



DPP-as-a-Service

Challenges and Opportunities

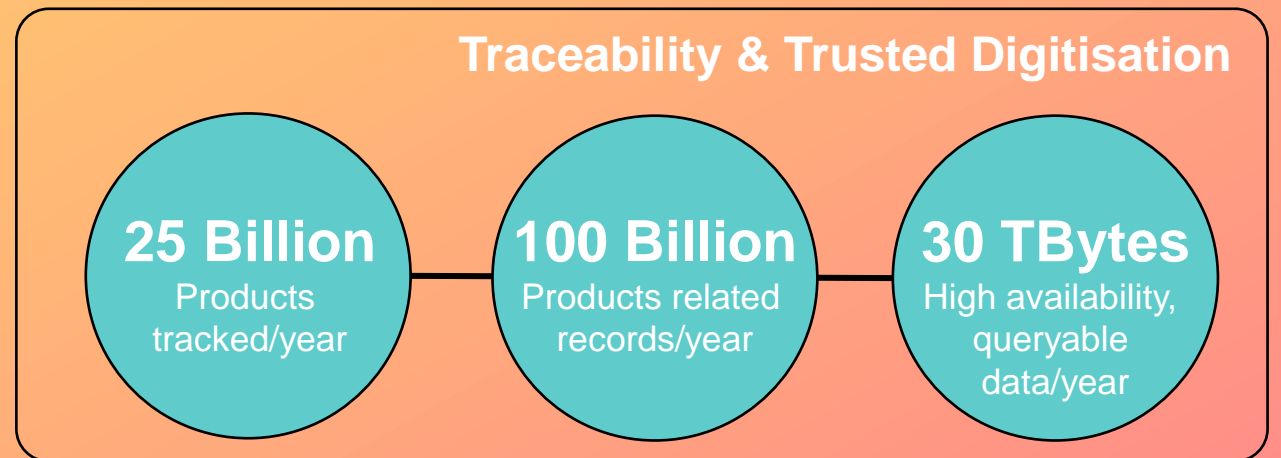
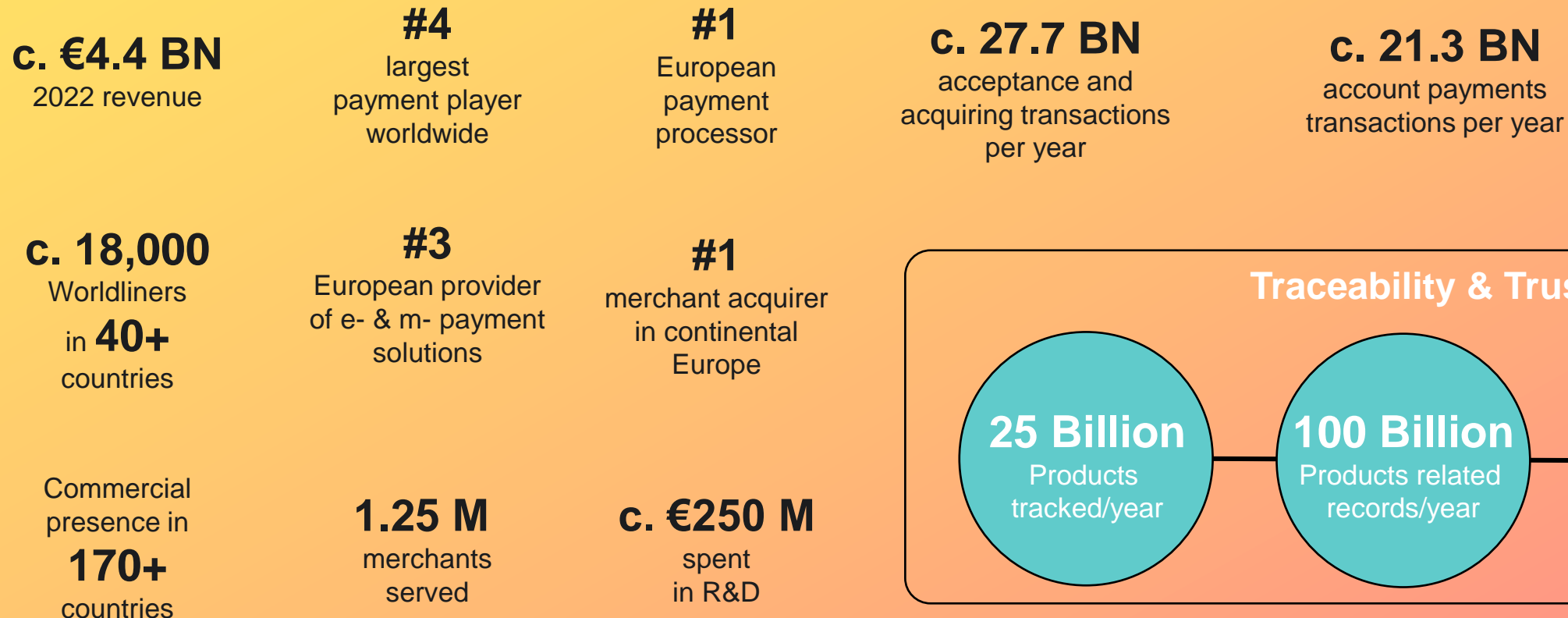
