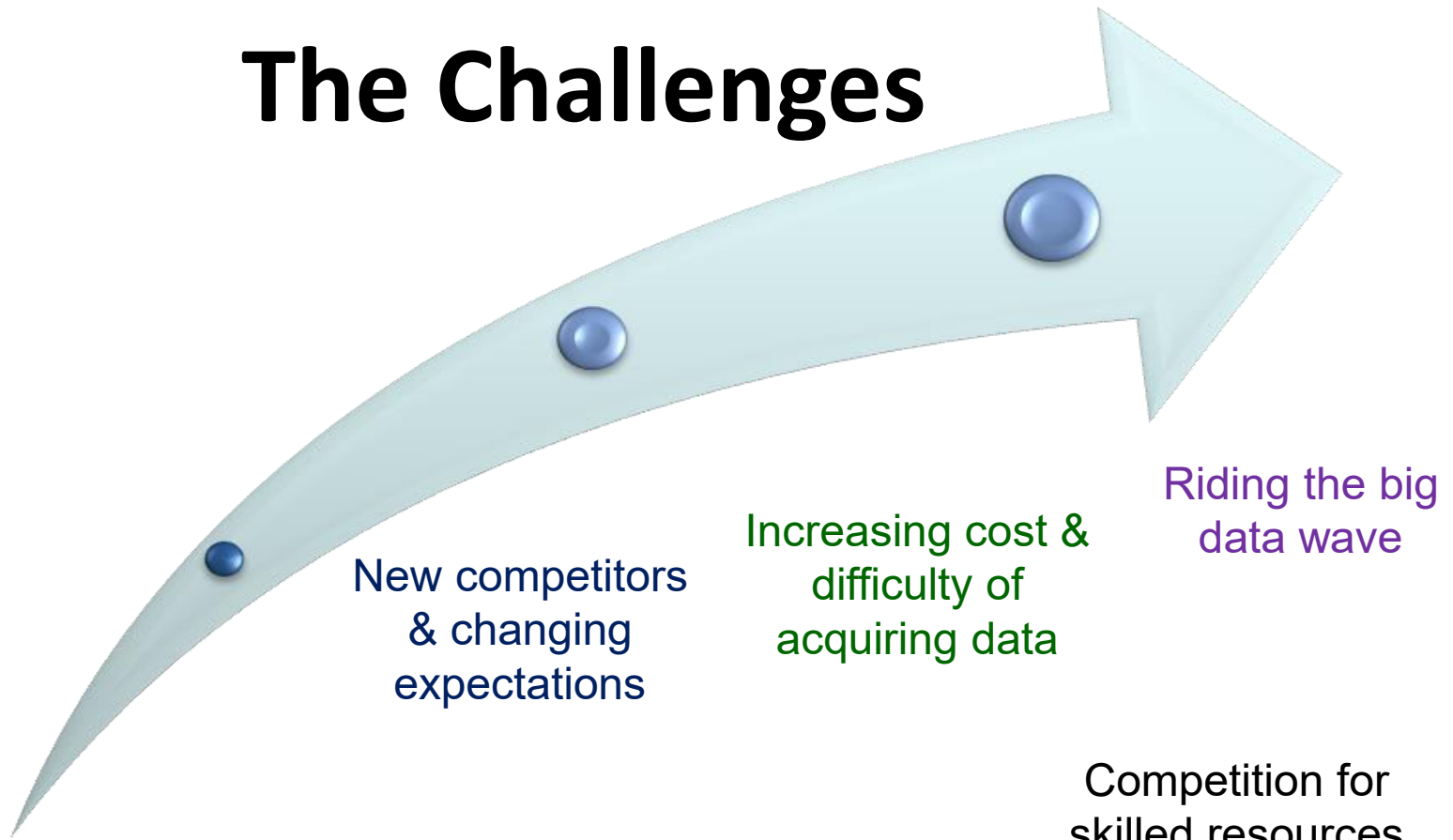


Generic Statistical Information Model (GSIM)

Thérèse Lalor and Steven Vale
United Nations Economic Commission for Europe
(UNECE)



The Challenges



Competition for
skilled resources

Rapid changes in the
environment

Reducing
budget

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These challenges are too big for
statistical organisations to
tackle on their own.

