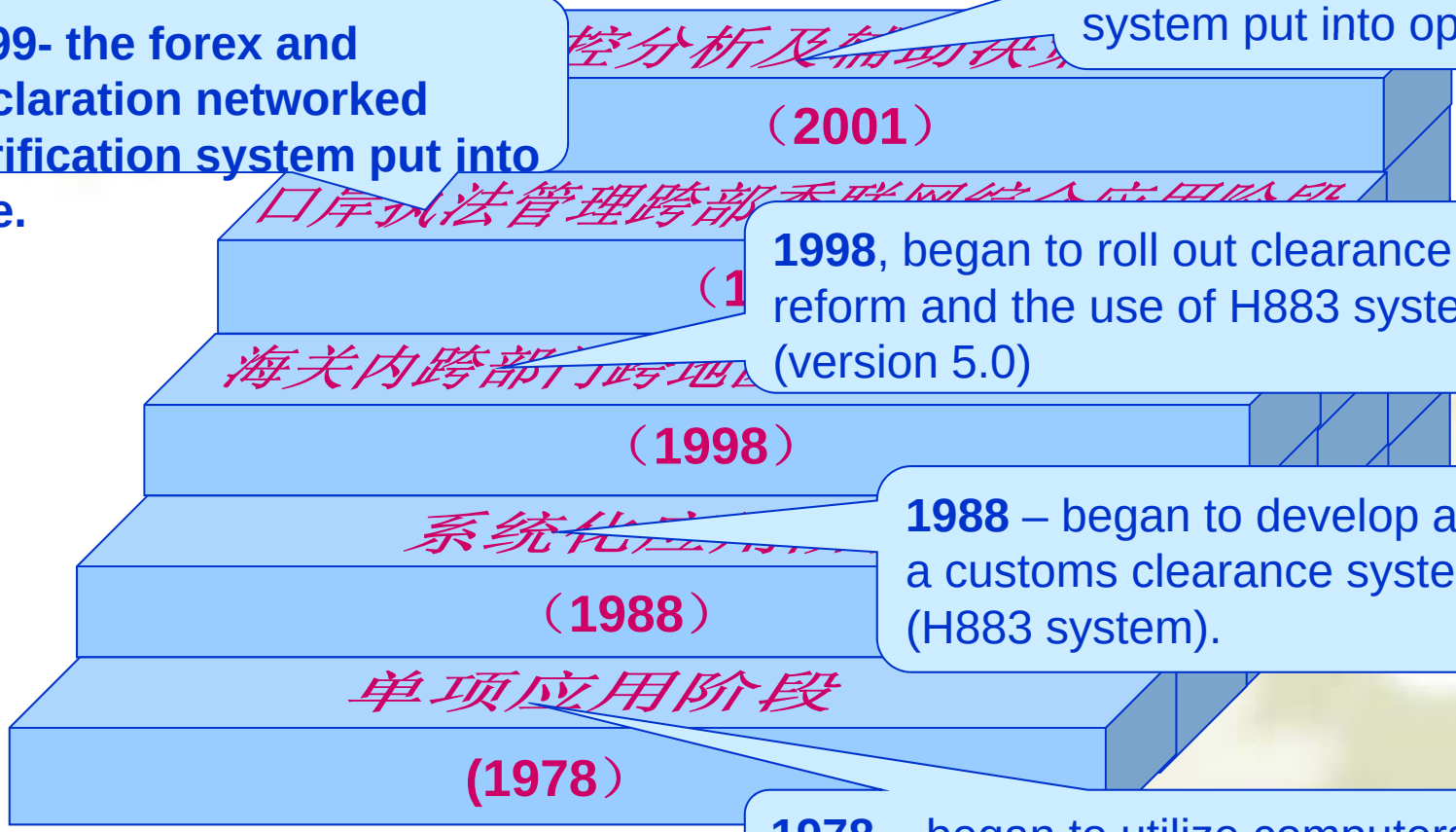
Application of Information Technologies in China Customs

—— WU Jiang, Shanghai Customs College

- History
- Status Quo
  - Scale
  - Typical application: E-port
  - Other major applications
- Importance of application of IT in China Customs
- H2010 Project

History



2001, Customs enforcement evaluation system put into operation.

1999- the forex and declaration networked verification system put into use.

1998, began to roll out clearance reform and the use of H883 system (version 5.0)

1988 – began to develop and use a customs clearance system (H883 system).

1978 – began to utilize computers for duty collection on passengers' baggage.

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Scale

30 years of development. Constant explorations and accumulation. Network infrastructure, technological equipment, project development and applications. Gradually phased in the above-mentioned applications. Preliminary explorations are made in networked clearance processing, smart cargo flow control, and digitized management system.

Scale

（1）Network infrastructure

Based on telecom companies' broadband PSTN ATMs, complemented by DDN lines, frame relays, X.25, and backed up by telephone dial-up lines, we established a large-scale networked system covering all the operational sites nationwide totally over 800 nodes.

Scale

2) Investment in Science, Technology and Equipment

By the end of 2009

Small machines	390
PC servers	2575
Storage systems	291
PCs	73,000
Network equipment	8222 sets

Container inspection systems	59
Inspection equipment for articles	440 sets
CCTVs	22 sets
Express consignment inspection systems	3 sets
Other equipment	……

Scale

（3）General picture of project development and applications

“E-Customs” projects：〉120

“E-GACC” projects：〉40

“E-port” projects：〉42

Local projects developed by regional Customs：〉280

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中国电子口岸
CHINA E-PORT

中国海关信息现代化的创举

——中国电子口岸

中国电子口岸 CHINA E-PORT

China E-Port is a public data center and data exchange platform based on telecom companies' PSTN, which networks the authorities in charge of industry and commerce, Customs matters, forex management, foreign trade, quality supervision, inspection and quarantine, as well as banks, importers, exporters, companies engaging in processing trade, foreign trade intermediaries, and owners of goods, making one-card for all and one-stop services possible.

To establish a new management model featured by "E-ledger, networked verification and online services", we built an integrated data center, i.e. single database, single switch center and single window. This has helped with the realization of "standardized and transparent enforcement, extended time and space for Customs control, holistic solution, risk management, and rule of law".

Establishment of E-ledger (Cargo flow)

Rail consignment note

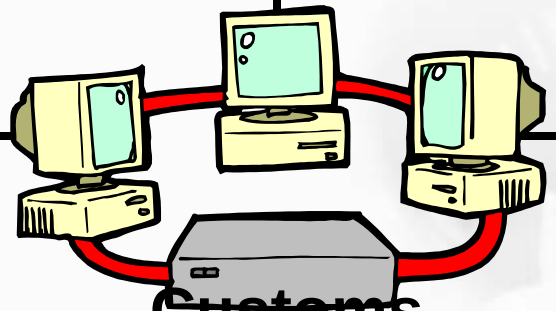
Air waybills

B/Ls

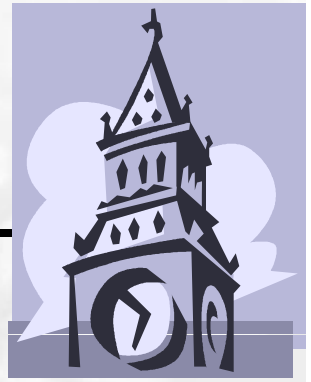
Manifests for road transport

Public Data Center

Port Customs

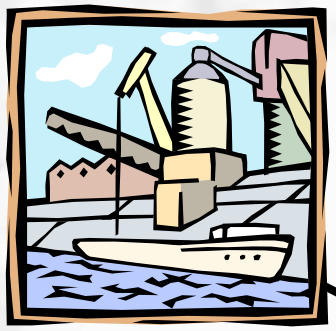


Customs Intranet



Competent Customs

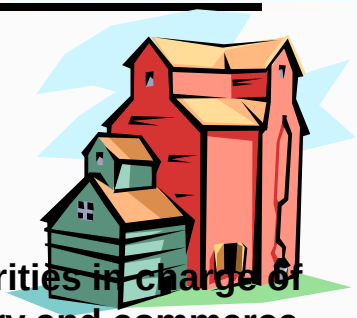
Cross-cutting Networked Verification



Port authorities & tally dept.

Banks & forex authorities

Insurance companies



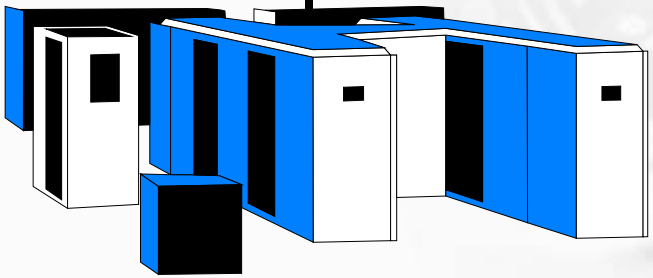
Authorities in charge of industry and commerce, foreign trade, environment and agriculture

Public Data Center

Transportation authorities

Tax authorities

Border control authorities



GACC

Inspection and quarantine authorities

Mottos of China E-Port:

Service-oriented, demand-oriented, promoting economic development through cooperation.

Principles of development:

“Unified certification, unified standards, unified brand”

What is an E-Port

The goal is to build a unified information platform aimed at port clearance and enforcement mainly, which gradually expands to relevant logistics business and services, to realize integrated clearance, integrated logistics and integrated foreign trade. Two components:

1. **China E-Port. Designed to realize data sharing and networked verification among government agencies under the State Council for integrated clearance, a shift from separate information platforms towards a single unified information platform. Information provided by those government agencies through this unified information platform is only intended for providing services for enterprises, so only involves data and information related to clearance, and other information (e.g. the proprietary information of the government agencies) is still kept within their own information systems and not disclosed to businesses.**
2. **Local E-Ports. Designed to bring the core procedures for integrated clearance and relevant logistics and business services onto a single unified information platform for local authorities, local institutions and business, to realize nationwide “unified certification, unified standards, unified brand”.**