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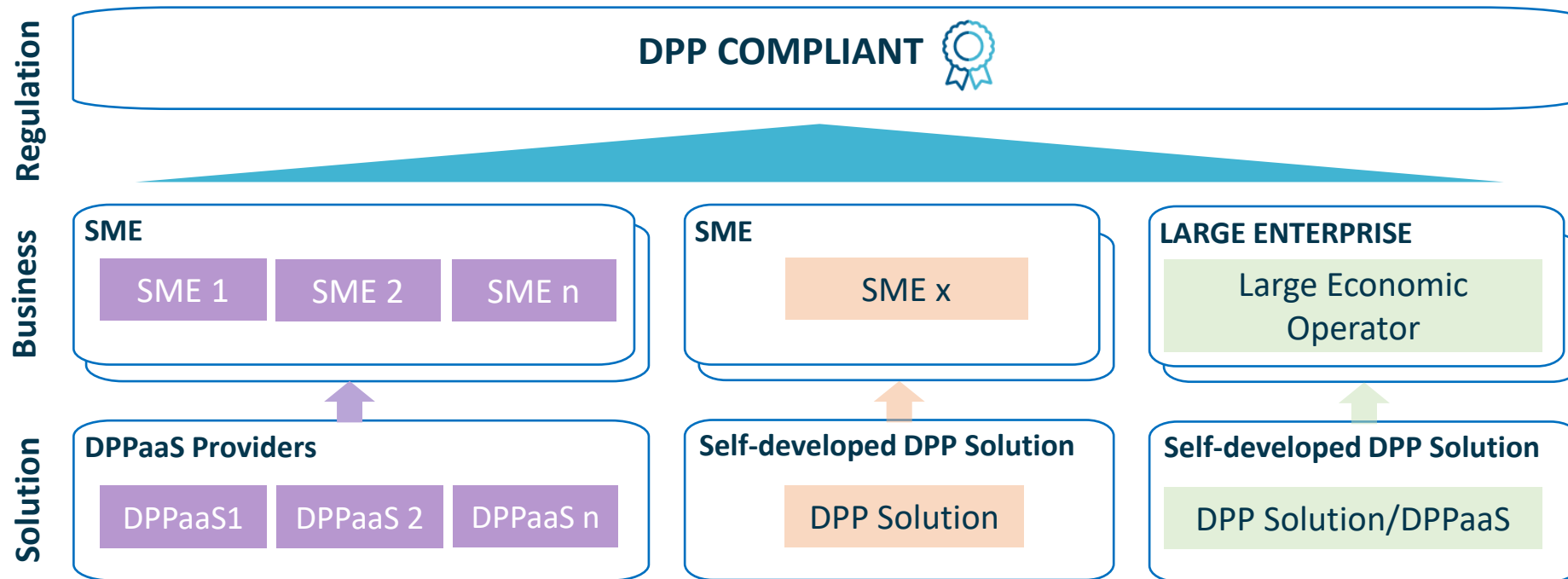
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Our truly global capabilities



