed are transferred electronically to Undersecretariat of Foreign Trade

COOPERATION WITH MINISTRY OF TRANSPORTATION (1/2) (ULAŞNET)

At customs border posts;

- effective control of licences (CEMT) required for foreign vehicles
- quota control

COOPERATION WITH MINISTRY OF TRANSPORTATION (2/2)





TURKISH CUSTOMS NETWORK INFRASTRUCTURE

TWINNING EXPERIENCE REPORT (Activity: 2.3.2.2.1)

“ ...technical infrastructure of Turkish Customs Administration is modern and up to date ...

... existing technical infrastructure (Network, Facilities, Hardware, and Software) of Turkish Customs Administration is capable to cope with the implementation and operational service of the CCN/CSI communication infrastructures ...”

HARDWARE PROFILE AT HEADQUARTERS

• Servers (small, medium, large).....	56
• Network devices (router, switch, hub, modem).....	112
• Personal Computers.....	1226

HARDWARE PROFILE AT CUSTOMS SITES

• Servers (small, medium, large).....	72
• Network Devices (router, switch, hub, modem).....	425
• Personal Computers.....	3665

E-MAILING and INTERNET AT CUSTOMS

<u>Service</u>	<u>Number</u>
e-mail	1375
internet	all staff

- Customs Official Web Site
- e-commerce web site
- Intranet web site
- Web Application
- Data Warehouse

www.gumruk.gov.tr
www.customs-edi.gov.tr
<http://medbim.gumruk.gov.tr>
<http://uygulamalar.gumruk.gov.tr>
<http://guvas.gumruk.gov.tr>



Department of Data Processing and Communication (IT Department)

HUMAN RESOURCES

HEADQUARTERS

- 61 Officers
 - IT experts (statisticians, mathematicians and engineers)
 - system operators
 - technicians
 - support personnel

REGIONAL OFFICES

- 98 Officers
 - IT experts
 - system operators
 - technicians
 - customs officers trained on IT

e-TRANSFORMATION TURKEY PROJECT

- e-transformation Turkey Executive Board was established by the Prime Ministry Circular No. 2003/48 of 04.12.2003 to realize e-Transformation Turkey Project
- e-transformation Turkey Short-term Action Plan for 2003-2004 was prepared and studies have been initiated
- 73th Action Plan for 2003-2004 have been defined, and Undersecretariat for Customs has been assigned for “sharing information and documents used in foreign trade electronically”
- short-term Action Plan for 2005 was prepared and studies have been initiated
- preparations for Short-term Action Plan for 2006-2009 are going on



ACTIONS OF e-TRANSFORMATION TURKEY PROJECT

- Information Society Strategy
- Technical Information and Information Security
- Training and Human Resources
- Legal Infrastructure
- Standards
- e-Government
- e-Health
- **e-Trade**
 - sharing information and documents used in foreign trade electronically

BİLGİ TOPLUMU DAİRESİ e-Dönüşüm Türkiye Projesi
DEVLET PLANLAMA TEŞKİLATI MÜSTEŞARLIĞI

[Ana Sayfa](#) [e-Dönüşüm Türkiye](#) [Çalışma Grupları](#) [Danışma Kurulu](#) [İcra Kurulu](#) [KDEP](#) [Duyurular](#) [Mevzuat](#) [Yayınlar/Belgeler](#) [Erişim Bilgileri](#)

e-TİCARET ÇALIŞMA GRUBU

GRUBUN AMACI
e-ticaretin geliştirilmesi amacıyla, kolay ve güvenli bir şekilde erişilebilir ticari bilgi sisteminin kurulması, elektronik ortamda tek pencere yaklaşımı ile bilgi ve belgelerin üretilmesi, paylaşılması, ticari işlemlerin yürütülmesi, küçük ve orta ölçekli işletmelerde e-ticaretin yaygınlaştırılması, amacıyla politika üretmek ve projeler önermek.

KORDİNATÖR-Dış Ticaret Müsteşarlığı
Mehmet Ali ERDEM (ebilgi@dtm.gov.tr) DTM Genel Müdür Yrd.

