



Classification Systems in GS1

Berlin, GS1 HUG Meeting

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The global language of business

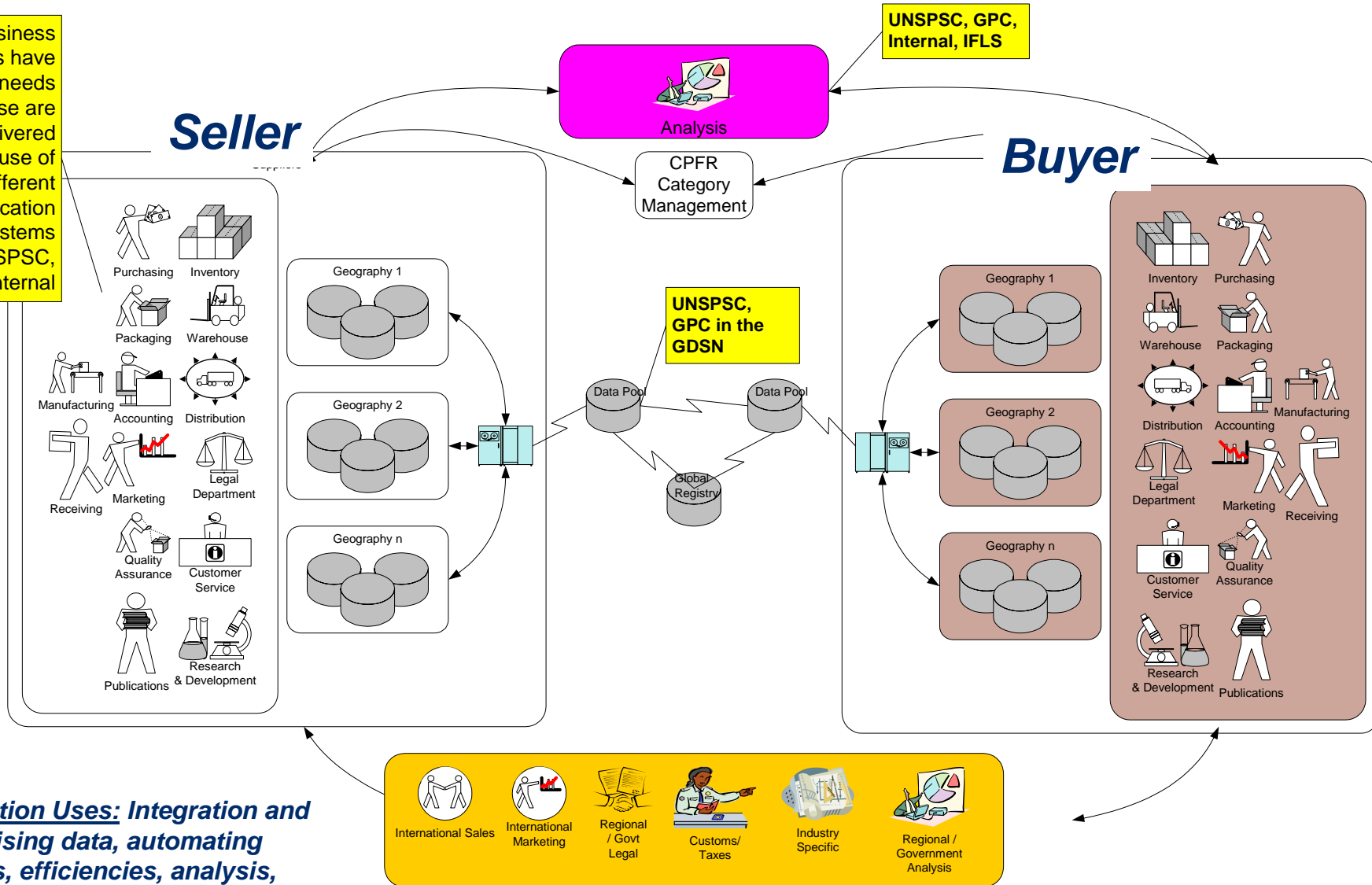
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Topics

