



# On the design of a reference architecture in Istat

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## What is Enterprise Architecture (EA)

**Enterprise architecture:** a coherent whole of **principles**, **methods**, and **models** that are used in the design and realisation of an enterprise’s **organisational structure**, **business processes**, information systems, and infrastructure.

[The Open Group]

## How EA supports official statistics

EA principles help to:

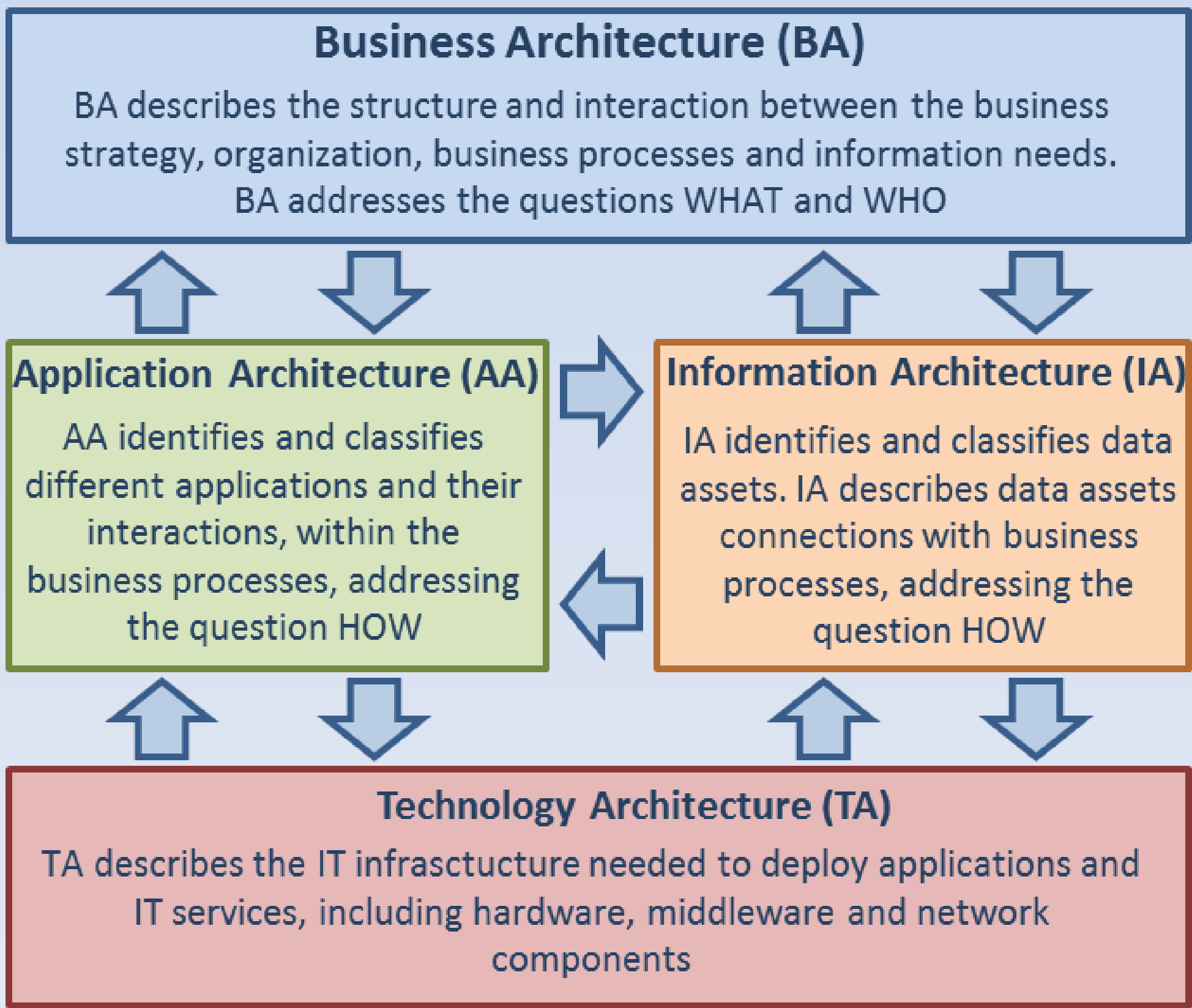
- adopt a **process oriented approach**,
- **remove silos**
- **increase cooperation** through an organization.
- translate high level business goals in concrete actions
- face **internal & external challenges** (e.g, new statistical needs, new data sources, budget cuts , self-contained organizational structures)

