



Application of Information Technologies in China Customs and E-Ports

—— WU Jiang, Shanghai Customs College



- √ **History**
- √ **Status Quo-Current Scale**
- √ **E-port**
 - > **Other major applications**
- √ **Application of IT in China Customs**
 - > **E-customs E-GACC**
- √ **H2010 Project**

History



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

2001, Customs enforcement evaluation system put into operation.

口岸执法管理跨部门联网综合应用阶段
(2001)

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

海关内跨部门跨地区
(1998)

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

系统化应用
(1988)

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

单项应用阶段
(1978)



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- √ **H2010 Project**



Current Scale

with 30 years of constant explorations, accumulation and development in information construction. Customs informationization had gradually phased in the network infrastructure, technological equipment, project development, etc. 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

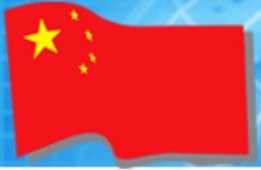
“E-port” projects : 42

Local projects developed by regional Customs :
280



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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”.



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.



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

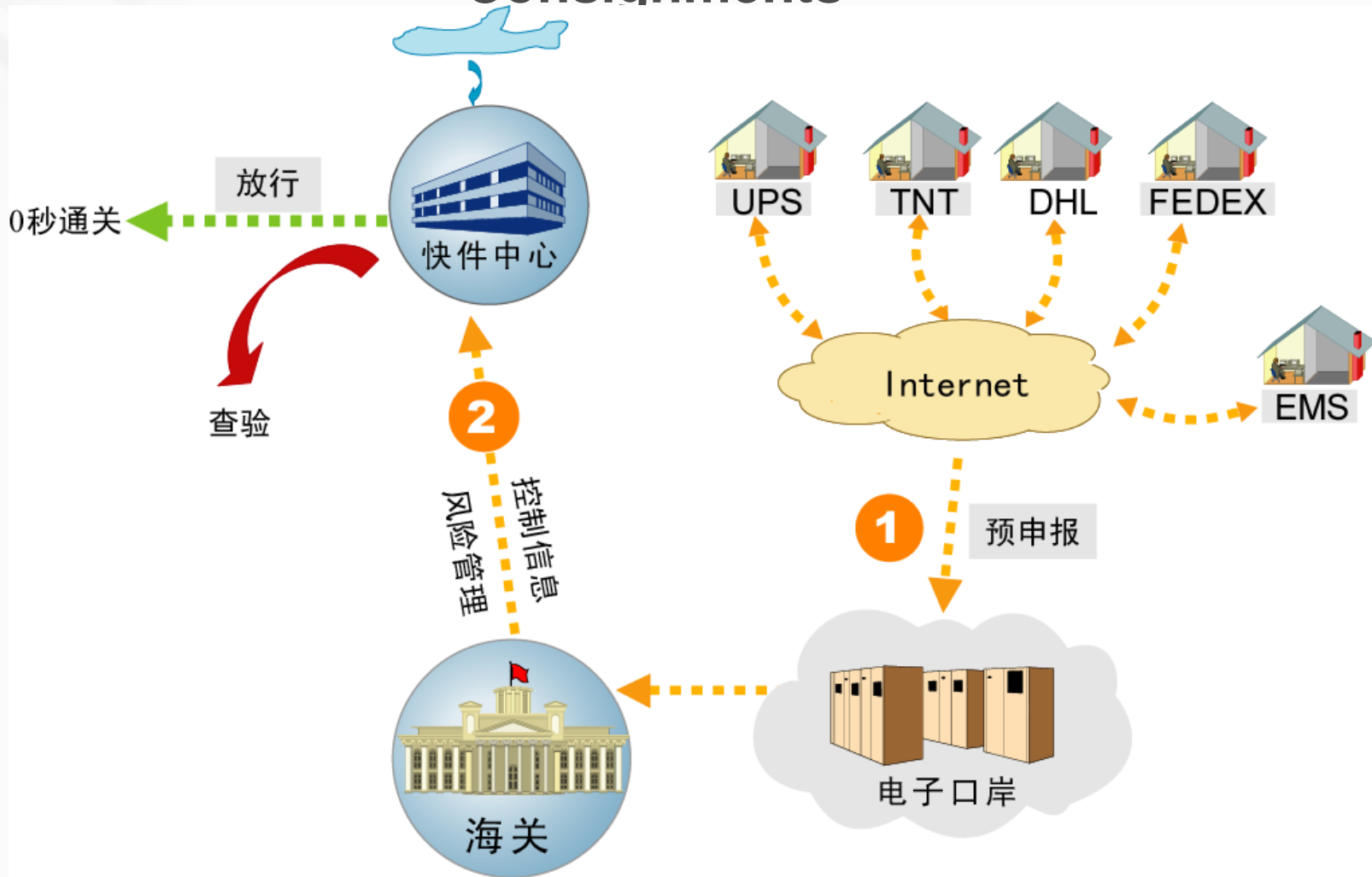


Significance of China E-Port

- **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**



Networked Applications for Express Consignments



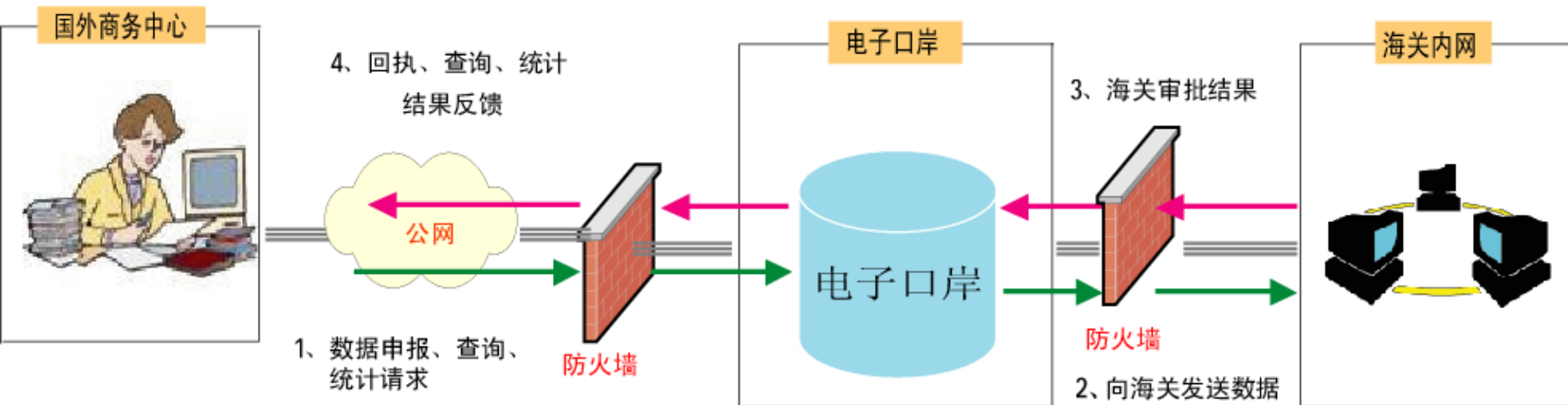


Networked CO Verification System among Laos, Cambodia and Myanmar

国外发证机构

电子口岸

H2000系统





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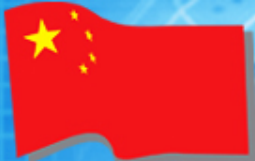
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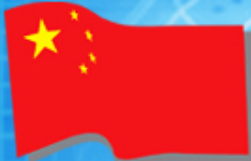
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新增(N) 修改(M) 复制(O) 删除(D) 暂存(S) 打印(P) 上载(U) 申报(R) 批量申报(B)

