

Training of Trainers Workshop on Trade Facilitation and Paperless Systems for Agrifood Products

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Information Management in Agrifood Chains

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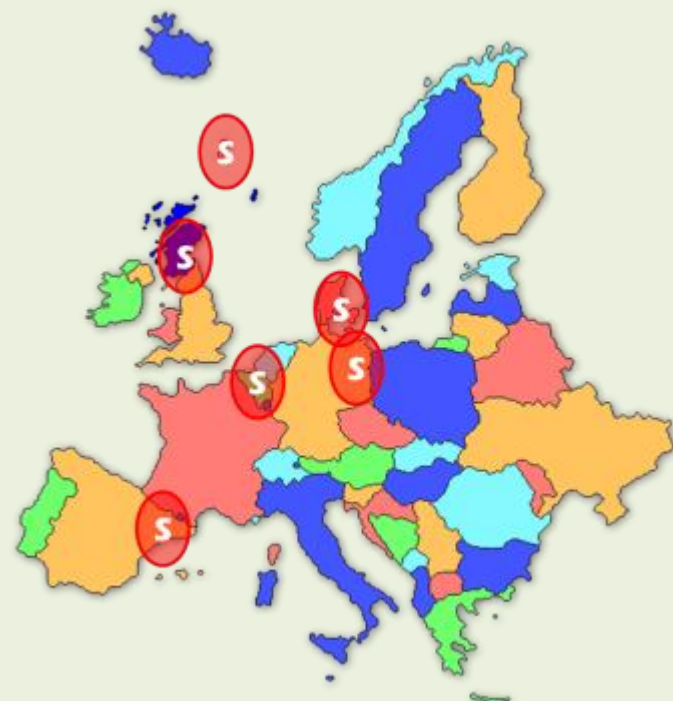
Syntesa – Innovation to market

International consultancy bringing innovation to market.

Headquartered in Copenhagen with subsidiaries on Faroe Islands and Spain.

- Facilitate investor and grant funding
- Marketing of high tech products and services
- Management of innovative projects
- Socio-economic analysis and impact assessments

Our work is based on a hands-on approach providing expertise in financing, marketing, management and business development.



Dr Heiner Lehr, a decade of traceability



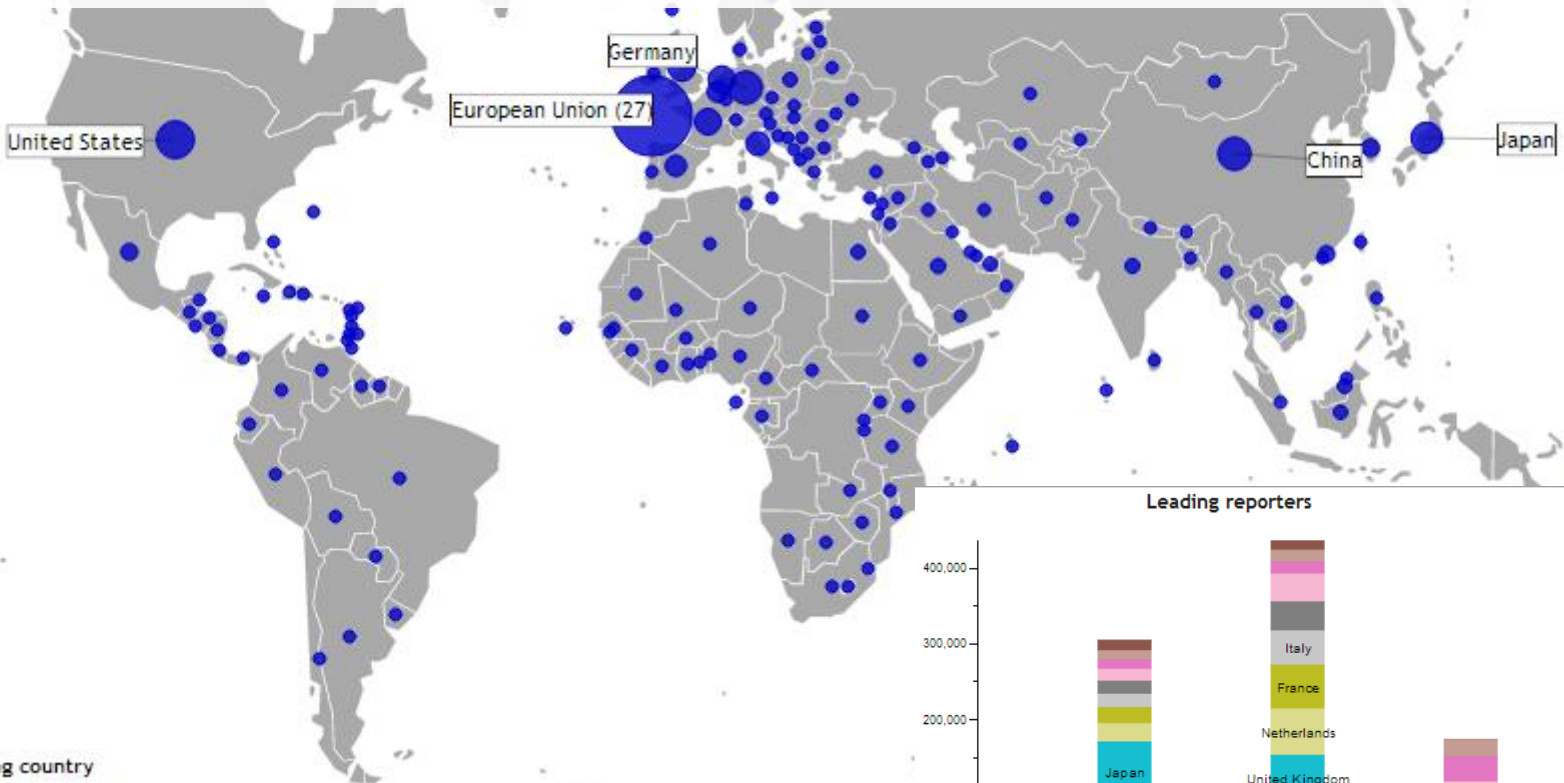
Co-founder of TraceCore XML
Initiator of www.foodtraceability.eu
Enterprise system provider for TRACE,
Europe's largest traceability project.
Technical lead of traceability projects in
SE Asia, Middle East and Europe.
Specialities in using traceability for
sustainability monitoring and standard
compliance.



