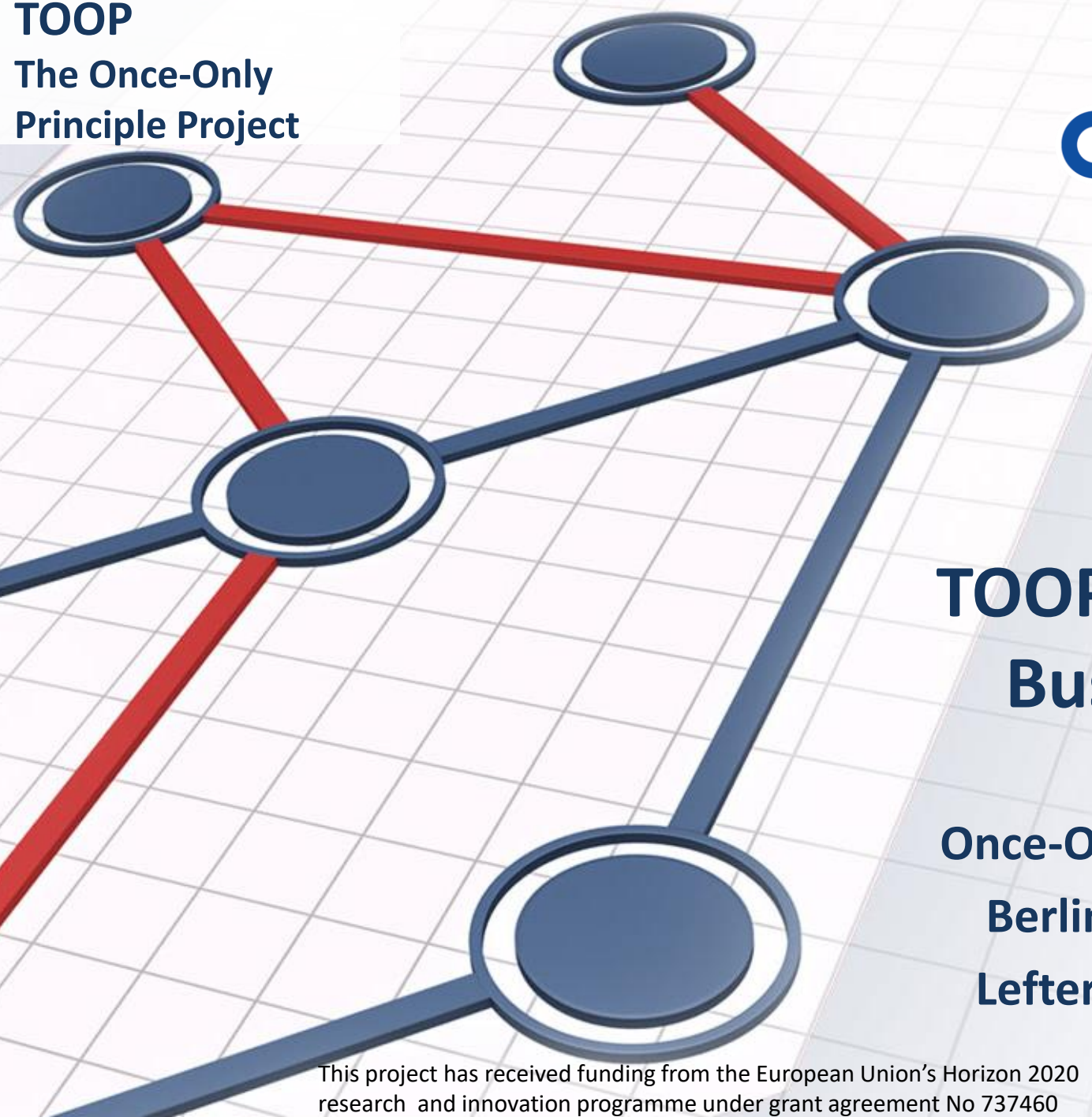
TOOP
The Once-Only Principle Project



The Once Only Principle

TOOP Pilots for Businesses

Once-Only Conference
Berlin, 28.11.2017

Lefteris Leontaridis

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 737460

The TOOP Pilot Areas and Use Cases for Businesses

- Cross-border eServices for Business Mobility
  - eProcurement: Automatic retrieval of EO qualification evidences
  - Business Licenses/Registration in another country
  - Retrieving Mandates and company data
- Connected Company Data
  - Exchange of Data between Business Registries
    - Branch registration, branch lifecycle (e.g. filing accounts and other notifications)
  - Providing Business Registry Data to external eGovernment Services in the MS

What we started to do

- Prove the feasibility of the Once-Only Principle in the three PAs
- Apply a generic OOP architecture to particular piloting conditions
- Work in an agile manner to create new once-only services