We need to work together



Response from Official Statistics

- A High Level Group consisting of 10 heads of national and international statistical organizations was created

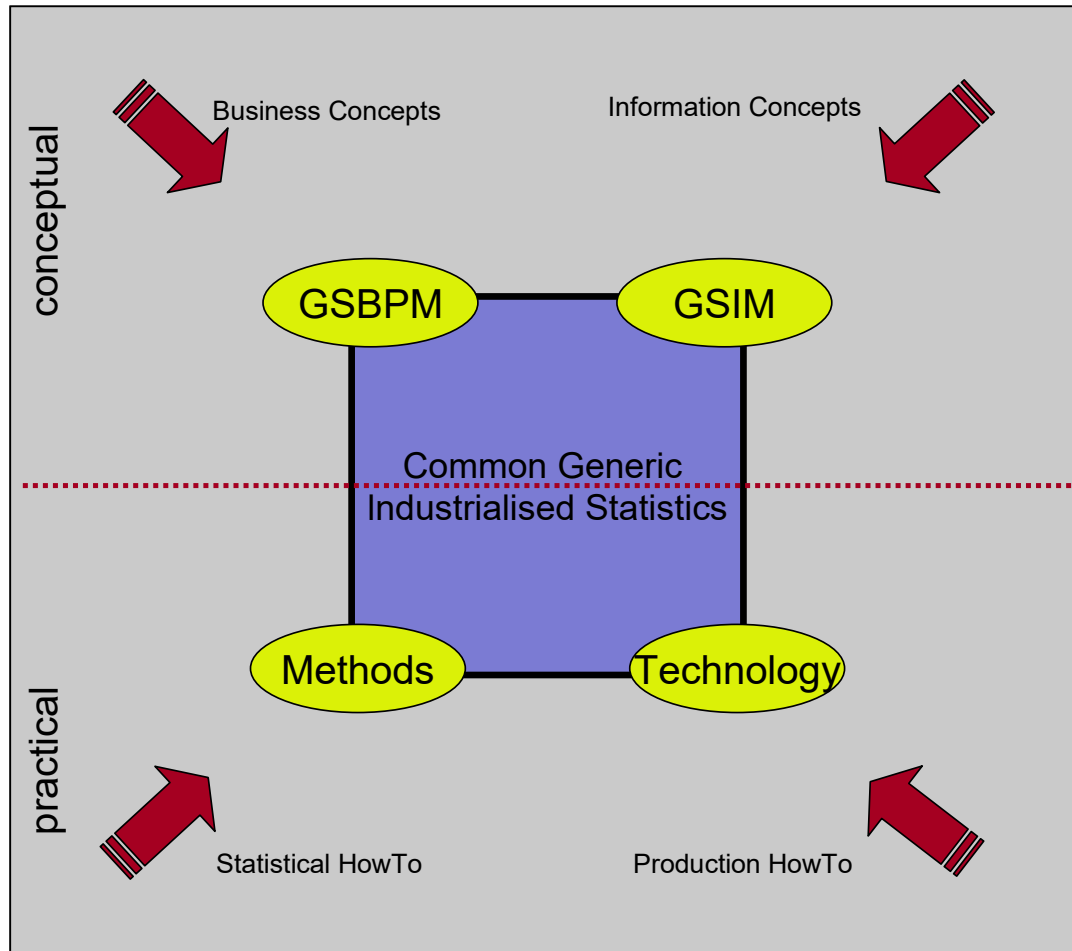


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**Using common standards, statistics can
be produced
in a more efficient way
No domain is special!**





