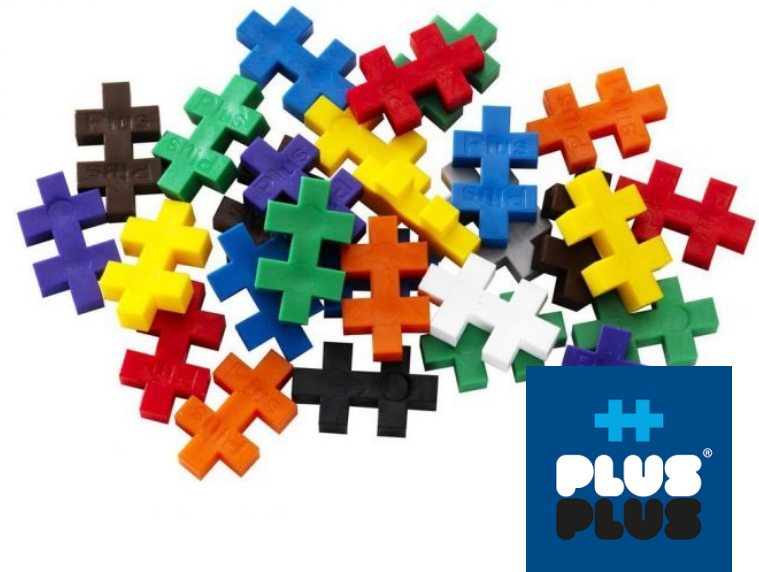


A lego story : implementing the GSBPM within an information system description tool to foster shareability

