

GS1 - Who are we ?



IDENTIFY



CAPTURE



SHARE



USE



Neutral

User Driven
Member organisation driving Global Standards

Not-for-Profit
Costs and savings shared by members

- Global reach, Local Presence**
- 112 Member Organisations
 - 150 countries served
 - 20 Industrial Sectors
 - > 2,000 staff globally
 - > 1.5 million member companies
 - > 3,000 companies in Ireland
 - > 40 Years experience
 - > 6 billion transactions daily
 - ISO, CEN, ETSI, UNECE based standards

Identify



IDENTIFY



Company & Location

- Global Location Number (GLN)

Product

- Global Trade Item Number (GTIN)
- Serialised Global Trade Item Number (SGTIN)

Logistics & Shipping

- Serial Shipping Container Code (SSCC)
- Global Shipment Identification Number (GSIN)
- Global Identification Number for Consignment (GINC)

Assets

- Global Individual Asset Identifier (GIAI)
- Global Returnable Asset Identifier (GRAI)

Services & More

- Global Service Relation Number (GSRN)
- Global Document Type Identifier (GDTI)
- Global Coupon Number (GCN)

Capture



CAPTURE

The GS1 Barcodes					
GS1 EAN/UPC Family			GS1 2D Barcodes		
UPC-A 6 14141 00003 6	EAN-13 9 501101 530003	UPC-E 0 614193 9	EAN-8 9505 0003	GS1 DataMatrix (01) 0 9501101 53000 3 (17) 150119 (10) AB-123	GS1 QR Code (01) 0 9501101 53000 3 (8200) http://example.com
GS1 DataBar Family					
Omnidirectional (01) 0 9501101 53000 3	Expanded (01) 0 9501101 53000 3 (17) 140704	Stacked Omnidirectional (01) 0 9501101 53000 3	Expanded Stacked (01) 0 9501101 53000 3 (3103) 000480		
Truncated (01) 0 9501101 53000 3	Limited (01) 0 9501101 53000 3	Stacked (01) 0 9501101 53000 3			
GS1 1D Symbols used in General Distribution and Logistics but not at retail POS					
GS1-128 (01) 1 9501101 53000 0 (17) 140704 (10) AB-123			ITF-14 19501101530000		



Share



SHARE

Master Data	Transactional Data	Event Data														
<p>GDSN Global Data Synchronisation Network</p> <hr/> <p>The GDSN connects trading partners to the GS1 Global Registry® via GS1-certified Data Pools, enabling automated electronic sharing of standardised, up-to-date, accurate, product information.</p>	<p>eCom Electronic Communication</p> <hr/> <p>GS1 eCom standards provide clear guidelines for Electronic Data Interchange (EDI), enabling electronic sharing of accurate business transaction information between trading partners.</p>	<p>EPCIS Electronic Product Code Information Services</p> <hr/> <p>EPCIS is the standard for immediate sharing of information about critical events between trading partners. It provides evidence of what is occurring in the supply chain, and observations of the <i>what, when, where</i> and <i>why</i>.</p>														
<p>What Goes Into It</p>	<p>What Goes Into It</p>	<p>What Goes Into It</p>														
<ul style="list-style-type: none"> • GTIN, GLN • Brand Owner Identification • Product Descriptions • Global Product Classification (GPC) • Target Market 	<ul style="list-style-type: none"> • GTIN, GLN, SSCC, GSIN, GINC, GDTI, GRAI, GIAI • Purchase Order • Despatch Advice • Transport Instruction • Invoice • Payment 	<table border="0"> <tr> <td>• What</td> <td>SGTIN</td> </tr> <tr> <td>• Where</td> <td>GLN</td> </tr> <tr> <td>• When</td> <td>SSCC</td> </tr> <tr> <td>• Why</td> <td>GIAI</td> </tr> <tr> <td></td> <td>GRAI</td> </tr> <tr> <td></td> <td>GSRN</td> </tr> <tr> <td></td> <td>GDTI</td> </tr> </table>	• What	SGTIN	• Where	GLN	• When	SSCC	• Why	GIAI		GRAI		GSRN		GDTI
• What	SGTIN															
• Where	GLN															
• When	SSCC															
• Why	GIAI															
	GRAI															
	GSRN															
	GDTI															



e-LOCATE

BIM administered a grant-aid programme to make funds available to industry . . .