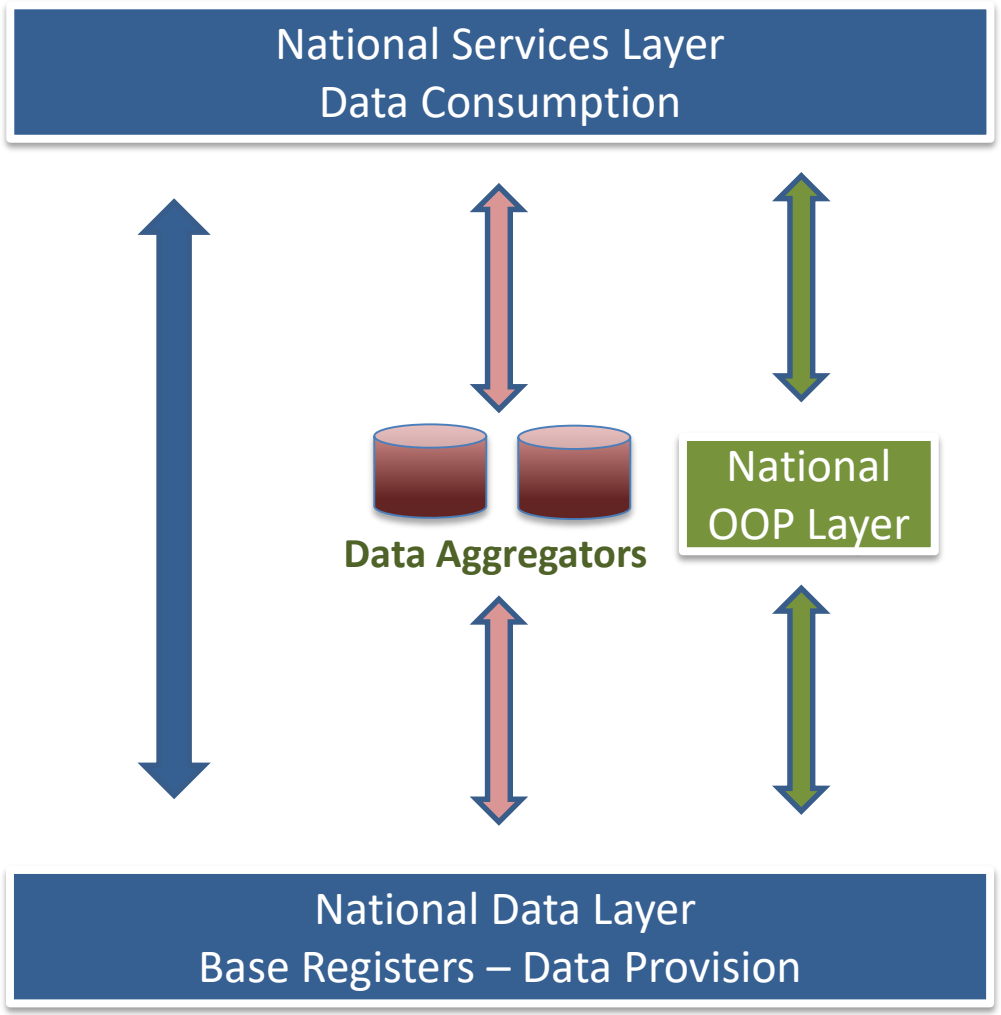
A RATHER EXPLORATORY PROJECT

Where we go now…

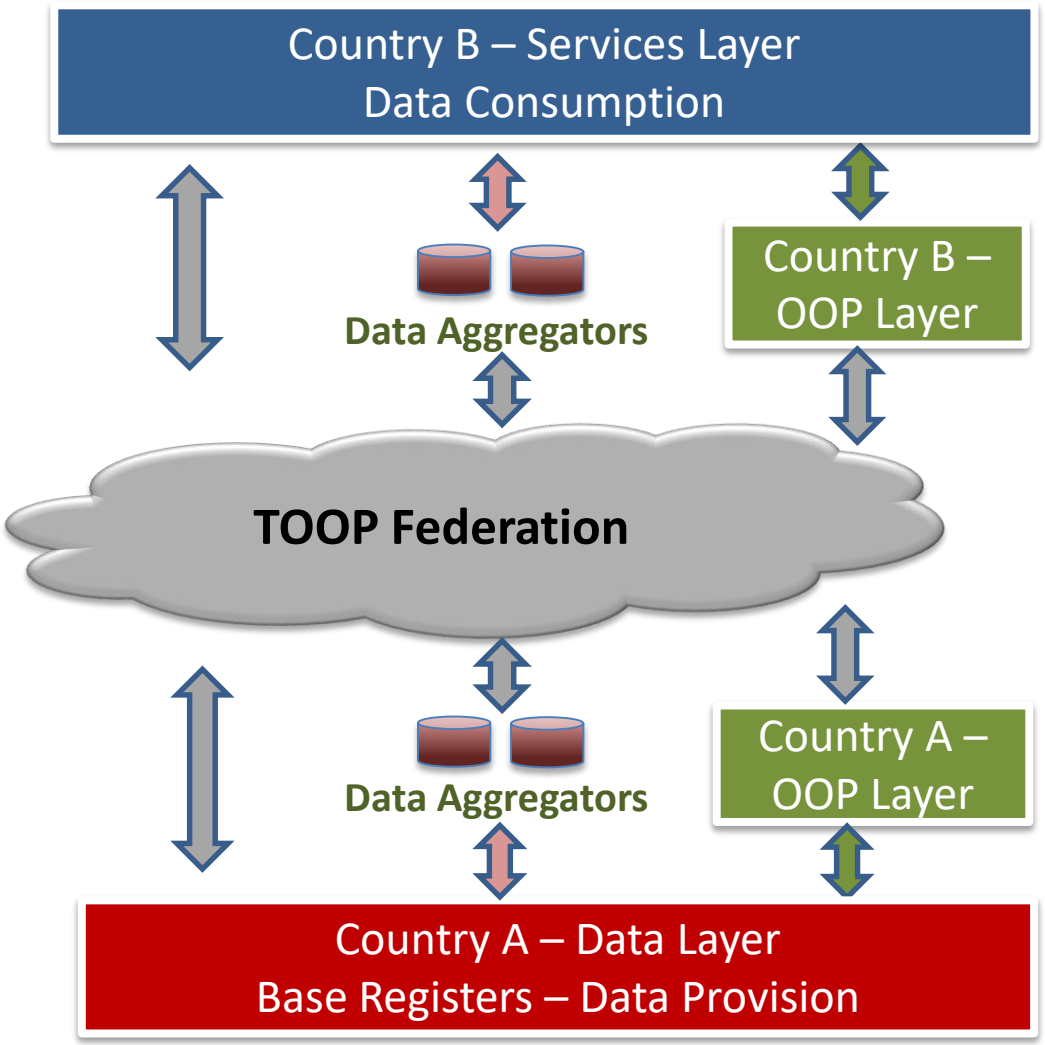
- Support of EU legislation
  - Build and pilot a prototype of the “technical system” foreseen by the SDGR
- A single infrastructure used by all pilots
  - eIDAS, eDelivery etc, CEF/ISA BBs
  - Development of Common Components for pilots
- Sustainable pilots in terms of
  - Legal validity through existing and emerging EU legislation
  - Governance of operations in specific implementation communities
  - Lifecycle Management of BBs