## EA core concepts

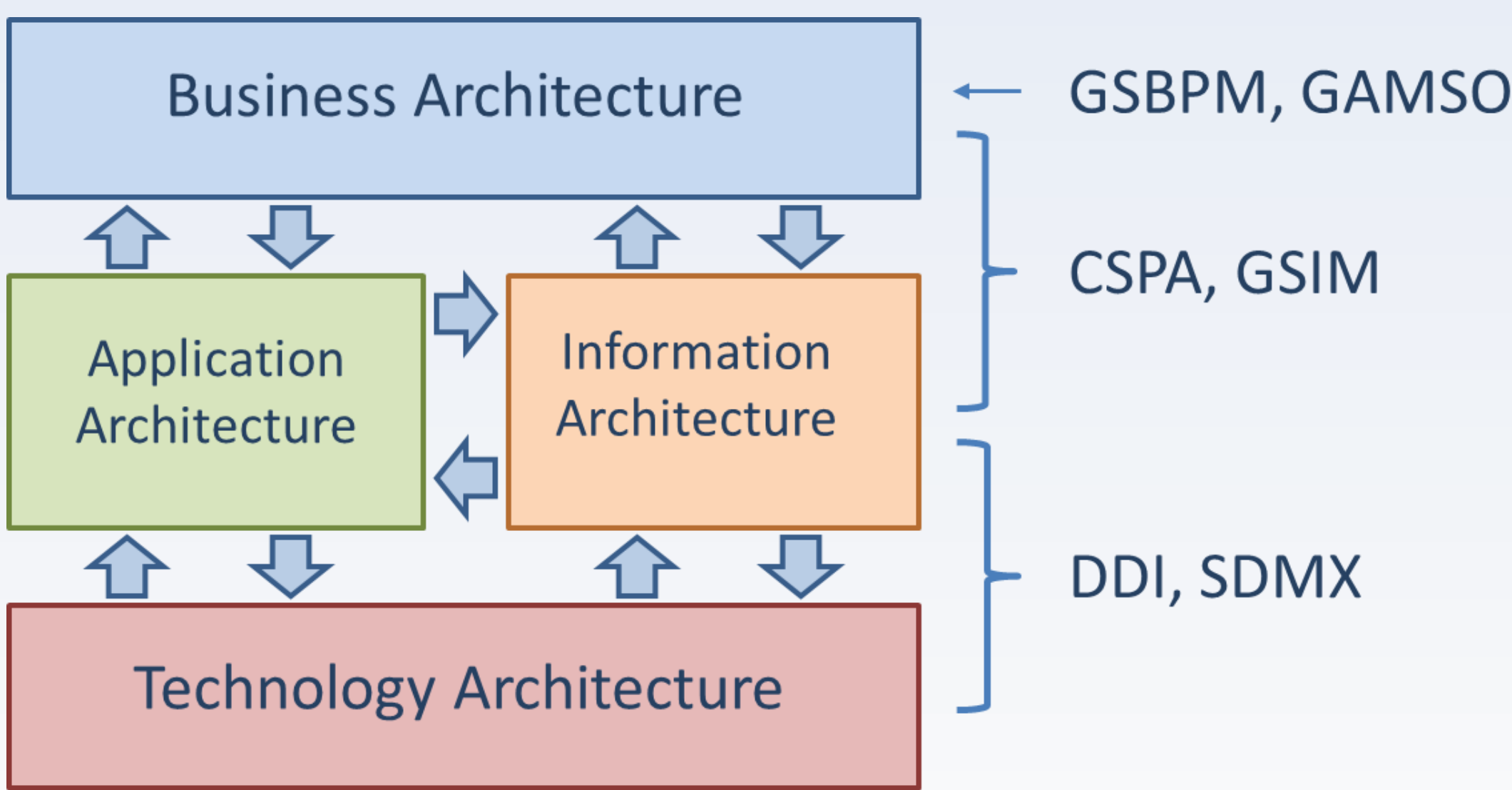
- **Building Block:** represent (potentially re-usable) components of (IT) capability
- **Service:** software component that enable the read/write access to building blocks