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The GSBPM

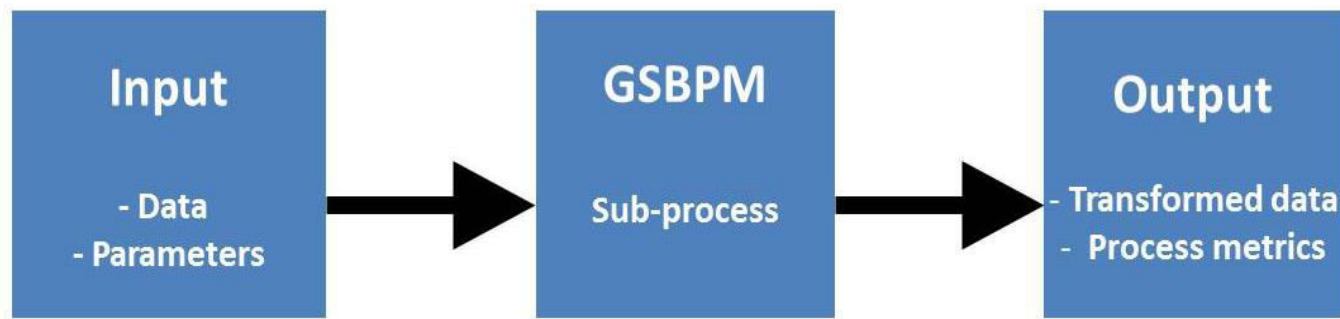
Quality Management / Metadata Management								
1 Specify Needs	2 Design	3 Build	4 Collect	5 Process	6 Analyse	7 Disseminate	8 Archive	9 Evaluate
1.1 Determine needs for information	2.1 Design outputs	3.1 Build data collection instrument	4.1 Select sample	5.1 Integrate data	6.1 Prepare draft outputs	7.1 Update output systems	8.1 Define archive rules	9.1 Gather evaluation inputs
1.2 Consult & confirm needs	2.2 Design variable descriptions	3.2 Build or enhance process components	4.2 Set up collection	5.2 Classify & code	6.2 Validate outputs	7.2 Produce dissemination products	8.2 Manage archive repository	9.2 Conduct evaluation
1.3 Establish output objectives	2.3 Design data collection methodology		4.3 Run collection	5.3 Review, Validate & edit				
1.4 Identify concepts	2.4 Design frame & sample methodology	3.3 Configure workflows	4.4 Finalize collection	5.4 Impute	6.3 Scrutinize & explain	7.3 Manage release of dissemination products	8.3 Preserve data and associated metadata	9.3 Agree action plan
1.5 Check data availability	2.5 Design statistical processing methodology	3.4 Test production system		5.5 Derive new variables & statistical units	6.4 Apply disclosure control			
1.6 Prepare business case	2.6 Design production systems & workflow	3.5 Test statistical business process		5.6 Calculate weights	6.5 Finalize outputs	7.4 Promote dissemination products	8.4 Dispose of data & associated metadata	
		3.6 Finalize production system		5.7 Calculate aggregates		7.5 Manage user support		
				5.8 Finalize data files				