TOPLANTILAR
Yeri-Tarihi-Saati Konusu: İlgili dokümanlar:

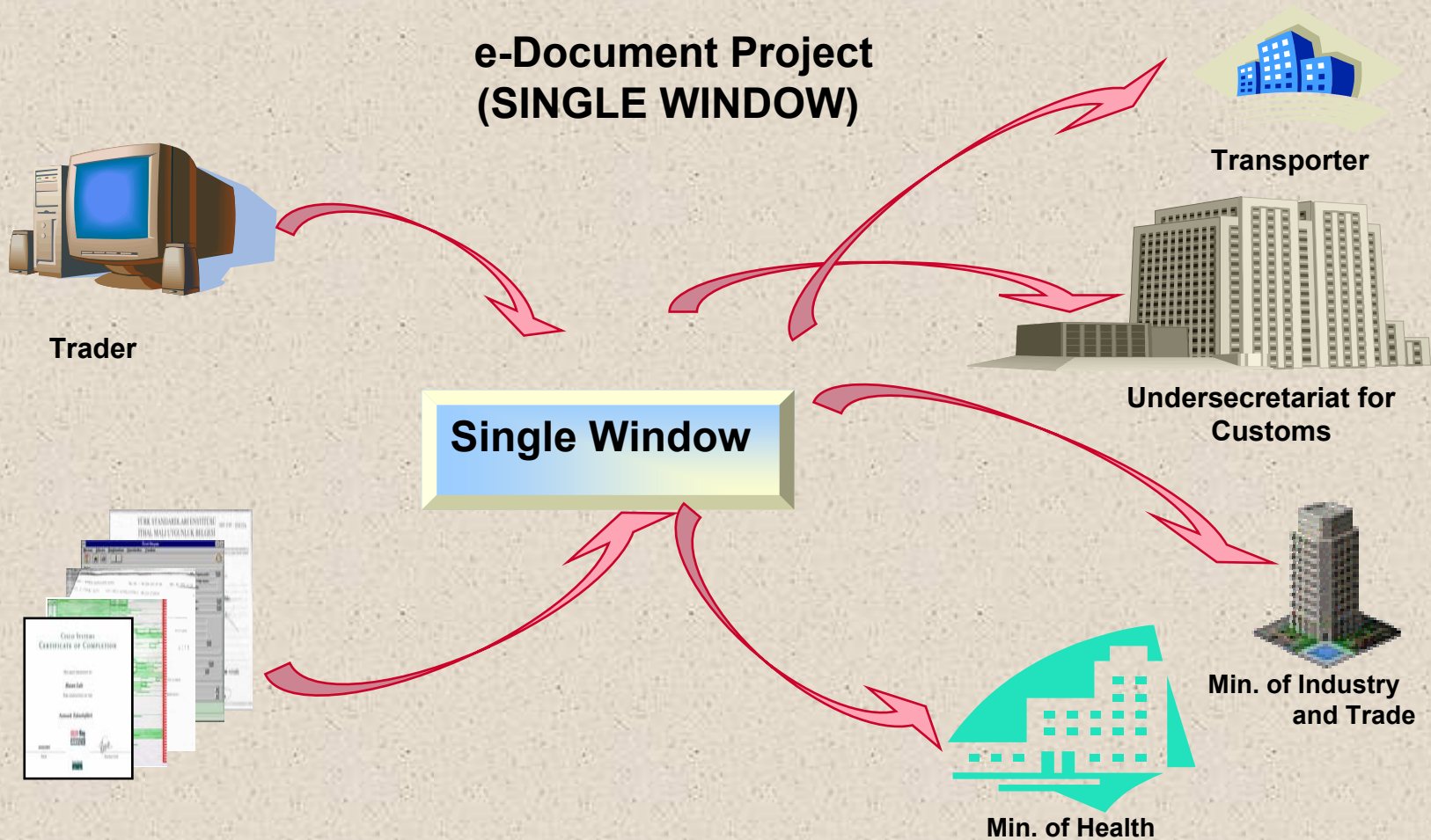
Grup E-Posta Adresi:

DOKÜMANLAR/RAPORLAR

Çalışma Grubu Üyeleri
[Çalışma Grubu Listesi](#)