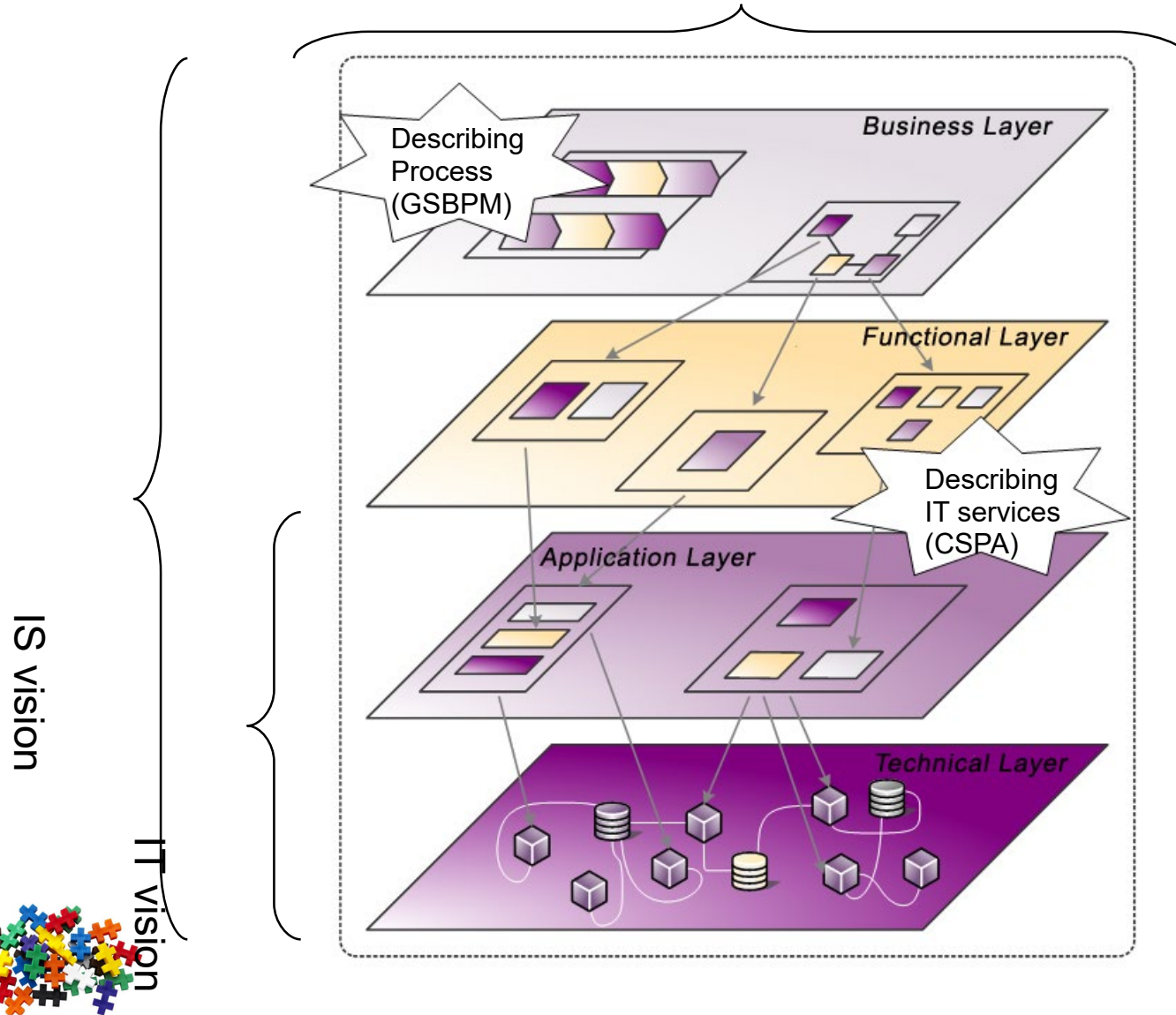


marie-helene.kerouanton@insee.fr

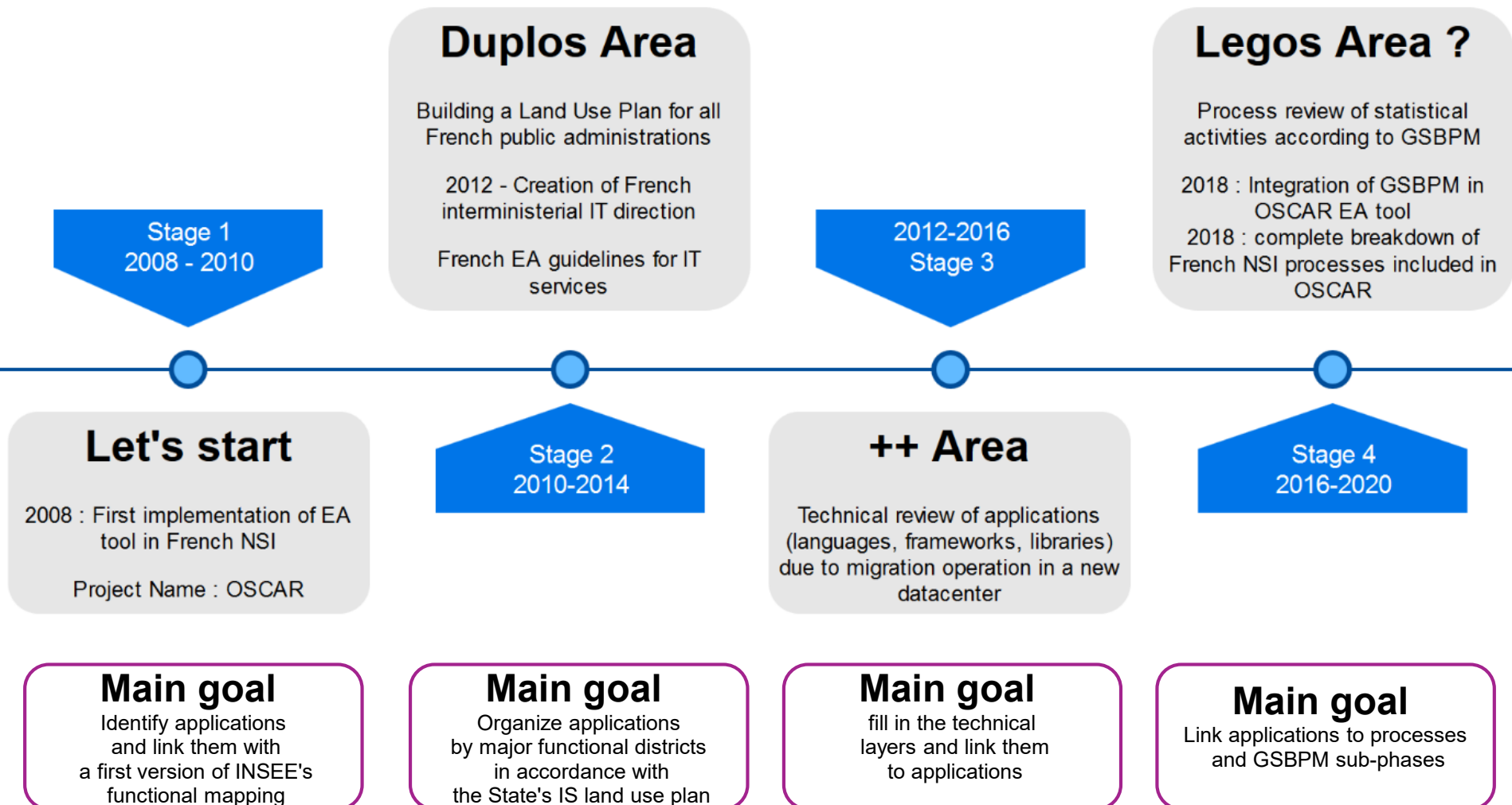
arnaud.degorre@insee.fr



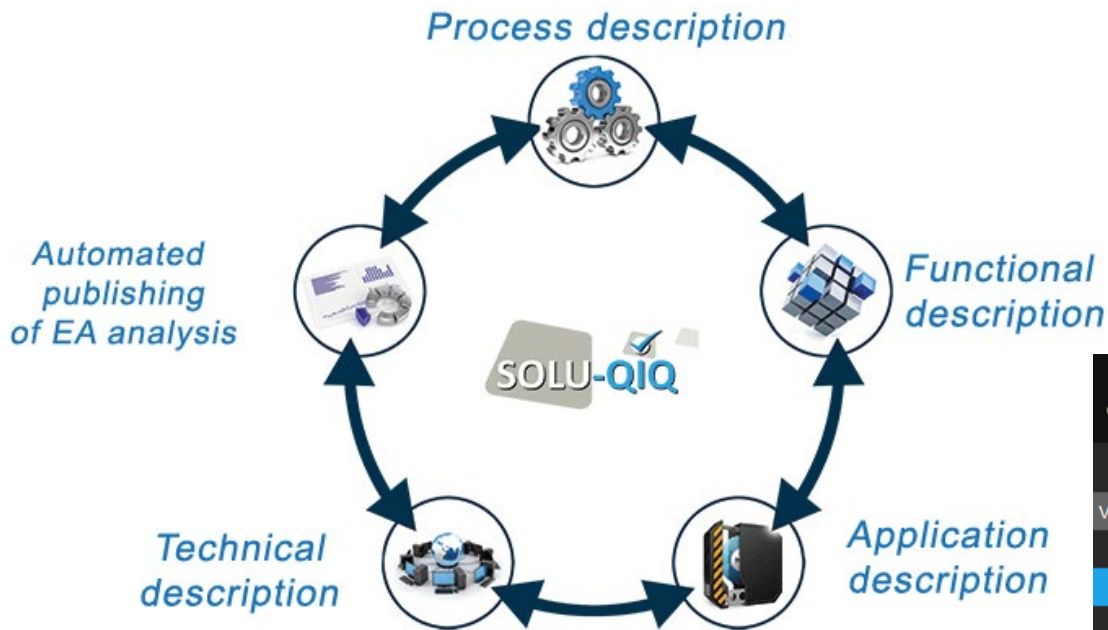
Quite a different story from the theoretical EA four-layers representation



Ten years playing with duplos, legos & ++



2008 : Let's start a EA review in INSEE, based on SOLU-QIQ Software



AB+ SOFTWARE SOLU-QIQ Web Contributor

Objects > Application > APP00207 - Calvados

Vue Applicative - SI

- Alphabet
- Application**
- Domaine applicatif
- Flux
- Module applicatif

Vue Fonctionnelle - Urba

- Domaine GAMSO
- Domaine GSBPM
- Fonction
- Phase GAMSO
- Phase GSBPM
- Quartier
- Sous-fonction
- Sous-phase GAMSO
- Sous-Phase GSBPM