**The GSBPM is used by more than
50 statistical organizations
worldwide to manage and
document statistical production**



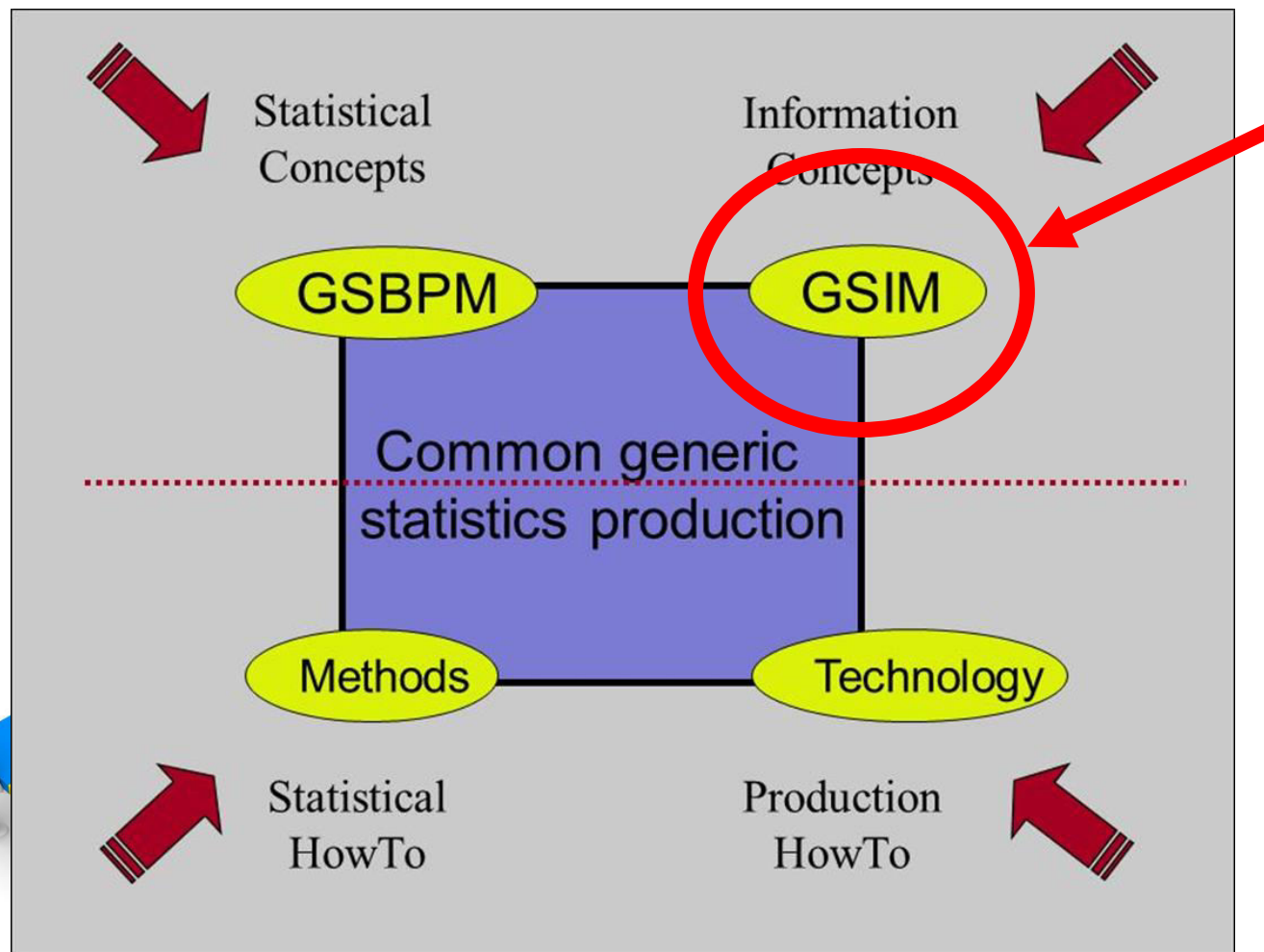
GSIM is complementary to GSBPM

describe information objects and flows within the



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Introducing the GSIM



**You are
here**

What is GSIM?

A reference framework of information objects

- It sets out definitions, attributes and relationships regarding information objects
- It aligns with relevant standards such as DDI and SDMX



Purposes of GSIM

Improve communication

Generate economies of scale

Enable greater automation

Provide a basis for flexibility and innovation

Build staff capability by using GSIM as a teaching aid

Validate existing information systems



GSIM is a conceptual model:
It is a new way of thinking for
statistical organizations



GSIM enables:

- Communication
- Coordination
- Cooperation
- Collaboration

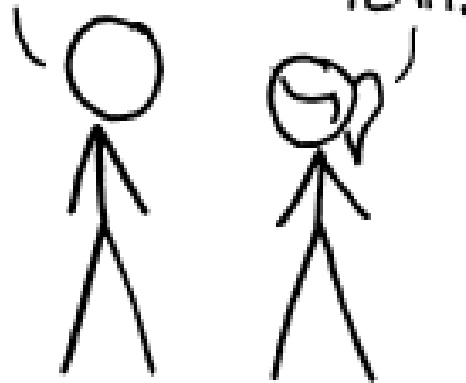


HOW STANDARDS PROLIFERATE:

(SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC)

SITUATION:
THERE ARE
14 COMPETING
STANDARDS.

14?! RIDICULOUS!
WE NEED TO DEVELOP
ONE UNIVERSAL STANDARD
THAT COVERS EVERYONE'S
USE CASES.