PROJECT ON E-DOCUMENT IN FOREIGN TRADE

- to carry out foreign trade transactions, with a standardized “e-Document” among organizations involved in business process in order to create effective, efficient, fast and reliable e-Business infrastructure
- to establish a “Single Window Environment” enabling presentation of all information to a single body in order to satisfy all requirements concerning foreign trade for all parties



OBJECTIVE OF E-SIGNATURE

- e-Signature Law No. 5070 (OG No. 25355, dated 23.01.2004)
- aims to solve the problems caused by customs procedures carried out by using original signatures along with e-signatures and to accelerate the procedures
- e-Signature is planned to be used for customs declarations by EDI and e-Document Project in customs and foreign trade

EU FUNDED PROJECTS



- adaptation of NCTS into BILGE
- adaptation of TARIC into BILGE
- establishment of CCN/CSI
- translation of BILGE to WEB-Based Application

Consultancy to translate BİLGE to web-based technology

- description of the current situation
- definition of the high-level strategy allowing TCA IT department to reach the objectives specified by the TCA
- description of the possible technical options and their various implications (technical, functional, financial, organisational, ...)
- definition of the web-based future developments strategy (using state-of-the-art IT technologies)
- procurement and installation of web and application servers

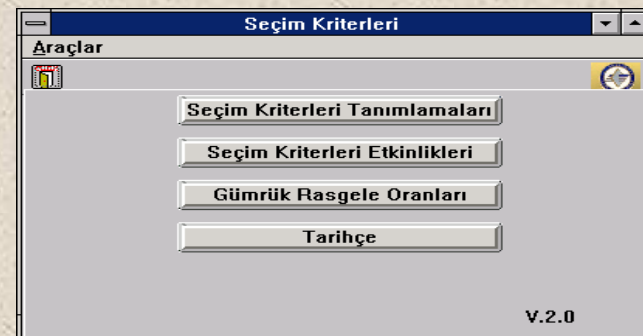


RISK ANALYSIS

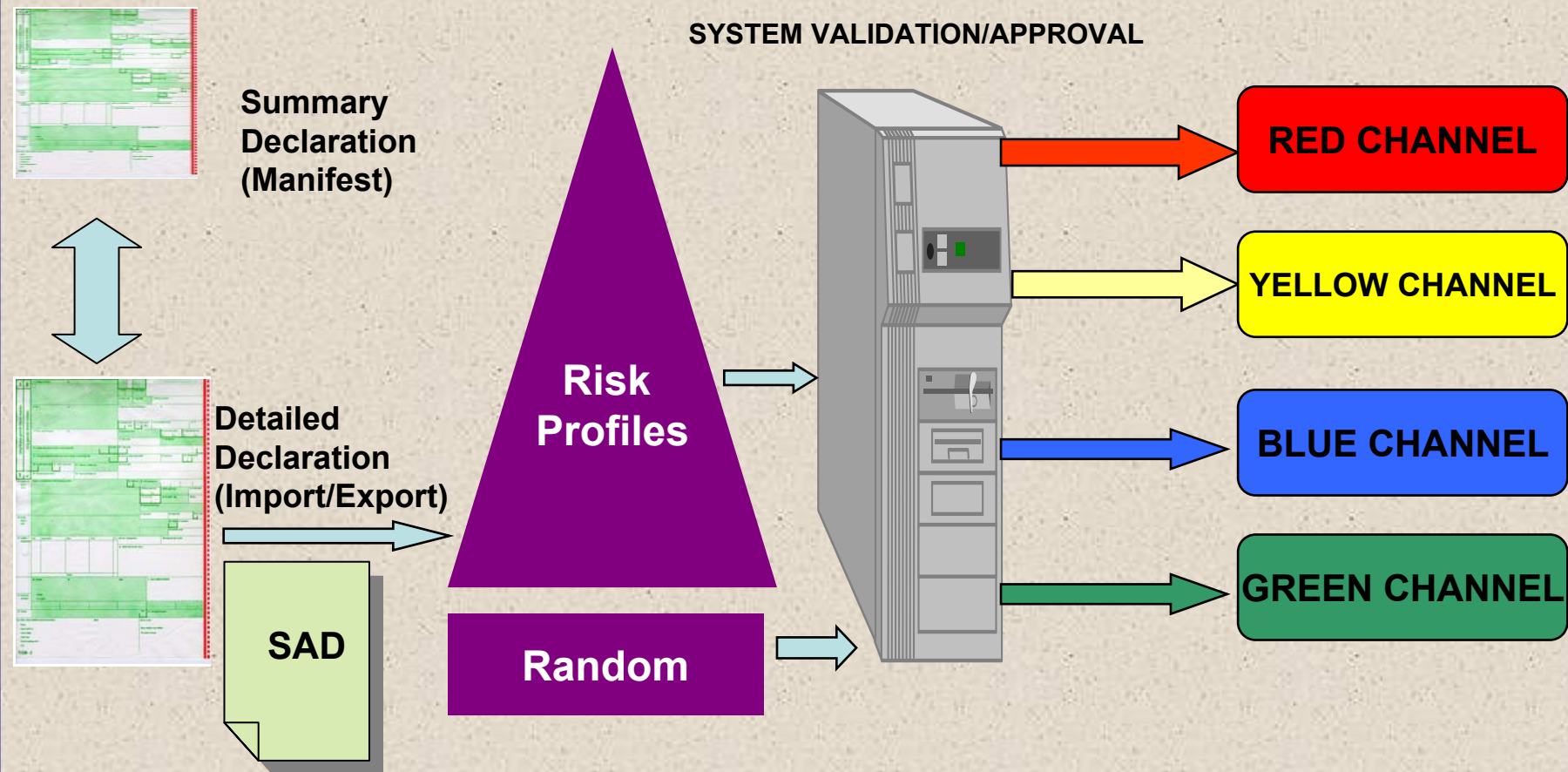


Tools and Modules for Risk Analysis

- Risk Analysis Module
 - Risk Analysis / Profiles
 - Violation Database
 - Line Determination and Direction
- Customs Data Warehouse System
- Declarant's Registration Info and Tax Number Module