Properties of Calvados

Code*
APP00207

Libellé*
Calvados

Code Opération
Dessin

Libellé long
CALcul et VALidation des DonnéeS

Descriptif

Statut de l'application*
Application en CNI/SIN/CEI active

type application
Application de type standard

ContactNiv2
:DG57-CEI-Groupe Intégration et Gestion des Applications

History Delete Duplicate Apply

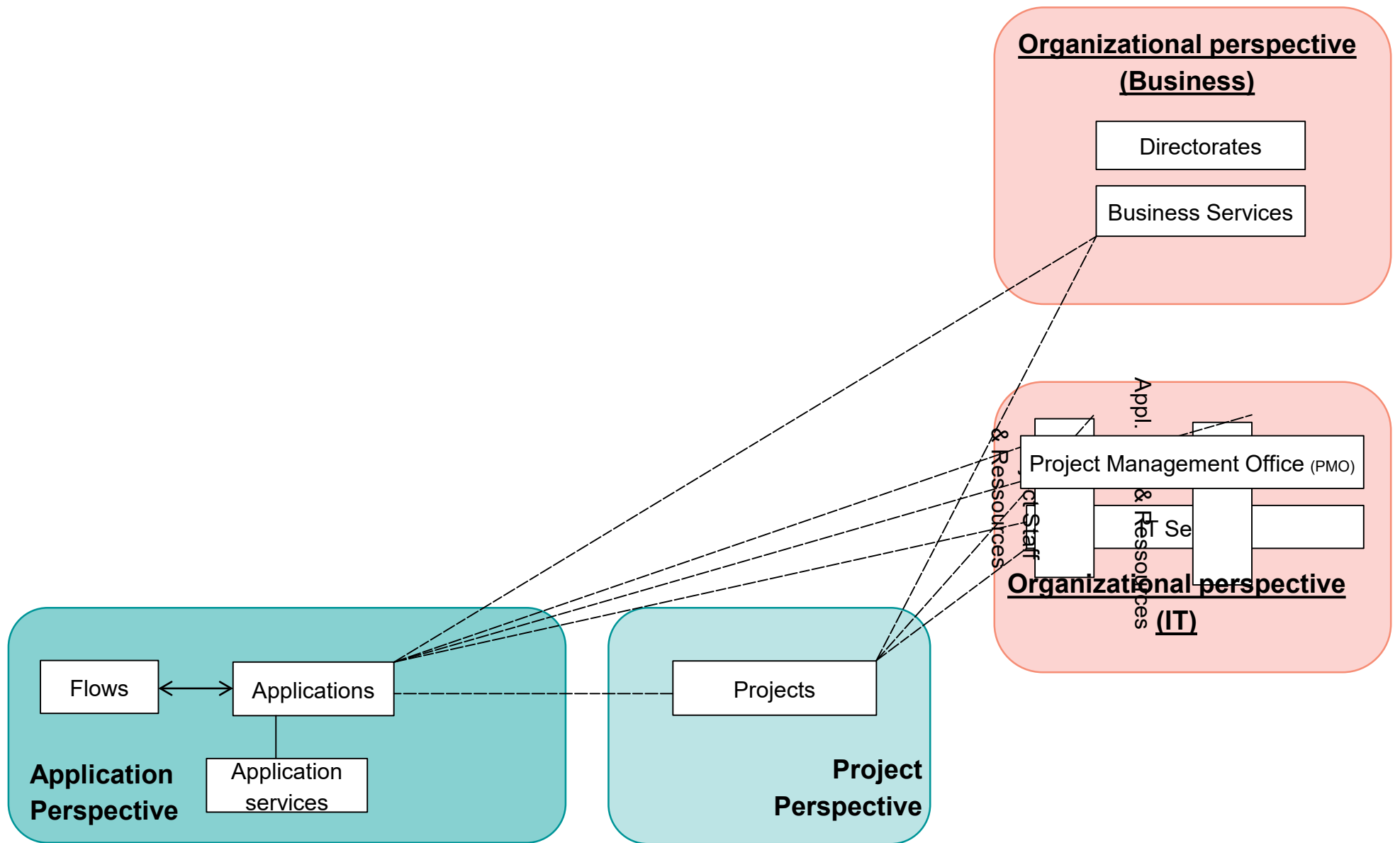
Web application developed by AB+Software, all rights reserved 2012-2019



Step 0 / Building an Application Layer with project & ressource 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

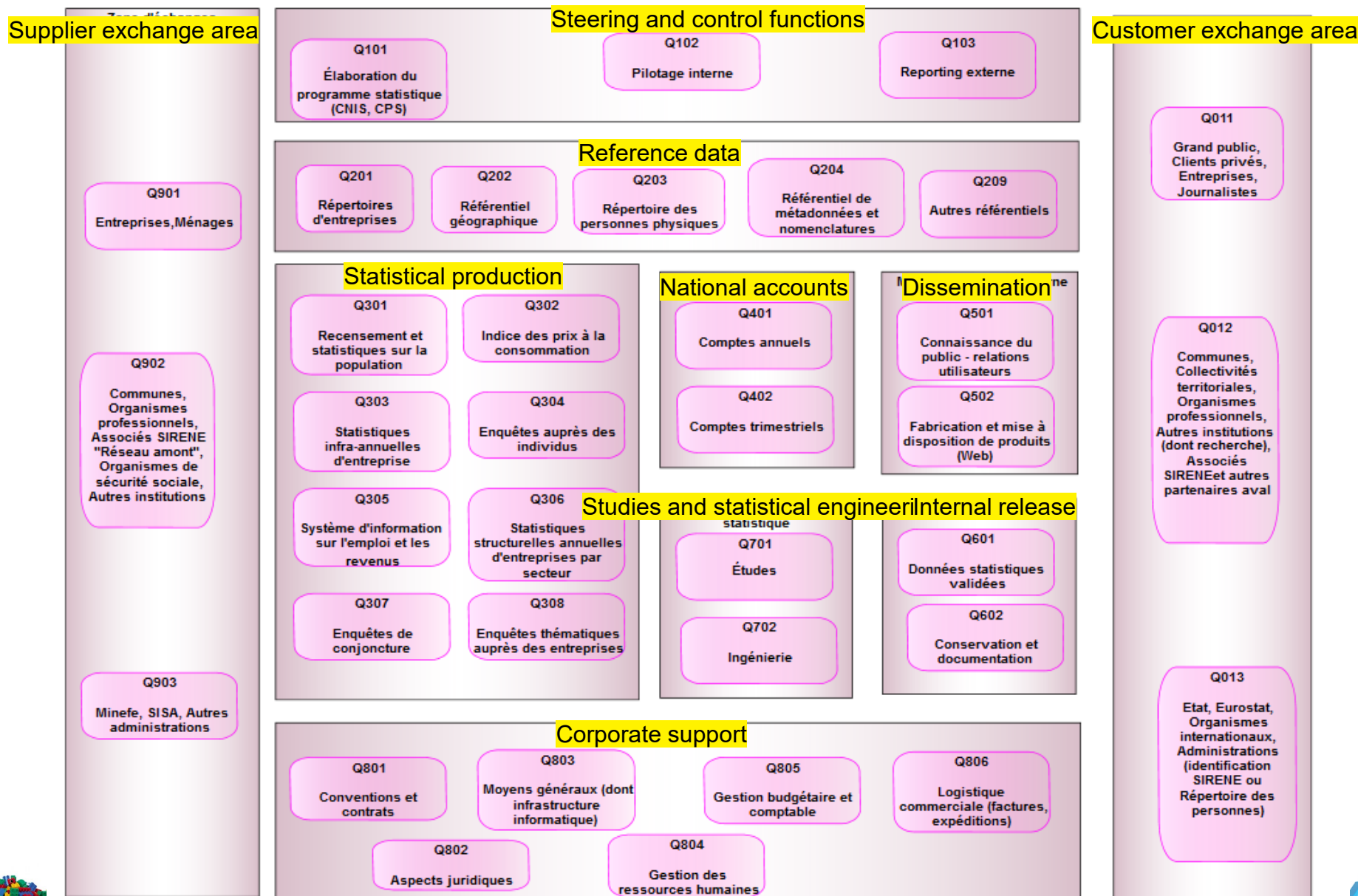
•2012 : « *Cadre commun d'urbanisation du SI de l'État* » (Common framework for the urbanization of the State's IS)