- Classification, Identification, Description
 - Global and Regional Classifications
 - UNSPSC and GPC
 - Product Classification and Product Identification
 - GTIN, GLN, GPC, UNSPSC and ClaDiMed
- Current Healthcare Classifications at GS1
- UNSPSC GPC Integration
- Possible Co-operation for Medical Devices and other categories
- **Q&A**

Different business functions have different needs and these are being delivered through the use of different classification systems e.g. UNSPSC, GPC, Internal



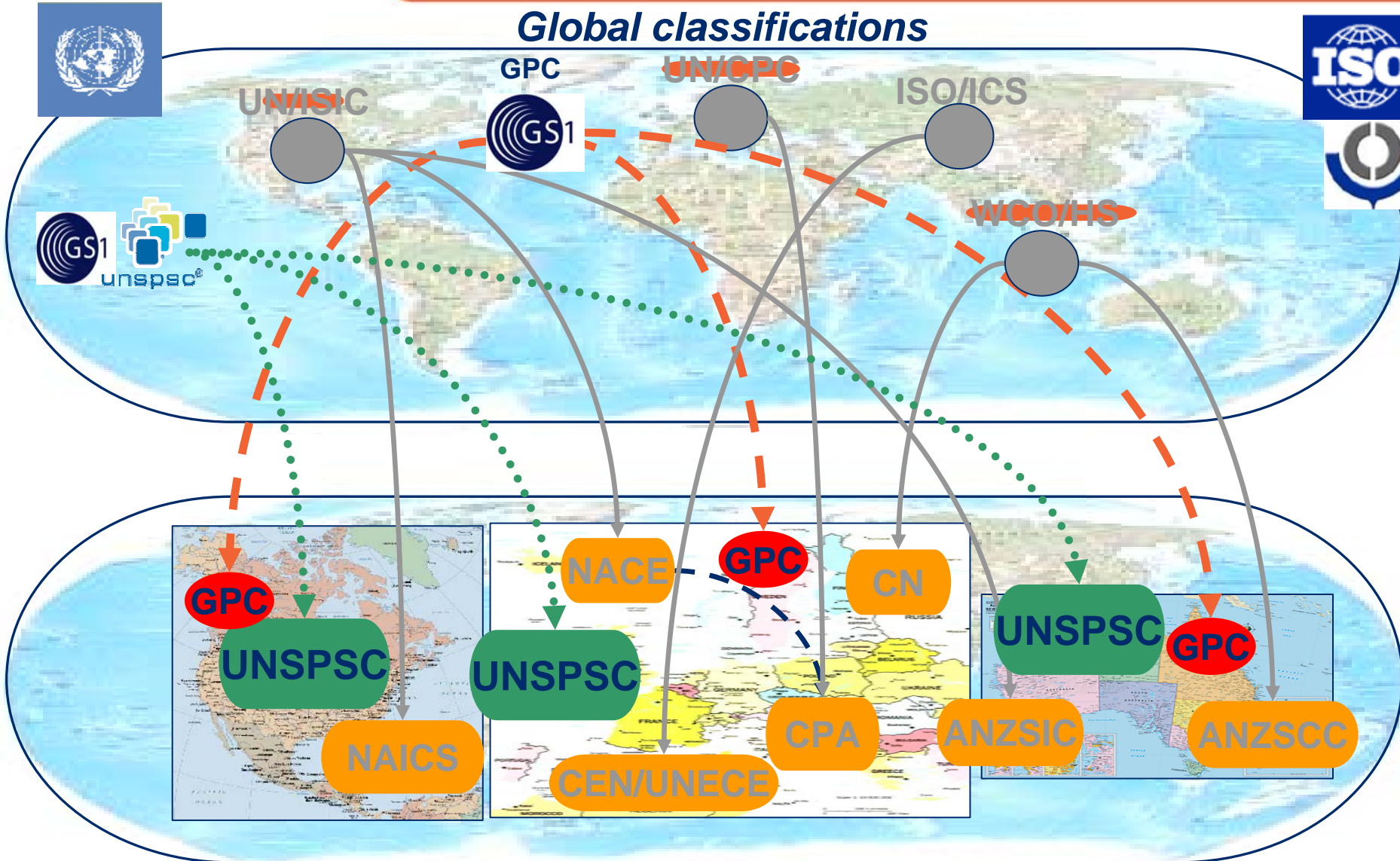
Classification Uses: Integration and synchronising data, automating processes, efficiencies, analysis, ensuring data quality, compliance, statistics...