SOON:

SITUATION:
THERE ARE
15 COMPETING
STANDARDS.



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Conceptual
model

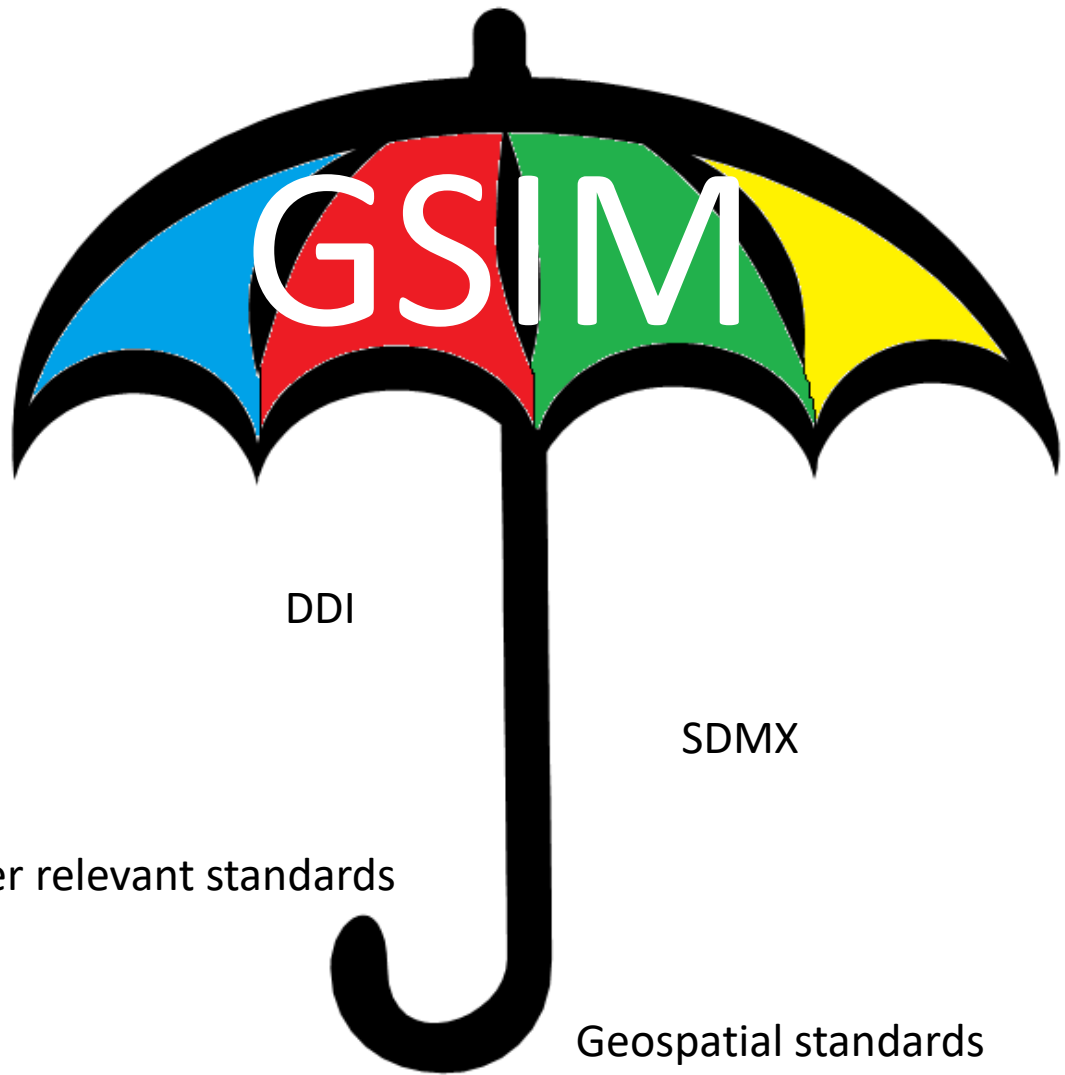
Implementation
standards

Other relevant standards

DDI

SDMX

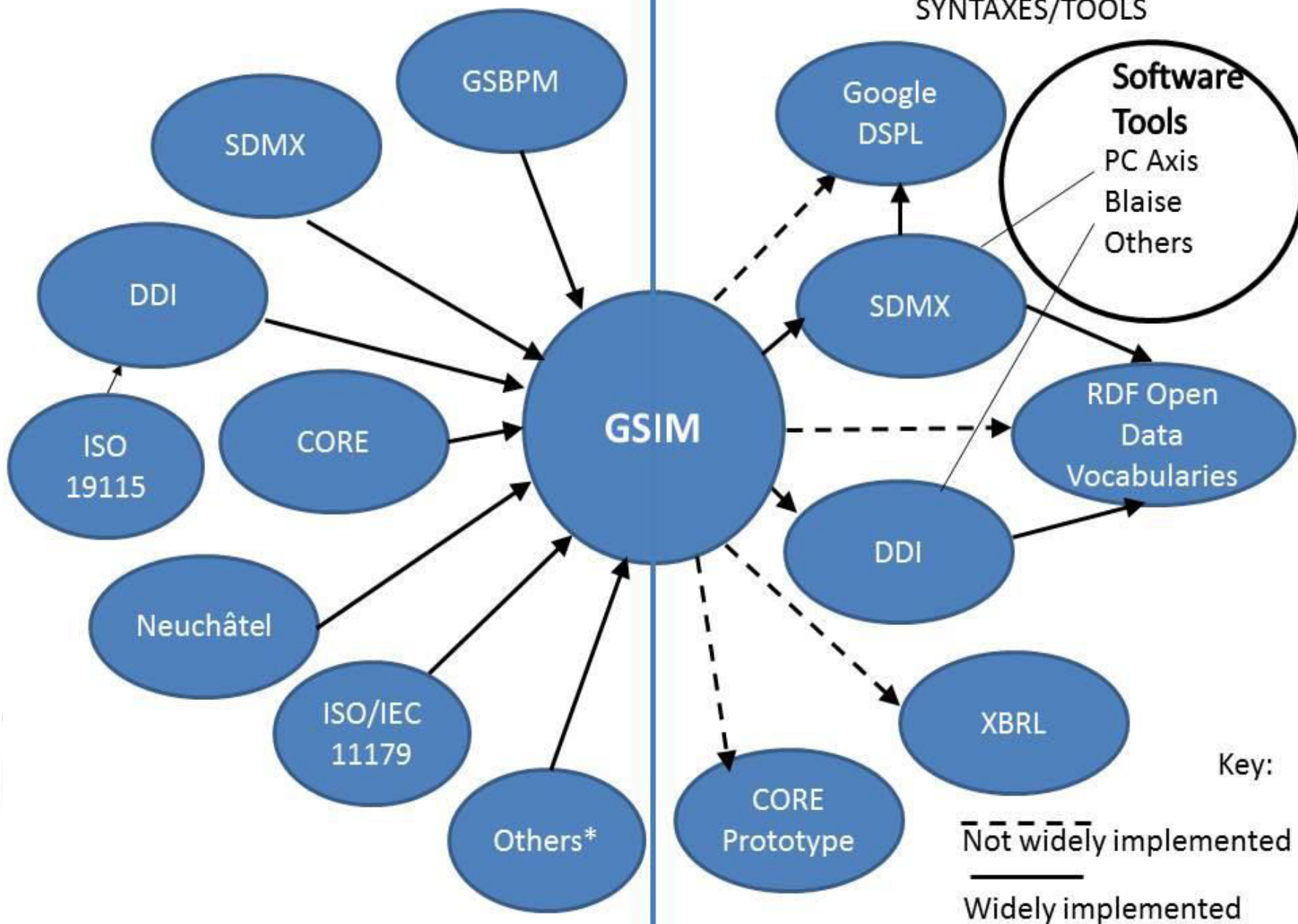
Geospatial standards

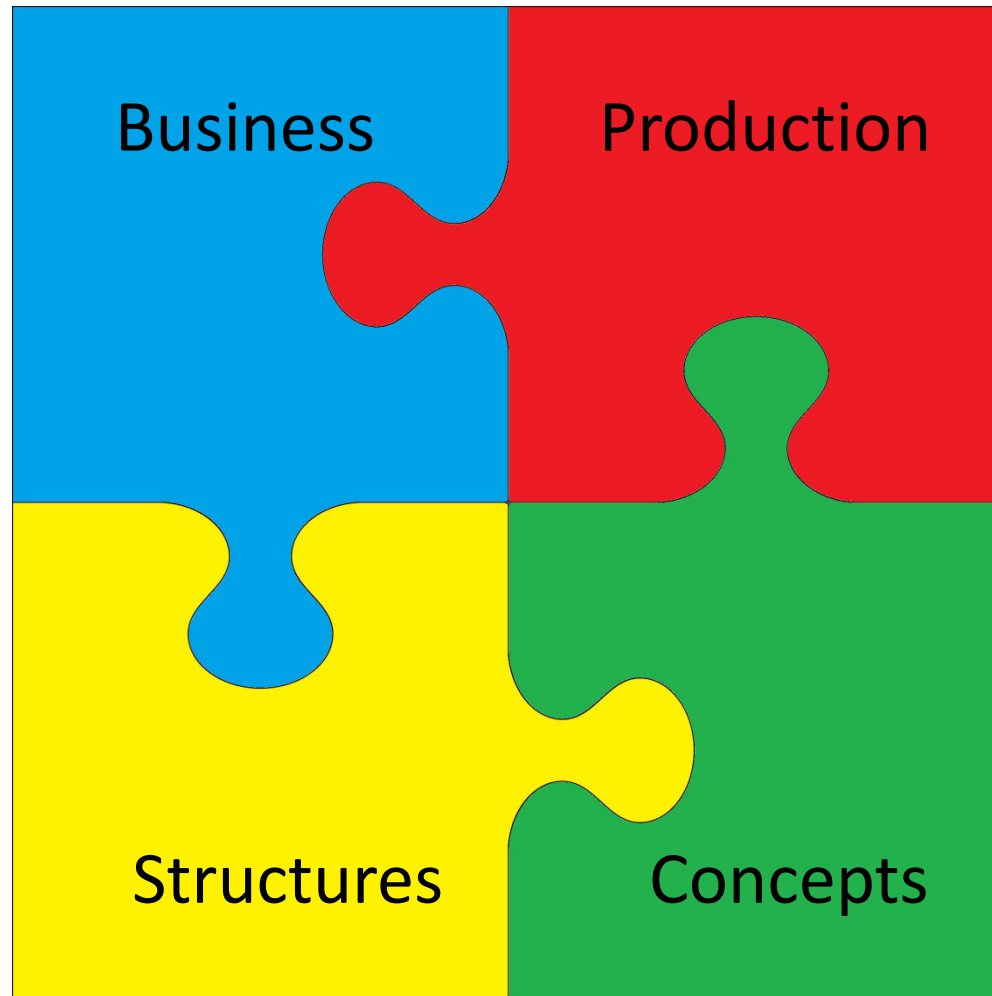


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REFERENCE STANDARDS/MODELS

