



**TOOP**

Introducing The Once-Only  
Principle project

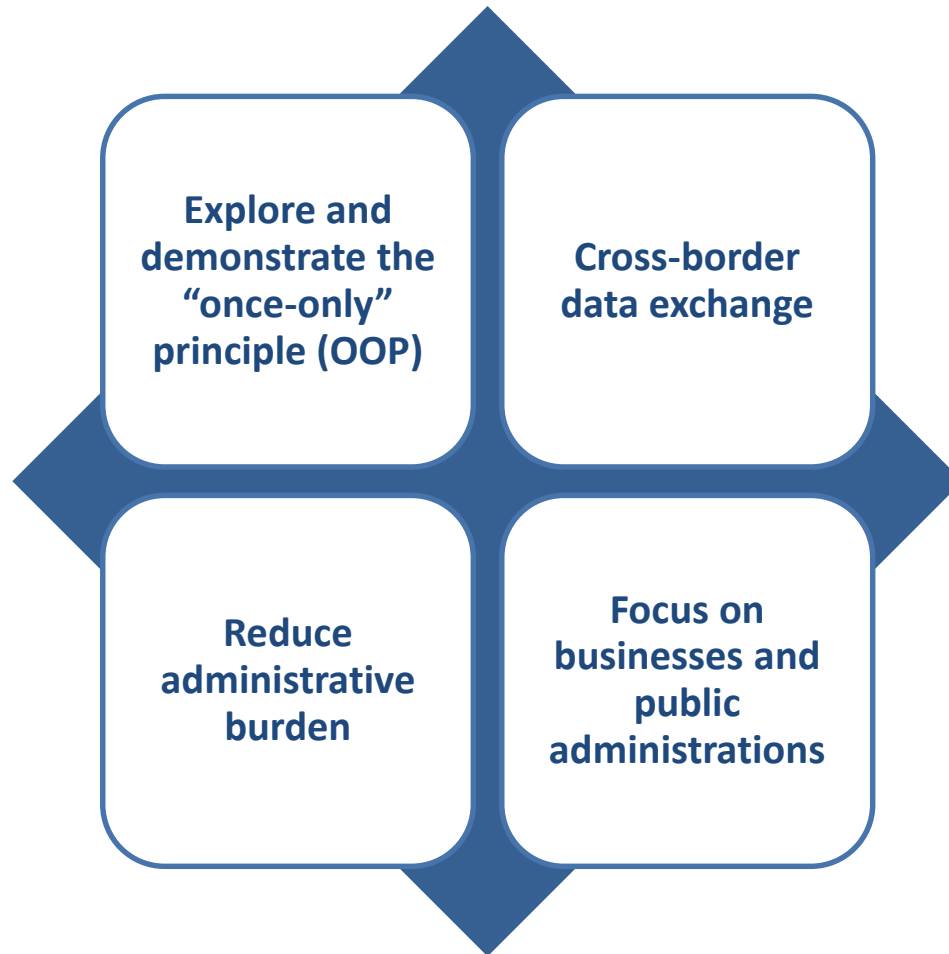
SEMIC Conference

Robert Krimmer/ 14 June 2017 / Malta

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research and innovation programme under grant agreement No 737460



# Aim





# Definition of OOP

**Collecting & storing** data only once

Streamlining processes by:

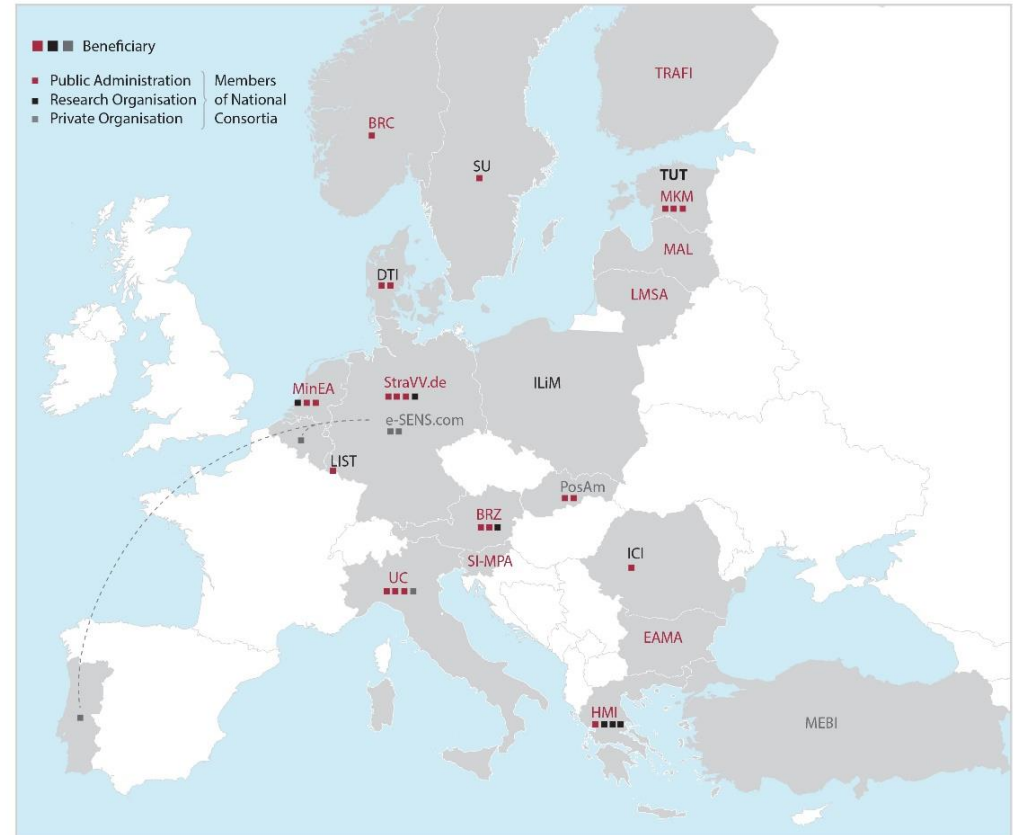
- Enabling automated data sharing
- Replacing redundant data collection with information requests from original source
- Improving data reliability



# Participants

• 21 Beneficiaries from 21 countries

- 50+ Partners
  - Public Administrations
  - Universities
  - Companies



AT	BG	DE	DK	EE	FI	GR	IT	LT	LU	LV	NL
BRZ ■ BKA ■ BMF ■ DUK	EAMA	StraVV.de ■ BVA ■ MRN ■ UKL	DTI ■ DMA ■ DBA	TUT ■ MKM ■ EMA ■ RIA ■ RIK	TRAFI	HMI ■ GS CCP ■ CER TH ■ UA ■ UPRC	UC ■ ANAC ■ UC Europa ■ IC ■ C906	LMSA	LIST ■ CAM	MAL	MinEA ■ TNO ■ KvK ■ Logius
NO	PL	RO	SE	SI	SK	TR					
BRC ■ NMA	ILiM	e-SENS.com ■ Time.lex ■ Vortal	ICI ■ ONRC	SU ■ Bolag-sverket	SI-MPA	PosAm ■ MFSR ■ SOSR	MEBI				



# Outcomes

- Demonstrate feasibility of OOP
- Re-use of existing building blocks
- Based on
  - Analysis of legal landscape
  - Identification of drivers & barriers
  - Cost-benefit analysis
- Three Pilot Areas: 1) Cross-border e-services, 2) Updated company data, 3) Ship & Crew Certificates
- Propose a federated architecture for OOP