Different business functions have different needs and these are being delivered through the use of different classification systems e.g. UNSPSC, NATO, HS, JICFS



Global and Regional classifications

Global classifications



Regional classifications



UNSPSC =
Hierarchical Commodity Classification (Taxonomy)

Classification Hierarchy



Global Product Classification (GPC) =
Hierarchical Classification, Category Identification,
Category Description

Classification Hierarchy

Category Identification

Category Description

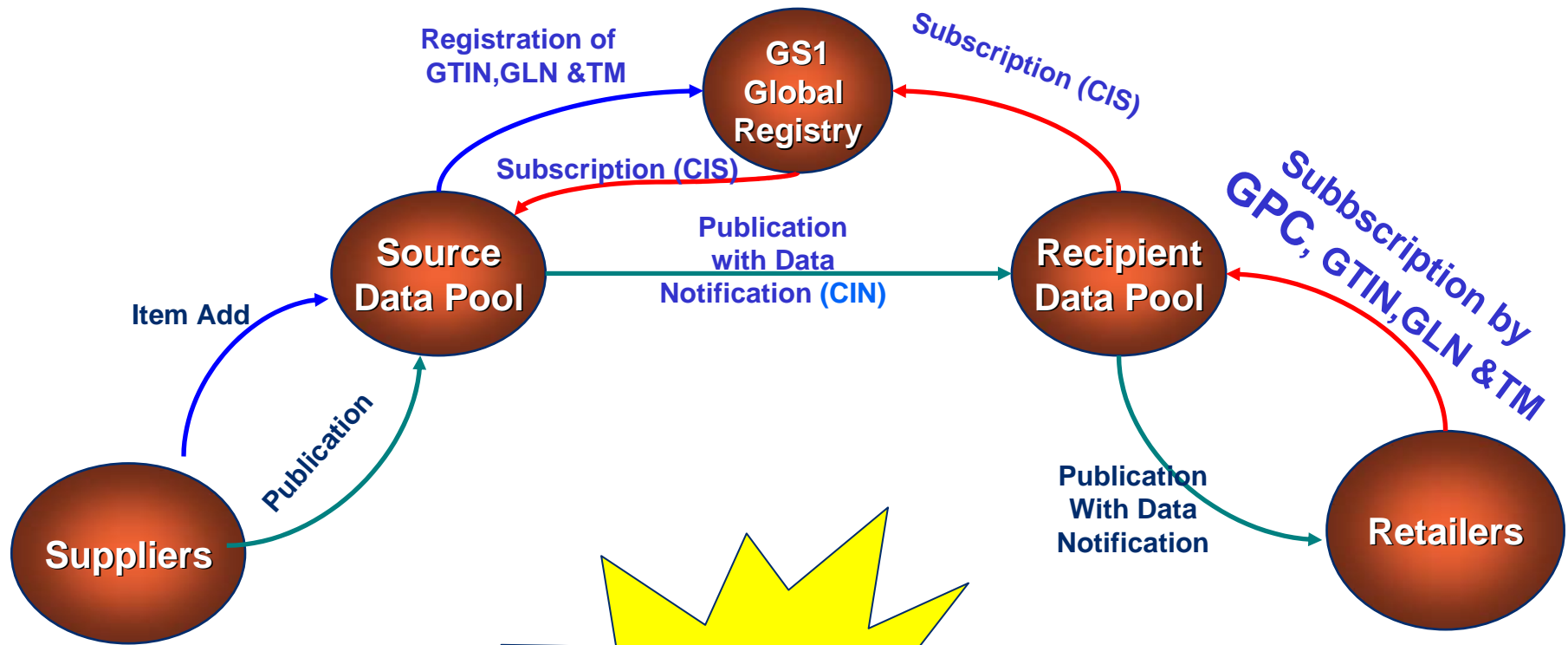


What is GPC?