This programme was called *e-LOCATE*

from **L**ots to **O**origin, the **C**ontrol, **A**ssurance and **T**raceability of **EU** seafood



www.e-LOCATE.ie



Co-funded by the
European Union



Bord Iascaigh Mhara
Irish Sea Fisheries Board



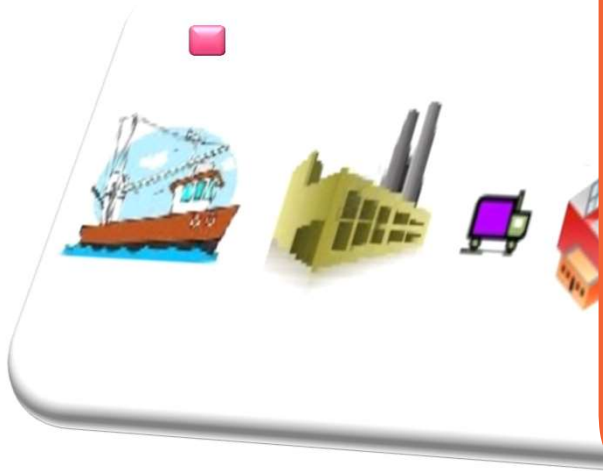
The Global Language of Business

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e-LOCATE

Challenge was Data Sharing



- Data to be shared must be;
 - Complete, Consistent, Accurate,
 - Standardised & Timely *
- Data should be shared;
- Easily, Quickly, Reliably, & Cheaply
- Data Sharing Technologies;
- Barcodes
- EDI (Orders, Despatch Advice, Invoices)
- GDSN (Global Data Synchronisation Network)
- EPCIS (Electronic Product Code Info. System)

*Source: GCI/CapGemini Report: "Internal Data Alignment", May 2004



www.e-LOCATE.ie

e-LOCATE

<i>Area for producer or supplier logo and related information such as address, tel., etc.</i>	1.1 Vessel Name WS1234 MFV Dame Edna	1.2 Vessel ID IEA1B2C3D4	1.4 Producer ID IE 1234 EC
	1.3 Producer Name Traditional Fish Processors A/S	1.6 Supplier Name A Fishtrading A/S	1.7 Supplier VAT No IE1234567X
2.1 Commercial Name Prawns 11/15 Male - Irish Sea		2.2 Product Id 1234	
2.3 Species Code NEP	2.4 Scientific Name Nephrops Norvegicus		2.13 Ingredients Nephrops Norvegicus, Sodium Metabisulfite (E223)
2.5 Size 4-6 kg	2.6 Quality Superior	2.7 Presentation Whole	2.8 Preservation Frozen
2.10 Trim C	2.11 Certification AXY 123	2.9 Freshness: E	2.12 Storage Temp.: -18°C
	3.1 Batch Number 99123456	3.2 Catch Date(s) 11-Jan-2018 14-Jan-2018	3.6 Production Method 01 - Caught At Sea
	4.1 Quantity 1	3.3 Production Date 15-Jan-2018	3.7 Fishing Gear 11.2 Mechanised dredges including suction dredges
	4.2 Net Weight: 12.340 kg	3.4 Freeze Date 15-Jan-2018	3.8 Catch Area 27.7
		3.5 Use By 15-Jan-2019	Irish Sea, West of Ireland, Porcupine Bank, Eastern English Channel, Western English Channel, Bristol Channel, Celtic Sea North, Celtic Sea South, South West of Ireland - East, Southwest of Ireland - West
<i>Area for additional text or linear or two-dimensional barcode(s), for other internal or customer information or product codes, etc....</i>			



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e-LOCATE

Opened:	01-Nov-2013
Closed:	22-Nov-2013 (31-Mar-2014)
Target:	High Volume First Point of Sale
Applications Received:	13
Valid Applications:	8
Total Eligible Expenditure:	€ 1,181,950
Grant Aid:	€ 827,110