A MORE FOCUSED PROJECT

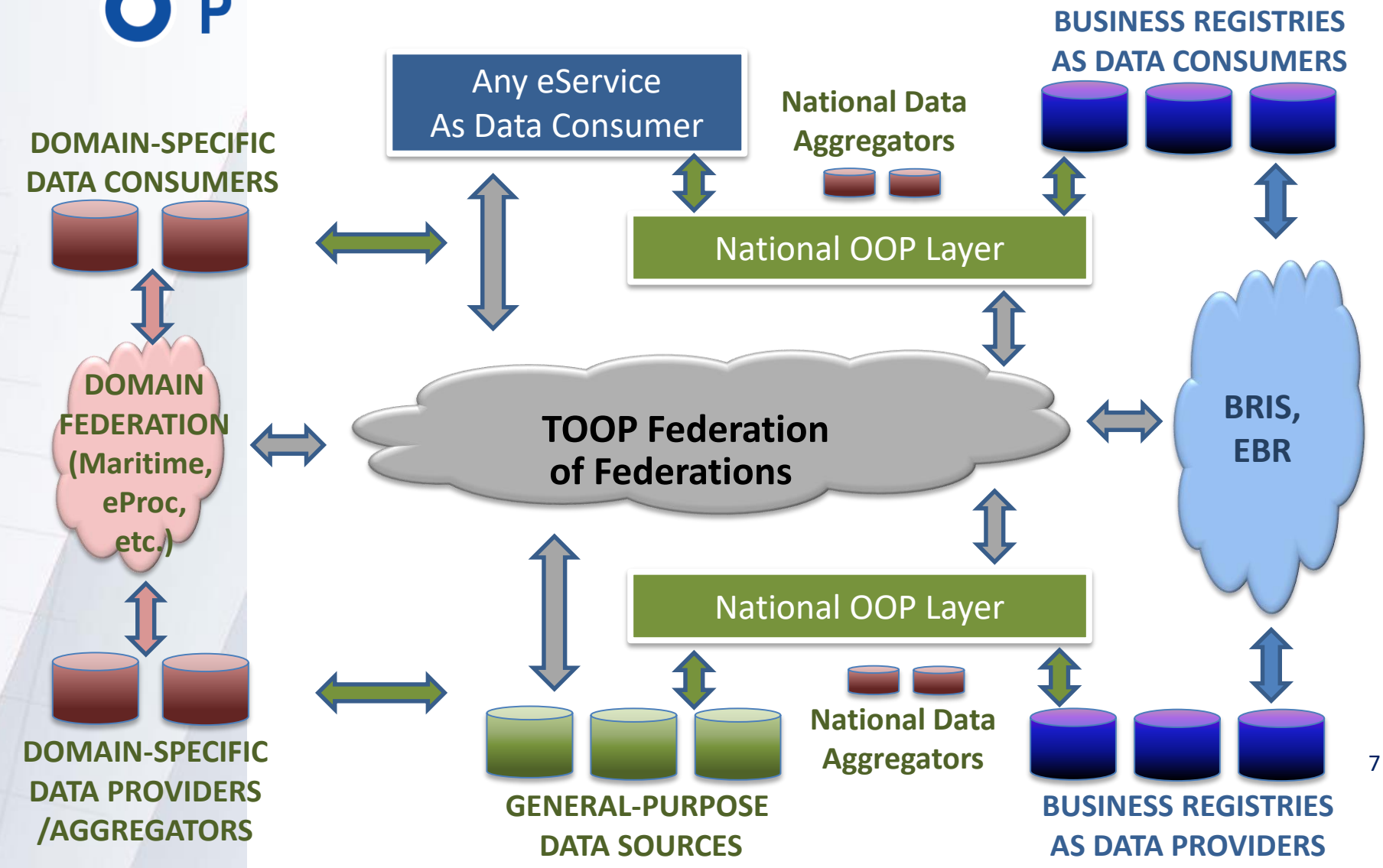
The national OOP case



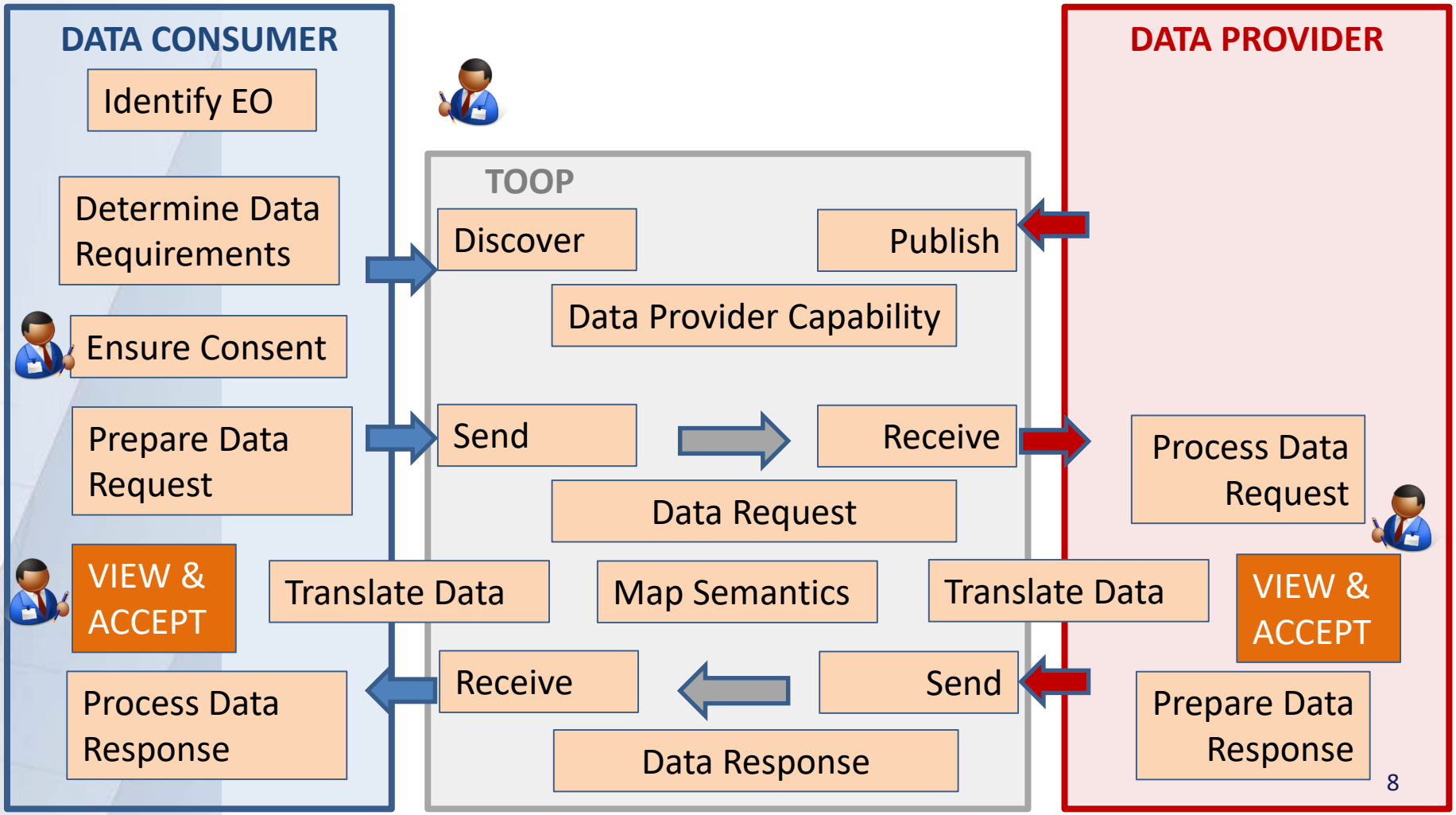
The cross-border OOP case (simplified)