EcoFishMan
ALL-SMART-PIGS
EU-PLF
Benthis
Macro Biotech
Costal Fishing in
the North Atlantic
WhiteFishMaLL

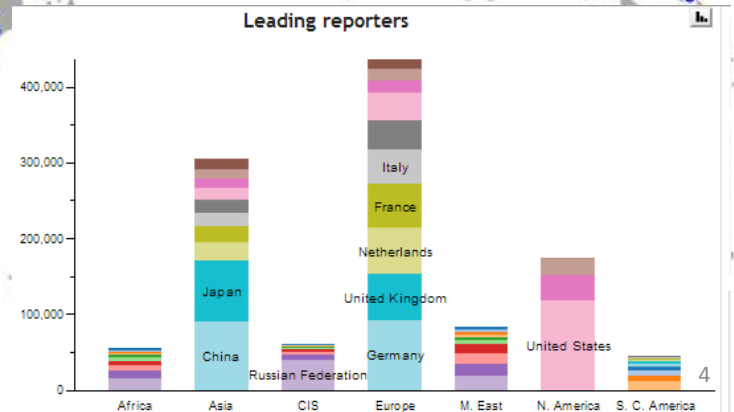
Some simple facts: the origin of food

The global food trade is estimated to be worth about 1.45 trillion USD



Disclaimer

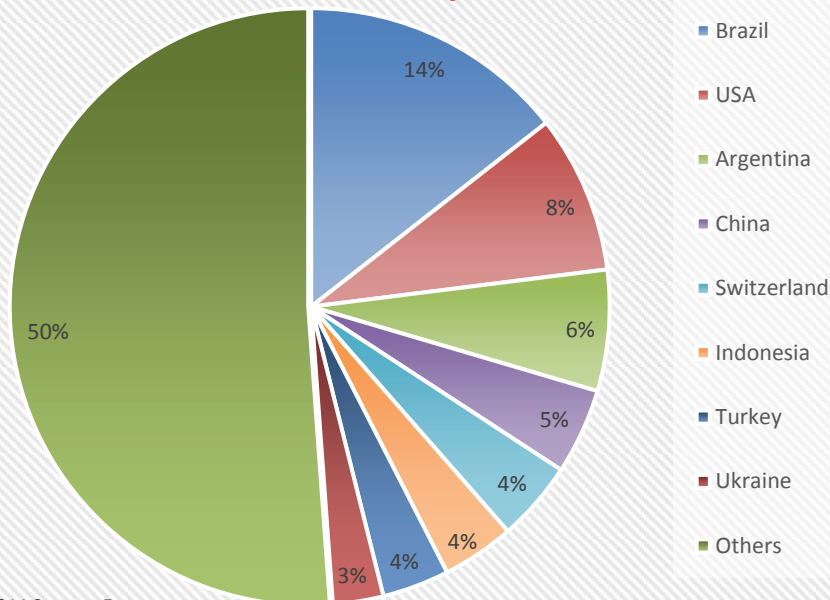
Src: Global Imports of Food, WTO



One example: the European Union

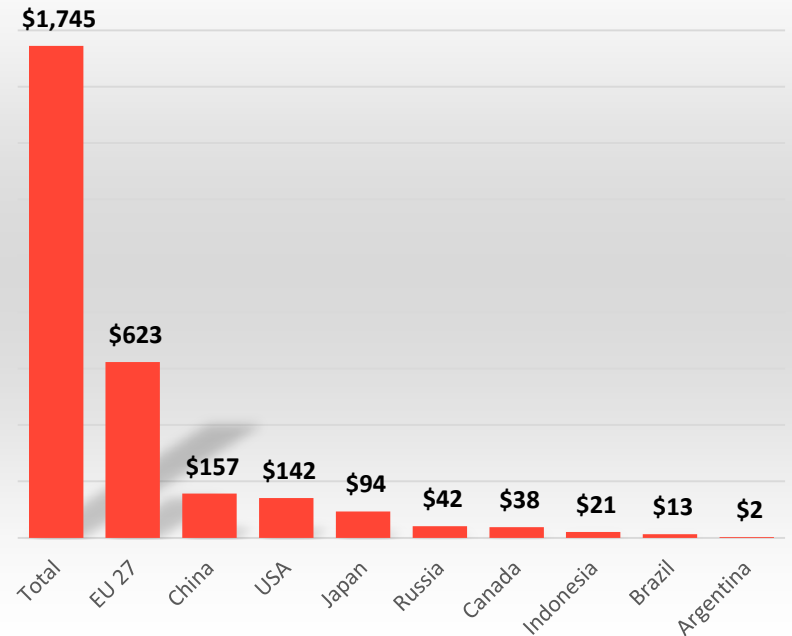
- The world's largest importer and exporter is the European Union
