

VAT scheme for SME partial solution v.1.0

Interoperability/EIRA

EUROPEAN COMMISSION DIGIT D2

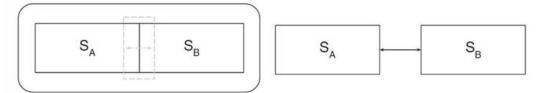
Directorate-General for Informatics (DIGIT)

Project Officer: Dr. Raul Abril



Interoperability

C. Stary, D. Wachholder / Data & Knowledge Engineering 00 (2015) xxx-xxx



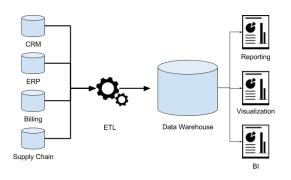
(a) Integration

(b) Interoperability

Fig. 1. System integration vs. interoperab



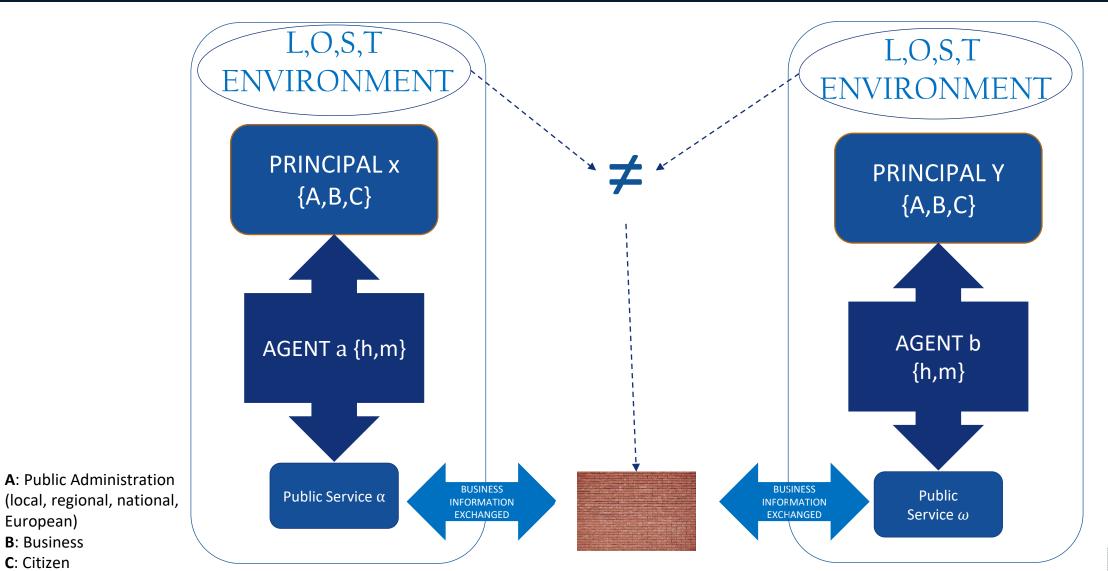






The IOP challenge: LOST environments

European) **B**: Business C: Citizen





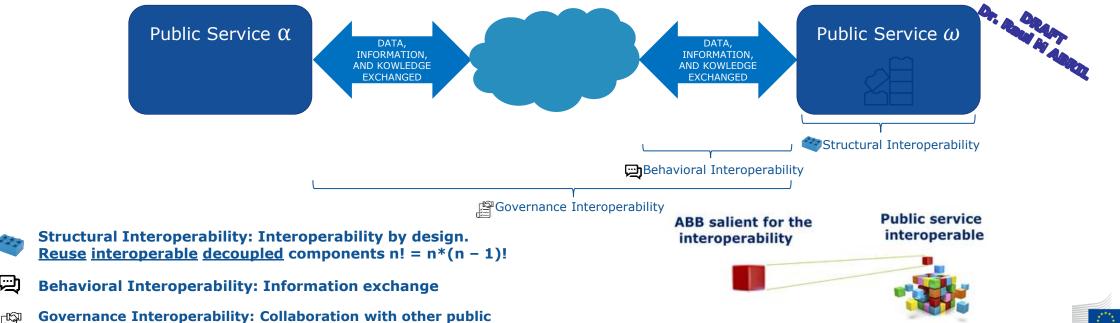


Interoperability: definition

"Interoperability is the attribution of actors or components in an organisation value chain enabling peer-to-peer collaboration of agents or [public] services towards mutually beneficial goals, involving the exchange of data, information and knowledge between them regardless their legal, organisational, semantical and technical environment.".