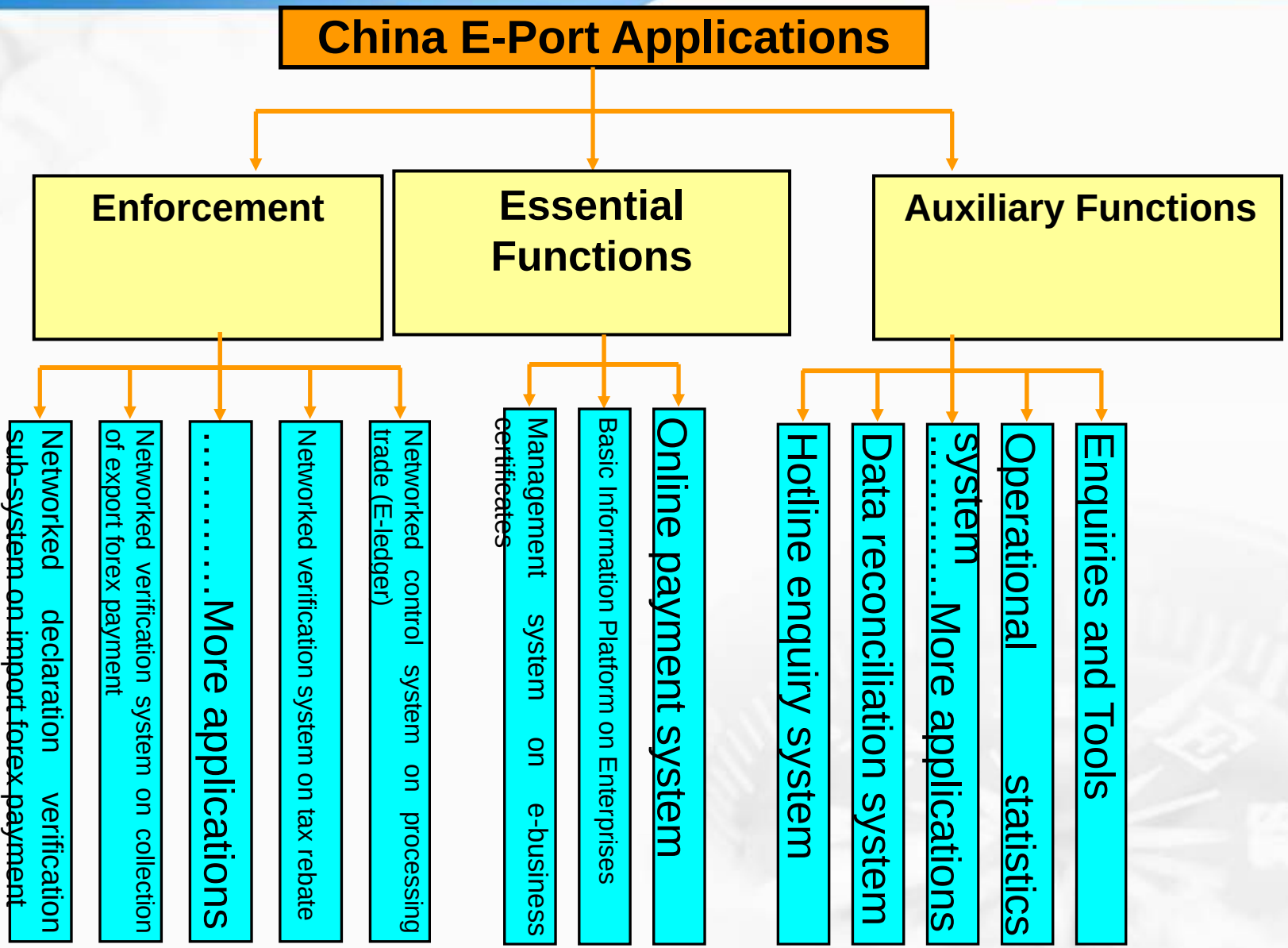
Objectives of China E-Port:

To be a paragon of China e-governance. Within 5 years, to build E-Port into a unified information platform to realize one portal for access to all, one-time subscription and one-stop processing of formalities, for both port clearance and enforcement and relevant logistics and business services. This will render port enforcement and administration more effective and efficient, and make clearance more orderly and easier, thus elevating China's openness to the outside world and its competitive edge on the international arena.

Status Quo of China E-Port

A total of 61 application projects already put into use.

Interoperability and information sharing is now available among the National Development and Reform Commission (NDRC), GACC, State Administration of Foreign Exchange (SAFE), State Administration of Taxation (SAT), General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ), State Administration of Industry and Commerce (SAIC), Ministry of Commerce (MOFCOM), Ministry of Railway, Ministry of Environmental Protection (MEP), China Council for the Promotion of International Trade (CCPIT), Trade and Industry Department of Hong Kong SAR, Macao SAR's Economic Service, as well as the Bank of China (BOC), the Industrial and Commercial Bank of China (ICBC), the Agricultural Bank of China (ABC), the Bank of Communications (BOC), China Merchant's Bank, totally 13 commercial banks. 470,000 companies have jointed this platform. Everyday, it processes around 1.2 million e-documents. China E-Port's portal daily hits have reached 4.8 million person times. The systems are operating smoothly.


China E-Port Applications
Enforcement
Essential Functions
Auxiliary Functions
Networked declaration verification sub-system on import forex payment
Networked verification system on collection of export forex payment
……More applications
Networked verification system on tax rebate
Networked control system on processing trade (E-ledger)
Management system on e-business certificates
Basic Information Platform on Enterprises
Online payment system
Hotline enquiry system
Data reconciliation system
……More applications system
Operational statistics
Enquiries and Tools

Major Functions of China E-Port

（1）data exchange

（2）transaction processing

（3）evidence storage and production

（4）standards switch

（5）enquiries and statistics

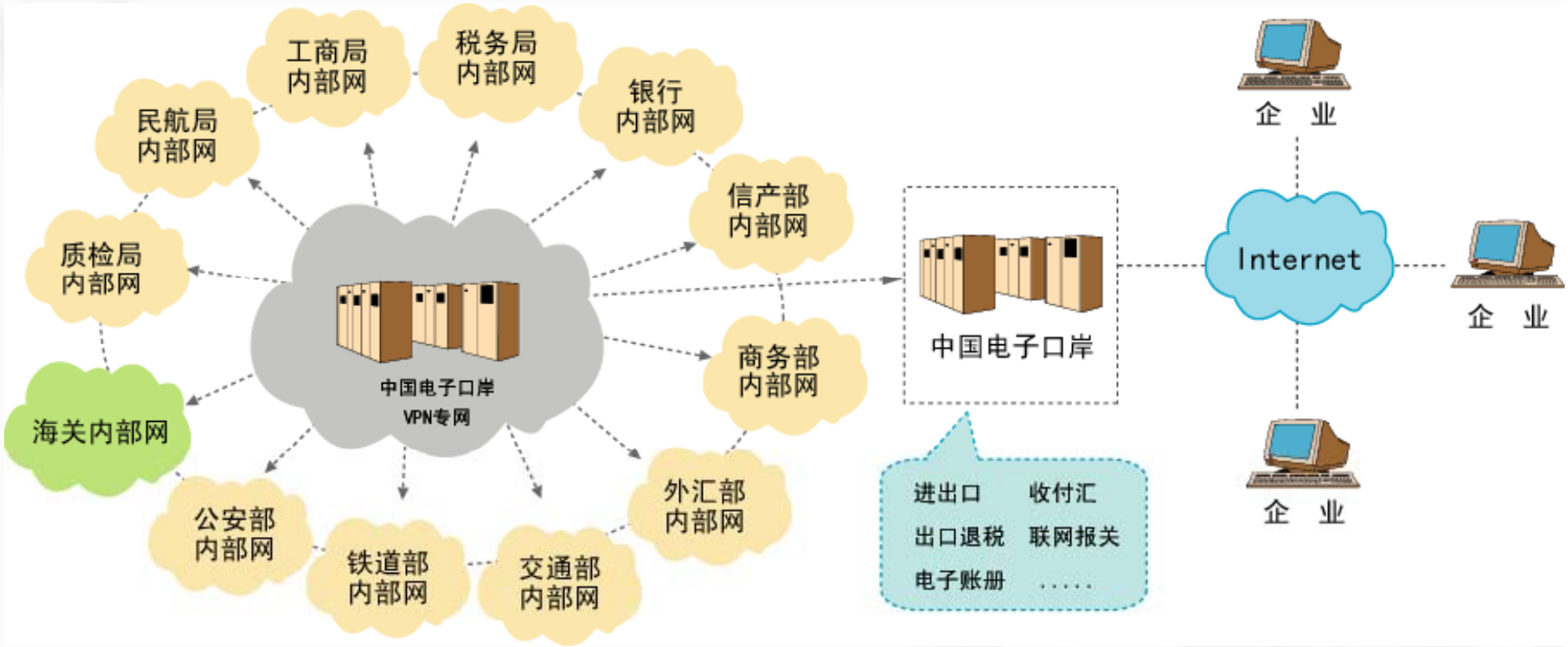
（6）network isolation

（7）online payment

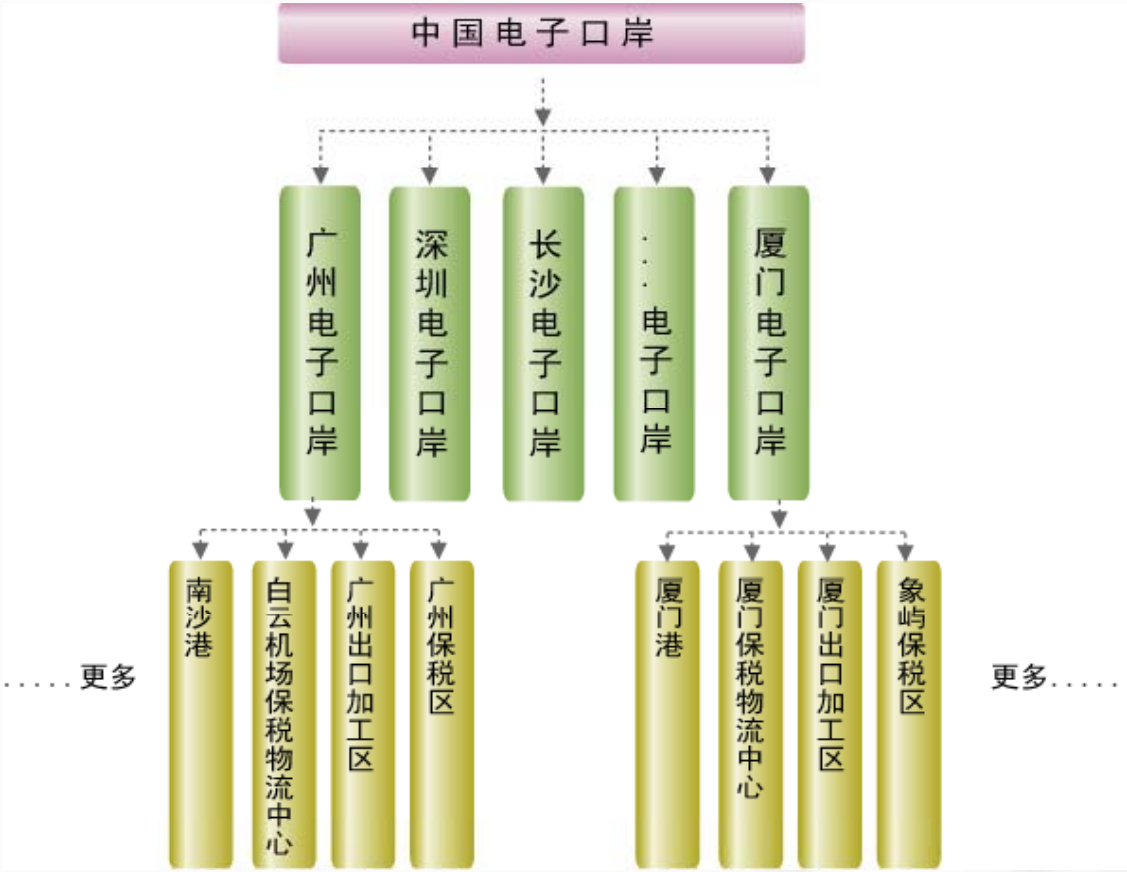
Importance of China E-Port

- **Enhanced port enforcement and administration, elevated administrative enforcement capacity for government agencies**
- **Raised clearance efficiency, and reduced costs for businesses**
- **Improved non-physical environment for investment, and promoted development of logistics industry**
- **Advanced e-governance, and improved government services**