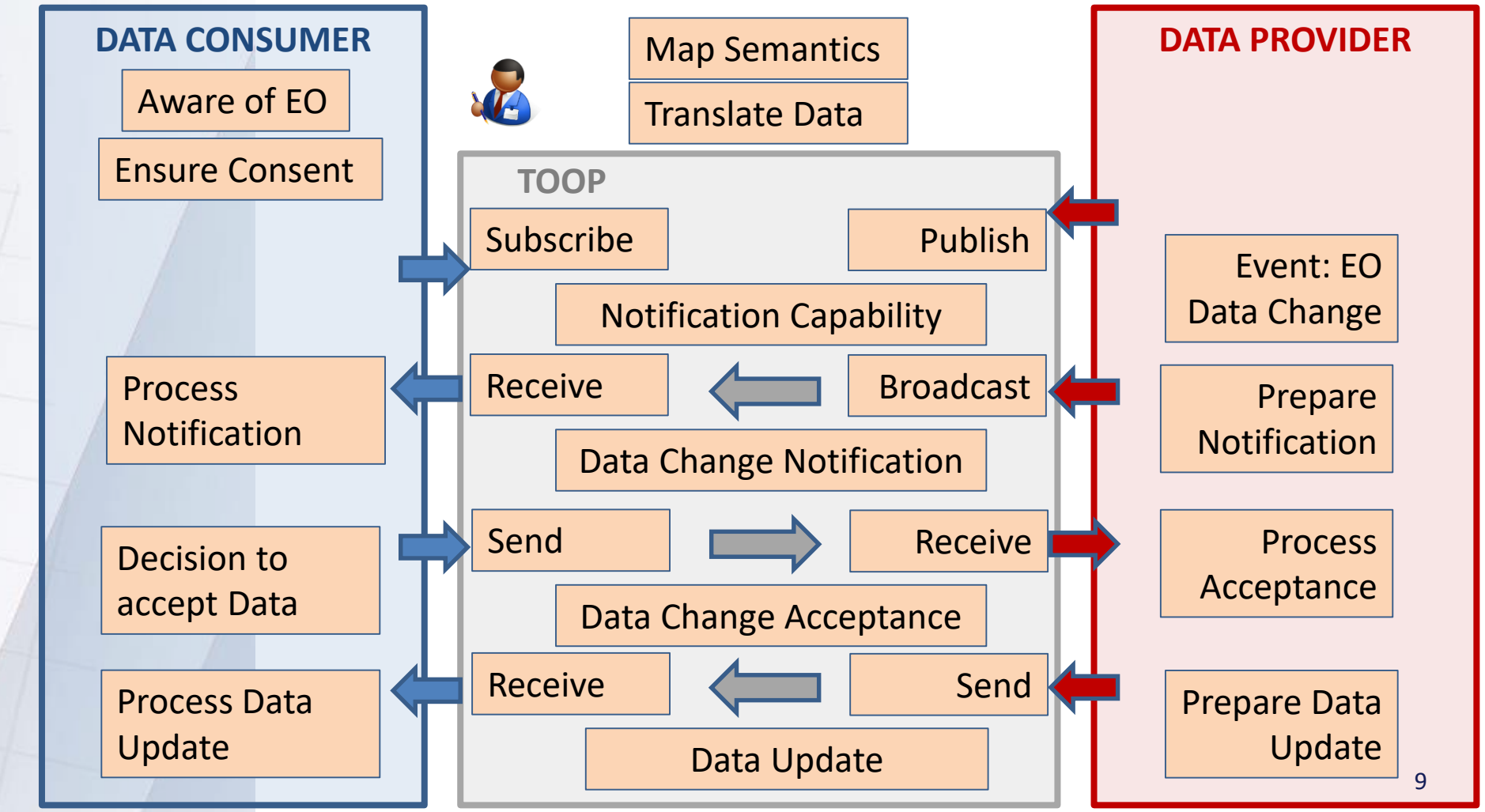
How TOOP Pilots fit into the big picture



Baseline Scenario: Simple pull of data



Extended Scenario: Notify and push



Re-use and enhance existing cross-border EU infrastructure

DATA CONSUMER

Identify EO

Request EO Attributes

Request Company Data

Ensure Consent

TOOP CEF, ISA

eIDAS infrastructure

Additional Attribute Discovery, Mandates modelling etc.

Semantic mapping (e.g. eCertis)

eDelivery infrastructure

OO profiling of Message Exchange, Dynamic Discovery etcetc.