- GPC is the **mandatory** category classification methodology for GDSN
- GPC is a **rule set based** combined **nomenclature** and **ontology**, not product identification or description
- GPC Brick as a nomenclature **identifies a category** incorporating trade items (GTINs) that
 - Serve a common purpose
 - Are processed to similar methods
 - Used and applied in a similar manner
 - Are of a similar form and material
 - Share the same set of category attributes (typically 4-7 attributes per brick)
- GPC **Brick** is designed to be **shareable** by other internal or external classification systems
- Each Brick is classified in a hierarchy (Segment, Family, Class)
- GPC can be the **driver** of category specific trade item attributes in **catalogues**



GDSN Overview



Without Classification the processes do not work



Product Classification (with UNSPSC) and Product Identification

Product Classification

Segment
Manufacturing Components and Supplies
31 00 00 00

Family
Bearings and Bushes and Wheels and Gears
31 17 00 00

Class
Bearing
31 17 15 00

Commodity
Ball Bearings
31 17 15 04

Product Identification

Noun
Bearing

Modifier
Ball

	label	value
Attribute 1	Manufacturer Name	SKF
Attribute 2	Manufacturer Part Number	6204
Attribute 3	Interbal Diameter (mm)	20
Attribute 4	Outside diameter (mm)	47
Attribute 5	Width (mm)	14
Attribute 6	Seal Type	open
Attribute 7	Cage Material	steel



GTIN, GLN, GPC, UNSPSC and ClaDiMed

		Identification ¹	Description	Nomenclature ²	Classification ³
GS1 Owned	GTIN (Global Trade Item Number)	Single product identification	No	No	No
	GLN (Global Location Number)	Single data source identification	No	No	No
	GPC (Global Product Classification)	Category Identification	Category Description	Brick	Yes, 4 level hierarchy
GS1 as Code Manager	UNSPSC (United Nations Standard Product and Services Code)	Commodity Identification	No	No	Yes, 4 levels
	ClaDiMed (Classification des Dispositifs Médicaux)	Level 5 Identification	Level 5 Definition	No	Yes, 5 levels

Notes:

Identification¹: A coded key such that unambiguously identifies a single product (GTIN) a product owner (GLN), a category (GPC Brick) etc.

Nomenclature² System of terms that is elaborated according to pre-established naming rules, for describing and identifying things in an unambiguous manner. Terms are assigned with a unique code and a definition e.g. GPC Brick + Brick Attributes and Values

Classification³ Act or process of putting things into hierarchical groups according to common characteristics towards specific goal



Current Healthcare Classification Coverage at GS1

1. Global Product Classification (GPC)

- Over The Counter (OTC) Products:
 - Family Planning
 - Health Enhancement
 - Health Treatments and Aids
 - Home Diagnostics

2. United Nations Standard Product and Services Code (UNSPSC)

- Medical Equipment and Accessories and Supplies (Segment 42)
- Drugs and Pharmaceutical Products (Segment 51)
- Healthcare Services (Segment 85)