报关单录入/申报(进口)——未暂存状态

申报地海关 录入单位 操作员

统一编号			预录入编号		
海关编号			进口口岸	十八里店	
备案号			合同协议号		
进口日期	20030704		申报日期		
经营单位			运输方式	江海运输	
收货单位			运输工具名称		
申报单位			航次号		
提运单号		监管方式	对台贸易	征免性质	一般征税
纳税单位		许可证号		征税比例	
起运国(地区)		装货港		境内目的地	东城区
批准文号			成交方式	CIF	
运费		保费		杂费	
件数		包装种类		毛重(KG)	
集装箱号				净重(KG)	
报关单类型	有纸报关	备注			

NO	商品编号	备案序号	商品名称	规格	原产地	数量	单位	币制	总价	征免

商品序号	1	备案序号		商品编号		附加编号	
商品名称			规格型号				
成交数量		成交单位		成交单价		成交总价	
法定数量		法定单位		版本号		货号	
第二数量		第二单位		原产地	亚洲	征免	照章征税

集装箱号	规格	自重(KG)

集装箱号

集装箱规格

集装箱自重(KG)

代码	随附单证编号

随附单证代码

随附单证编号

关联报关单	<input type="text"/>
关联备案	<input type="text"/>
监管仓号	<input type="text"/>
货场代码	<input type="text"/>

报关员

联系方式

输入9位预录入编号。输入后不允许修改



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Major Application System----E-Customs



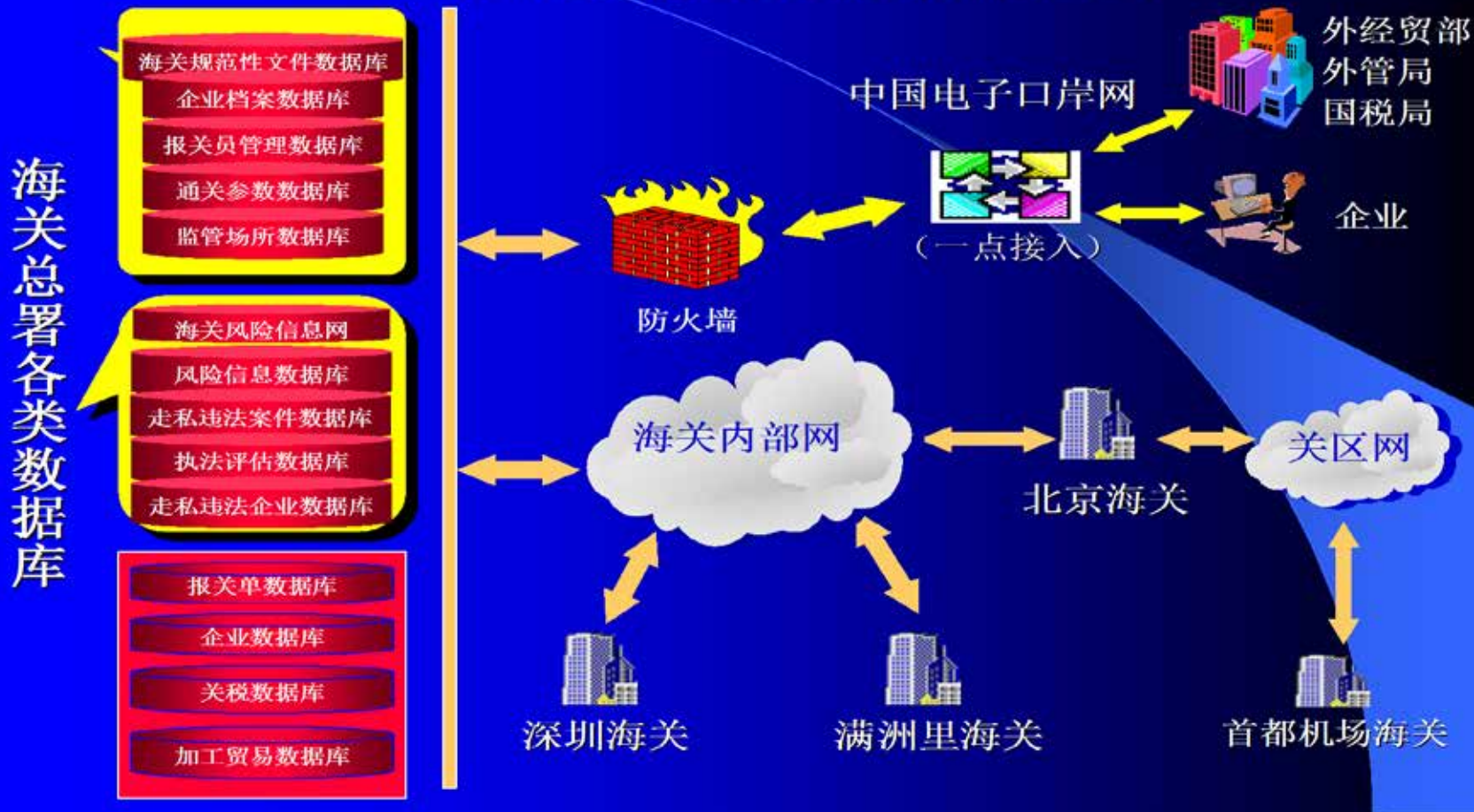
E-customs is a Customs management information system covering all the business functions of nationwide Customs which connects GACC departments with regional Customs and connects different regional Customs, characterized by networked clearance operations and smart cargo flow control. In 1998, starting 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.