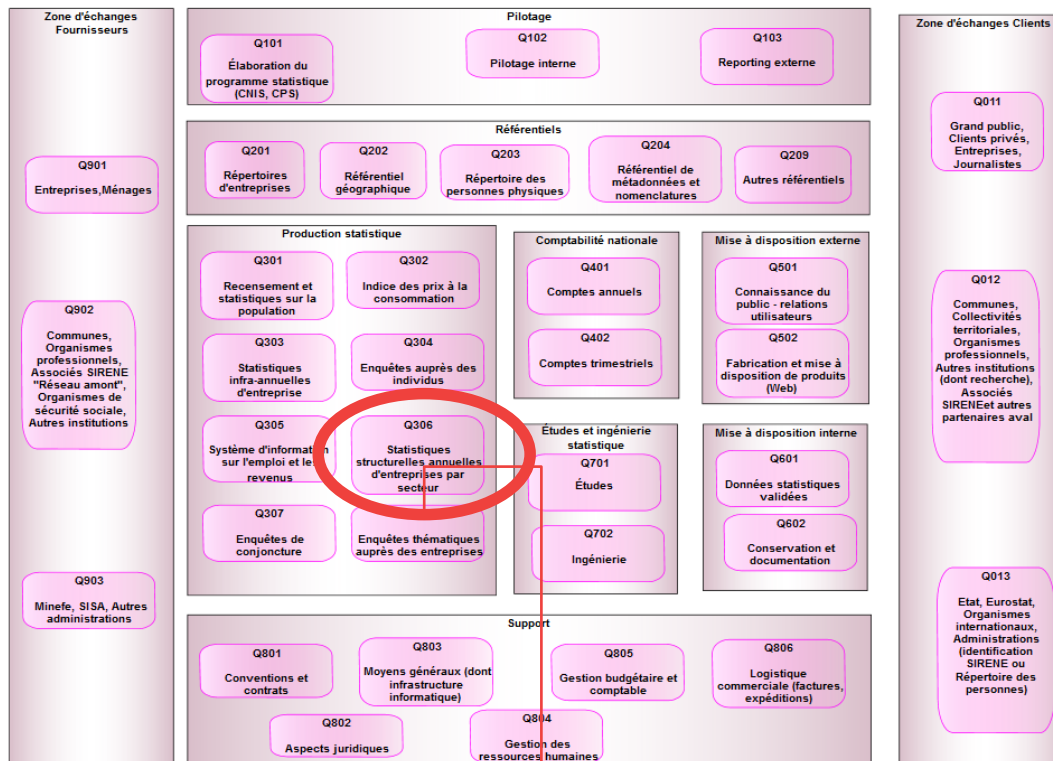
•The Land Use Plan (LUP) represents a « functional » breakdown of the French Public Services Information System.

•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





Applications used for producing structural business statistics

Application en CNI/SIN/CEI active

Calvados	CITRUS	COLTRANE	Documentation Esane
ENCORE	ENO	Enquête OFATS	ESANE
FUL	IAE	OASIS	ORESTE
ProfilApp	Sioore	Sine	SIRUS

Projet en cours

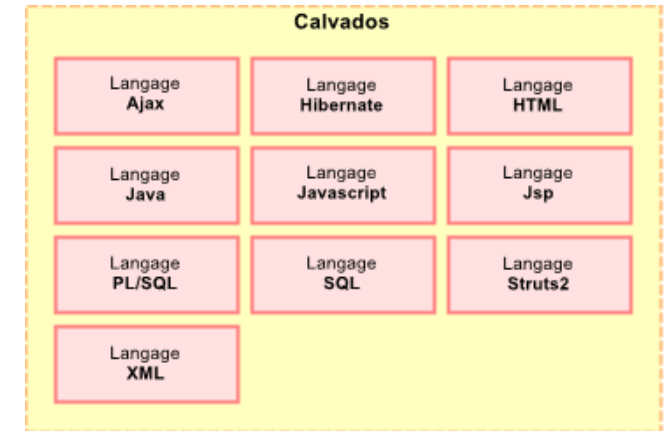
GENERIC
GENERIC - Application de reprise générique pour les enquêtes thématiques