A simplified DPP ecosystem

SMEs need flexible and low-cost DPP solution and services

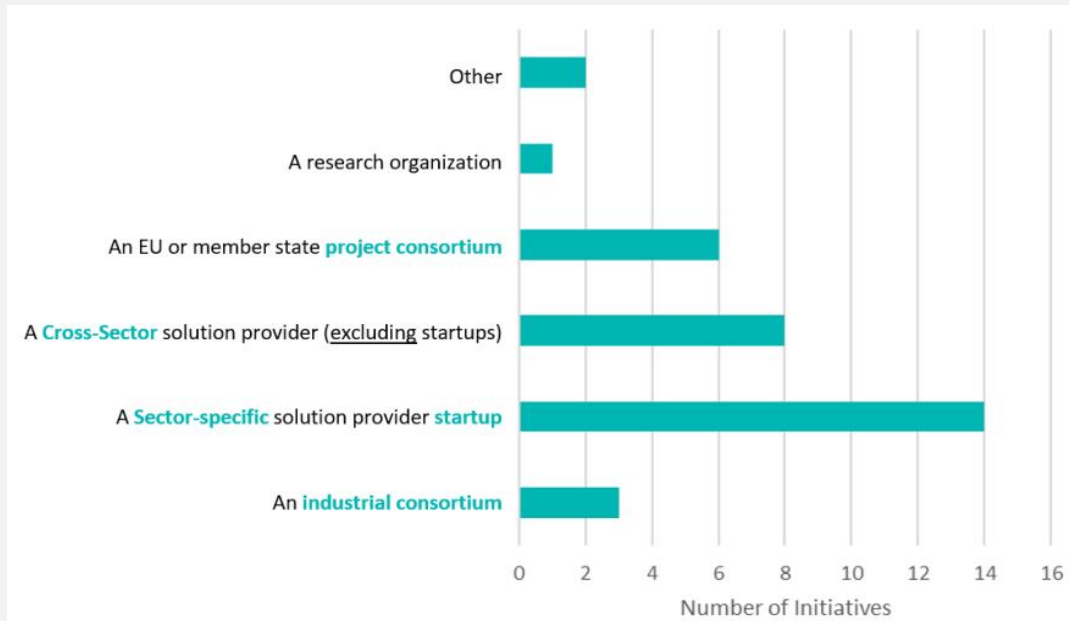


DPP-as-a-Service providers are third party actors who may assist SMEs in any steps related to the collection, assembly and formatting of DPP information, the issuing of the DPP itself and/or hosting of the DPP data.

Current DPP-as-a-Service market status

- 98 DPP-related initiatives have been benchmarked by CIRPASS
- There exists an emerging market for DPP-as-a-Service, broadening the choices for SMEs
- Expected competition between DPP-as-a-Service providers will be beneficial for SMEs

Stakeholders leading the development of DPP initiatives



List focused initiatives analyzed by CIRPASS

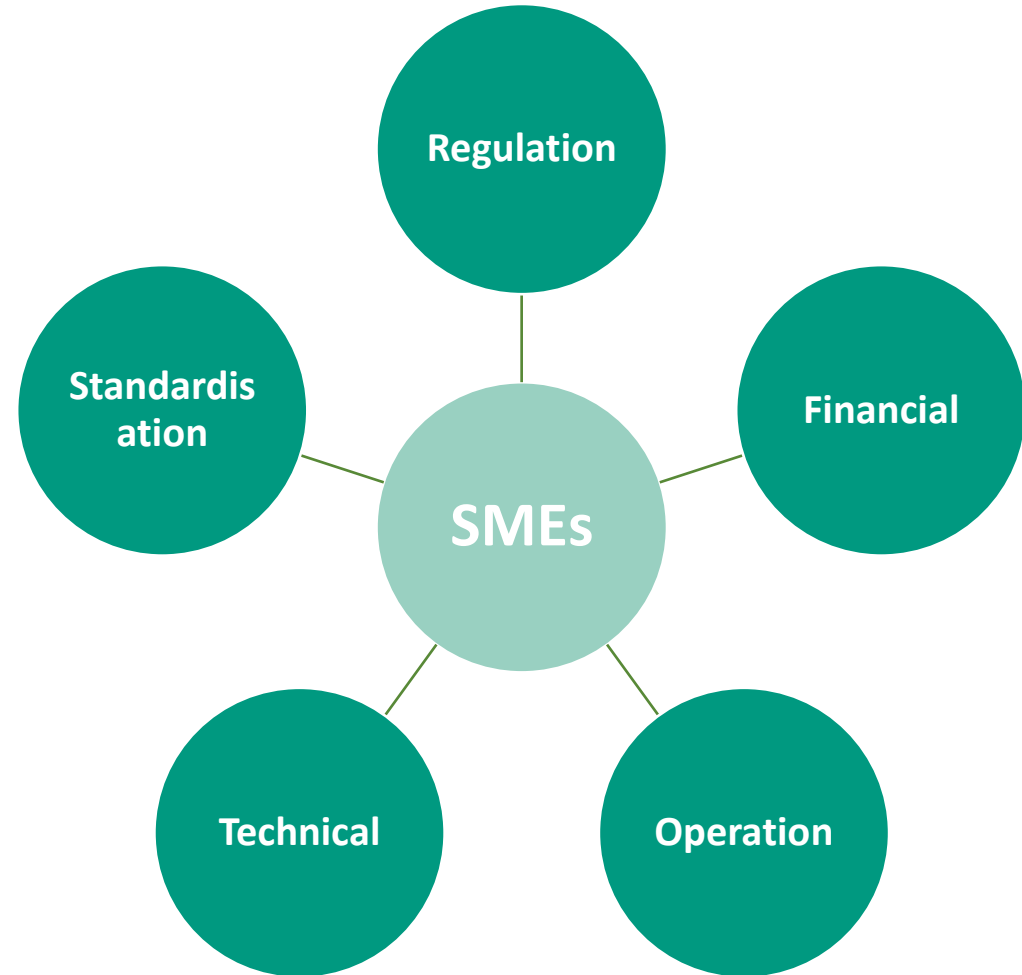
ID	Initiative short name	ID	Initiative short name
1	atma.io	17	itmatters
2	BP	18	Peppol
3	Wordline B-TraaS	19	QI-Digital
4	CircThread	20	RCS BP
5	circular.fashion	21	RR
6	CYCLANCE	22	Worldline TCS
7	DDCC	23	TextileGenesis
8	DIBICHAIN	24	Tings
9	DigiPrime	25	Tokenized Distributed Ledger
10	DNV	26	Toxnot
11	EasyBat	27	Worldline TPD
12	EON	28	TRACE
13	EPEAT Ecolabrl	29	TRICK
14	eReuseDPP RR	30	TrusTrace
15	FEDeRATED	31	Vine
16	GTS	32	ZVEI DPP4.0