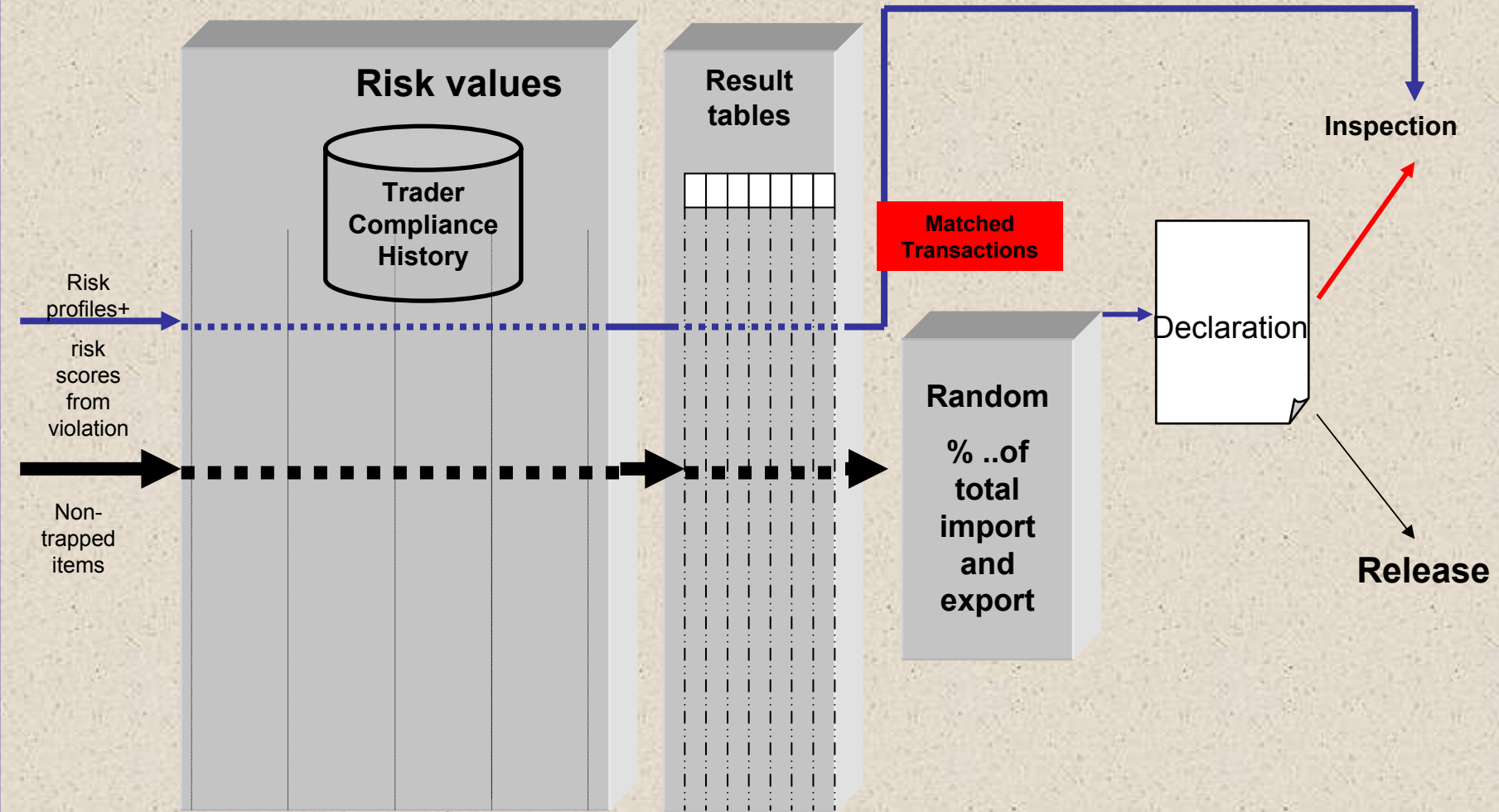


Risk Analysis and Assessment Process





Modules and Flow





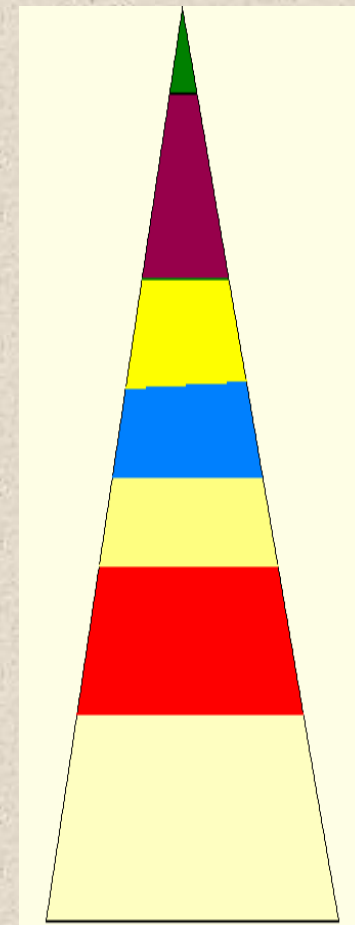


SCREENING CHAPTER 29
CUSTOMS UNION
AGENDA ITEM 12: COMPUTERISATION



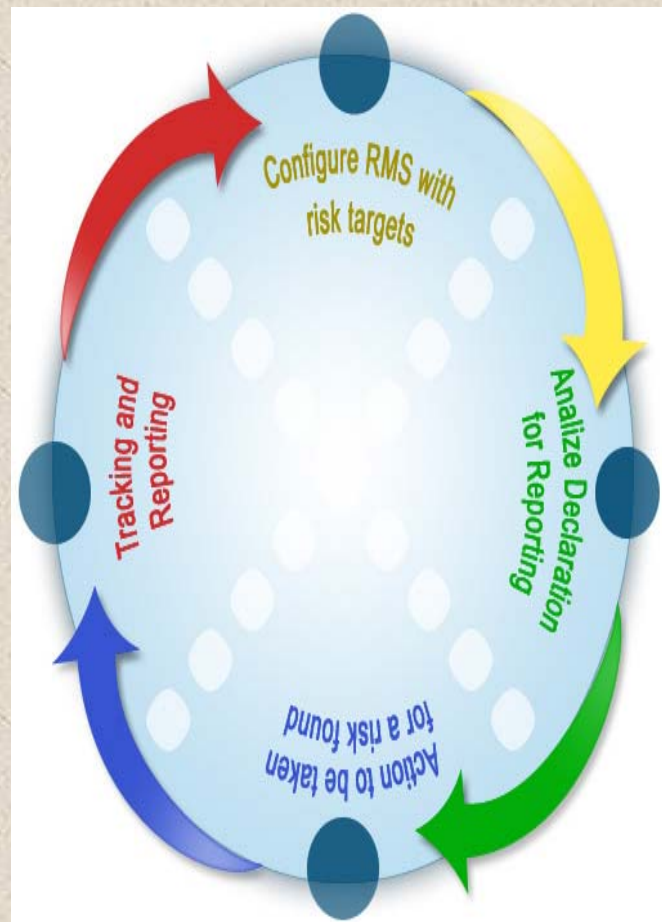
Profile Code	Definition of Profile
443-459	Firm I %X-Y Red
460-477	Firm E % X-Y Red
480-491	Broker I % X-Y Red
492-586	Broker E X-Y Red
802-842	MFIRE50-10 Red
416	B type Simplified Procedures (SP) - Accredited Firms I-Blue
417	B type w/h SP AO I-Yellow
418	A type with SP AO I-Blue
419	A type w/h SP AO I-Yellow
420	C type SP AO D-Yellow
421	B type SP AO E-Yellow
422	A type SP AO E-Yellow
05.901	Tariff Code -Origin-Combination-I Red
423	Tariff Code D %X- Red
424	Tariff Code I %X- Red
425	Tariff Code E %X- Red
426	Risky cargo SAD detailed declaration D%X Red
428	Total Invoice Value E %X- Red
429-442	Origin I %X Red

Priority of Risk Criteria



Phases of a Risk Analysis Study

1. Determination of the Subject