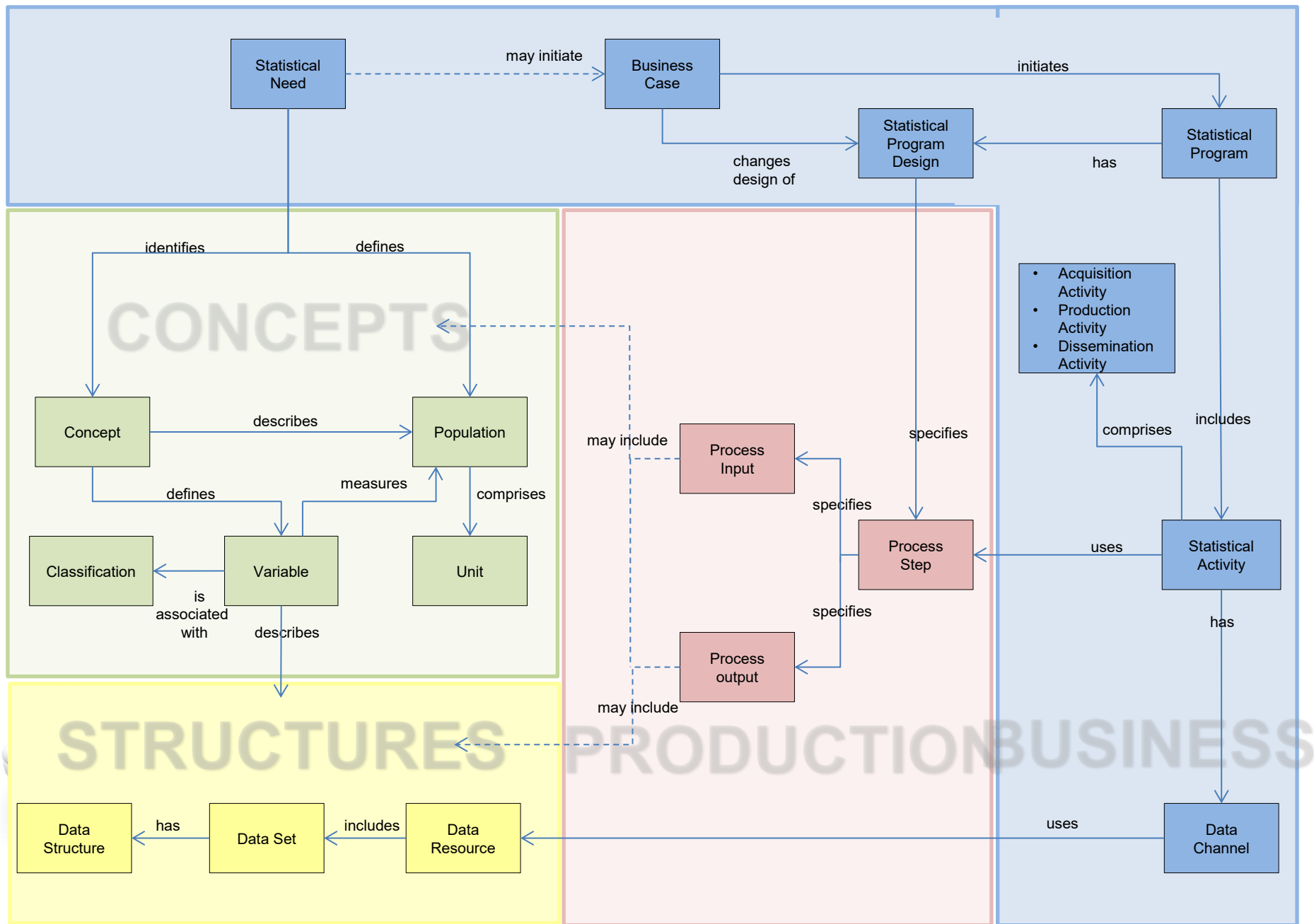
IMPLEMENTATION SYNTAXES/TOOLS





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GSIM: The “sprint” approach

- The HLG-BAS decided to accelerate the development of the GSIM
- “Sprints” – 2 week workshops for 10-12 experts (IT, methodology, statistics, ...)
- Sprint 1 – Slovenia, February 2012
- Sprint 2 – Republic of Korea, April 2012
- Integration Workshop, Netherlands, September 2012



Moving to GSIM in practice

GSIM could lead to:

- A foundation for standardized statistical metadata use throughout systems
- A standardized framework to aid in consistent and coherent design capture
- Increased sharing of system components



Moving to GSIM in practice

- Common terminology across and between statistical agencies.
- It allows NSIs and standards bodies, such as SDMX and DDI, to understand and map common statistical information and processes.



GSIM v1.0

- Released in December 2012
- We need people to use GSIM “in anger”. Then we will know how best to improve it.



More information

GSIM

[http://www1.unece.org/stat/platform/display/metis/Generi
c+Statistical+Information+Model+\(GSIM\)](http://www1.unece.org/stat/platform/display/metis/Generi
c+Statistical+Information+Model+(GSIM))

Poster Session @ EDDI

Today at lunch time