Opened:	05-Feb-2014
Closed:	21-Feb-2014
Target:	Lower Volume First Point of Sale
Applications Received:	24
Valid Applications:	8
Total Eligible Expenditure:	€ 2,015,862
Grant Aid:	€ 320,195

Planned Expenditure: € 1,400,000

Grant Aid Funding: € 1,147,305

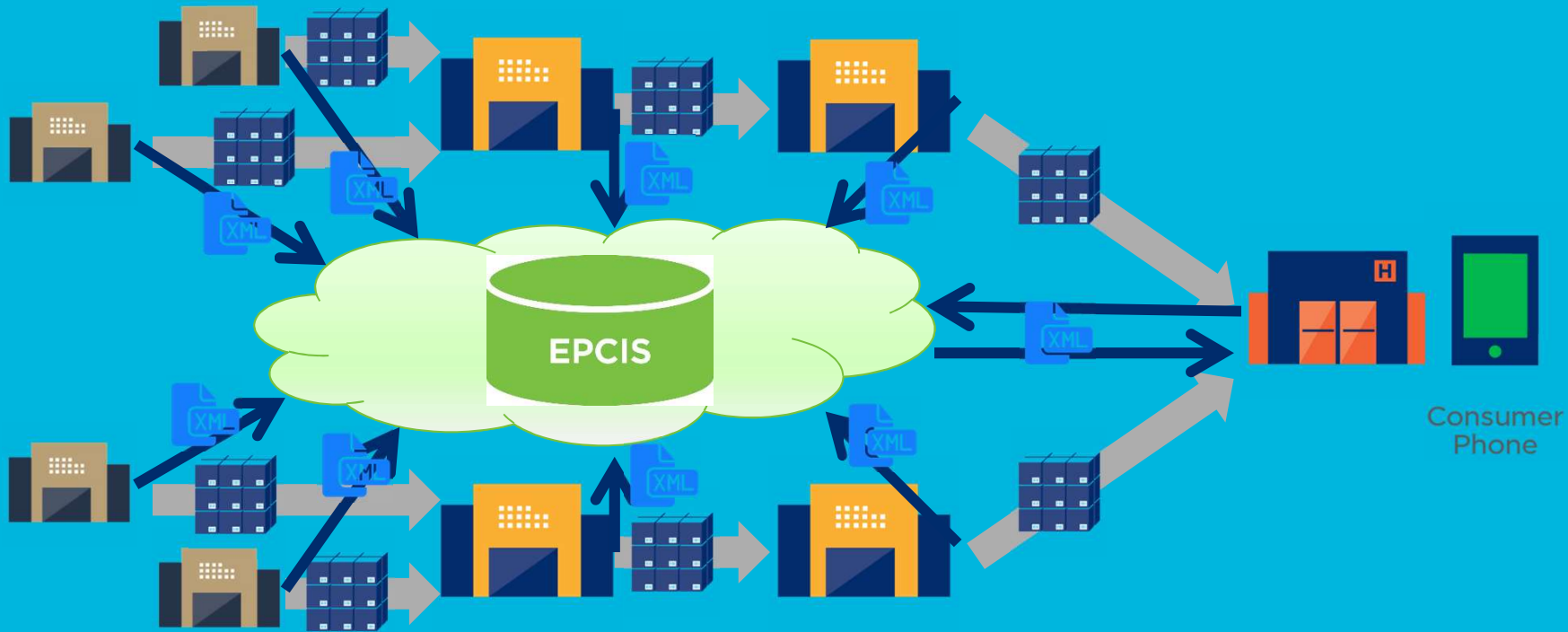
Project Manager/Admin: € 17,215

Technical/Training/Audits: € 167,020

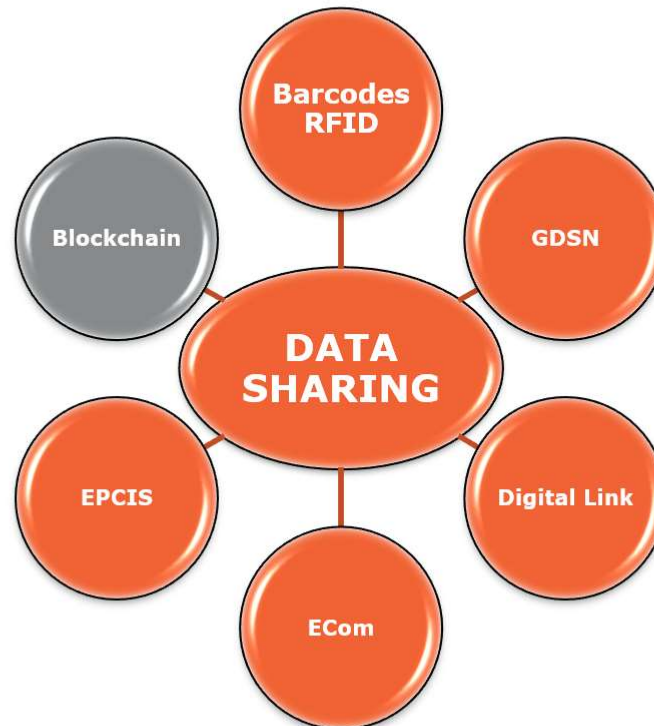
Final Expenditure: € 1,331,540