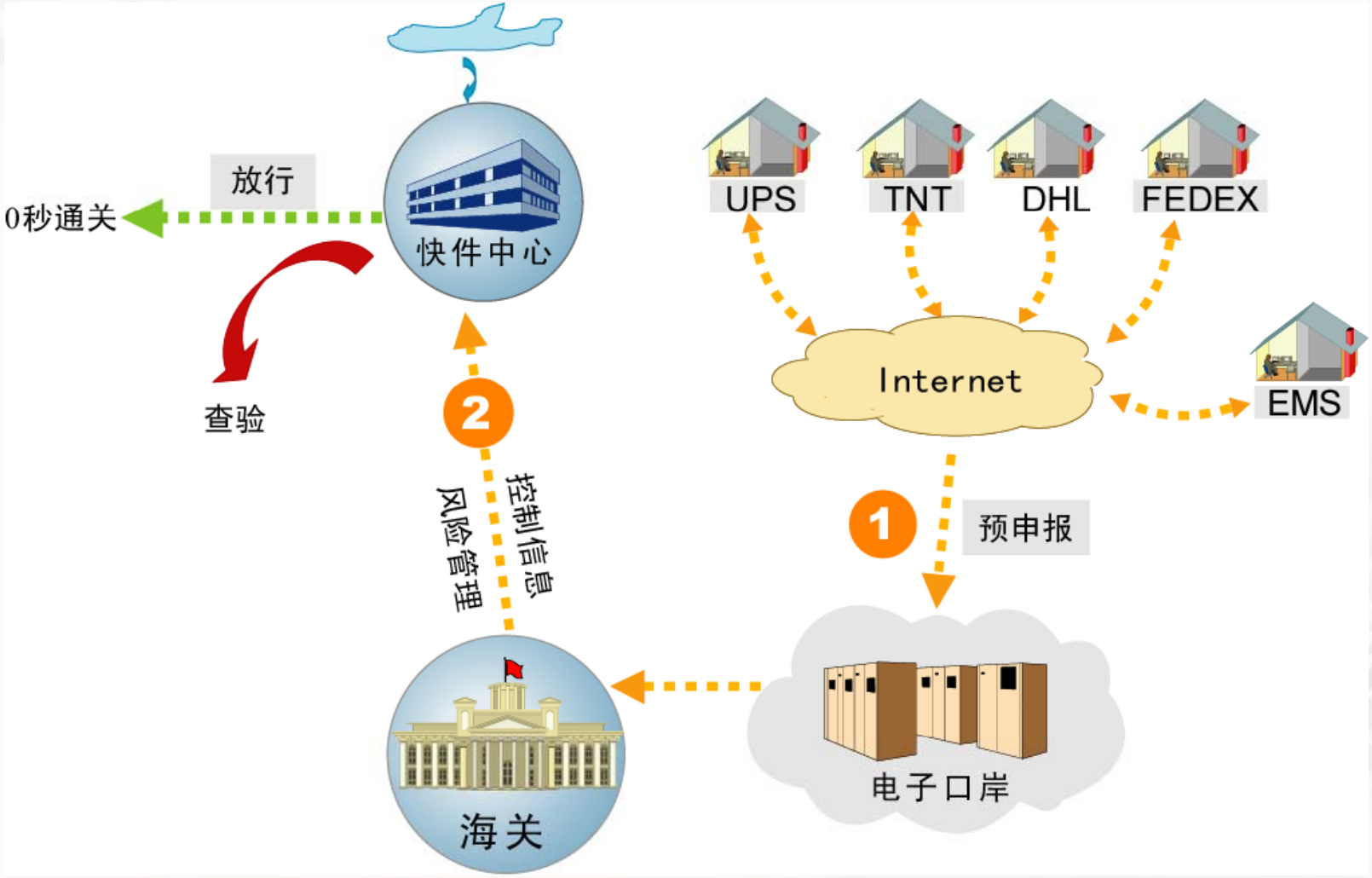
E-Port Network Structure



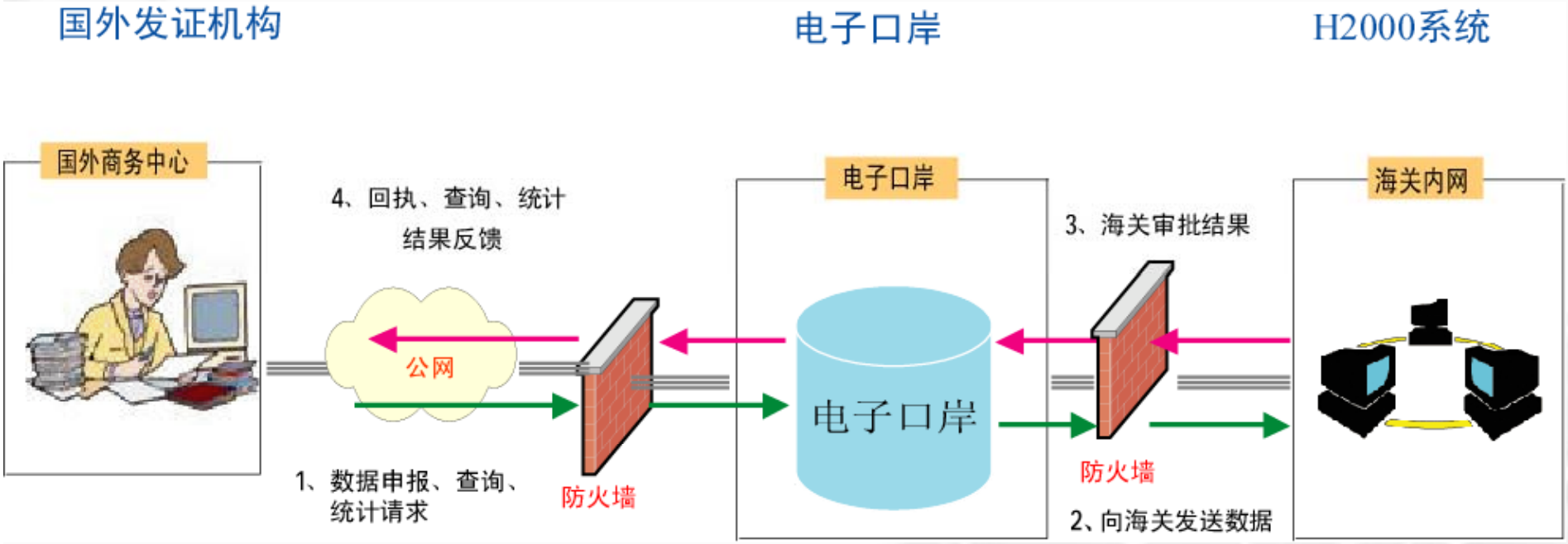
E-Port Vertical Management Architecture



Networked Applications for Express Consignments

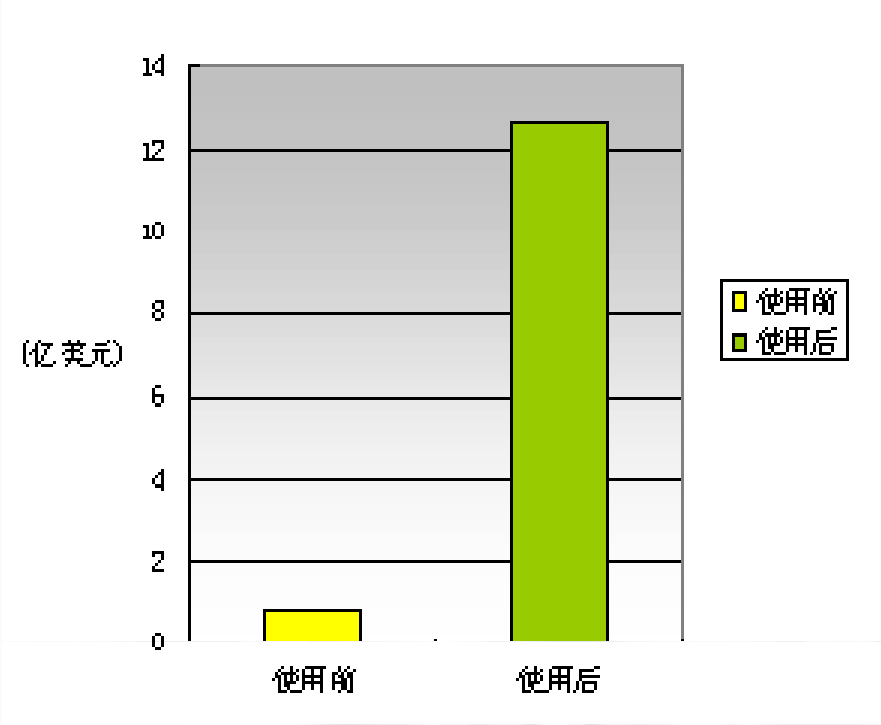


Networked CO Verification System among Laos, Cambodia and Myanmar



Networked Control System on Processing Trade

Before using this system of China E-Port, Inventec's annual export value was only US$ 80 million. After utilization of the system, the annual exports surged to US$1.27 billion, a 15-fold increase.



With the applications of China E-Port, remarkable economic and social benefits have been brought about in port clearance and administration as well as the modernization and informatization of logistics. We are looking forward to close informatization cooperation with other countries to make even greater contributions to the security and facilitation of global trade.