2. Sectoral Analysis
3. Legislation Scanning
4. Statistical Analysis
5. Assessment of Violations
6. Conclusion



‘Conclusion’ Phase includes:

- targeting
- determination of ‘high risk’ firms to be inspected and controlled
- creating risk profiles and transferring these profiles to Declaration Processing System of BİLGE
- proposals for new arrangements of legislation and risk profiles

Inspection Instructions

For each rule inspection instructions can be attached in order to instruct and guide the examining officer

Check types;

- full unpack/full count
- spot check
- sampling
- detained for documentation reason



Risk Analysis/Report Screen

Oracle Forms Runtime - [DETAY]

İşlemler Sorgulama Kayıt Yardım

İSTATİSTİK | SORGU | KIRMIZIHATKİTİRELERİ | KIRMIZIHATSORGU

Sorgu Kriterleri

Hat İstatistikleri

Başlangıç 31/03/2003

Bitiş 31/03/2003

İth./İhr. İTHALAT

HATSTAT-NOTEPAD

YENİ SORGU

Gümrük Listesi

H060000national
H060200ankesb
H060500konmer
H060600kaymık
H061000aksmrk
H061600anktır
H069000natdw
H070100antreg
H070200antair
H070300antreg
H160100burreg
H160200burmud
H160400burgem
H160700eskmrk
H161100burreg
H220200edntir
H220400ednreg
H220500ednips
H220800kirder
H220900tekmrk
H270100gazreg
H270300klsonc
H310100iskreg
H310400hatcil
H310800hatant
H330100merreg
H330500mrsftz
H330900adnmrk
H340300istahl
H340600istpst
H340700isthrd
H340800istreg
H340900isthay

Sorgulanacak Gümrükler

Gümrük/Sarı/Yeşil/Mavi/Kırmızı/Menşe/Firma/Gtip/Rejim/Kıymet/Miktar/Toplam

Kayıt: 1/1

<OSC> <DBG>

Feedback

- examination findings must be entered by the officers before goods can be released
- risk analysis system is continually updated and enhanced by evaluation of results fed back into the system

EU FUNDED PROJECT

RISK MANAGEMENT - 2004

- improvement of the risk based control mechanism
- strengthening specialized enforcement units at regional level
- development of infrastructure at border posts
- supply of vehicle and container scanning systems



THANK YOU