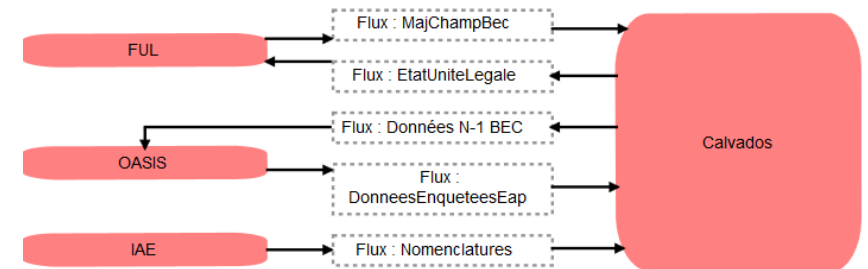


Step 2 / An application layer more and more (micro-)detailed

•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



« Land Use » Breakdown

« Function » assimilated
to final product

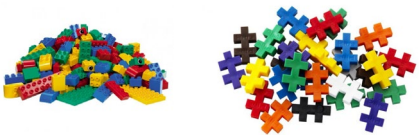
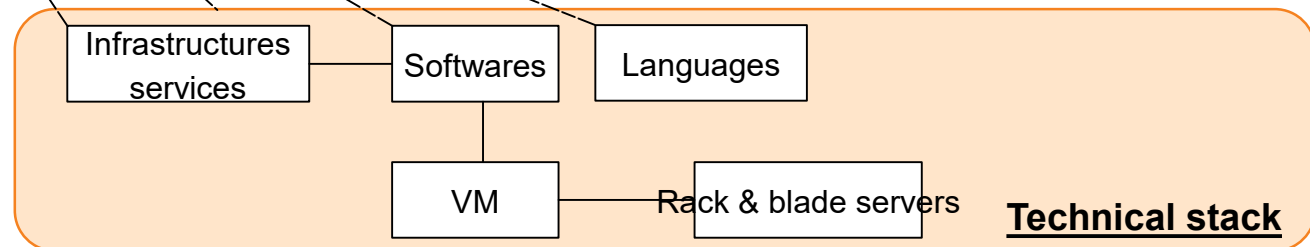
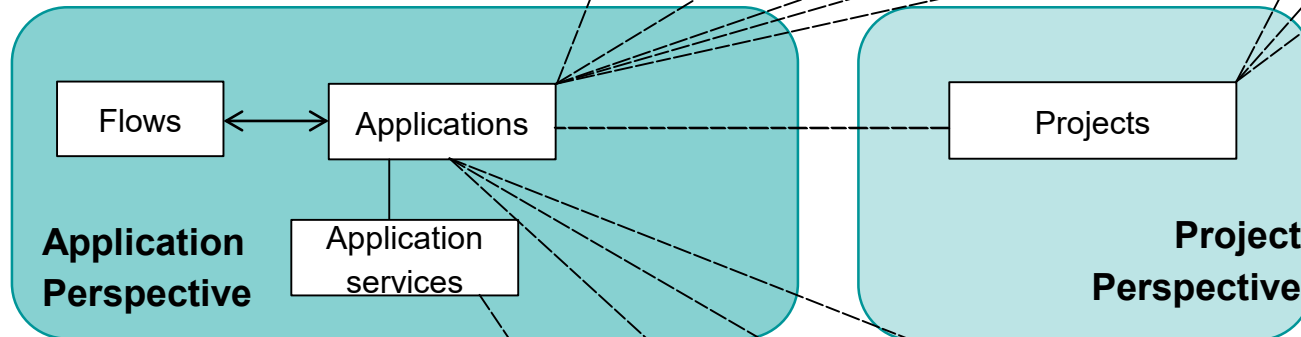
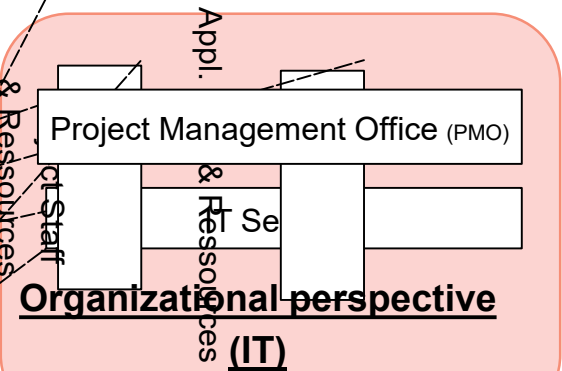
« Functional » areas

« Functional » districts

Organizational perspective (Business)

Directorates

Business Services



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



Specific Process perspective

« Process » description
depending on domain

Domain

Process

« Land Use » Breakdown

« Function » assimilated
to final product

« Functional » areas

« Functional » districts

Operations

Generic Process perspective (GSBPM)

Phases

Sub-Phases

Organizational perspective (Business)

Directorates

Business Services

Organizational perspective (IT)

Project Management Office (PMO)

IT Services

Application Perspective

Flows

Applications

Application
services

Project Perspective

Projects

Infrastructures
services

Softwares

Languages

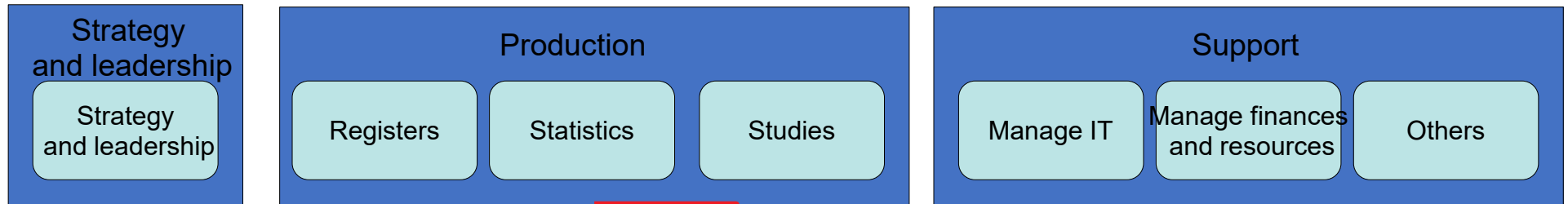
VM

Rack & blade servers

Technical stack



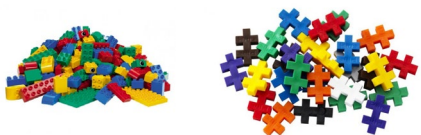
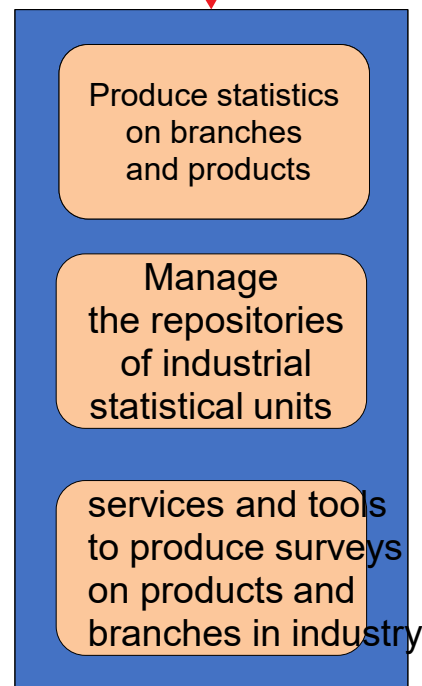
Domains & sub-domains