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English Version

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中国电子口岸
CHINAPORT

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中国电子口岸是国务院有关部委将分别掌管的进出口业务信息流、资金流、货物流等电子底帐数据集中存放到口岸公共数据中心，为各行政管理部门提供跨部门、跨行业的行政执法数据联网核查，并为企业及中介服务机构提供网上办理进出口业务服务的数据交换平台。

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常见问题解答

确 认

一键修复 一键修复工具介绍

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中国电子口岸 CHINA E-PORT
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如果您要修改IC卡的口令，请按如下步骤操作：
1、输入旧口令
2、输入新口令
3、确认新口令
确认修改
本地软件最近更新日期
(20041209)
本地软件更新
中国电子口岸
请选择您要进入的子系统
身份认证管理
舱单申报
转关申报
加工贸易
出口收汇
减免税申报
报关申报
出口退税
网上支付
汽车证明
制卡发卡
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小型船舶
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公路口岸
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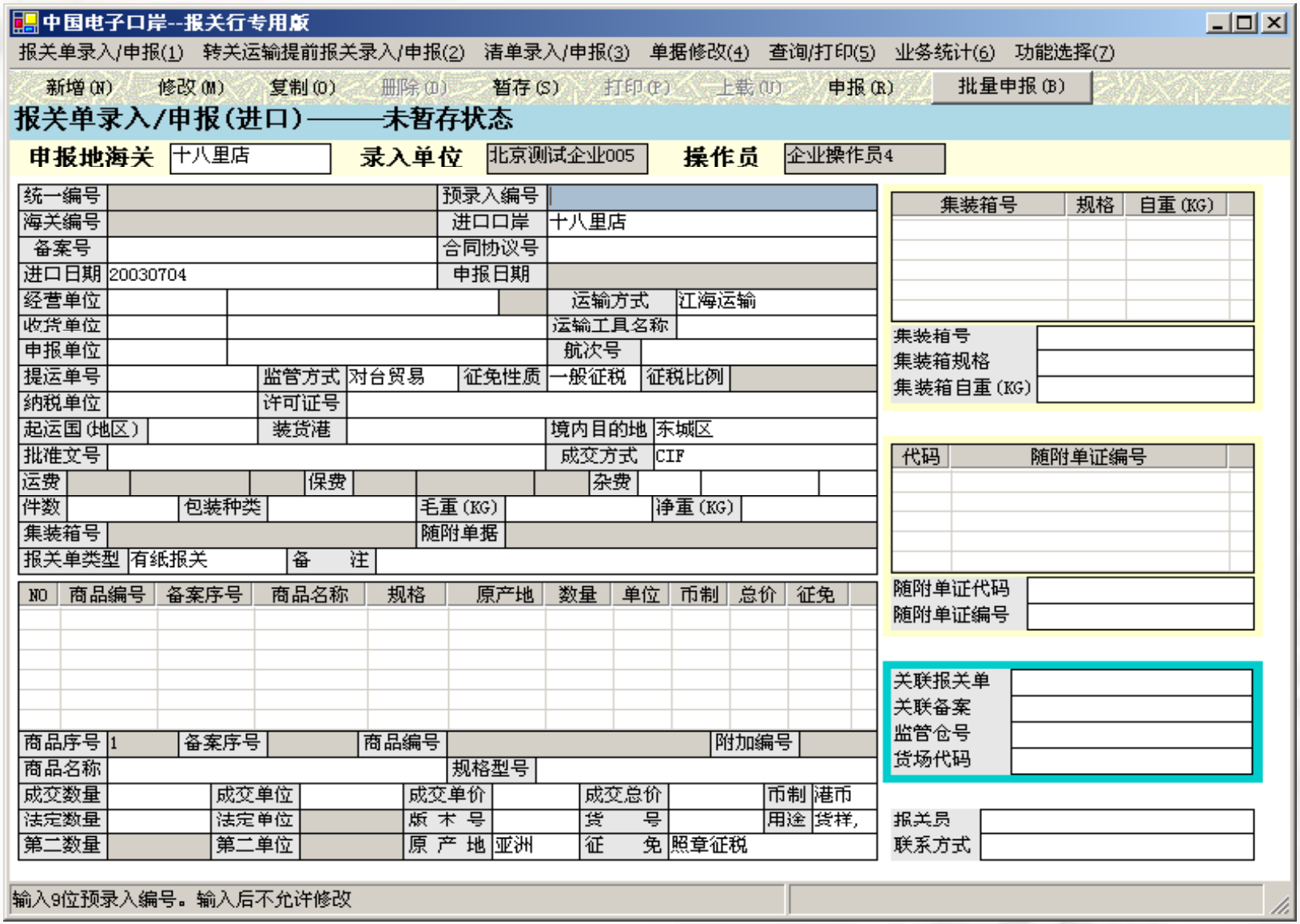
中国电子口岸 CHINA E-PORT

Input interface for an ordinary Customs declaration form



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Major Application System----E-Customs

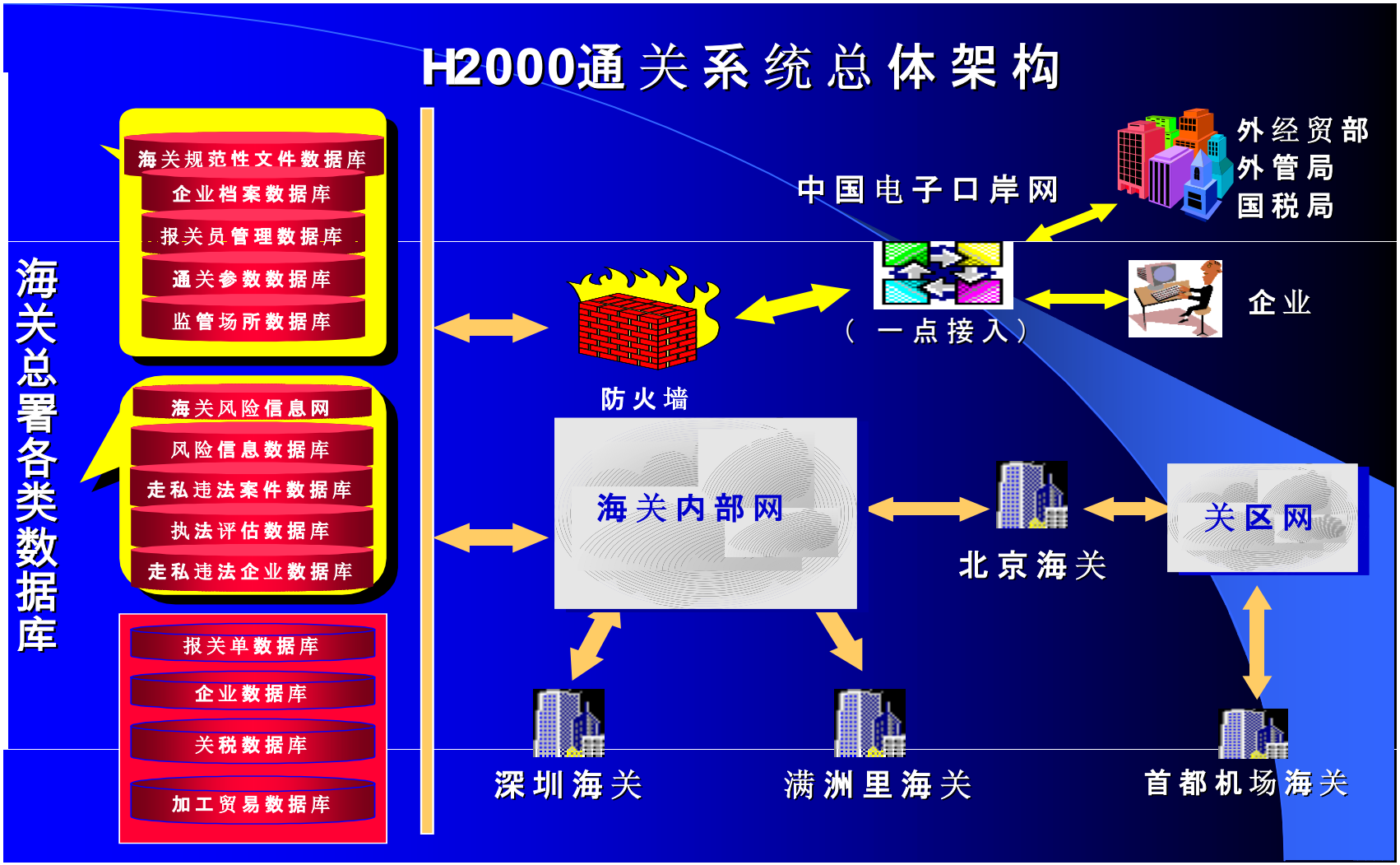
It is a Customs management information system covering all the business functions of nationwide Customs which connects GACC departments with regional Customs and connects different regional Customs, characterized by networked clearance operations and smart cargo flow control. In 1998, starting from clearance reform, we began the first step of building a modern Customs regime and rolled out the application of clearance management system (H883 version 5.0). E-Customs basically came to its shape. In 2003, focusing on risk management, we began the second step of building a modern Customs regime through some pilot projects and the rolling out of the H2000 clearance management system. E-Customs grew to a mature stage.

What has E-Customs realized?

1. Networked clearance operations across China Customs

Utilizing PSTN, we established a three-tier VPN to connect GACC, 46 regional Customs subordinates under GACC, and over 700 operational sites. The helped realize the networked applications among the different links of a clearance site, between operational sites and regional Customs, and among different regional Customs. The networking of the different links of an operational site formed an informatized operational procedure to ensure interactions as well as checks and balances among the links. The networking of operational sites and regional Customs well combined the computerized automatic document inspection and the concentrated document inspection done manually for screened problematic ones, and enhanced unified and standardized clearance management of various operational sites by the regional Customs. The networking among different regional Customs made cross-customs data sharing and networked verification a reality, which addresses, from the root, the problems of falsified documents, falsified licenses, falsified stamps and other smuggling activities through preemptive prevention.