DATA PROVIDER

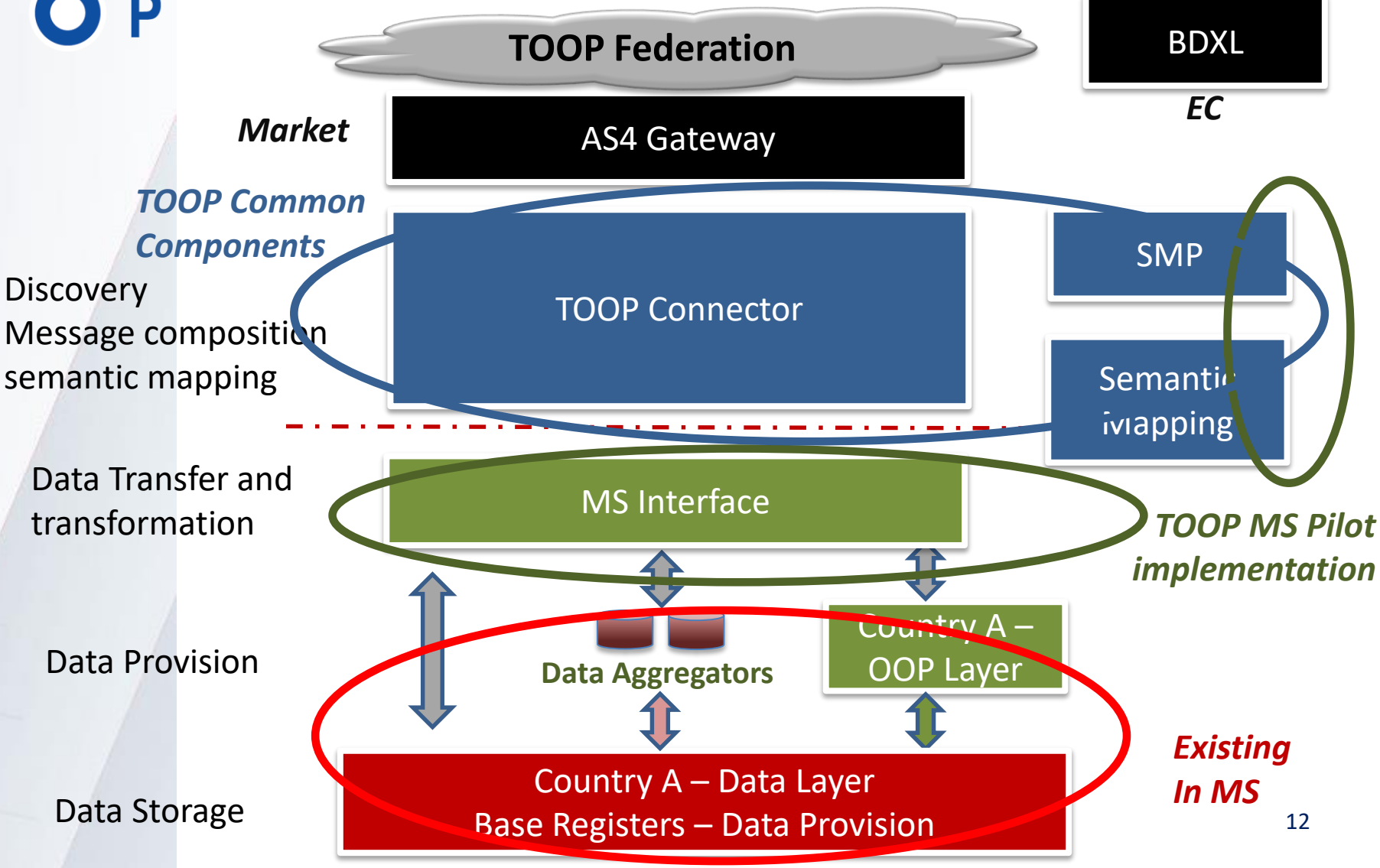
Provide EO Attributes

Provide Company Data

Issues with Business Data

- Contain personal data in some cases
- Openly available in some cases (e.g. Business Registers) without prior consent
- May not be provided free of charge
- Consent and preview depending on national/EU law – applicable in some cases

High-level Implementation architecture (DP view)

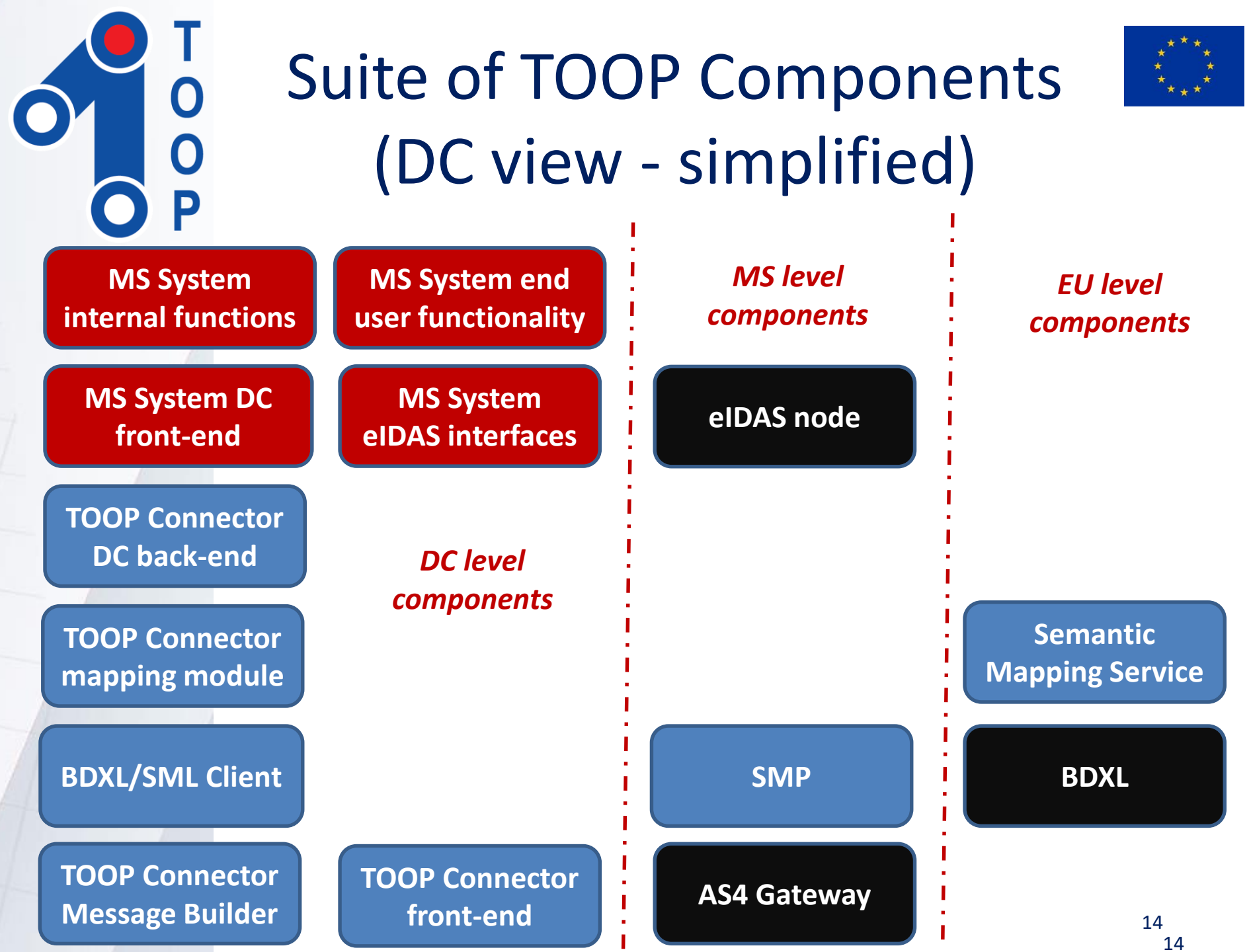


Implementation steps for the backbone scenario (DC view)

Attribute Exchange

- **Identification over eIDAS** — EO is identified through eIDAS-based authentication. DC retrieves attributes (minimum and voluntary set)
- **DC Data Requirements** — DC determines that certain data elements are needed (MS-side request)
- **Data Trans-formation** — The MS data set of the DC data requirements is transformed into a TOOP-compliant data set
- **Data Discovery** — DC discovers whether the data required exists in the DP country
- **Message Composition** — A TOOP-compliant message is constructed to request required data
- **Message Dispatch** — The TOOP-compliant message is sent to the DC side Gateway, which sends it to the DP side Gateway

Suite of TOOP Components (DC view - simplified)