Core of E-Customs

--H2000 Clearance System



H2000通关系统总体架构



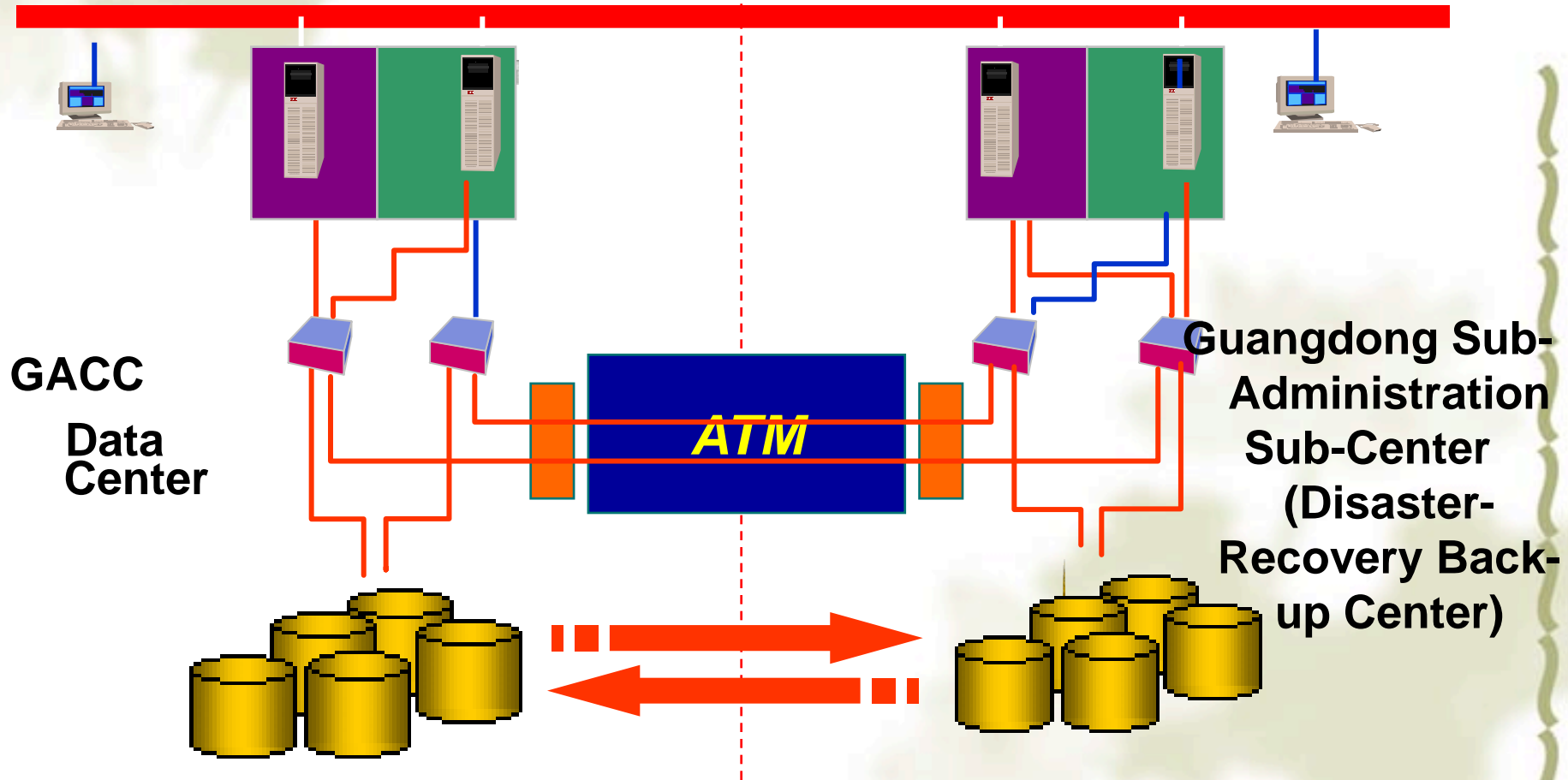


Characteristics of H2000 System —Centralized Databank

- ✓ **Data recorded are shared across China Customs**
 - contract of bonded operations
 - import/export manifests
 - permits, licenses, certificate
 - table of duty reduction and exemption
 - means of transport
 - import & export enterprises
 - companies engaged in processing trade
 - 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**

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



税费管理



查验管理



查验派...



保金保...



贸易统计



准备...



准备...



准备...



准备...

准备...

现场接单管理系统



- 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

- 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

- 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
- 随附单据
- 通关单显示
- 价格参数显示
- 统计价控显示
- 转关单显示
- 企业资质显示
- 原产地显示
- 港澳OFA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

法条0601/980071/上海海关 9800

报关单输入
 报关单号码输入:

海关编号	980020081000002341	申报号	980020081000002341	备案号		申报口岸	上海海关
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
结汇证号		合同号		件数			100
							210
							200

审单结果显示

流转信息	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	商品编号	申报数量	法定数量	第二数量	法定单位	第二单位	海关单价	海关总价	原产地	用途	征免	规格						
	399		100		千克			200	中国香港	其它内销	照章征税							
<table border="1" style="width: 100%;"> <tr> <td>总价</td> <td>200.00</td> <td>成交币制</td> <td>110</td> <td>征免</td> <td>1</td> <td>规格</td> <td></td> </tr> </table>											总价	200.00	成交币制	110	征免	1	规格	
总价	200.00	成交币制	110	征免	1	规格												

确认
拒绝
放弃

该报关单10天前已审结

2. E-Customs realized 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.

The import containers controlled utilizing this system exceeded 90%.