Core of E-Customs
--H2000 Clearance System

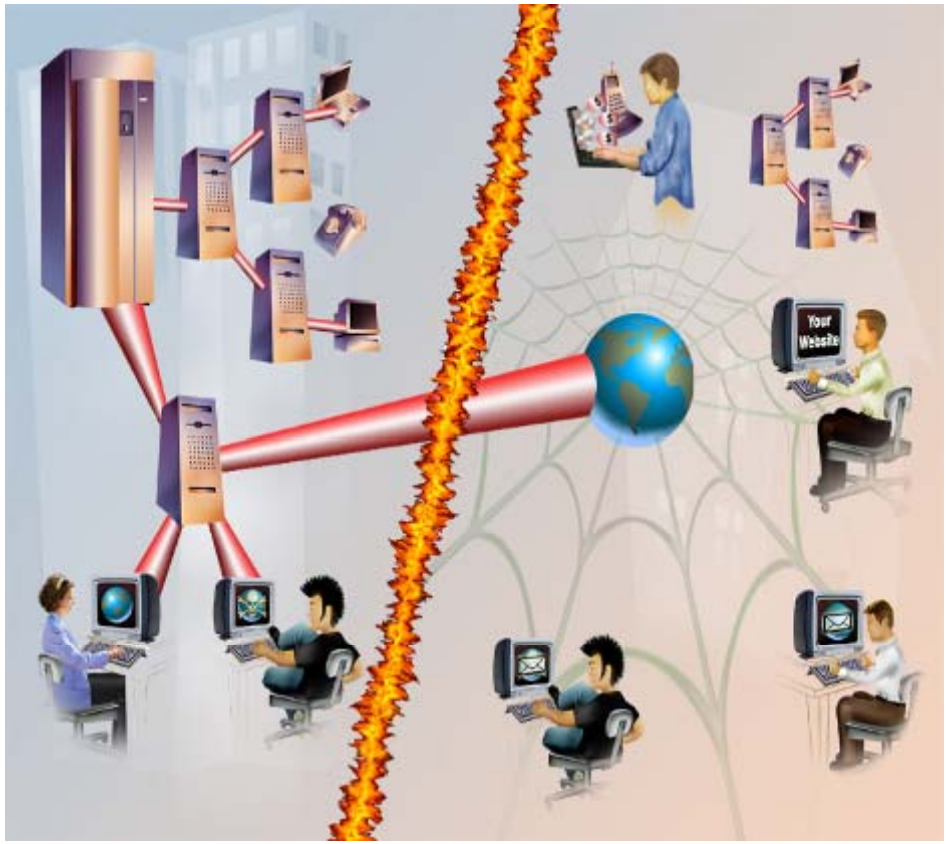


Characteristics of H2000 System —Centralized Databank

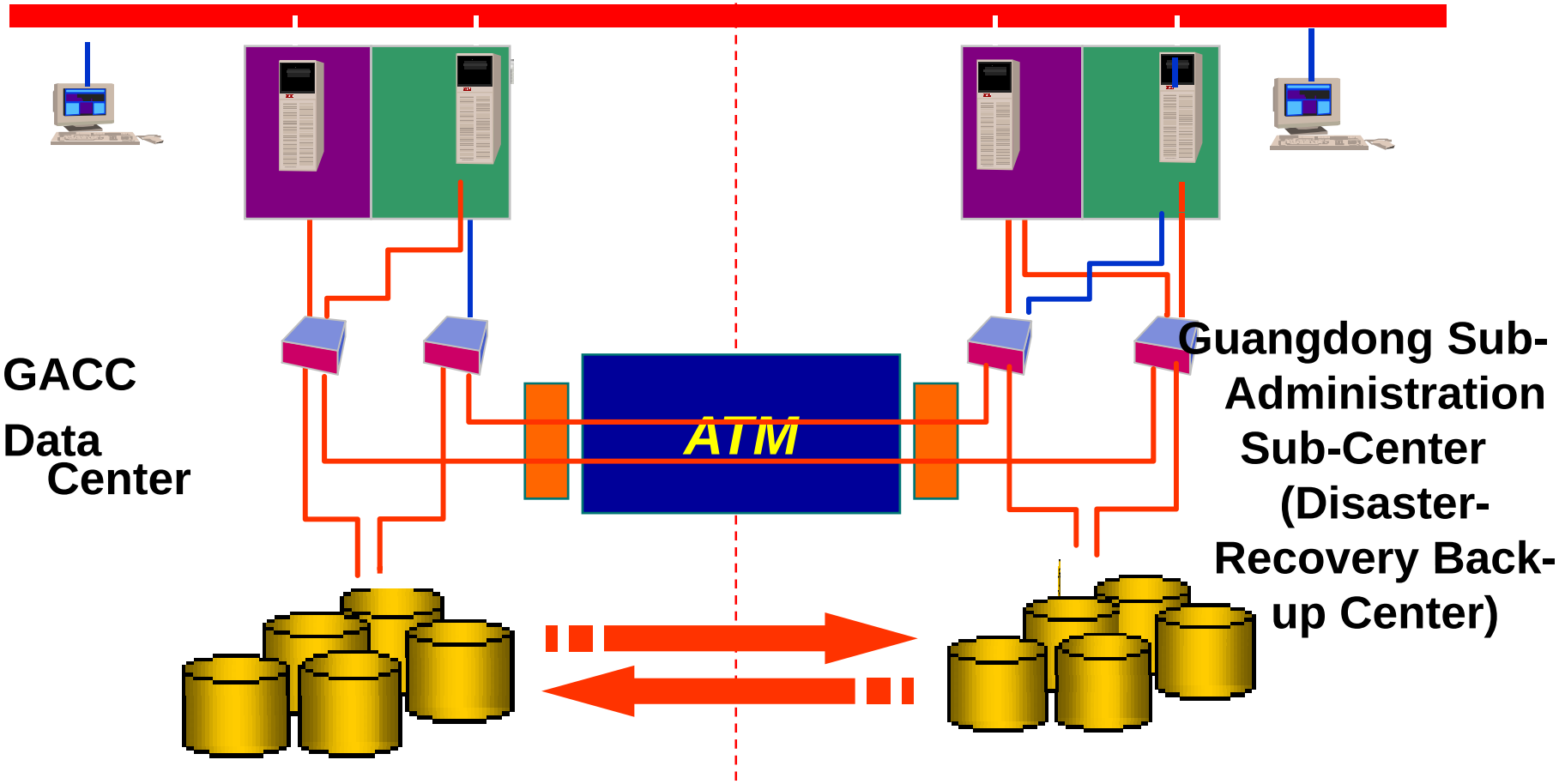
- Data recorded are shared across China Customs
  - contract of bonded operations
  - means of transport
  - import/export manifests
  - importers/exporters
  - permits, licenses, certificate
  - companies engaging in processing trade
  - table of duty reliefs
  - risk information
- Raised clearance efficiency, and reduced data transmission requirements
- Raised the accuracy of data, and reduced data redundancies
- GACC can have real-time access to data on import/exports across the country

Safety— Safety Design of the H2000 System

- ID reading
- Digital signature
- Data encryption
- System audit
- Network safety
  - Firewalls
  - Monitoring & Testing



Highly Reliable
—Data Center and Disaster-Recovery Back-up Center



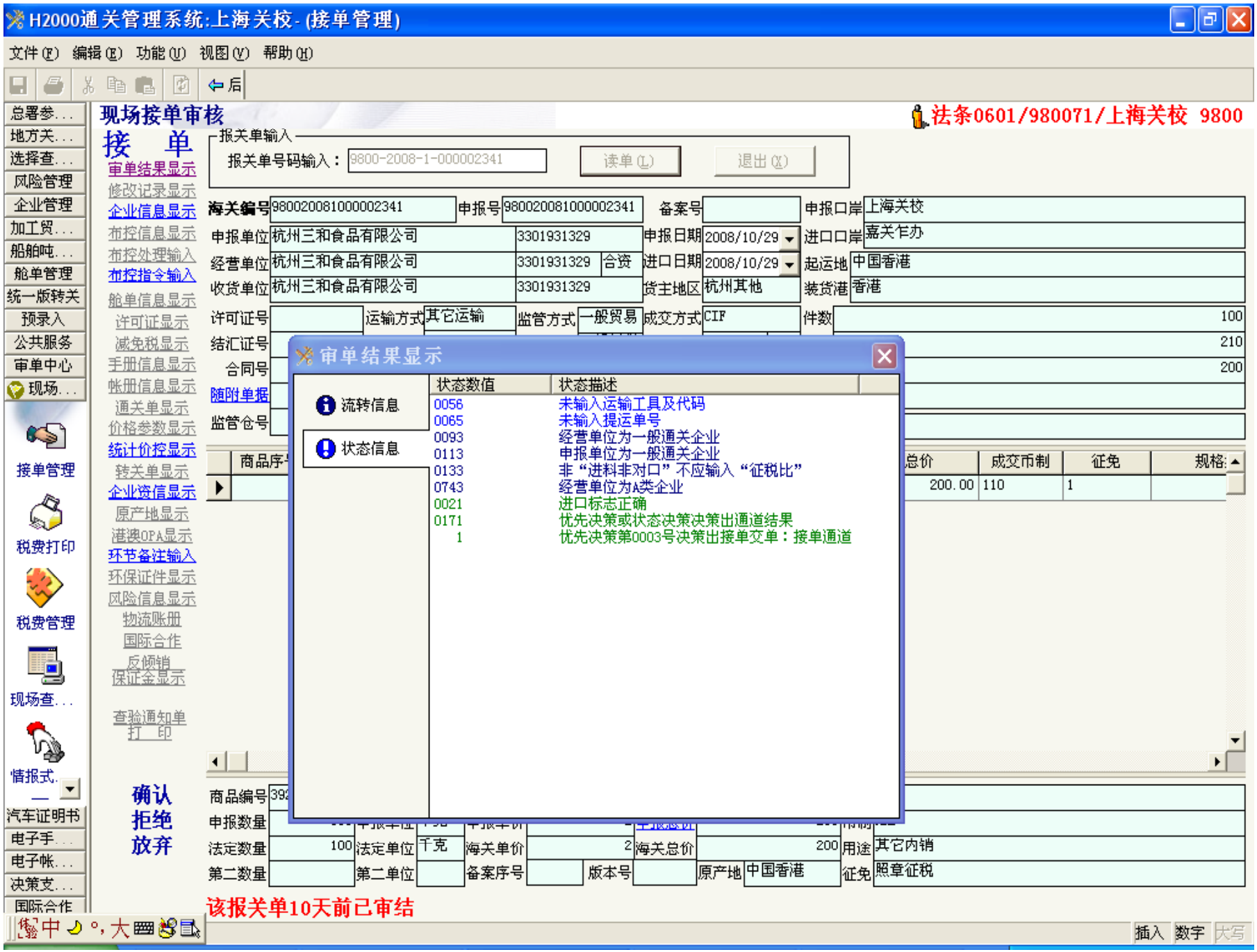
Benefits of H2000 System

- **Economic**
  - Good for raising clearance efficiency
  - Good for reducing trading costs
  - Good for increasing national fiscal revenue
  - Good for improving the economic order at ports
- **Social**
  - H2000's rolling out is a milestone in China Customs' informatization drive
  - H2000's rolling out is a creative move in China's informatization drive
  - H2000's rolling out will promote reforms of Customs operations and management
  - H2000's rolling out will make Customs operations more unified and standardized

Essential Sub-Systems of H2000 System

- At present, under H2000 System, there are 35 essential sub-systems
  - GACC parameters maintenance, local parameters maintenance, authorized management
  - advance input into the system, public services
  - document inspection centers, on-site operations, proceeding management, clearance management, manifest management, risk management, unified management of transit between different Customs houses
  - enterprise management, license and permit management, duty relief management, vessel tonnage tax management, case management, confiscated income management, processing trade management, trade statistics compilation, forex payment verification and write-off, vehicle certificates

H2000通关管理系统:广州海关- (接单管理)
文件(F) 编辑(E) 功能(U) 视图(V) 帮助(H)
后
外汇核销单
公共服务
现场...
接单管理
税费管理
查验管理
查验派...
保金保...
贸易统计
现场接单管理系统
张继雷/511098/广州石牌 5130
现场接单管理系统
china customs
现场接单审核
现场业务综合处理
现场业务一体化处理
查验通知单打印
接单统计
报关单查询
报关单打印
现场验估反馈
现场审单
报关单修改
现场值班审单
报关单修改申请
报关单删除申请
报关单删改申请查询
后补征免税证明
担保或无纸报关监控
准备...
插入
数字
大写
开始
H2000通关管...
EN
10:47


H2000通关管理系统:上海关校 - (接单管理)
文件(F) 编辑(E) 功能(U) 视图(V) 帮助(H)
后
总署参...
地方关...
选择查...
风险管理
企业管理
加工贸...
船舶吨...
舱单管理
统一版转关
预录入
公共服务
审单中心
现场...
接单管理
税费打印
税费管理
现场查...
情报式...
汽车证明书
电子手...
电子帐...
决策支...
国际合作
现场接单审核
法条0601/980071/上海关校 9800
接 单
审单结果显示
修改记录显示
企业信息显示
布控信息显示
布控处理输入
布控指令输入
舱单信息显示
许可证显示
减免税显示
手册信息显示
帐册信息显示
通关单显示
价格参数显示
统计价控显示
转关单显示
企业资信显示
原产地显示
港澳OPA显示
环节备注输入
环保证件显示
风险信息显示
物流账册
国际合作
反倾销保证金显示
查验通知单打 印
确认
拒绝
放弃
报关单输入
报关单号码输入：
9800-2008-1-000002341
读单(L)
退出(X)
海关编号 980020081000002341
申报号 980020081000002341
备案号
申报口岸 上海关校
申报单位 杭州三和食品有限公司 3301931329
申报日期 2008/10/29
进口口岸 嘉关乍办
经营单位 杭州三和食品有限公司 3301931329 合资
进口日期 2008/10/29
起运地 中国香港
收货单位 杭州三和食品有限公司 3301931329
货主地区 杭州其他
装货港 香港
许可证号
运输方式 其它运输
监管方式 一般贸易
成交方式 CIF
件数 100
结汇证号 210
合同号 200
随附单据
监管仓号
审单结果显示
流转信息
状态信息
状态数值
状态描述
0056 未输入运输工具及代码
0065 未输入提运单号
0093 经营单位为一般通关企业
0113 申报单位为一般通关企业
0133 非“进料非对口”不应输入“征税比”
0743 经营单位为A类企业
0021 进口标志正确
0171 优先决策或状态决策决策出通道结果
1 优先决策第0003号决策出接单交单：接单通道
商品序号
总价
成交币制
征免
规格
200.00
110
1
商品编号
申报数量
法定数量 100
法定单位 千克
海关单价 2
海关总价 200
用途 其它内销
第二数量
第二单位
备案序号
版本号
原产地 中国香港
征免 照章征税
该报关单10天前已审结
插入
数字
大写

What has E-Customs realized?