# The TOOP landscape

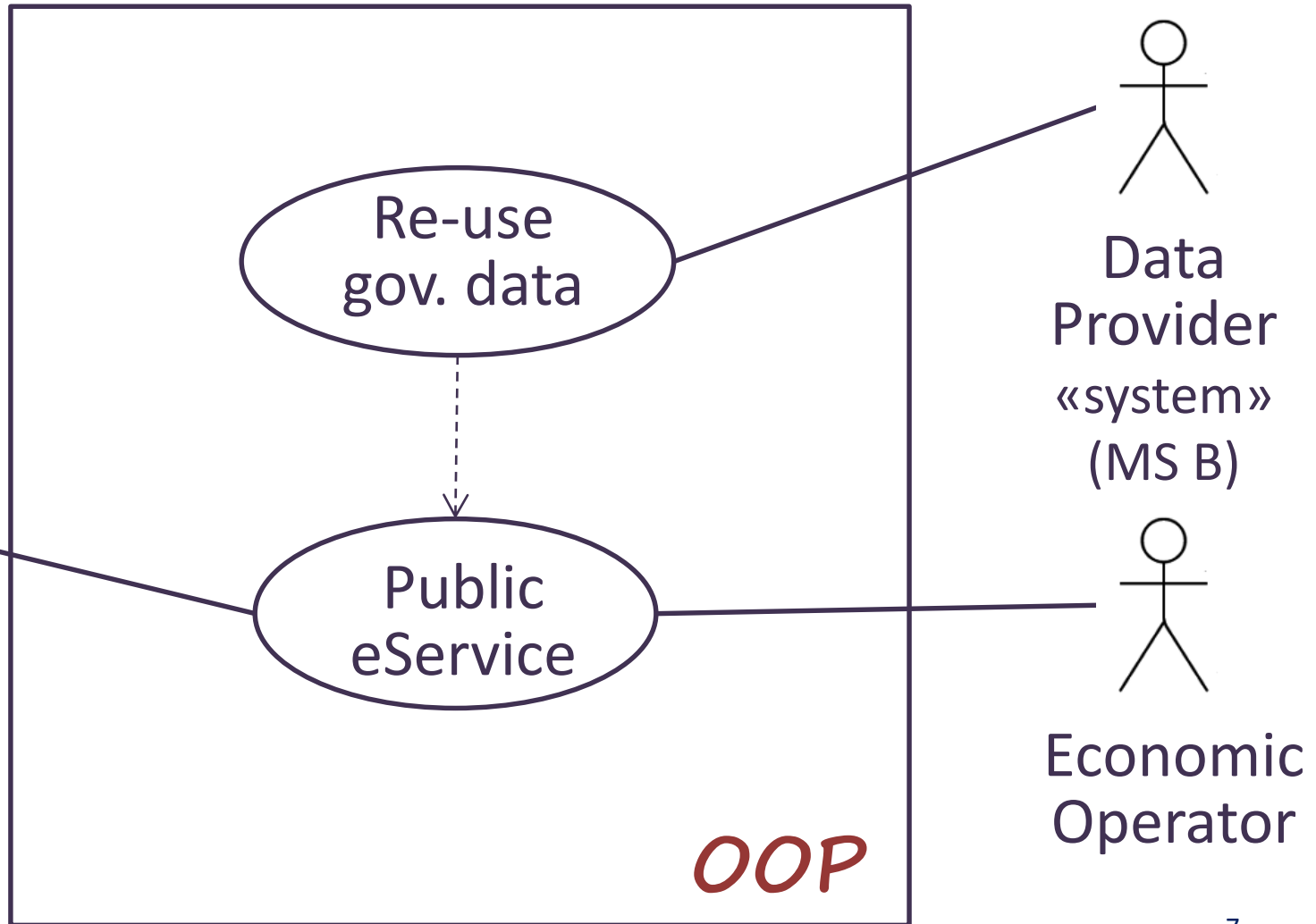
## *Actors & Organisations*

- Public Data Providers
- Public Data Consumers
- Data Aggregators (Gov't and Private)
- National OOP infrastructures
- Domain-specific infrastructures & organisations – PEPPOL, Maritime network, BRIS, EBR





# “Generic” OOP use case



Public Agency (MS A)

Data Provider «system» (MS B)