2012/7/20

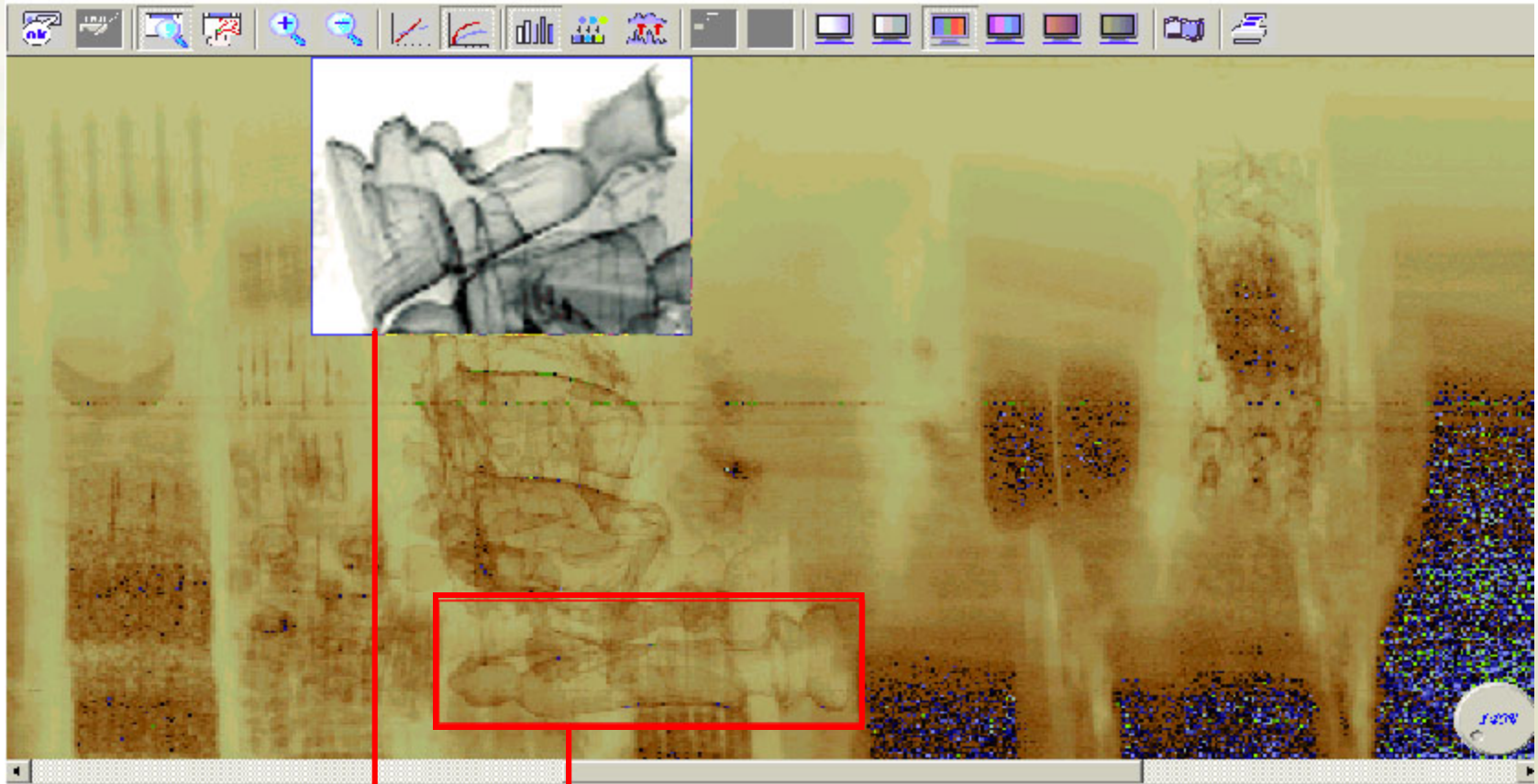
28



中國海運



Guangzhou Sanshan Customs detected a case of Buddha figure smuggling



Buddha figure smuggled

2012/7/20



Major Applications: E-GACC



E-GACC 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.



About E-GACC

Development since 2001. and currently a total of following 5 key applications had been developed and utilized: 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.

中国海关门户网站首页

2010年5月13日 星期四

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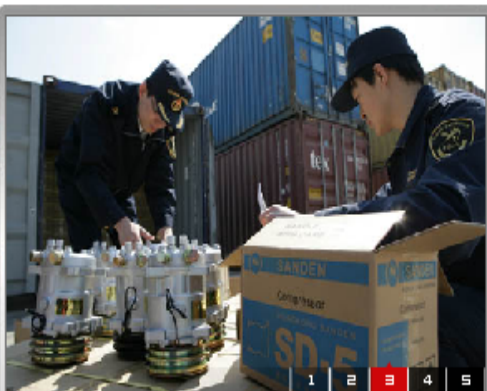
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今日中国海关