(€ 68,460)

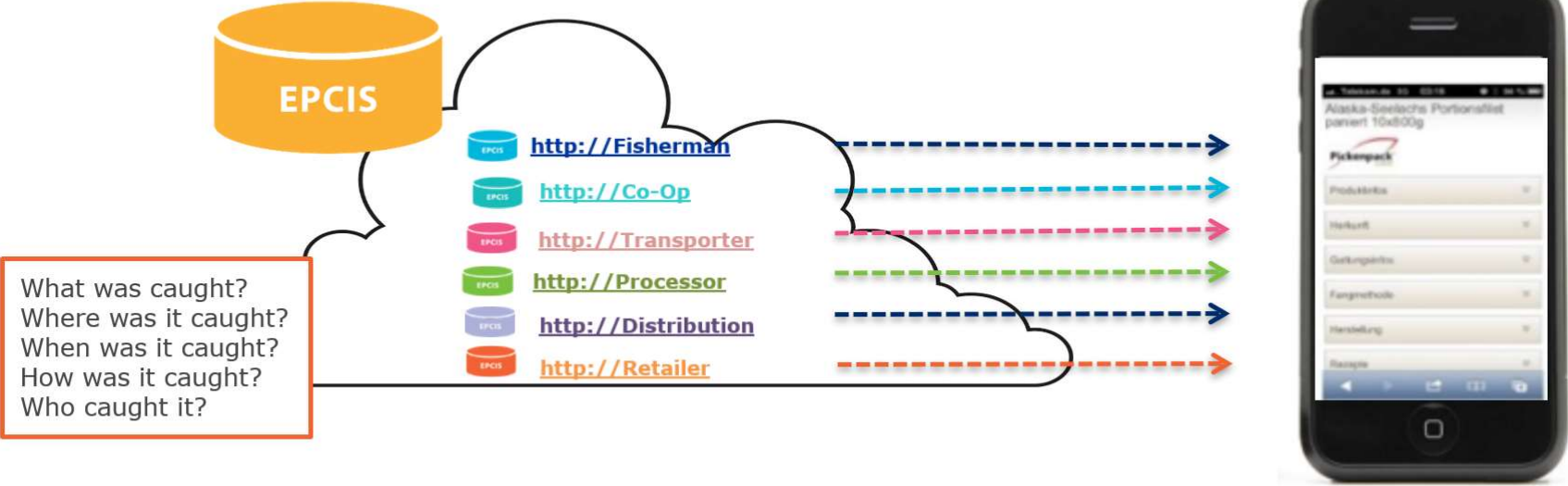
IoT-based Traceability infrastructure



Traceability – How ?



EPCIS – ultimate supply chain collaboration



What was caught?
 Where was it caught?
 When was it caught?
 How was it caught?
 Who caught it?



Thank You



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Director of Standards & Solutions

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