Economic Operator

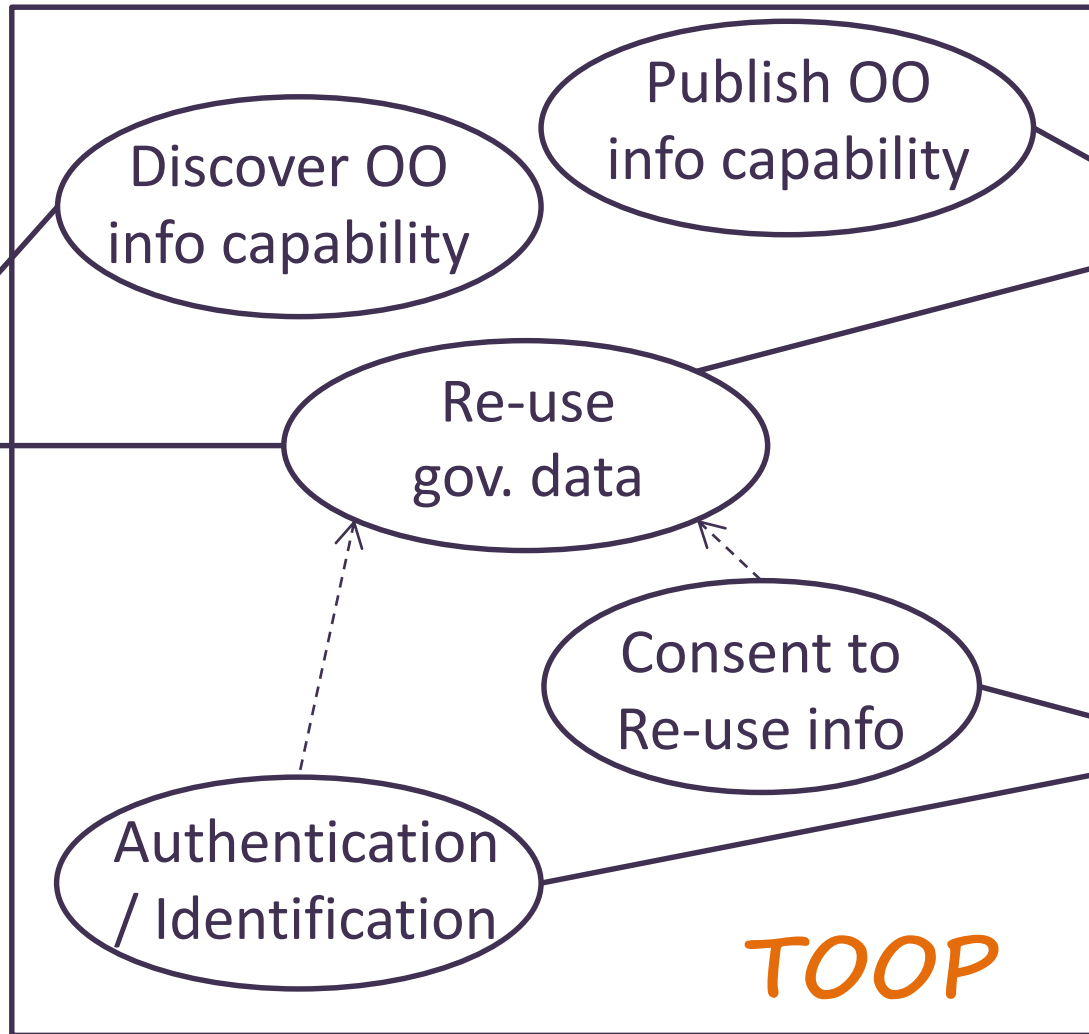
*OOP*



# “Generic” TOOP use case

*Focus on the Re-use*

TOOP

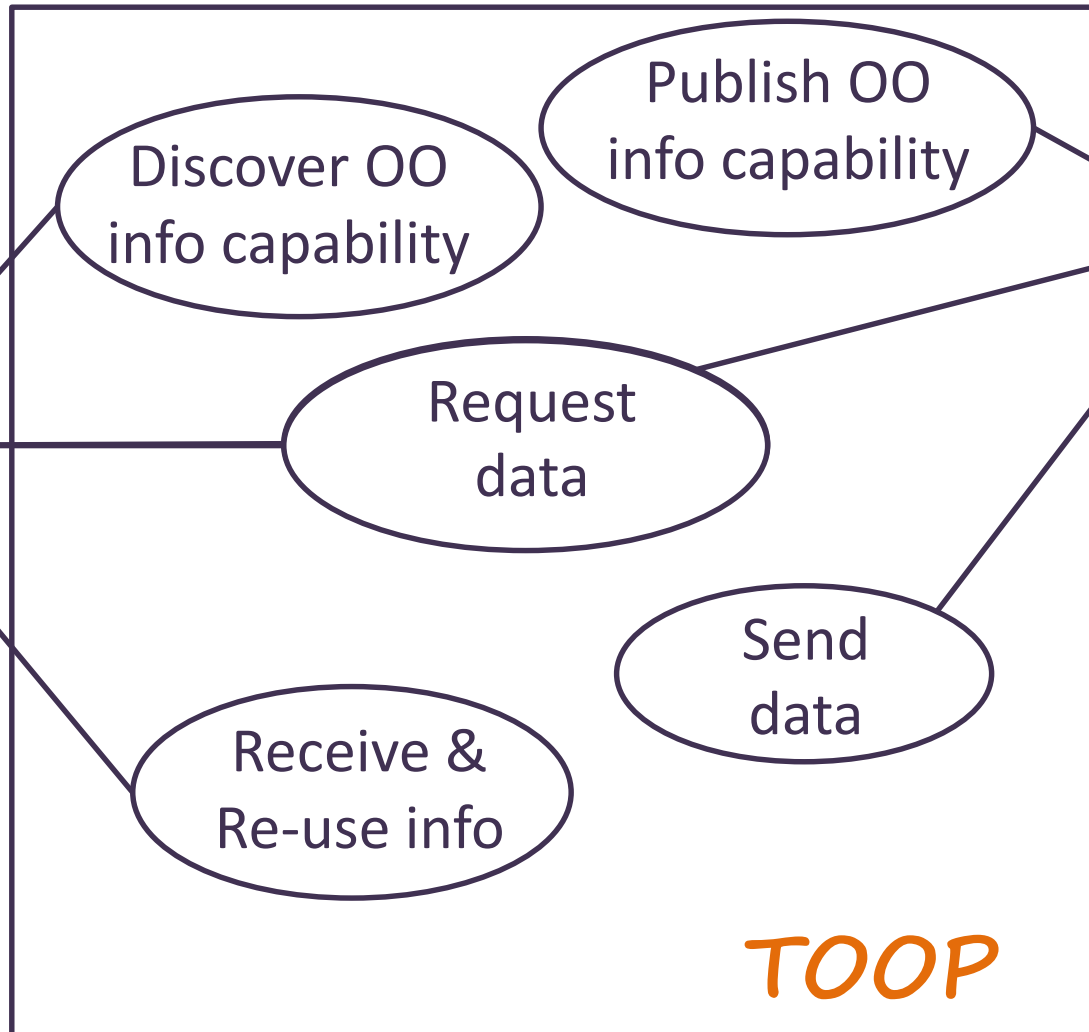






# “Generic” TOOP use case

*Focus on machine-machine Re-use*



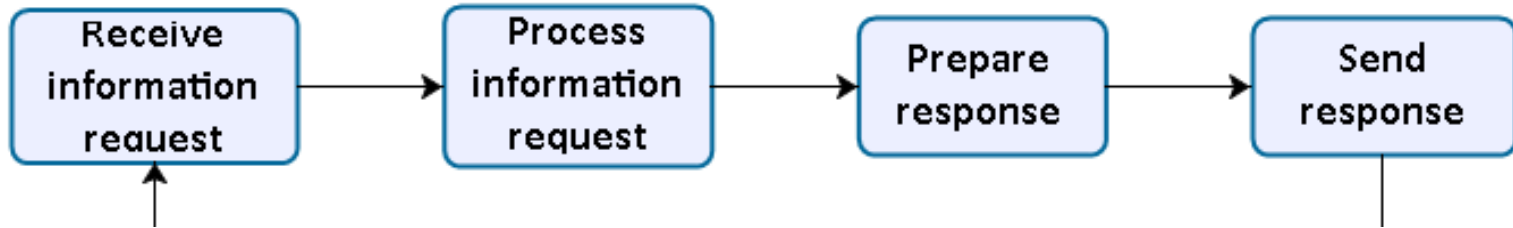


# “Pull & Push” TOOP use cases

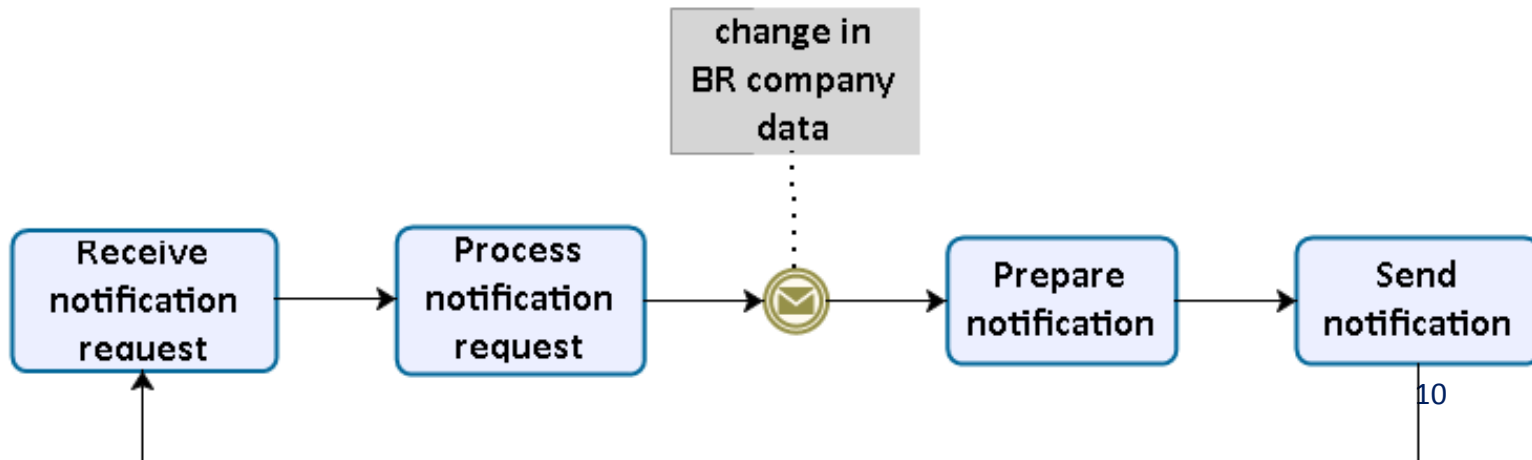
## *Two modes of Data Provision*



A *one-time request* for information leads to a simple “Pull” scenario



A *persistent request* generates a subscription to a “Push” notification service





# Reusing eSENS/CEF Building Blocks for basic functionality

TOOP

## *Working hypotheses to be verified*

- Discovery of OO information through “Capability & Location Lookup” of eDelivery BB