2. Smart Cargo Flow Control

Cargo Flow Control System is based on the clearance management system. It has adopted state-of-the-art monitoring and inspection technologies and computer network technologies to integrate container inspection equipment, GPS, electronic weigh bridges, electronic entry/exit gates, electronic vehicle plates, video surveillance and other relevant technologies and equipment into one single complex, which can consolidate the cargo flow information received from the risk management platform, E-Port and EDI centers to establish E-ledger and conduct networked matching and automated processing of cargo flow information collected on site.

What has E-Customs realized?

2. Smart Cargo Flow Control

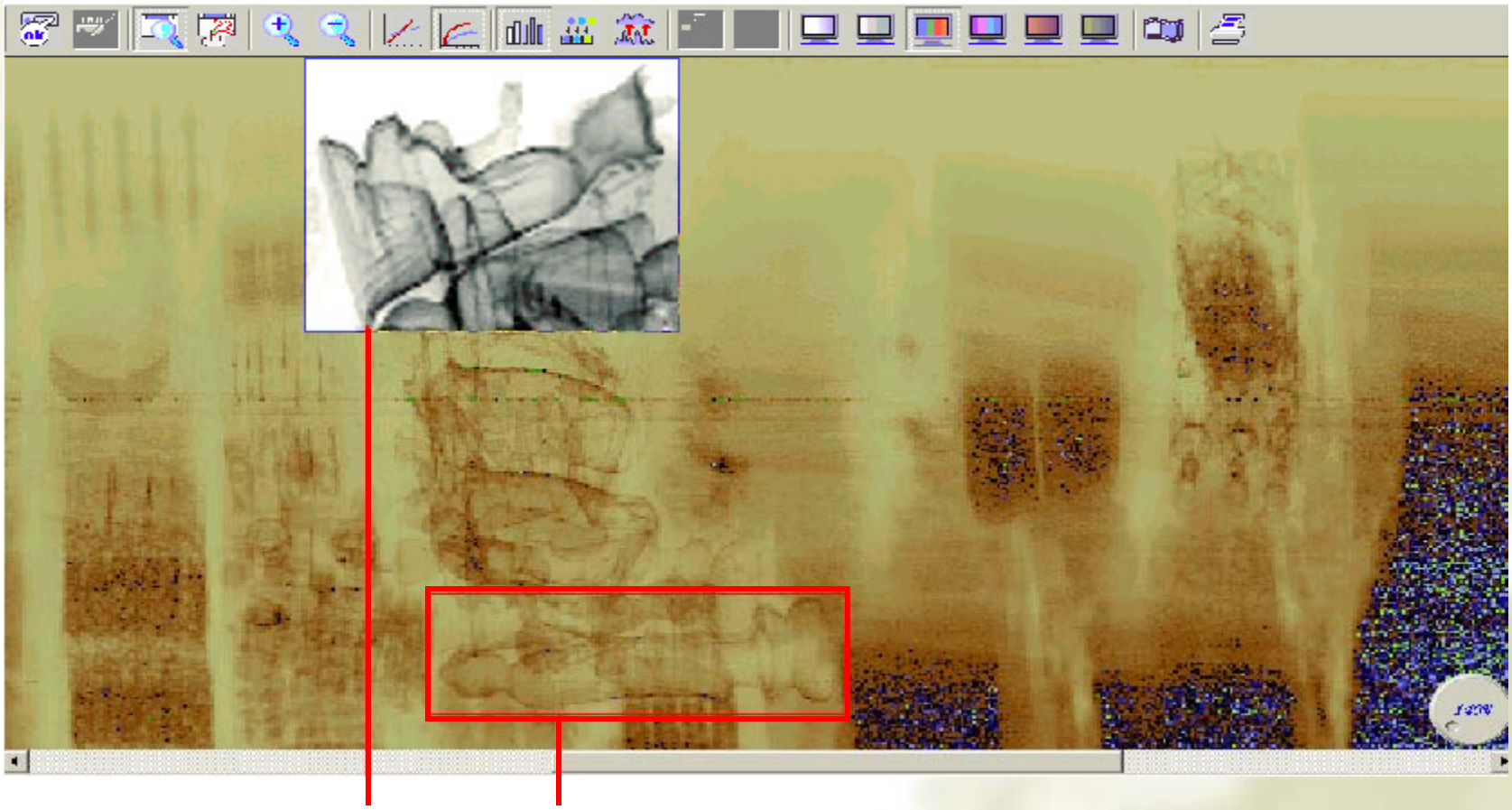
The Cargo Flow Control System mainly includes the following sub-systems: subsystem on recordation of transportation companies, means of transport, their staff, sub-system on recordation of Customs control premises, subsystem on management of international means of transport, sub-system on container management, sub-system on entry/exit gate networking and control, sub-system on management of small vessels of travelling to and fro Hong Kong SAR and Macao SAR, etc.. Its development started in 1998. After 2000, it was put into use in some Customs houses and gradually realized the computerized management and whole-process monitoring of clearance of means of transport and goods. By the end of 2006, import containers controlled utilizing this system exceeded 90%.

中国海关

2010-6-29

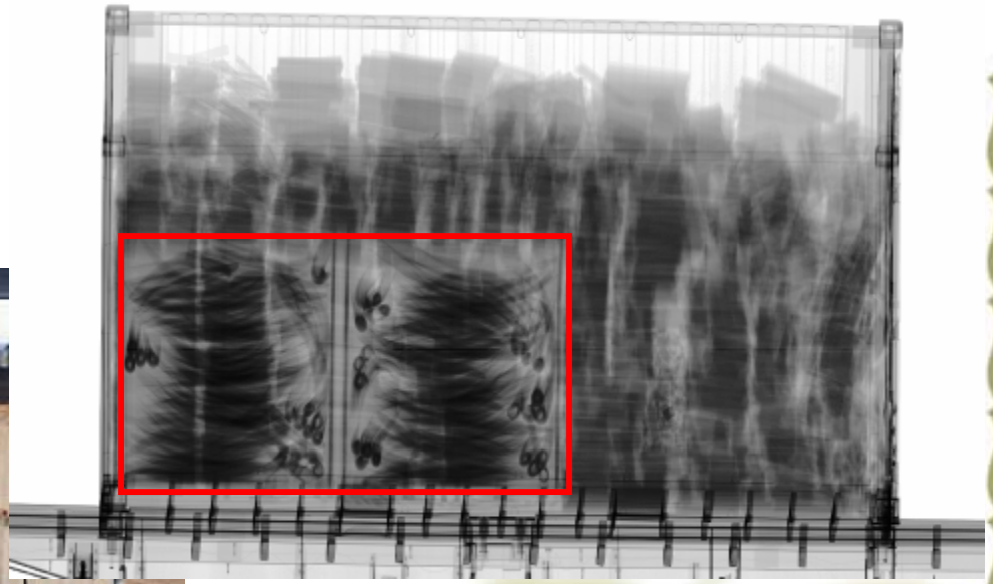
2010-6-29

Guangzhou Sanshan Customs detected a case of Buddha figure smuggling



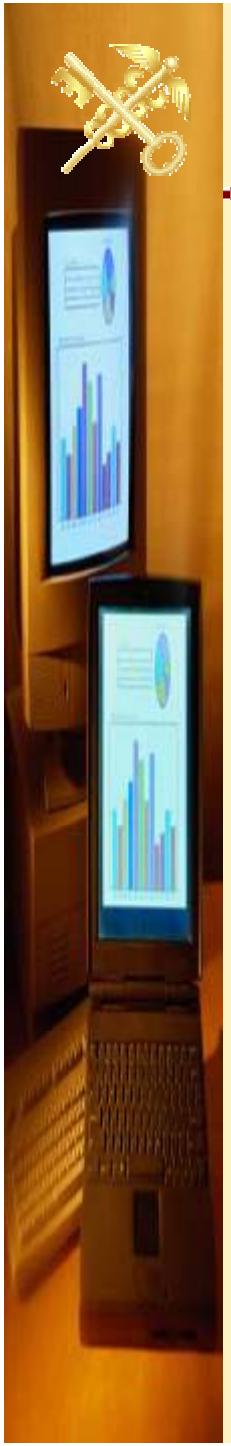
Buddha figure smuggled

Qingdao Dagang Customs: ivory smuggling case



Major Applications: E-GACC

This is a virtual information system built in light of the vertical management structure of China Customs. Based on E-Customs, it helps realize digitized operational monitoring & analysis and auxiliary decision making. It enables GACC and the regional Customs houses to have more scientific functional management and day-to-day administration. It comprises a confidential intranet (OA), an operational extranet, and the Internet as well as the different applications at the three levels of network.



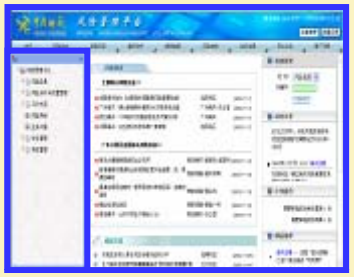
E-GACC

Development started in 2001. Now, a total of 5 key applications: risk management platform, sub-system on import/export statistics analysis & early warning, sub-system on enforcement evaluation, sub-system on tariff monitoring & analysis, and the confidential office automation (OA) sub-system.

Applications of E-GACC have provided scientific and effective means for GACC and regional customs houses for operational monitoring & analysis and auxiliary decision making. Very helpful.