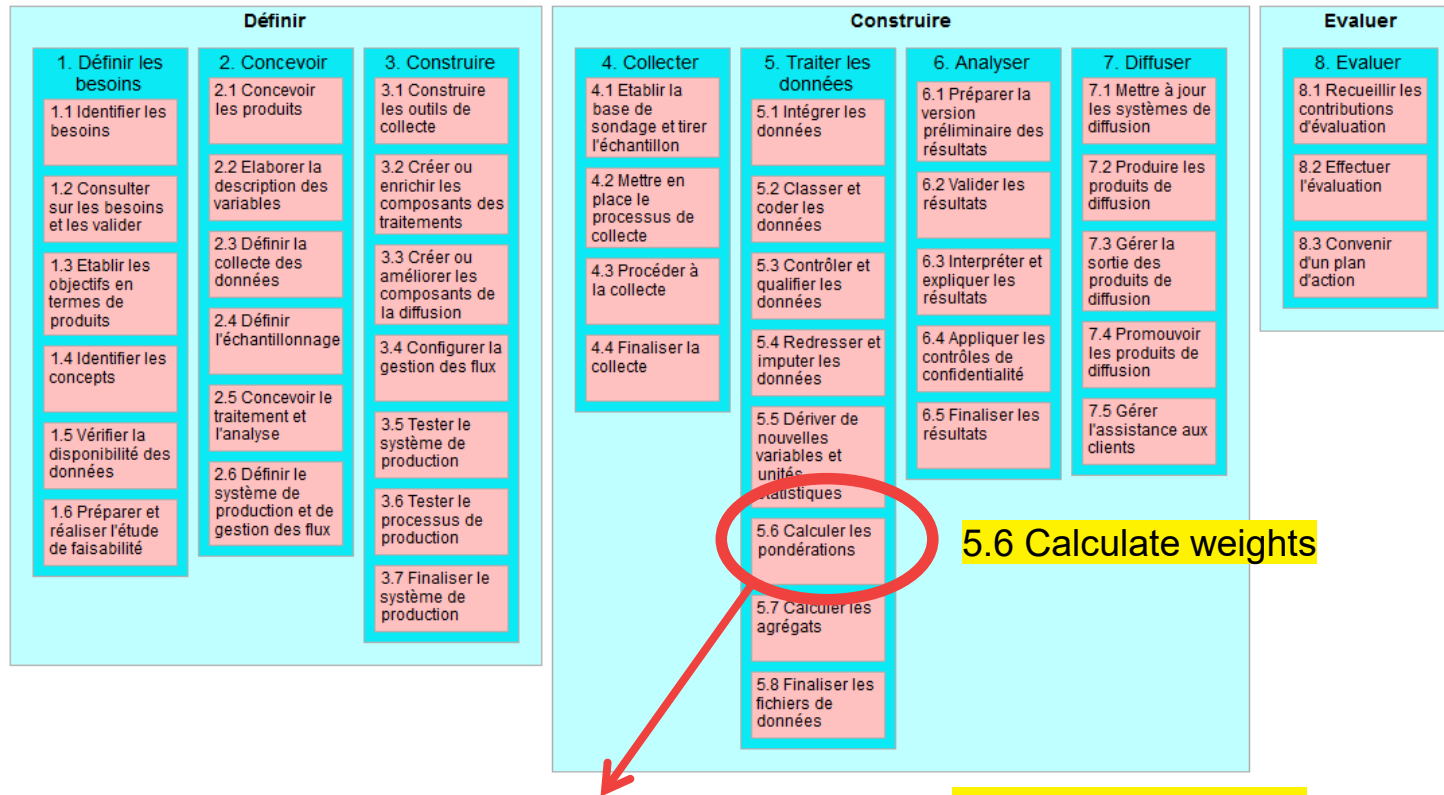
Macro & Meso-processes



Processes

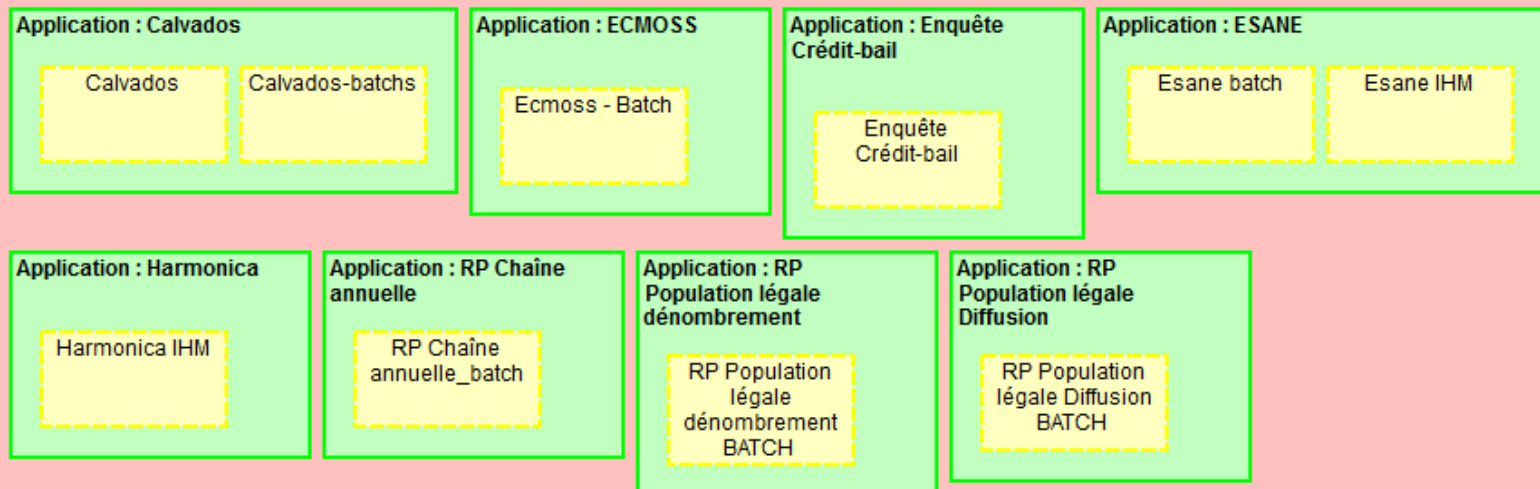


GSBPM phases and subphases in our EA tool

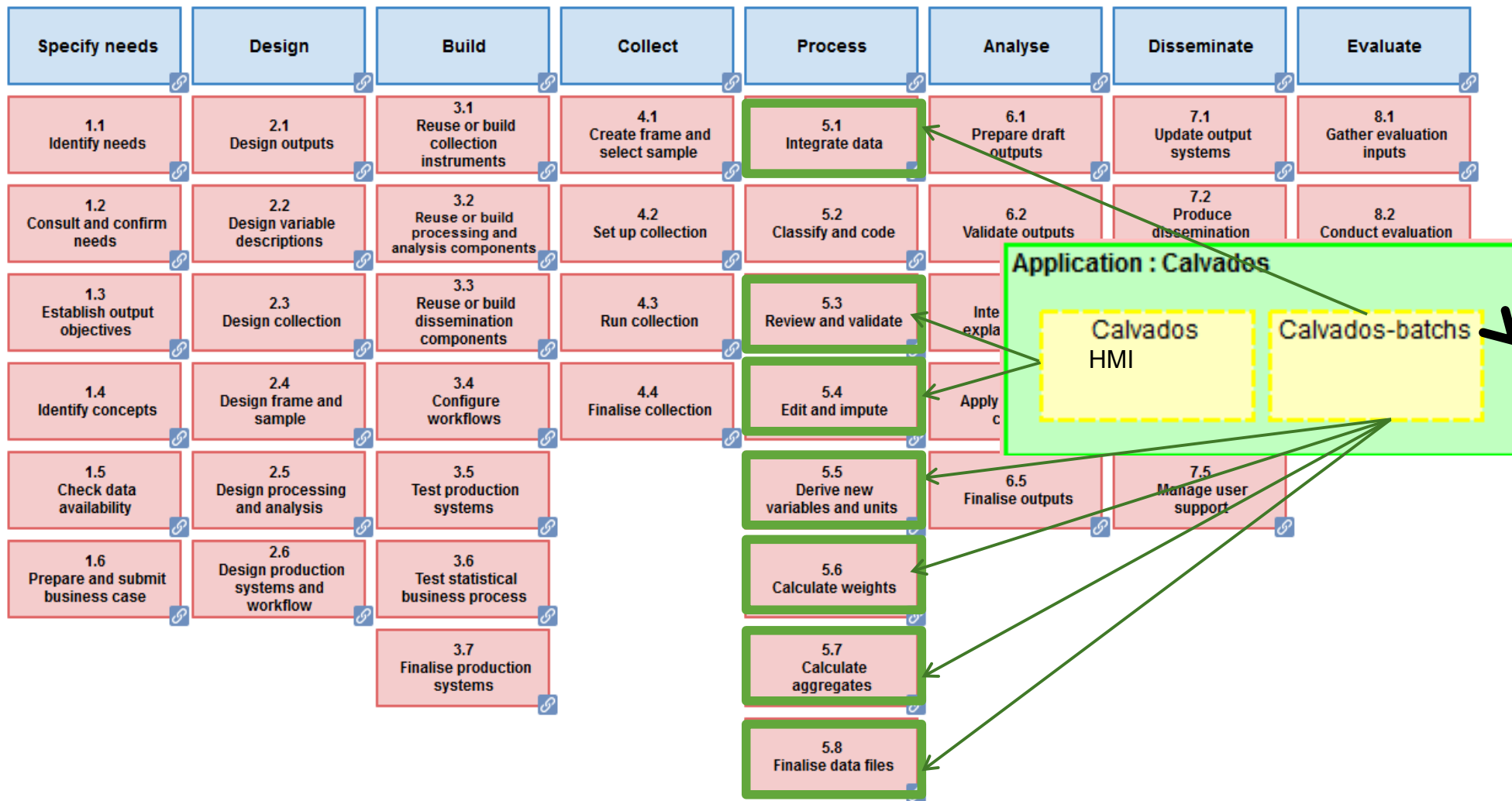


5.6 Calculate weights

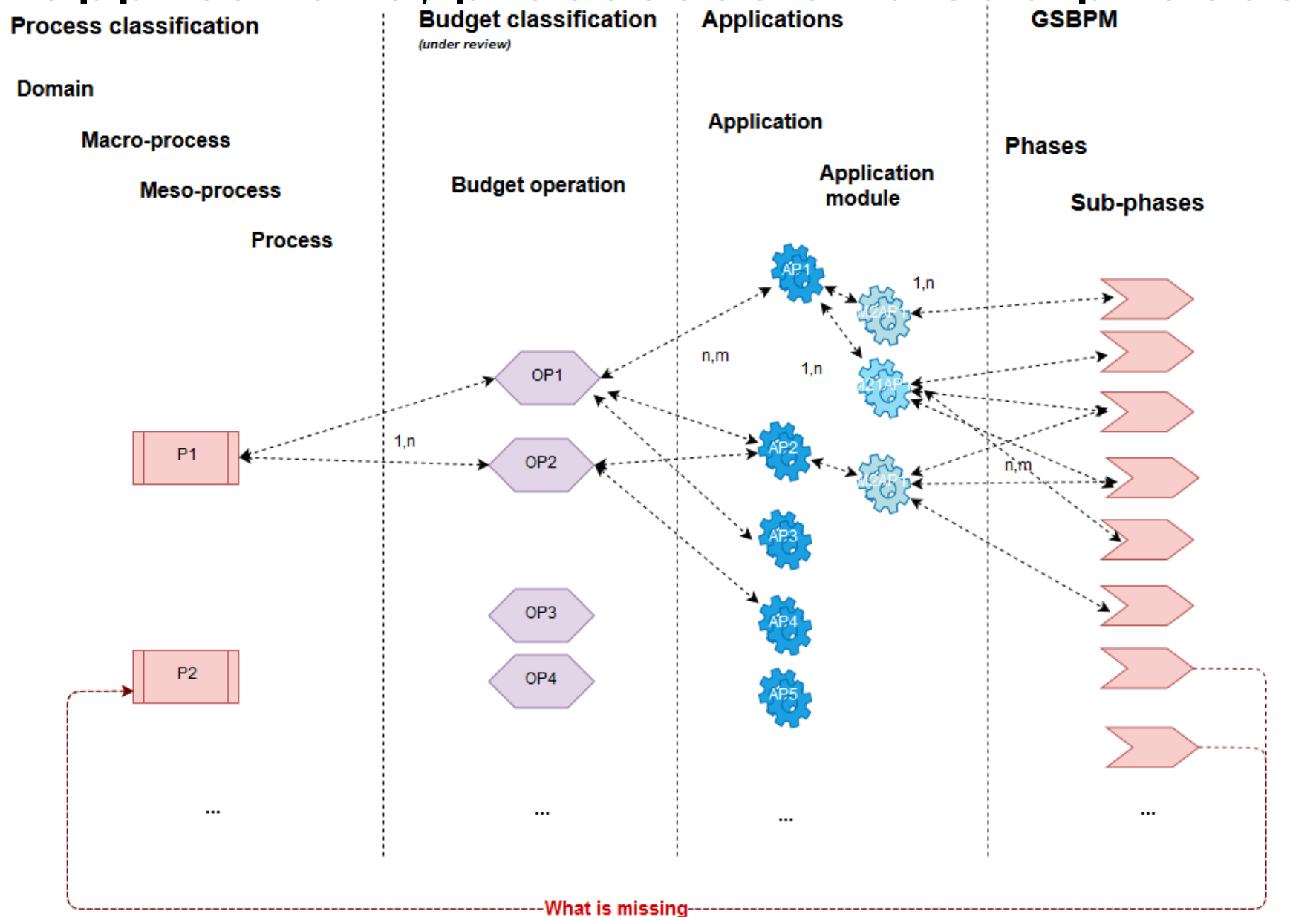
5.6 Calculate weights



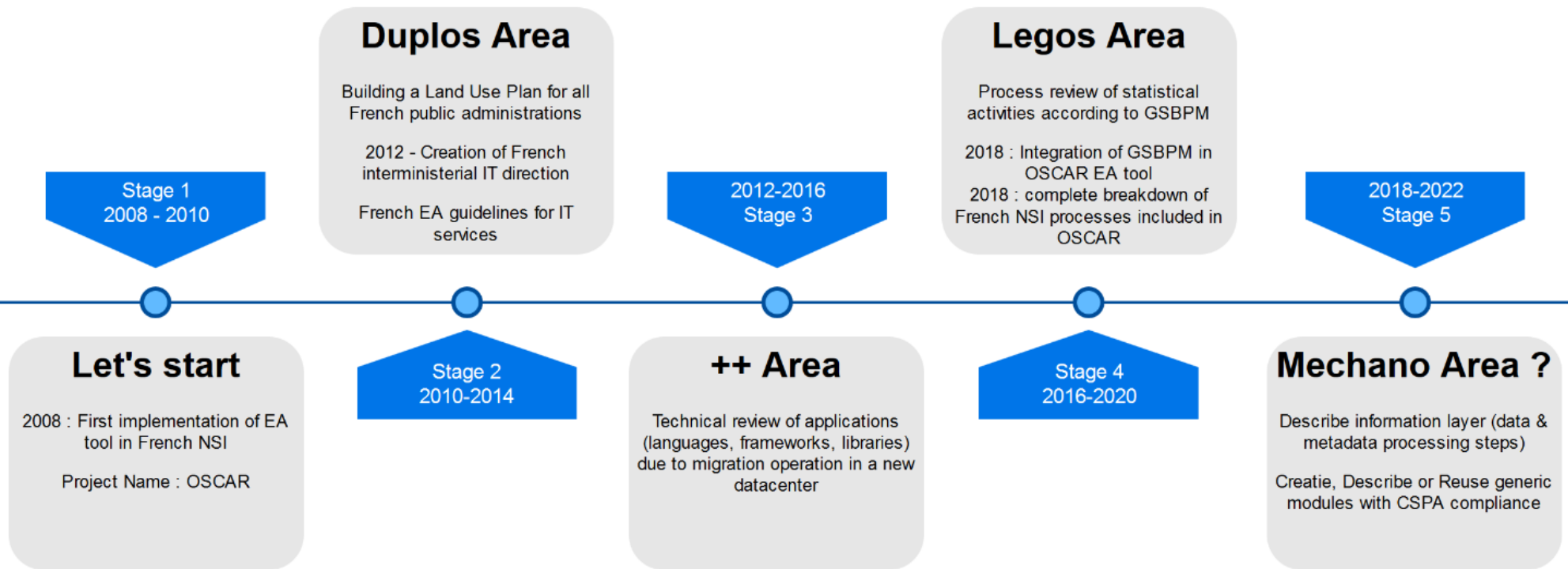
Application modules can be linked to the different sub-phases of the GSBPM



As it stands: complex links between applications, processes and sub-phases