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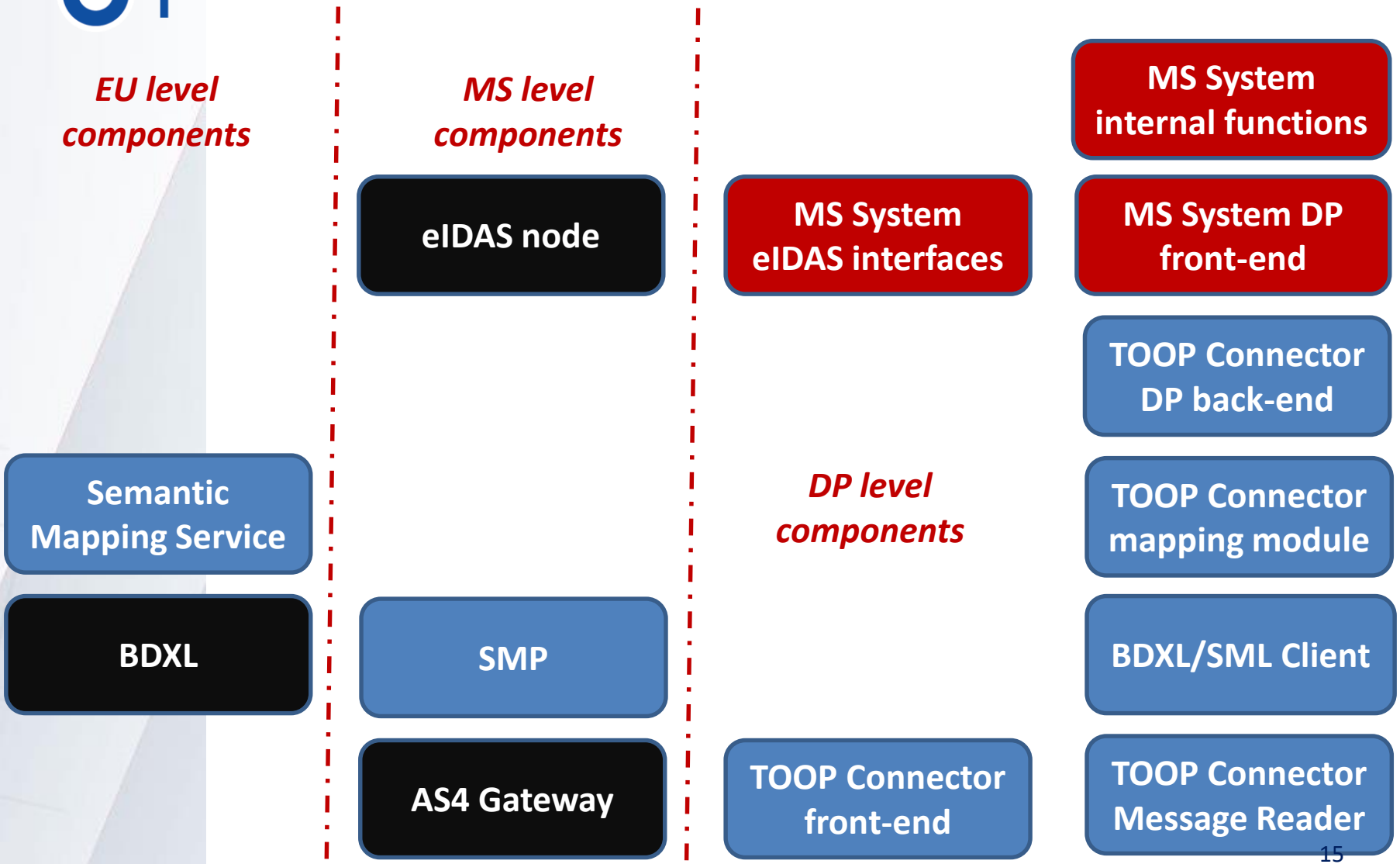
Suite of TOOP Components (DP view - simplified)



What should be ready when

- Feb18: End-to-end lab environments
  - All components even as stubs, integrated in the lab environment
  - Capability for a mock-up flow
  - Possibility for a demo at the Mar18 review
- Common components v1 ready, integrated in testbed
- Jun18: End-to-end piloting environment
  - Components rolled out in the MS
  - Not full functionality, but real
  - Pull only
  - Trust model not fully implemented