 - 36% of global imports
 - 38% of global exports

Source of EU food imports in %



2011 Source: Eurostat

Global food imports in billion USD

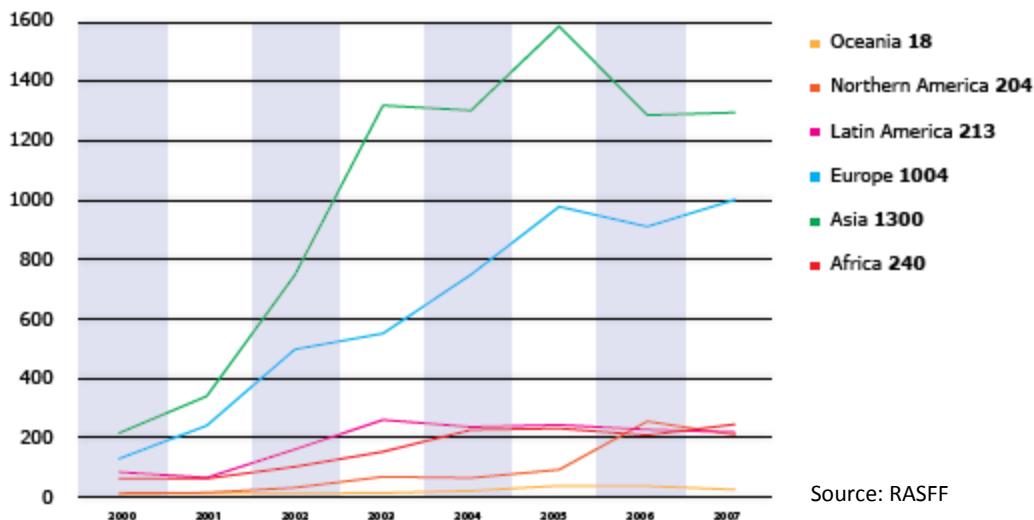


- The source is... the world

The source of incidences

- Food is a sensitive commodity
 - directly related to human health
 - spoils quickly
- As a result, countries monitor food trade closely and reject what is not fit to eat
- The source of reported incidences in Europe is again... the world!