## EA layers



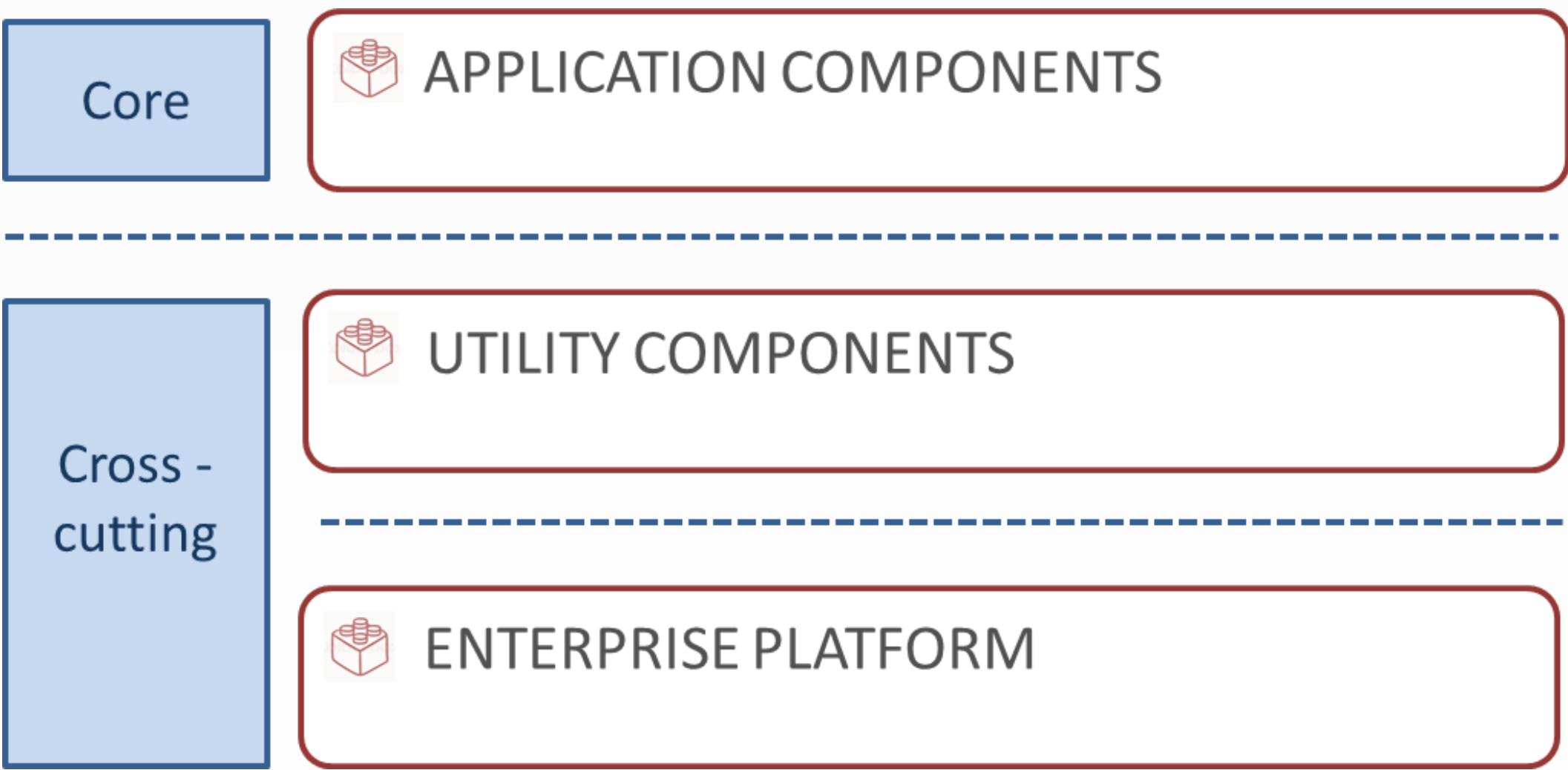
## EA reference standards



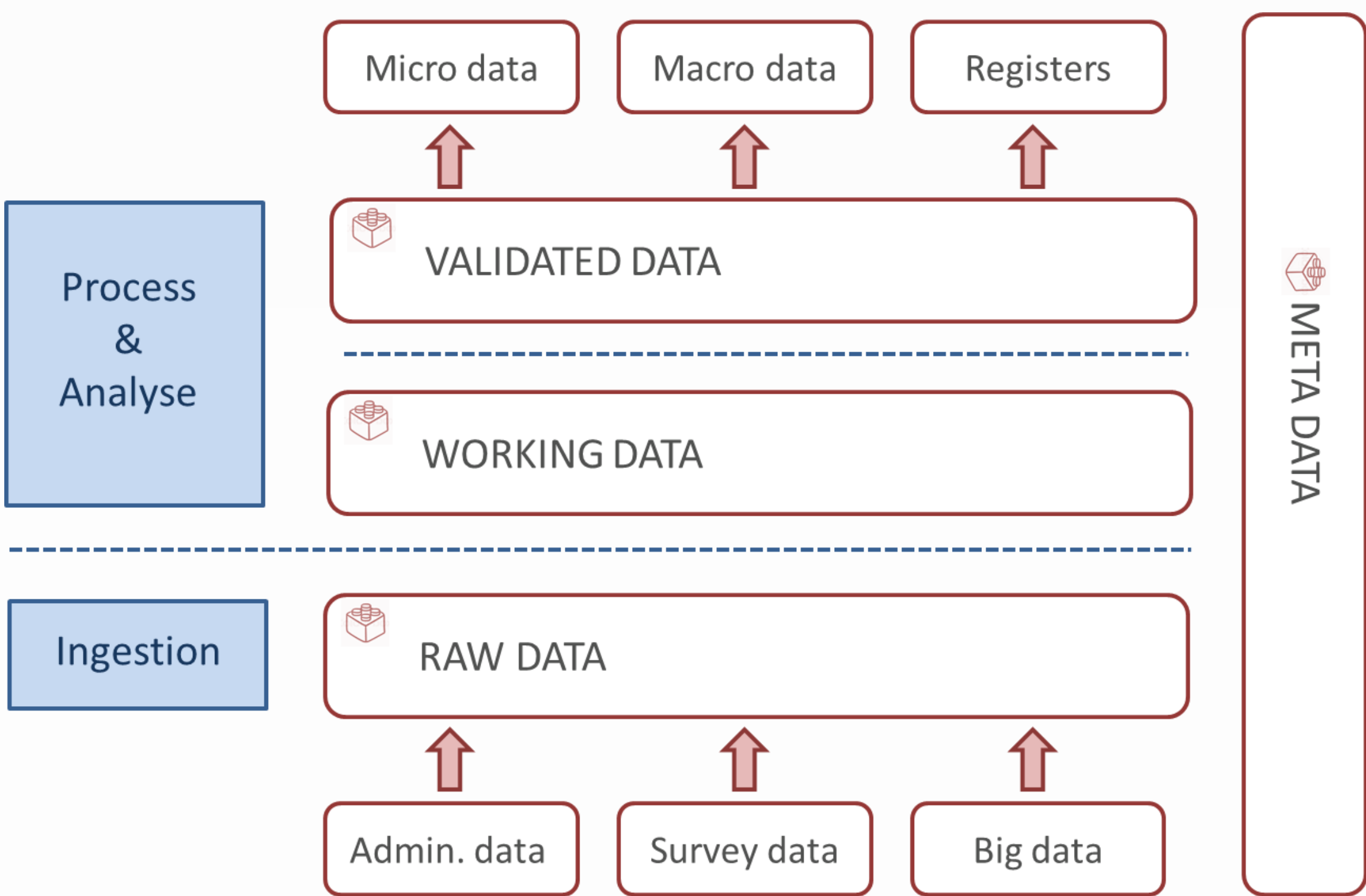
## Implementing EA @ Istat

The implementation of EA principle in Istat has started focusing on the Information Architecture domain, compliant with a data centric approach. After the analysis of the current architecture (AS-IS), the revised framework is reported below. In the proposed IA, the data assets have been classified in three different layers, according to their status in the production chain and GSBPM core phases. The AA designed in Istat classifies the main groups of applications, used in the core statistical processes or to support cross-cutting activities.

## Application architecture



## Information architecture



## EA implementation roadmap @ Istat