交流互动 订阅服务



查获两千余台侵权汽车空调压缩机

海关新闻

专题专栏

在线访谈

媒体报道

图片新闻

- 海关总署: 前4个月外贸增长超四成 4月份呈现小额贸易顺... [2010-05-10]
- 海关总署: 出措施、送物资, 海关火速支援玉树救灾 [2010-04-23]
- 海关总署: 捐款捐物抗震救灾 [2010-04-22]
- 海关总署: 海关开设进境救灾物资绿色通道 [2010-04-16]
- 海关总署: 中哈海关确定合作重点 [2010-04-16]
- 重庆海关: 首个内陆保税港区顺利通过国家验收 [2010-05-12]
- 上海海关: 黄金面具、黄金泪滴相继进境(图) [2010-05-12]
- 厦门海关: 截获千余废旧电池(图) [2010-05-12]
- 成都海关: 参与汶川灾后重建两周年记 [2010-05-12]
- 黄埔海关: 保护地球在行动(图) [2010-05-11]

海关法规

更多信息 >>

署令公告

更多信息 >>

海关总署公告2010年第29号(关于对原产于美国的进

[2010-04-29]

海关总署令 >>

海关总署公告 >>



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

标题	应用程序	目的	来自于	时间	选定
签批提醒:《关于购买手提电脑的申请》	签报管理	签批提醒	肖建国	2010-05-13 07:26	<input type="checkbox"/>
关于成立上海海关学院等级保护领导小组的通知	发文管理	部门审核	刘继进	2010-05-12 11:17	
关于购买手提电脑的申请	签报管理	会签部门批办	陈荣	2010-05-12 10:36	
!! 吴江副处长对文件《海关总署办公厅关于举办涉密办公网分级保护整改实施工作培训班的通知》的批示	收文管理	提醒	吴江	2010-05-11 14:33	<input type="checkbox"/>
!! 海关总署办公厅关于举办涉密办公网分级保护整改实施工作培训班的通知	收文管理	收文批办	陈荣	2010-05-11 14:33	
签批提醒:《关于成立上海海关学院等级保护领导小组的请示》	签报管理	签批提醒	陈晖	2010-05-10 08:34	<input type="checkbox"/>
!! 送阅文件《海关总署关于召开海关总署2010年巡视工作电视电话会议的通知》	收文管理	文件送阅	毛成功	2010-05-07 14:36	<input type="checkbox"/>
!! 吴江副处长对文件《海关总署关于召开海关总署2010年巡视工作电视电话会议的通知》的批示	收文管理	提醒	吴江	2010-05-07 14:57	<input type="checkbox"/>
!! 海关总署关于召开海关总署2010年巡视工作电视电话会议的通知	收文管理	收文批办	陈荣	2010-05-07 14:57	
签批提醒:《关于申报信息系统安全等级保护备案表的请示》	签报管理	签批提醒	陈晖	2010-05-06 09:28	<input type="checkbox"/>
吴江副处长对文件《上海市教育委员会关于做好市教委系统2010年上海市科学技术奖推荐工作的通知》的批示	收文管理	提醒	吴江	2010-05-06 08:16	<input type="checkbox"/>
上海市教育委员会关于做好市教委系统2010年上海市科学技术奖推荐工作的通知	收文管理	收文批办	陈荣	2010-05-06 08:16	
签批提醒:《关于将“周界电子围栏及配套工程”作为“技防二期项目延续”的请示》	签报管理	签批提醒	肖建国	2010-05-05 11:29	<input type="checkbox"/>
关于成立上海海关学院等级保护领导小组的请示	签报管理	签报人	刘继进	2010-05-06 08:15	
关于申报信息系统安全等级保护备案表的请示	签报管理	签报人	刘继进	2010-04-28 11:02	
吴江副处长对文件《科技司关于通报海关技术协作区2009年工作总结的通知》的批示	收文管理	提醒	吴江	2010-04-27 10:29	<input type="checkbox"/>