E-GACC:
Risk Management Platform

+



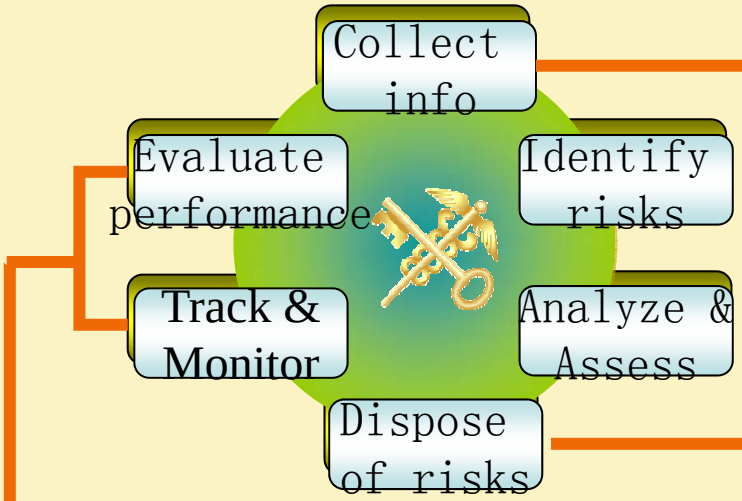
Data Applications

The risk platform collects various data, which are then presented in forms of reporting, enquiries, multi-dimensional demonstration. Through simulating human experience, it provides users with tools for knowledge and analysis of operations and risks.

Information Management

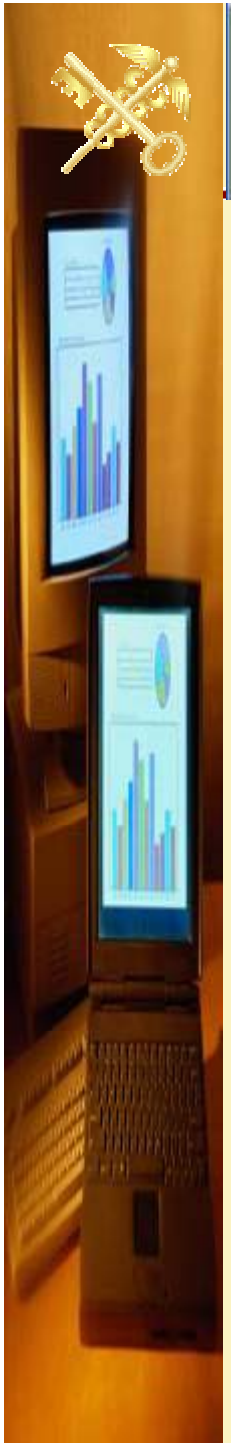
Through Customs intranet, it integrates the functions of risk analysis coordination, risk disposal coordination and information exchange into a single platform for unified and shared risk management nationwide across different Customs districts.

Functional Design of Information Management Module

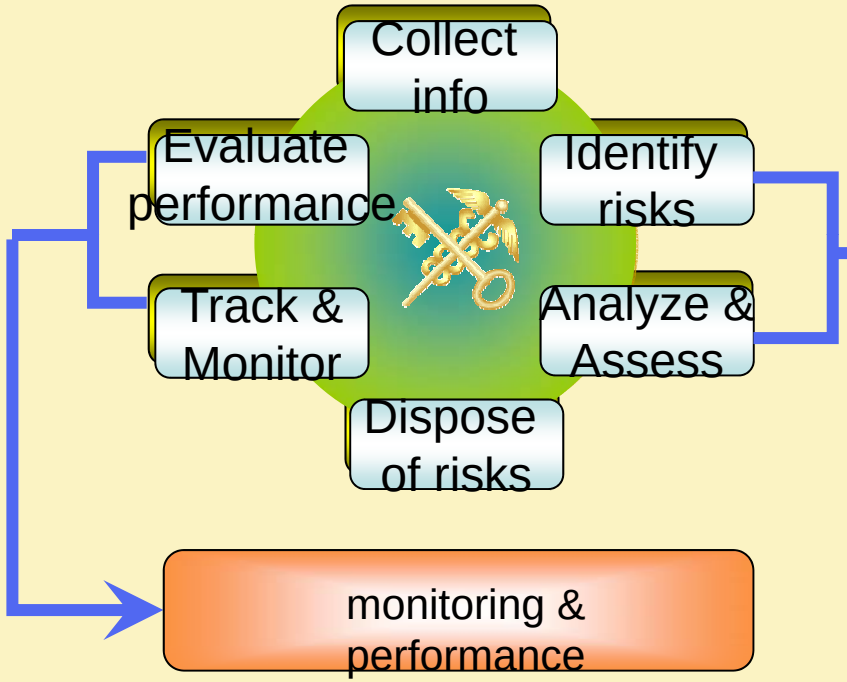


- Risk info management
- Operational management of risk analysis & disposal
- Working communication
- Hotline on risks
- Discussions

- Safety Management
- System Management



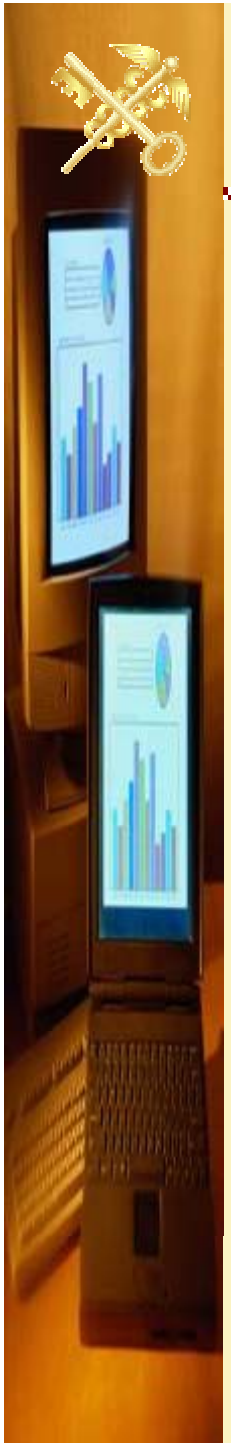
Functional Design of Data Application Module



- Chart View
- Enquiries on Administrative Counterparts
- Enquiries on General Operational Data
- Monitoring over Operations
- Special Analysis of Targeted Operational Data

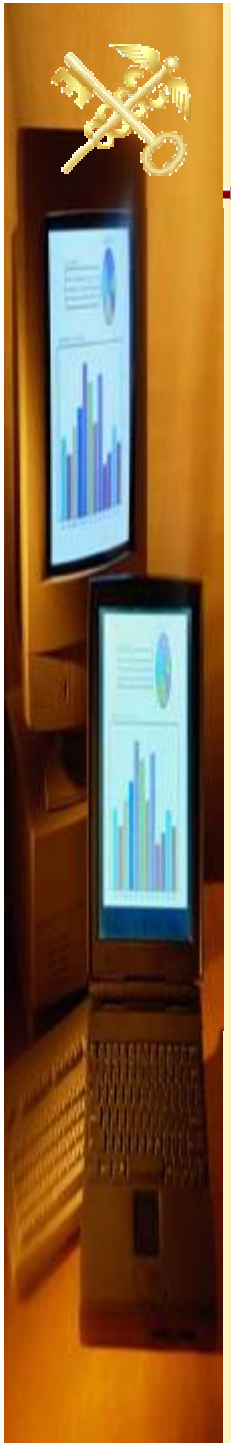
monitoring & performance management of risk profiling

- Data quality management
- Safety management
- System management



- Risk platform realized risk management information and data exchange and sharing within China Customs. It is a very good platform for different departments of Customs to collaborate and exchange information with each other for risk management mutual assistance. At the same time, it also boasts of a powerful function of data enquiries, analysis and processing, which enables Customs officers to have timely monitoring of the import/export situations focusing on enterprises or on commodities to identify the potential risks.

- Incomplete statistics showed, in 2006 alone, through the risk management platform, China Customs detected 14,557 cases of violations, with a value of 18.583 billion CNY, involving 1.868 billion CNY of duties and taxes. Thanks to the platform, 836 million CNY of duties and taxes evaded and 114 million CNY of fines were collected. The platform can also reduce the blindness in on-site inspections, facilitate clearance for compliant enterprises, further standardize Customs operations and management, render operations more effective, and prevent corruption.



E-GACC: Customs E-governance

- Confidential intranet (OA)
- E-governance extranet

Homepage of China Customs Portal

海关政务办公系统
规范 高效
仿生化 模块化
全部应用
工作台
吴江，您好！
个人信息
个人设置
个人收藏
待办事项(1)
已办事项
授权委派
收文管理
发文管理
签报管理
督办管理
政务信息
文书档案
系统管理
已办箱
应用程序
查询
刷新
删除
全选
任务类型
全部
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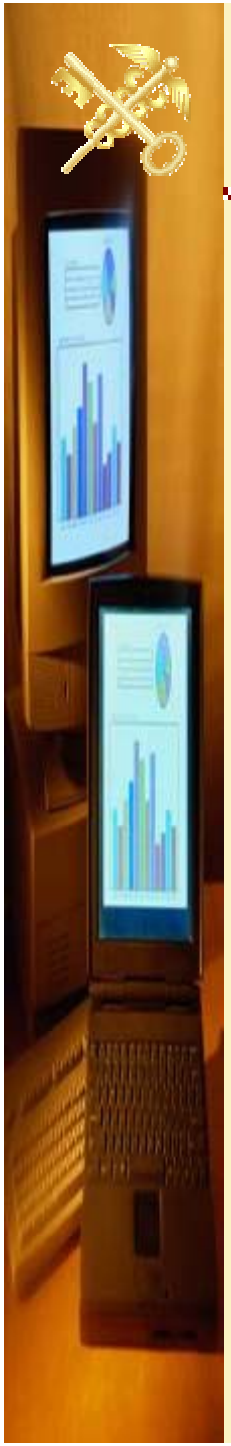
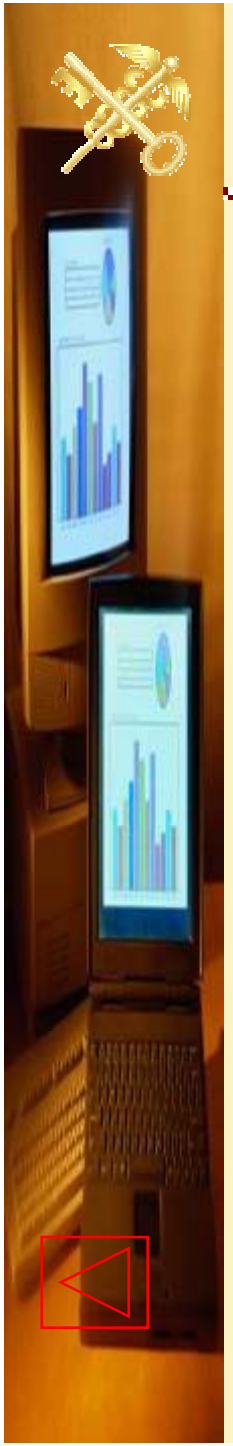


E-GACC:
Tariff Analysis & Monitoring Sub-System

- **It performs the following tasks:**
  - **timely compilation of statistics on tariff, processing trade and bonded operations**
  - **Timely knowledge of trade mix and commodity mix for multi-dimensional analysis of tariff collection situations; monitoring the operations and enforcement at various links of duty collection**
  - **Overall evaluation of duty collection by Customs for improvement of enforcement; provide risk information on clearance, examination & approval, and management;**
  - **Promote standardization of various operations, and provide primary-line information on import/export duties/taxes, commodity mix, pricing level, trade volume, etc. for economic policy-making of the State.**



E-GACC:
Customs Enforcement Evaluation Sub-System

- This system has adopted advanced statistics analysis and data exploration technologies. It can help with decision making through monitoring & supervising Customs enforcement effectiveness & efficiency and the overall risk indicators. It conducts overall analysis of Customs clearance data and data fed by other agencies and international partners. It conducts dynamic analysis & monitoring of the implementation of trade measures, duty collection quality, cargo flow control, processing trade control, etc. at different customs houses, and makes a quantitative assessment of their administrative enforcement, operations and management, to identify problems and signal an early warning.

