A lego story: implementing the GSBPM within an information system description tool to foster shareability

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Quite a different story from the theoretical EA four-layers representation.
Ten years playing with duplos, legos & ++

**Main goal**
Identify applications and link them with a first version of INSEE's functional mapping

**Main goal**
Organize applications by major functional districts in accordance with the State's IS land use plan

**Main goal**
fill in the technical layers and link them to applications

**Main goal**
Link applications to processes and GSBPM sub-phases

**Duplos Area**
Building a Land Use Plan for all French public administrations
2012 - Creation of French interministerial IT direction
French EA guidelines for IT services

**Legos Area**
Process review of statistical activities according to GSBPM
2018 : Integration of GSBPM in OSCAR EA tool
2018 : complete breakdown of French NSI processes included in OSCAR

**Let's start**
2008 : First implementation of EA tool in French NSI
Project Name : OSCAR

**Stage 1**
2008 - 2010

**Stage 2**
2010-2014

**++ Area**
Technical review of applications (languages, frameworks, libraries) due to migration operation in a new datacenter

**Stage 3**
2012-2016
2008: Let’s start a EA review in INSEE, based on SOLU-QIQ Software
Step 0 / Building an Application Layer with project & resource management objectives

- A large set of applications to describe: more than 200 applications used in statistical or support processes

- Some specificities:
  - Each application has a functional owner being one of statistical or support directorates, with a breakdown of the whole application portfolio according to our organization chart.
  - INSEE develops in-house almost all of its applications. Hence the inclusion in EA cartography of informations related to the
Step 1 / Business Layer, view 1: « functional » (or output) breakdown

- 2012: « Cadre commun d’urbanisation du SI de l’État » (Common framework for the urbanization of the State's IS)
- The Land Use Plan (LUP) represents a « functional » breakdown of the French Public Services Information System.
- Each "functional area" represents a coherent set of functionalities and data, ensured by and managed by the IS, in the service of the administrative professions.
Land Use Plan in French NSI

**Supplier exchange area**
- Q901: Entreprises, Ménages
- Q902: Communes, Organismes professionnels, Associés SIRENE "Réseau amont", Organismes de sécurité sociale, Autres institutions
- Q903: Ministère, SISA, Autres administrations

**Steering and control functions**
- Q101: Élaboration du programme statistique (CNIS, CPS)
- Q102: Pilotage interne
- Q103: Reporting externe

**Reference data**
- Q201: Répertoires d'entreprises
- Q202: Référentiel géographique
- Q203: Répertoire des personnes physiques
- Q204: Référentiel de métadonnées et nomenclatures
- Q209: Autres référentiels

**Statistical production**
- Q301: Recensement et statistiques sur la population
- Q302: Indice des prix à la consommation
- Q303: Statistiques infra-annuelles d'entreprise
- Q304: Enquêtes auprès des individus
- Q305: Système d'information sur l'emploi et les revenus
- Q307: Enquêtes de conjoncture

**National accounts**
- Q401: Comptes annuels
- Q402: Comptes trimestriels

**Dissemination**
- Q501: Connaissance du public - relations utilisateurs
- Q502: Fabrication et mise à disposition de produits (VD0)

**Studies and statistical engineering**
- Q601: Études
- Q602: Ingénierie

**Corporate support**
- Q603: Conventions et contrats
- Q604: Aspects juridiques
- Q701: Études
- Q702: Ingénierie

**Customer exchange area**
- Q901: Grand public, Clients privés, Entreprises, Journalistes
- Q902: Communes, Collectivités territoriales, Organismes professionnels, Autres institutions (dont recherche), Associés SIRENE et autres partenaires aval
- Q903: Etat, Eurostat, Organismes internationaux, Administrations (identification SIRENE ou Répertoire des personnes)
Applications used for producing structural business statistics

Application en CNIS/SINECI active

- Calcedia
- CITRUS
- COLTRANE
- Documentation Exane
- ENCORE
- ENO
- Enquête OFATS
- EBANE
- FUL
- IAE
- OASIS
- ORESTE
- PrefApp
- Sicon
- Siris
- SIRUS

Projet en cours

GENERIC
- GENERIC - Application de réponse générique pour les enquêtes thématiques
Step 2 / An application layer more and more (micro-)detailed

- A decomposition of applications in modules, based on a technical approach (HMI, batch ...)

- An analysis of the "flows" between applications, with basic information on the incoming / outgoing data
Applications

Projects

Organizational perspective (Business)
- Directorates
- Business Services

Organizational perspective (IT)

« Land Use » Breakdown
- « Functional » areas
- « Functional » districts

Application services

Application Perspective

Projects Perspective

Project Management Office (PMO)
- « Functional » areas
- « Functional » districts
- « Functional » assimilated to final product

User & Staff

Application & Resources

« Functional » areas

« Functional » districts

« Functional » assimilated to final product

Flows

Application services

Softwares

Languages

Infrastructures services

Rack & blade servers

VM

Technical stack
Main limits at this stage

- IS breakdown according to the Land Use Plan is done into very large blocks (like Duplos) identifying only the main functions of the organization
  - This partition is a compromise between business and functional logic
  - It may facilitate identification of duplicates between applications for a given block (for instance, within the HR functions of the different French administrations)…
  - but not at all between specific
Step 3: towards a process approach

2012: Creation of a new Unit dedicated to metadata management & process reviews...

- GSBPM is beginning to be adopted in Insee process review
- Statistical operations are progressively designed according to their GSBPM phases and sub-phases.
- A metadata repository is designed to describe metadata related to each phase of statistical operations.

Around 2018: two major advances
5.6 Calculate weights
Application modules can be linked to the different sub-phases of the GSBPM.
As it stands: complex links between applications, processes and sub-phases
Still willing to play in following years...

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**Mechano Area?**
- Describe information layer (data & metadata processing steps)
- Create, Describe or Reuse generic modules with CSPA compliance

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**Stage 3**
- 2012-2016

**Stage 4**
- 2016-2020

**Stage 5**
- 2018-2022
Now choose your weapon...

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