Still willing to play in following years...



Specific Process perspective

« Process » description
depending on domain

Domain

Process

« Land Use » Breakdown

« Function » assimilated
to final product

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« Functional » districts

Operations

Generic Process perspective (GSBPM)

Phases

Sub-Phases

Organizational perspective (Business)

Directorates

Business Services

Information layer

Data

Metadata

Organizational perspective (IT)

Project Management Office (PMO)

Project Staff & Resources

Application Staff & Resources

IT Staff & Resources

Application Services

IT Services

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Application
services

Project Perspective

Projects

CSPA description

Infrastructures
services

Softwares

Languages

VM

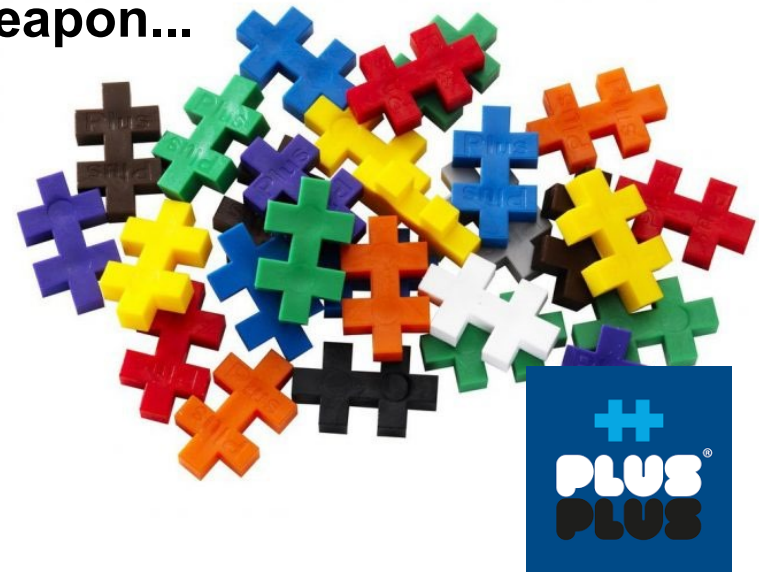
Rack & blade servers

Technical stack





Now choose your weapon...



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arnaud.degorre@insee.fr