Notifications by world regions 2000 - 2007



Source: RASFF

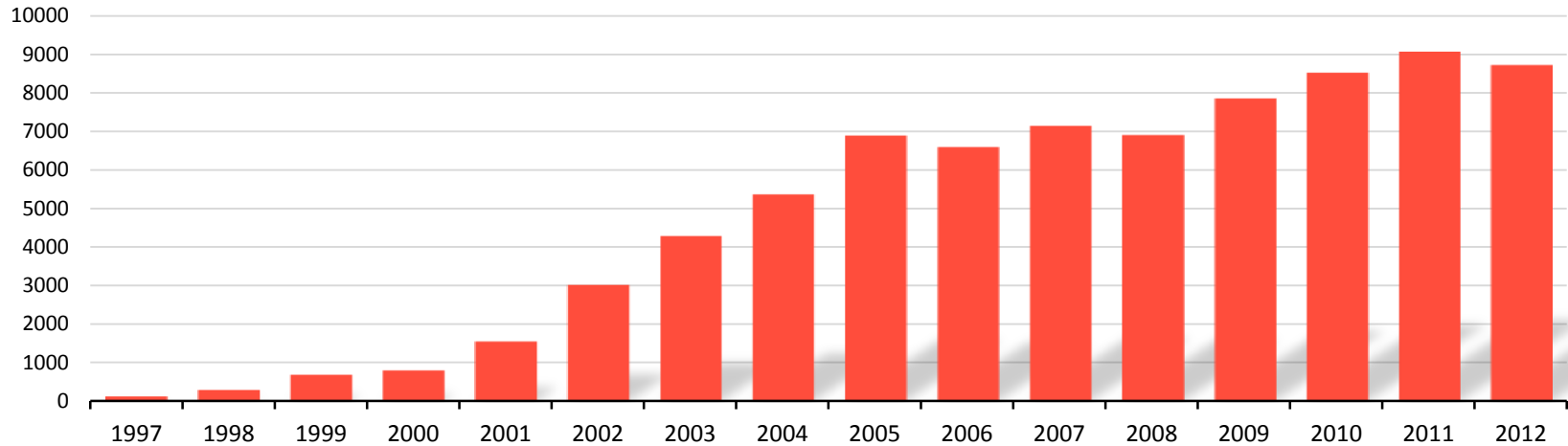
Notifications by country of origin of the product