illustration

https://cirpassproject.eu/wp-content/uploads/2023/03/CIRPASS_Benchmark-of-existing-DPP-oriented-reference-architectures.pdf

SMEs face many practical constraints

- Regulation for DPP still evolving
- Implementation costs + training
- Lack of awareness and IT skill
- DPP solution complexity
- Lack of knowhow on existing standards and how to use them



Feedback from interviews with stakeholders

SME economic operators

- SMEs recognise the importance of circularity
- Supply chain transparency and traceability are essential
- DPP perceived as having minimal or zero business benefits
- Consumers' purchase decision driven by design and quality, less by sustainability



Potential DPP-as-a-Service providers

- Potential service providers are quite familiar with DPP concept
- Advisory role is key success factor next to DPP solutions
- DPP-as-a-service can help lower DPP costs and bring business benefits to SMEs
- New business models to emerge from circular economy



Our attempts to estimate DPP costs for SMEs

Combining insights gained from interviews with industrial expertise from CIRPASS partners has led to a high-level overview of qualitative cost elements for both SMEs and DPP service providers.

COST ELEMENTS	SME	SME	DPP Service Provider
	Do-it-yourself	Delegated solution	Delegated solution
Labeling	optional	optional	
	optional	optional	
DPP-a-a-Service		x	
Development	x		x
	optional		x
	x		x
	x		x
	optional	optional	
Operation	x		x
	x		x
	x		x
	x		x
	x	x	x
	x	x	x
Data Integration			
	x	x	
Certification			
	x	x	
			x
Project management			
	x	x	x
	x	x	
	x		

The benefits of DPP implementation for SMEs

- DPP implementation encourages and facilitates SMEs to reexamine their data collection practices and relationships with suppliers
- Providing end consumers with sustainable product data helps SMEs to differentiate from competitors, this may help foster brand loyalty
- Connecting with other businesses in their networks through the process of up-skilling on DPP and DPP implementation may enable collective purchasing of solutions
- Potential new business models are now imaginable for SMEs for example repairs and upgrades, collecting used products, refurbishing, remanufacturing, second-hand market platforms
- Considering the expected scaling effects of DPP-as-a-Service offerings, RFID devices and infrastructure, the savings in overhead costs will bring significant financial gains that will balance DPP related costs.

Some recommendations

- Alignment between EU member states
- Providing test cases and pilots
- Hands-on training and widespread awareness
- Helpdesk for SMEs
- Facilitating data collaboration with suppliers
- Facilitating a clear DPP-as-a-Service offering
- Establishing common understanding and standards
- Stimulate adoption of standards by software vendors
- Legal clarity and funding Support



Download now

CIRPASS Report

A study on DPP costs and benefits for SMEs

February 2024

Download & consultation:

<https://cirpassproject.eu/project-results/>



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