Interoperability is of multidimensional nature involving structural interoperability, behavioural interoperability and governance interoperability:

- > The structural interoperability is "the extent its structure has been developed reusing and/or sharing components in support of a peer-to-peer collaboration"
- > The behavioural interoperability is "the extent its manifested behaviour exchanges data, information or knowledge with its environment in support of a peer-to-peer collaboration"
- > The governance interoperability is "the extent its agreed choreography rules support a peer-to-peer collaboration"

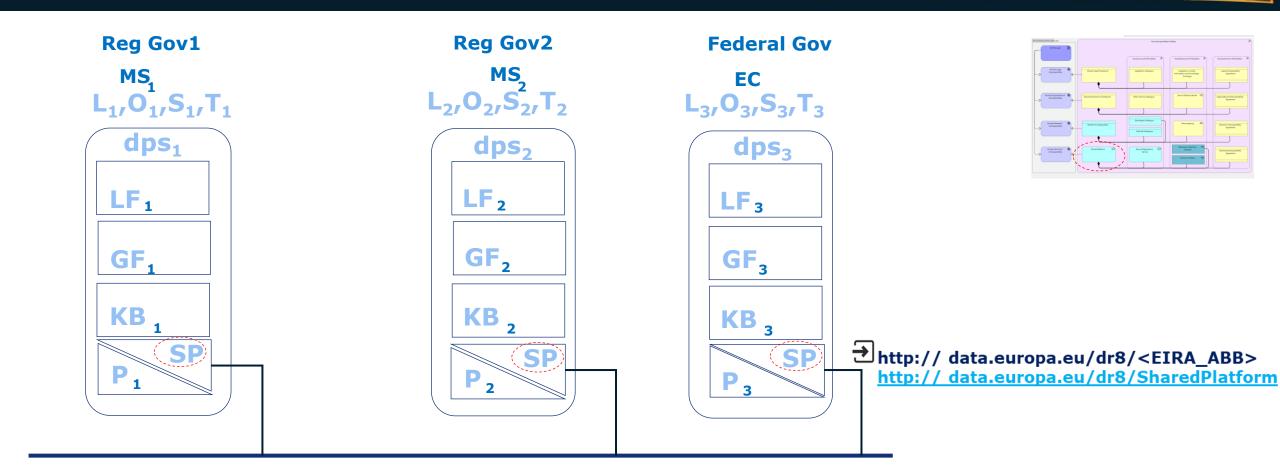




services



Technology implementation orientation

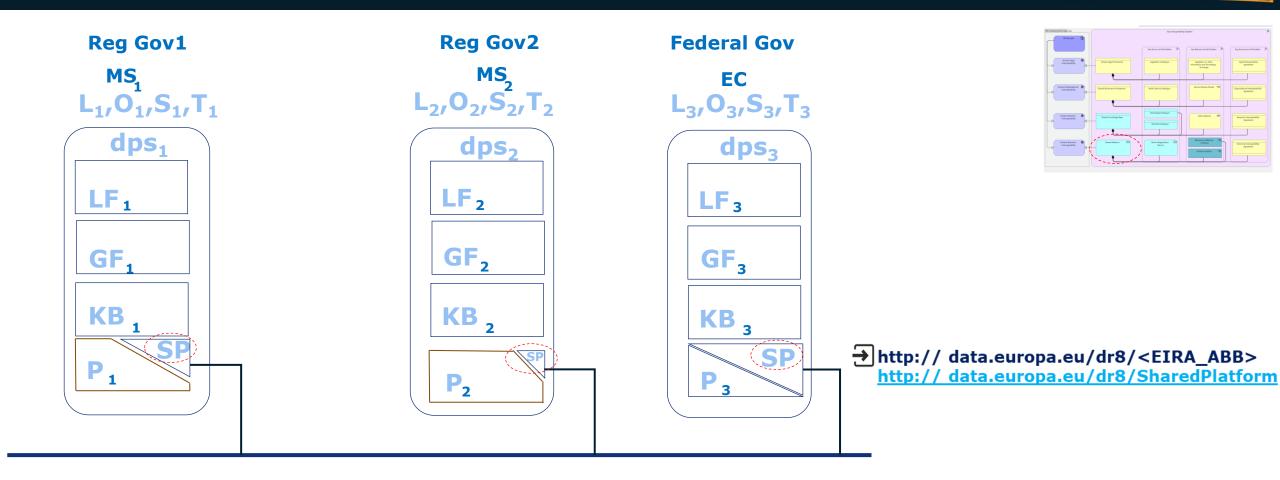


Tech. iop degree: PERFECT SHARE TECHNOLOGY. CROSS-BORDER IOP (i.e. no

iop barriers) from the Technical perspective



Technology implementation orientation

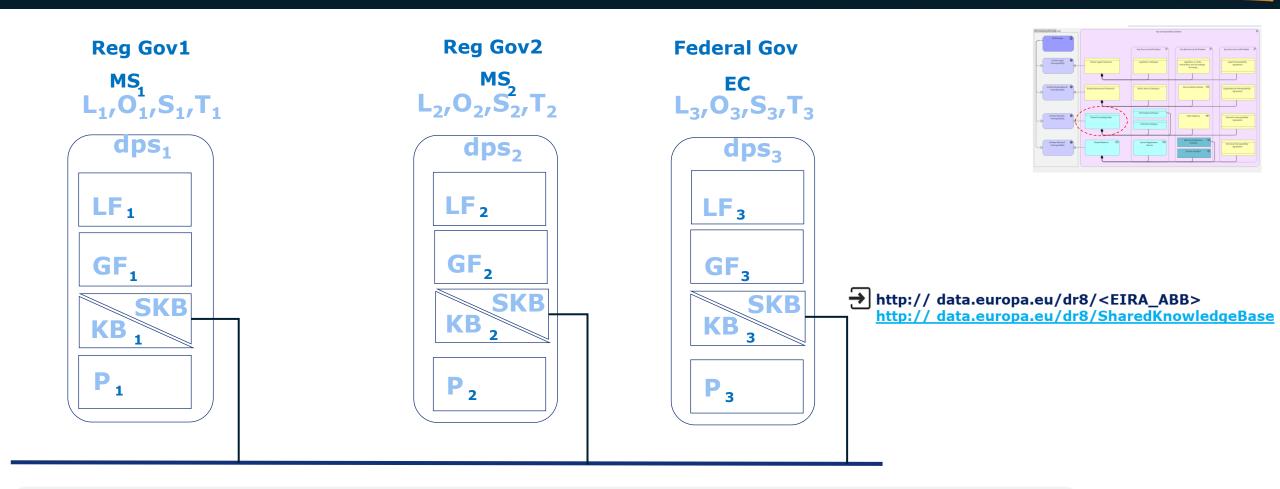


Tech iop degree: IMPERFECT SHARE TECHNOLOGY. Some CROSS-BORDER IOP

barriers from the Technical perspective



Integration implementation orientation

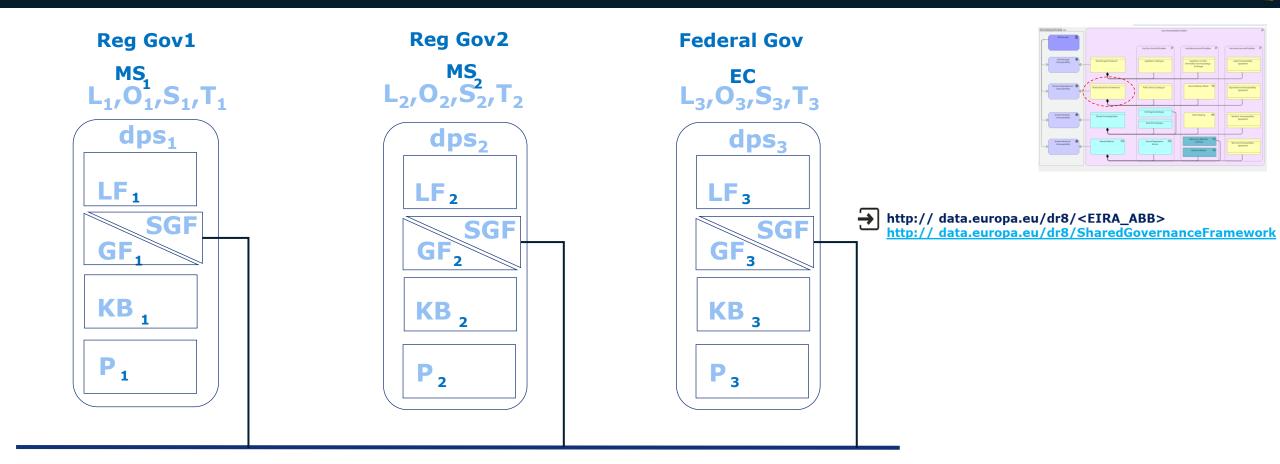


Semantic iop degree: PERFECT SHARE INTEGRATION. CROSS-BORDER IOP (i.e.