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.**



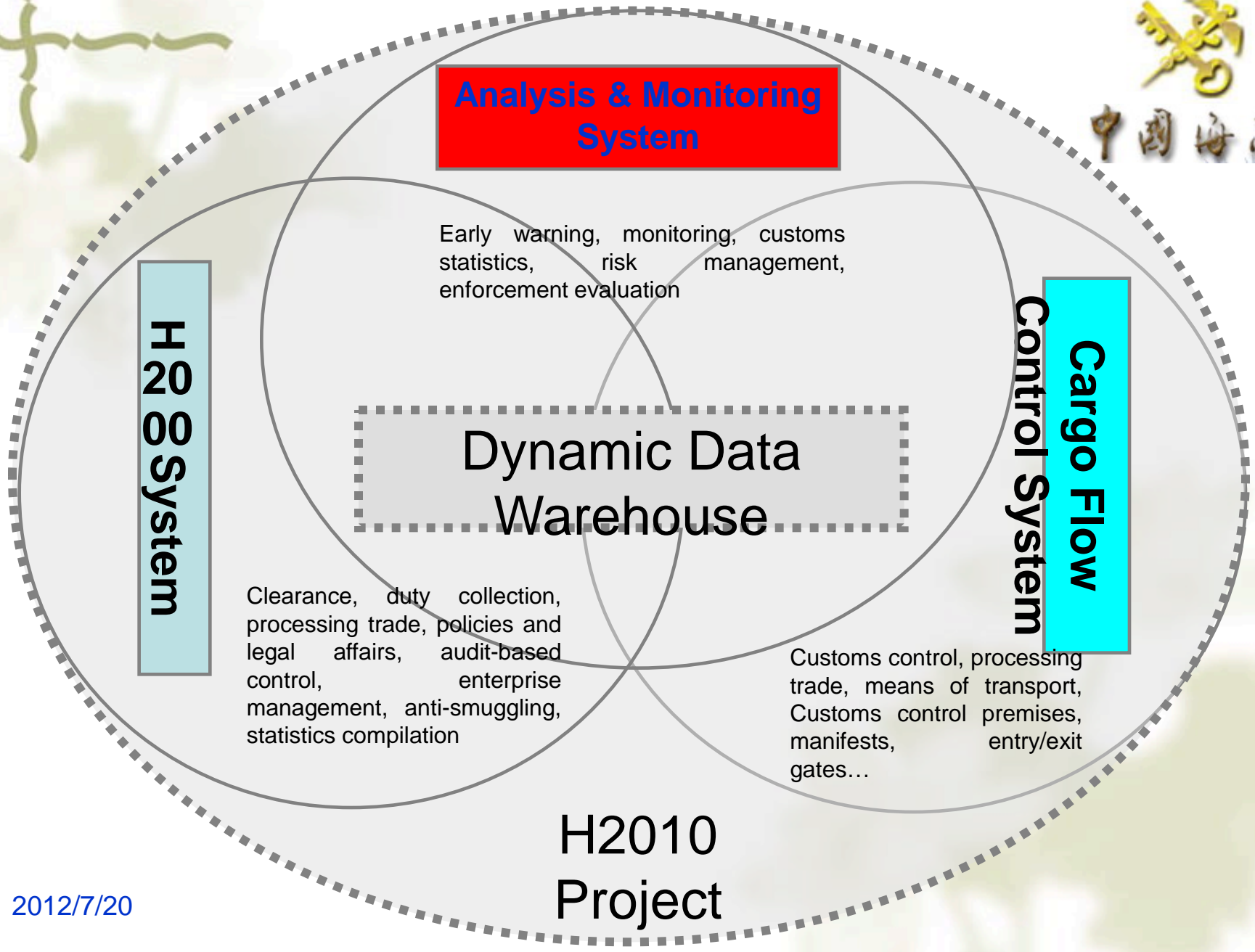
E-GACC:

Customs Enforcement Evaluation 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-Current Scale**
- √ **E-port**
- √ **Application of IT in China Customs**
 - √ **E-customs E-GACC**
- √ **H2010 Project**



Analysis & Monitoring System

Early warning, monitoring, customs statistics, risk management, enforcement evaluation

H20 System

Clearance, duty collection, processing trade, policies and legal affairs, audit-based control, enterprise management, anti-smuggling, statistics compilation

Cargo Flow Control System

Customs control, processing trade, means of transport, Customs control premises, manifests, entry/exit gates...

Dynamic Data Warehouse

H2010 Project

E-Port Network Structure