DC and DP capability implementation in the MS

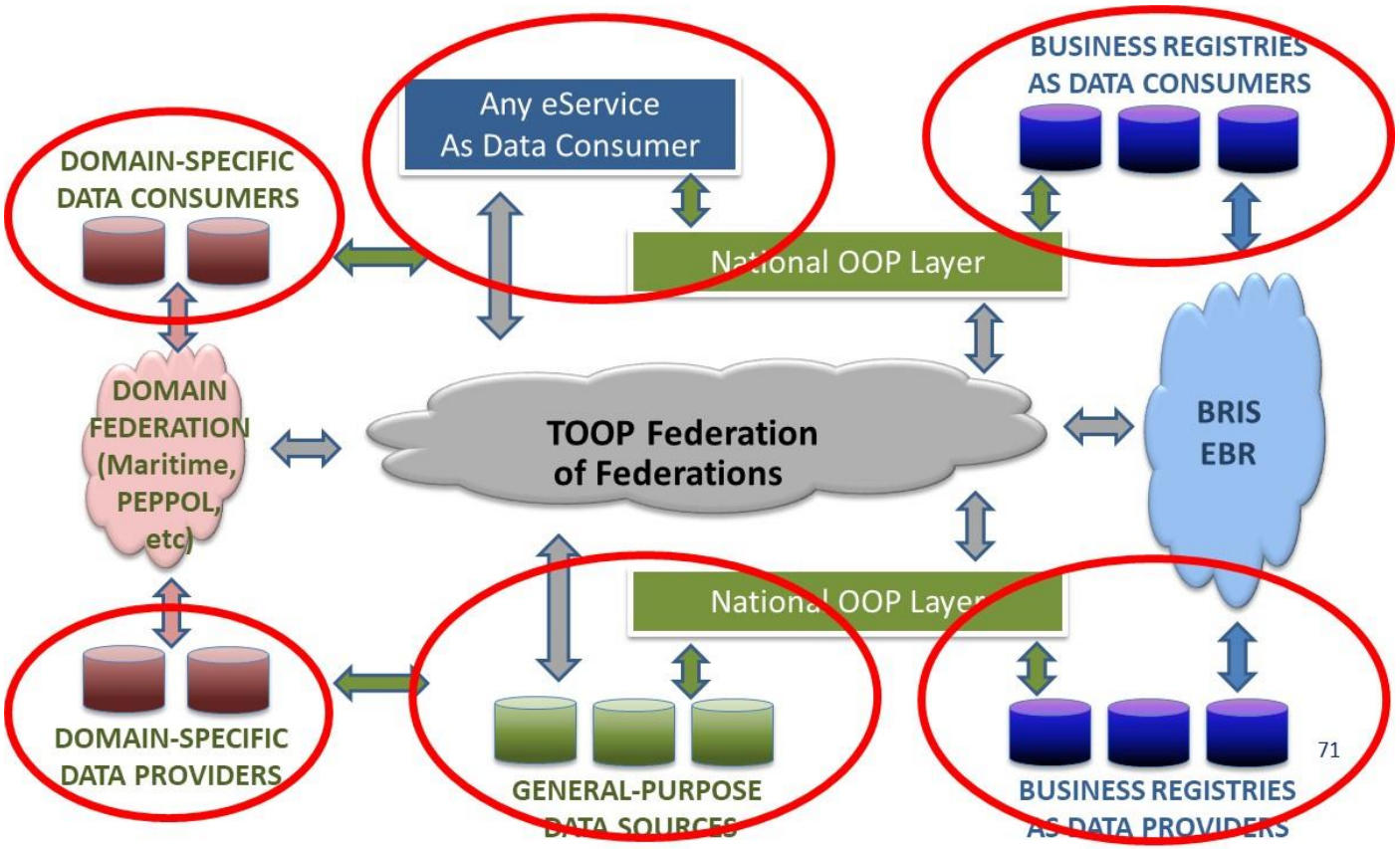
MS System internal functions

MS System end user functionality

MS System DC front-end

MS System DP front-end

MS System eIDAS interfaces



Inventory of DC and DP commitments – all MS

- Work in progress

	TOOP PILOTS / USE CASES	DATA CONSUMER Commitment of Member States																	
		AT	BG	DE	DK	EE	FI	GR	IT	LV	NL	NO	PL	PT	RO	SE	SI	SK	TR
1	Cross-border e-Services for Business Mobility	yes		yes	no			yes	yes		yes	yes		yes	no	yes	yes	no	tbc	9
1.1	eProcurement - ESPD	yes		yes				yes	yes					tbc					
1.2	Licenses and permisssions	yes							yes								yes		
1.3	Company Data and Mandates								yes		yes	yes				yes			tbc
2	Connected Company Data	yes		tbc	no	tbc		yes	yes		tbc	yes	yes		yes	yes		no	tbc	7
2.1	BR data provision, pull mode and push mode											yes							
2.2	BR to BR - branch registration, accounts etc	yes		tbc				yes								yes			tbc
3	Transport and Logistics		yes		yes	yes	yes	yes	yes	yes		yes								8
3.1	Online Ship and Crew Certificates		yes		yes														