no iop barriers) from the Semantic perspective



Governance implementation orientation

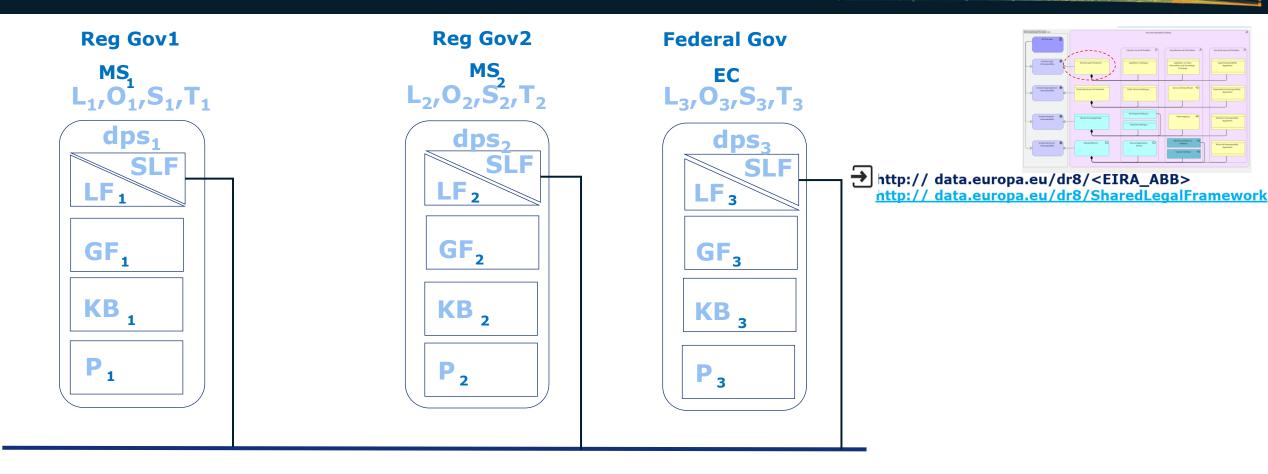


Organisational iop degree: PERFECT SHARE GOVERNANCE. CROSS-BORDER IOP

(i.e. no iop barriers) from the Organizational perspective



Legal implementation orientation

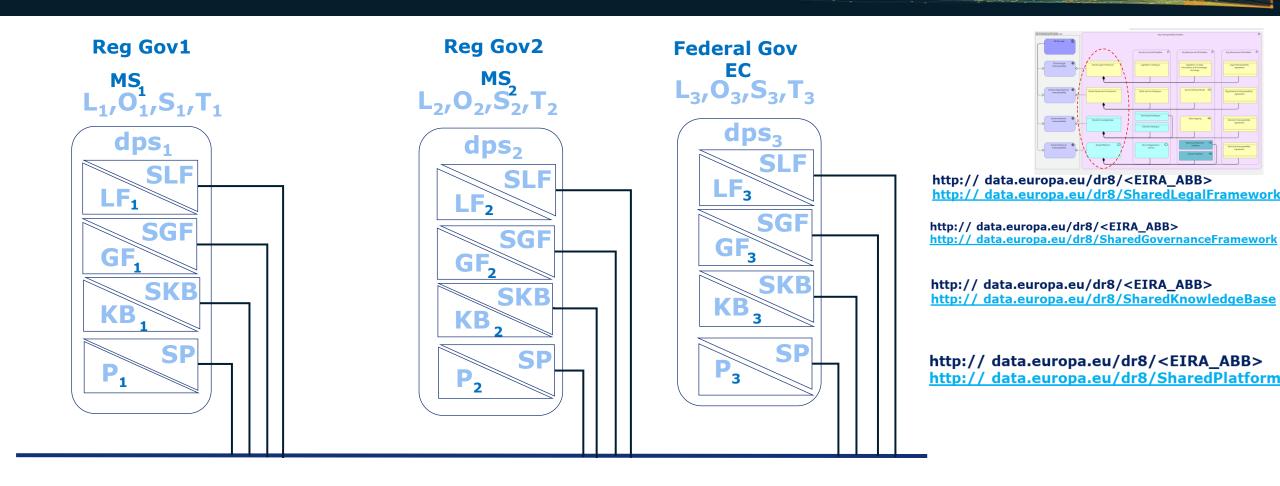


Legal iop degree: PERFECT SHARE LEGAL. CROSS-BORDER IOP (i.e. no iop

barriers) from the Legal perspective



Target



Iop degree: PERFECT SHARE EVERYTHING. CROSS-BORDER IOP (i.e. no iop

barriers) from the Technical, Semantic, and Organizational Legal perspectives





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