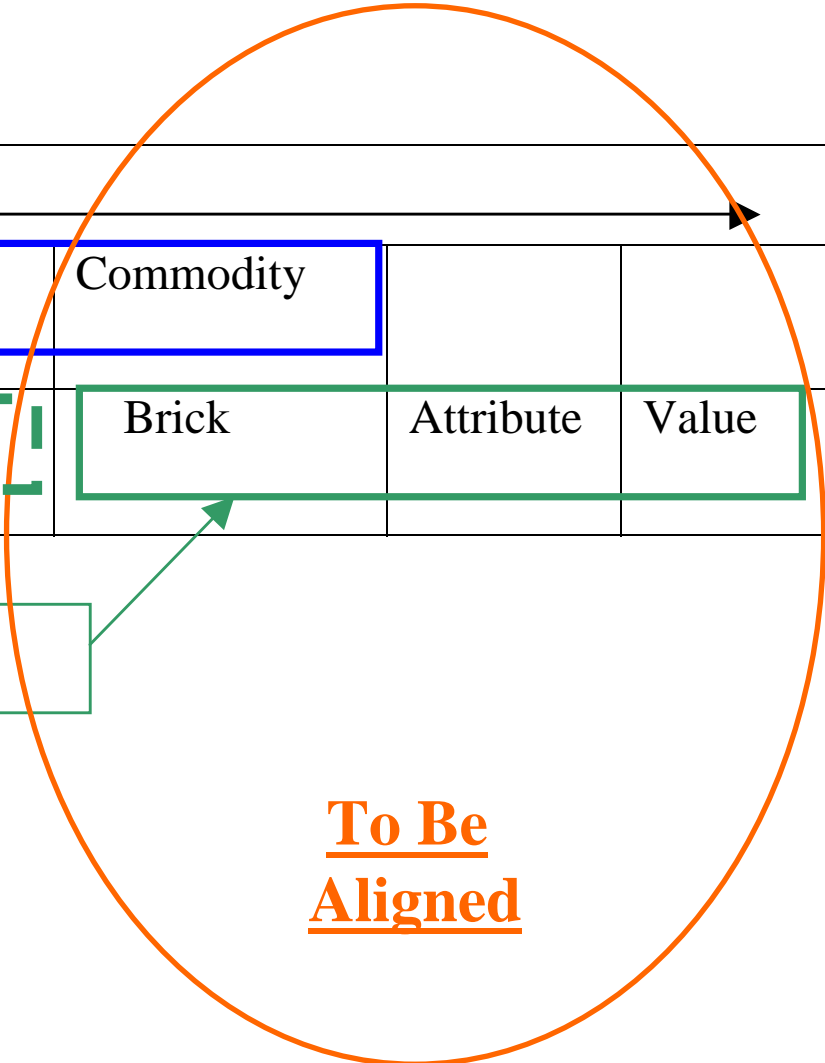
Alignment / Integration

Level of classification detail →

Segment	Family	Class	Commodity		
GPC Segment	GPC Family	GPCClass	Brick	Attribute	Value

UNSPSC

GPC



To Be
Aligned



Project Description

- **Decision to align the two schemas by integrating the GPC brick structure into the UNSPSC Commodity level**
- **UNSPSC hierarchy will serve as the primary basis**
 - GPC to provide necessary granularity for certain sectors
 - Commodities (Bricks), defined attributes and attribute values
- **Current GPC brick definitions will be preserved in UNSPSC structure at the commodity level**
 - One-to-one mapping for all GPC brick code users to a new UNSPSC Commodity code
- **For a period after integration, both code sets will be maintained**
 - Minimizes rework / conversion on the part of GPC user base
- **Zoltan Patkai and GPC BRG will serve as the Segment Manager for GPC within the UNSPSC governance structure**
- **Key Milestones:**
 - Mapping work beginning January 2007
 - Completion of project in 2007



Healthcare could

- Further improve the spend visibility and analysis
- Optimise cost-effective procurement and strategic sourcing
- Improve decision making with better statistics and reporting
- Be linked to a broader global GS1 standard package
- Join the Global Data Synchronisation Network and EPC
- Interoperate their products to existing multiple internal and external classification systems
- Provide users with greater granularity for “drill-down” and “roll-up” for commodities
- Extend their classification system to commodity attributes and product attributes



Possible ClaDiMed and GPC / UNSPSC Cooperation and Link to GMDN

- UNSPSC / GPC Segment

- UNSPSC / GPC Family

- UNSPSC / GPC Class

- GS1 Brick

- GS1 Brick Attribute – Brick Attribute Value pairs



Global Product Classification (GPC)

- Family

- Sub-Family



- Range

-Sub-Range

- Level

GMDN preferred terms

CND

Other Classifications

5



GPC Reference List

- **GPC GS1 website:** <http://www.gs1.org/productssolutions/gdsn/gpc/>
- **GPC Publication:** <http://www.gs1.org/services/gsm/kc/gpc/>
- **GPC Training:** <http://www.gs1.org/productssolutions/gdsn/gpc/training/basics.html>
- **E-room folder** more info on GSMP GPC Business Requirement Group:
<http://erom.uc-council.org/eRoom/facility/GSMGPCBusinessRequirementGroupBRG>
- **GPC Browser** in four languages: English, French, Japanese, Serbian:
<http://gpcbrowser.gs1.org>
- **GPC Finder:** <http://gpcnewfile-1.at.vwdhosting.net/Search.aspx>
- **GPC FAQs:** <http://www.gs1.org/helpdesk/>
- **Reference document** for GPC Implementation:
http://www.gs1.org/docs/gpc/gpc_guidelines.pdf



Danke Schön!

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