- Specific functions of the system: evaluation of duty collection situations, price levels, risks, processing trade management, reasonableness of cargo flow directions; analysis & early warning concerning smuggling situations and trends; release and management of evaluation reports, etc.. Rolled out in 2001. By Aug. 2008, through tips given by this system, China Customs collected an additional amount of 970 million CNY duties and taxes, and detected 62 million CNY of evaded duties/taxes. The total amount involved in problems detected by the system reached 1.22 billion CNY.

- History
- Status Quo
  - Scale
  - Typical application: E-Port
  - Other major applications
- Importance of application of IT in China Customs
- H2010 Project

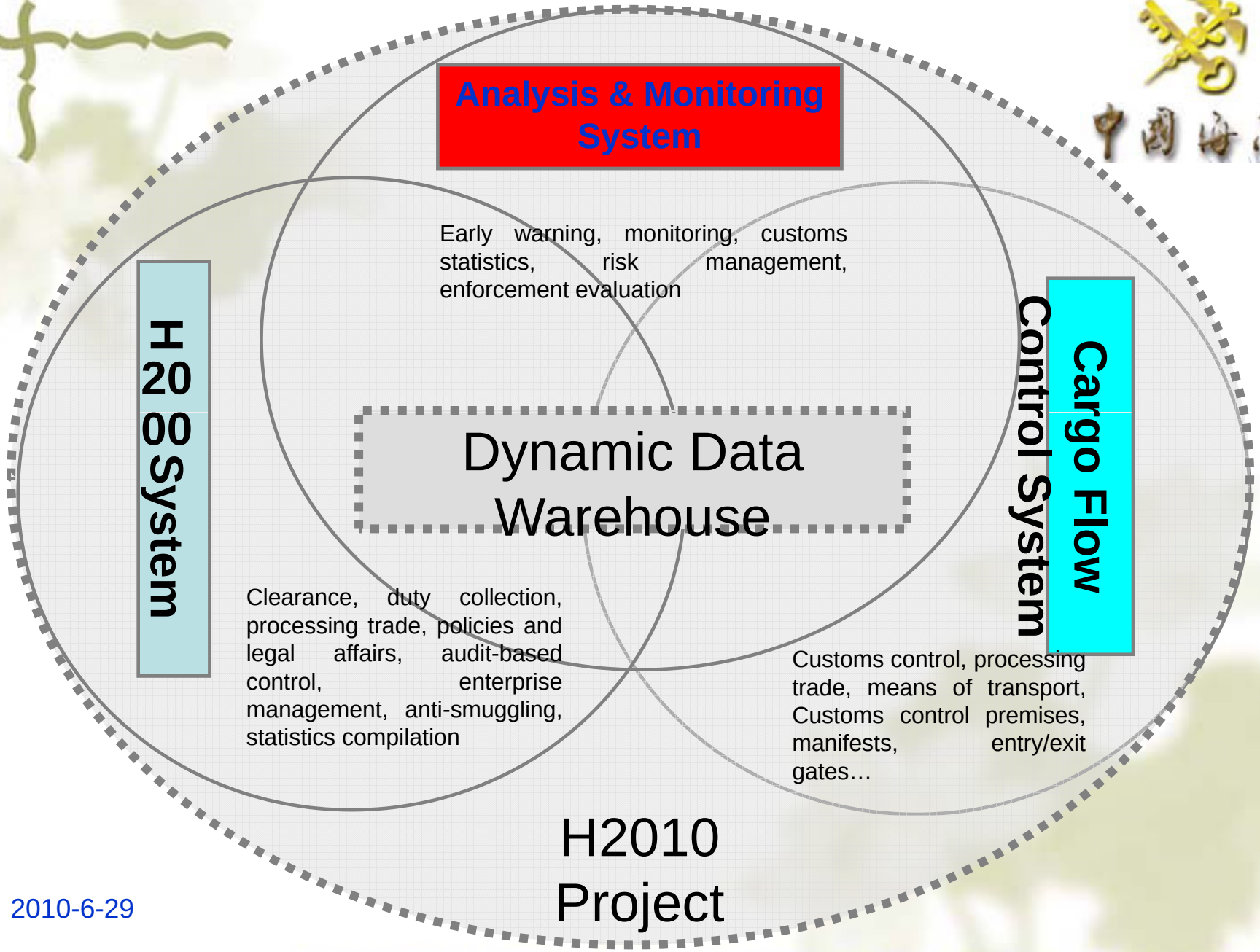
Importance of application of IT in China Customs

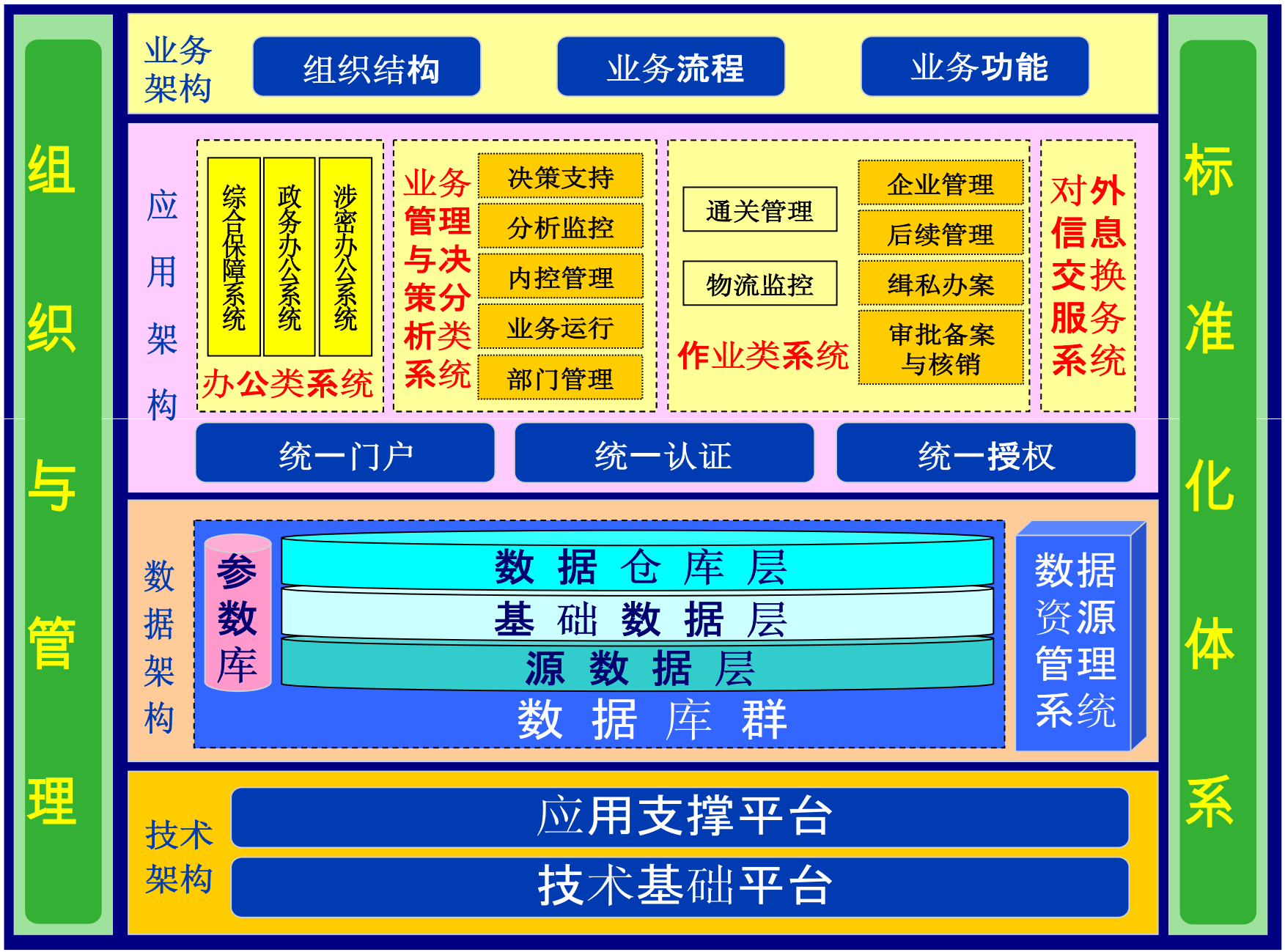
- Better clearance operations
- Better duty collection
- Enhanced control and anti-smuggling efforts to ensure normal economic order of import/export
- Higher clearance efficiency, lower trading costs, and enhanced competitive edge on the international market
- Better cross-cutting cooperation for improved management and services at ports
- Better statistics analysis for provision of better services for decision making and macro-control by the State
- Reduced corruption risks and higher level of integrity

- History
- Status Quo
  - Scale
  - Typical application: E-Port
  - Other major applications
- Importance of application of IT in China Customs
- H2010 Project

An Integrated Management System for a Modern Customs （H2010 Project）

- In light of the requirements of changing situations, it is necessary to develop a new-generation computerized management system which can meet the needs of integrated Customs control while accommodating the needs of clearance management so that there is no lagging behind when the integrated Customs control framework is being built.
- Necessity and urgency for H2010 Project: development of integrated Customs control; non-traditional Customs functions and international cooperation; integration of Customs information systems; upgradation and development of modern ICT technologies.


Analysis & Monitoring System
Early warning, monitoring, customs statistics, risk management, enforcement evaluation
H2000 System
Dynamic Data Warehouse
Cargo Flow Control System
Clearance, duty collection, processing trade, policies and legal affairs, audit-based control, enterprise management, anti-smuggling, statistics compilation
Customs control, processing trade, means of transport, Customs control premises, manifests, entry/exit gates…
H2010 Project


组织与管理
业务架构
组织结构
业务流程
业务功能
应用架构
综合保障系统
政务办公系统
涉密办公系统
办公类系统
业务管理与决策分析类系统
决策支持
分析监控
内控管理
业务运行
部门管理
通关管理
物流监控
作业类系统
企业管理
后续管理
缉私办案
审批备案与核销
对外信息交换服务系统
统一门户
统一认证
统一授权
数据架构
参数库
数据仓库层
基础数据层
源数据层
数据库群
数据资源管理系统
技术架构
应用支撑平台
技术基础平台
标准化体系