	TOOP PILOTS / USE CASES	DATA PROVIDER Commitment of Member States																	
		AT	BG	DE	DK	EE	FI	GR	IT	LV	NL	NO	PL	PT	RO	SE	SI	SK	TR
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1.2	Licenses and permisssions	yes							yes								yes	yes	tbc
1.3	Company Data and Mandates							yes	yes		yes					yes		yes	tbc
2	Connected Company Data	yes		tbc	no	tbc		yes	yes		yes	yes	yes		yes	yes		yes	tbc	9
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3	Transport and Logistics		yes		yes	yes	yes	yes	yes	yes		yes								8
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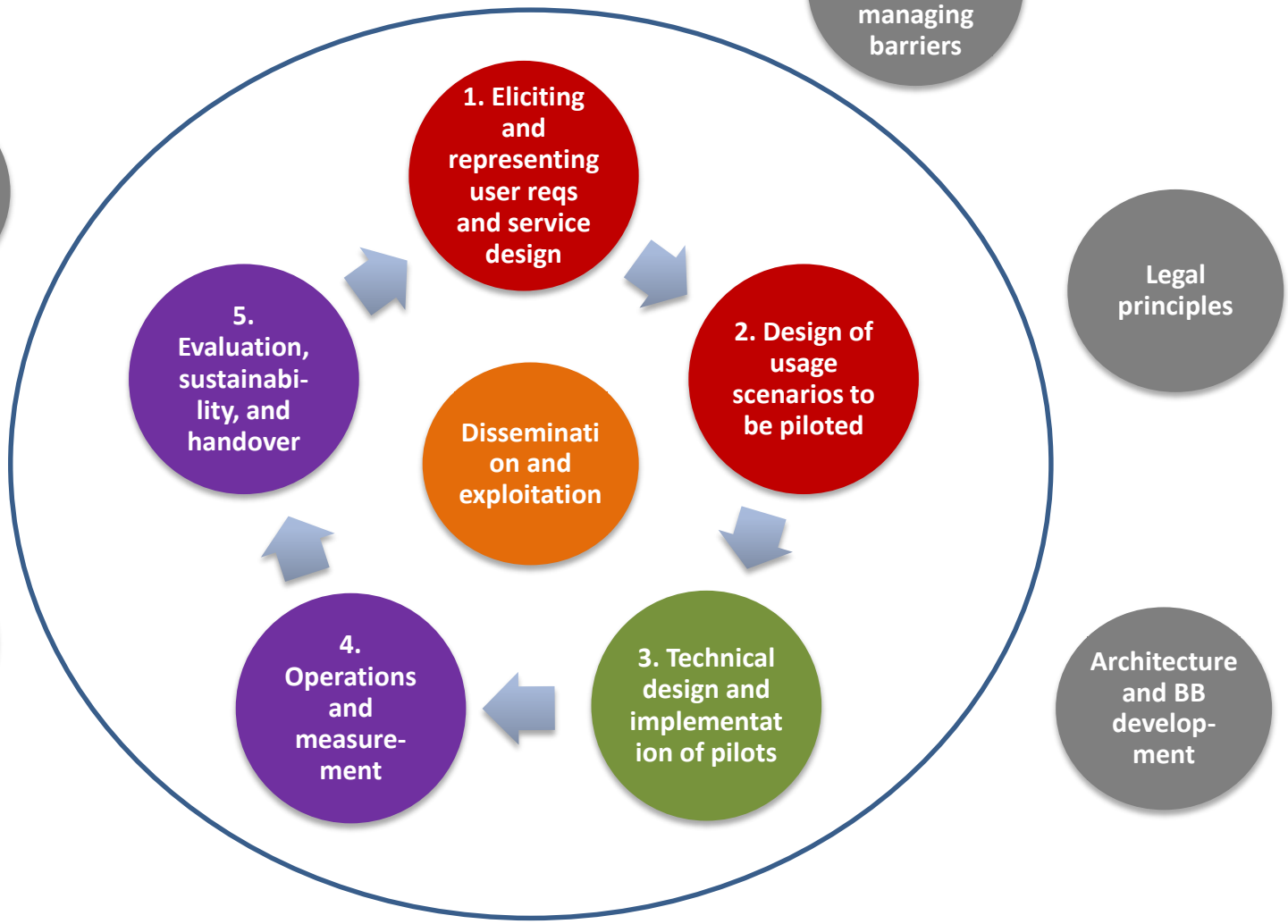
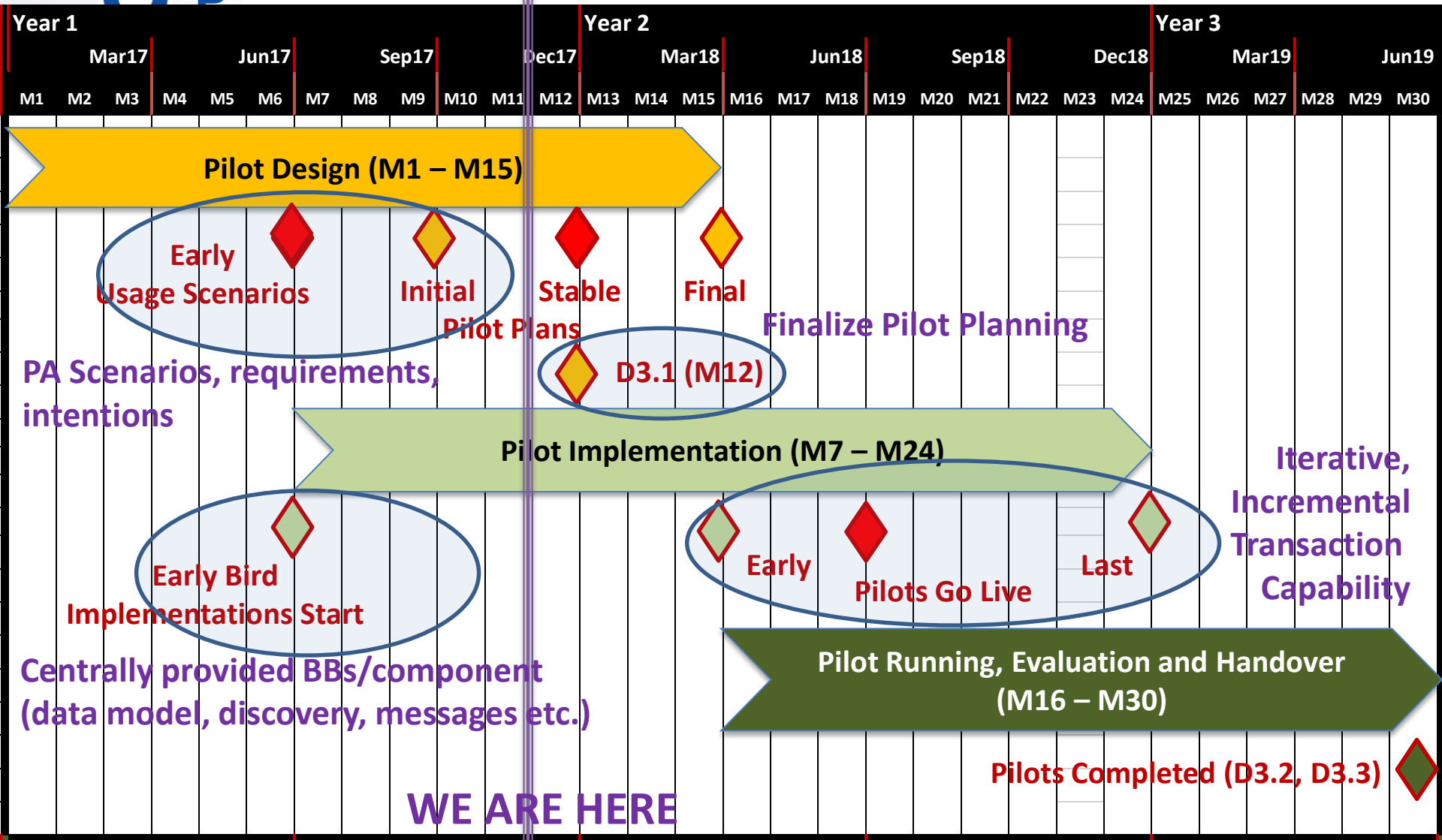
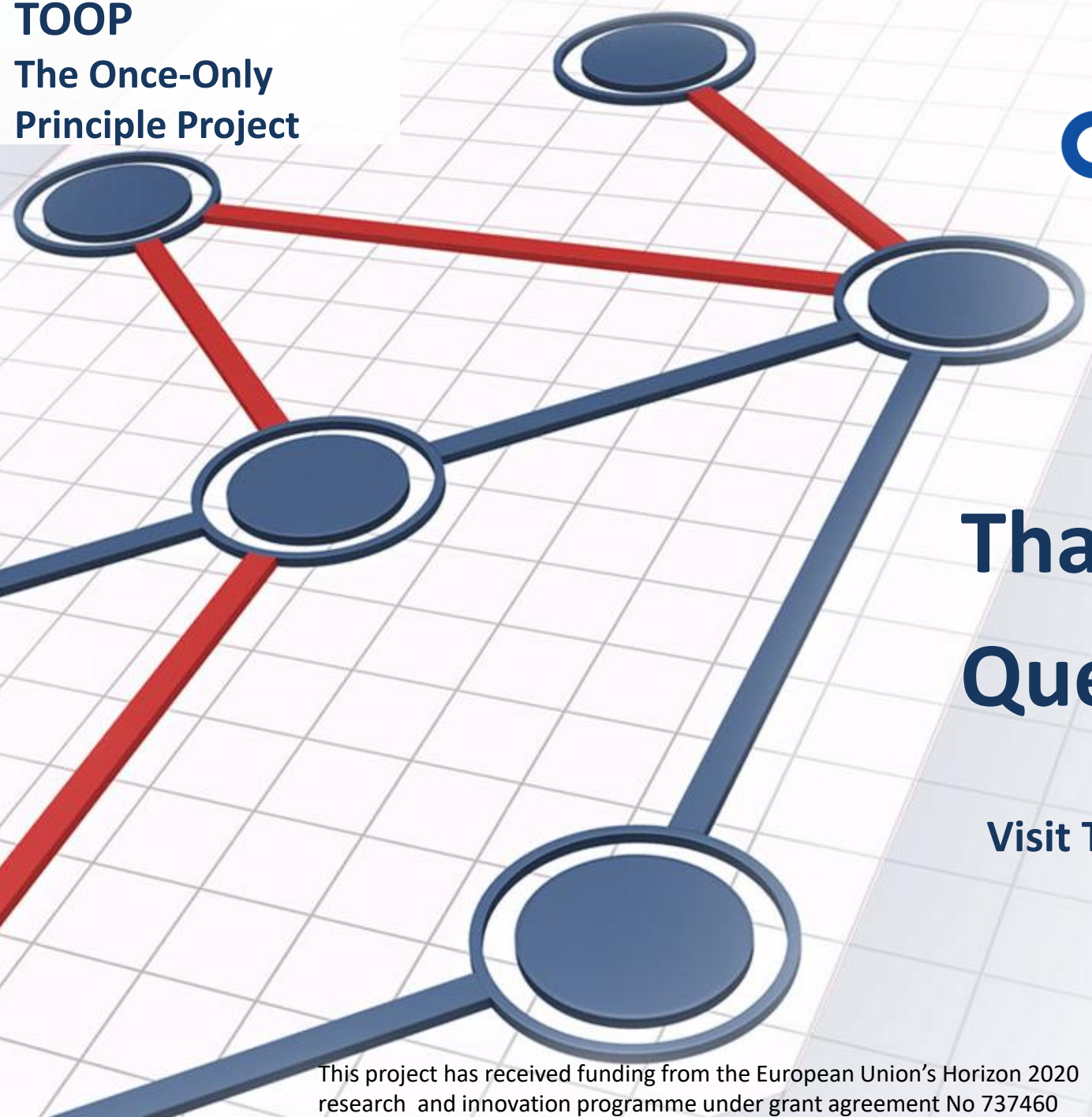
Piloting Lifecycle



Pilot Milestones and Timeline





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Thank you!

Questions?

Visit TOOP: toop.eu

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