- “Understanding” of capabilities and requests through Semantic Mapping BB based on the TOOP taxonomy of OO Info-sharing capabilities
- Transfer of information/notification requests and responses through eDelivery
- Formatting and “packaging” of information with eDocument BB
- Other BBs for eID, Trust, non-repudiation, translation (?)
- Other solutions



# At a Glance

- Project start: 1 January 2017
- Project Coordinator: Tallinn University of Technology, Estonia
- Duration: 30 months
- Project budget: 8 mln €
- EU financing: 100%
- Programme: European Union's Horizon 2020 research and innovation programme under grant agreement No 737460



**Thank you!  
Questions?**



**Visit TOOP: [toop.eu](http://toop.eu)**

**Contact: [Robert.Krimmer@ttu.ee](mailto:Robert.Krimmer@ttu.ee)**



# The TOOP landscape

## *Service scenarios*

		TOOP			
		Data Consumers	Domain-specific agencies	Business Registers	Generic Public eServices
Data Providers					
Domain-specific agencies		<ul style="list-style-type: none"> <li>• eProcurement</li> <li>• Maritime services</li> </ul>			
Business Registers		<ul style="list-style-type: none"> <li>• eProcurement</li> </ul>	<ul style="list-style-type: none"> <li>• Business Registration</li> </ul>	<ul style="list-style-type: none"> <li>• Services Directive</li> <li>• Tax Agencies</li> </ul>	
Generic Public eServices				<ul style="list-style-type: none"> <li>• eGov Business Portals</li> <li>• Licenses, qualifications and mandates,</li> </ul>	

Note: “official” government Aggregators may act as “BR-equivalents” and other types of Actors