COUNTRY	Number	COUNTRY	Number	COUNTRY	Number	COUNTRY	Number
CHINA	352 ↑	BANGLADESH	15 ↓	GAMBIA	4 ↑	GREENLAND	1 ↑
TURKEY	293 ↑	SENEGAL	15 ↑	F.Y.R.OF MACEDONIA	4 ↓	GUINEA	1 =
THE UNITED STATES	191 ↓	RUSSIAN FEDERATION	15 ↓	MEXICO	4 ↓	HAITI	1 ↓
SPAIN	177 ↑	AUSTRALIA	14 ↓	SAUDI ARABIA	4 ↑	ICELAND	1 ↓
IRAN	133 ↓	LATVIA	14 ↓	SEYCHELLES	4 ↓	JORDAN	1 ↓
GERMANY	122 ↑	THE PHILIPPINES	13 ↓	GEORGIA	3 ↓	MACAO	1 ↓
INDIA	113 ↑	CANADA	12 ↓	KENYA	3 ↓	MONACO	1 ↓
FRANCE	109 ↓	CYPRUS	12 ↑	REPUBLIC OF KOREA	3 ↓	SAN MARINO	1 ↓
THAILAND	92 ↑	IRELAND	11 ↓	MALTA	3 ↑	YEMEN	1 ↓
POLAND	77 ↑	PANAMA	11 ↑	MAURITIUS	3 ↑	ZIMBABWE	1 =
ITALY	75 ↓	AUSTRIA	10 ↓	REPUBLIC OF MOLDOVA	3 ↓		
BRAZIL	58 ↓	IVORY COAST	10 ↓	MOZAMBIQUE	3 ↑		
THE NETHERLANDS	52 ↑	NICARAGUA	10 ↓	ROMANIA	3 ↓		
UNITED KINGDOM	52 ↓	PORTUGAL	10 ↓	SLOVENIA	3 ↓	azerbaijan	
CHINA (HONG KONG)	50 ↑	SINGAPORE	10 ↑	ALGERIA	2 ↑	afghanistan	
NIGERIA	49 ↑	SWEDEN	10 ↑	BOLIVIA	2 ↑	benin	
ARGENTINA	48 ↓	SWITZERLAND	10 ↑	CAMEROON	2 ↓	camodia	
VIETNAM	45 ↓	SYRIA	10 ↓	ETHIOPIA	2 =	comoros	
BELGIUM	40 ↑	JAPAN	9 ↑	FISI	2 ↓	congo	
UKRAINE	40 ↑	SOUTH AFRICA	8 ↑	GABON	2 ↓	el salvador	
EGYPT	35 ↑	ECUADOR	7 ↓	JAMAICA	2 ↓	eritrea	
DENMARK	34 ↑	NAMIBIA	7 ↑	MALAWI	2 ↓	grenada	
GREECE	32 ↑	ANGOLA	6 ↑	MYANMAR	2 ↑	honduras	
CZECH REPUBLIC	31 ↓	BULGARIA	6 ↓	NEW ZEALAND	2 ↓	kosovo (UNSCR1244)	
GHANA	31 ↓	COLOMBIA	6 ↓	OMAN	2 ↓	kuwait	
PAKISTAN	27 ↑	COSTA RICA	6 ↑	PARAGUAY	2 ↓	luxembourg	
INDONESIA	26 ↓	LITHUANIA	6 ↓	SIERA LEONE	2 =	madagascar	
SRI LANKA	24 ↑	SURINAME	6 ↑	SUDAN	2 ↓	the maldives	
UNKNOWN ORIGIN	23 ↑	URUGUAY	6 ↑	UGANDA	2 ↑	mongolia	
MALAYSIA	22 ↑	CROATIA	5 ↓	UZBEKISTAN	2 ↓	reunion	
MOROCCO	22 ↓	ISRAEL	5 ↓	ALBANIA	1 =	serbia and montenegro	
PERU	21 ↑	KAZAKHSTAN	5 ↑	ARMENIA	1 ↓	togo	
LEBANON	19 ↑	NORWAY	5 ↓	BOSNIA AND HERZEGOVINA	1 =	tonga	
CHILE	18 ↑	SERBIA	5 ↑	CAPE VERDE	1 ↓	united arab emirates	
SLOVAKIA	17 ↑	TAIWAN	5 =	CUBA	1 =	venezuela	
HUNGARY	16 ↑	TANZANIA	5 ↑	ESTONIA	1 ↓	yemen	
TUNISIA	16 ↑	DOMINICAN REPUBLIC	4 =	FINLAND	1 ↓	zambia	6

Has food safety improved over time?

Total RASFF alerts 2004-2010

Source: RASFF



Nagging questions:

- Has the General Food Law improved food safety?
- Has increased traceability resulted in safer food?
- Do consumers feel safe and capable of making well-informed decisions?

If not, why not?

Number of cases and incidence rates of various foodborne and waterborne diseases, 2005 (1) Source: EUROSTAT

	EU-25		Member States	
	Confirmed cases (units)	Incidence rate (per 100 000 inhab.)	Highest incidence rate	Incidence rate (per 100 000 inhab.)
Botulism	147	0.0	LT	0.2
Brucellosis	1 428	0.3	PT	1.4
Campylobacteriosis	197 802	45.0	CZ	296.2
Cholera (2)	34	0.0	BE	0.1
Cryptosporidiosis	7 960	2.8	IE	13.8
Echinococcosis	336	0.1	LT	0.4
Giardiasis	14 637	5.2	EE	24.3
Listeriosis	1 476	0.3	DK	0.9
Salmonellosis	180 303	39.1	CZ	322.2
Shigellosis	7 255	1.8	LT	13.4
Trichinellosis	153	0.0	LV	2.1
Tularaemia	489	0.1	SE	2.7
Variant Creutzfeldt-Jakob disease (vCJD)	14	0.0	SI	0.2
Verocytotoxinogenic Escherichia coli (VTEC)	5 199	1.2	CZ	16.7
Yersiniosis (non-pestis)	9 535	2.3	LT	14.6

Paper-based systems

- Easy to implement
- Time resilient
- Not scalable; limited by capacity of personnel and physical transportation
- Cannot be re-used
- Usually not accessible; filed in physical location

Paperless systems

- Require technical capacity
- Subject to data format compatibility issues
- More scalable; can be (semi)automated
- Easy to copy and exchange; no transportation time
- Easily accessible

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_4745

