CoE DSC

Landscape Scan:
Dutch Data Sharing Initiatives & Service Providers

Initial trial version, July 2024

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This is a trial version. Please reach out if the scan misses your organisation or if you notice an inaccuracy in your placement

Initial trial version – your feedback is valuable to us for future iterations

This is the first version of the Landscape scan for Dutch Data Sharing Initiatives, that CoE-DSC is planning to update and publish periodically.

As such, it serves as an initial documentation which will progress in the upcoming versions, based on the input from data sharing initiatives and service providers, accompanied by desk research.

To provide information about your initiative or service use the link or QR on the left, in case of questions feel free to reach out to us via info@coe-dsc.nl, or by contacting authors.

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Go here to provide input

If your initiative/organisation is not yet part of the scan or plotted incorrectly, please fill in the survey to provide us with the needed information.

Please, use the following link:
https://forms.office.com/e/hMMY6cBmb3

Or scan the QR below:

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Reading Guide

Audience

The intended audience for this report includes all parties involved in various Dutch data sharing initiatives, such as service providers, data consumers, and data providers, as well as anyone professionally interested in the topic of data sharing.

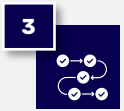
Context

What is the Landscape Scan?

- The scan of the Dutch data sharing landscape made by CoE DSC is a 'living' document that depicts existing Dutch data sharing initiatives (DSIs), service providers (SPs) in various sectors.
- Data sharing initiatives are plotted based on their maturity as well as their sector distribution. On top of that, basic information about these initiatives is gathered to provide insights on the Dutch data sharing landscape.
- A list is compiled to collect basic information about service providers.

Why is it needed?

- Finding Dutch data sharing initiatives is challenging with no holistic overview currently available (e.g. IDSA Data Spaces radar misses emerging Dutch initiatives).
- Mapping out initiatives is important for the data sharing community to (1) monitor developments in the Netherlands, (2) have a clear overview to be able to connect with each other and (3) understand maturity levels to design strategies and interventions, (4) garner policy and support to increase proper data sharing for creating value, and fostering collaborations across domains.
- This activity will further serve as input for CoE-DSC workstreams, e.g. Data Spaces Interoperability Compass & use cases.



What was the procedure?

- This examination is a follow up of CoE-DSC Service Provider research of 2023.
- In 2024, a survey was shared with the CoE-DSC community to collect information about data sharing initiatives and service providers. In addition, desk research was conducted to enrich the findings of this landscape scan.
- This report adheres, where possible, to European definitions provided and used by DSSC, IDSA, and Gaia-X. For more information about methodology and definitions see Appendix 2.

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Management summary

Key Findings

1 Data Sharing Initiatives (DSIs)

Statistical highlights

- 47 DSIs (17 self-reported, 30 desk-research)
- Prevalent sectors are Healthcare (12), Finance (7), Public Services (7),
- Most DSIs (19) are in the Scaling stage, least in Preparatory (4) and Exploratory (5).
- 70% of initiatives have national focus
- Almost 80% of initiatives rely on governmental and/or sectoral funds
- 80% of initiatives focus on cross-domain interoperability topics (with 52% exploring both hard and soft infrastructure interoperability)

Key takeaways

A1 *Observed growth:*
Most DSIs are seen moving towards more mature stages of development. Most have a national focus, but sectors like logistics & mobility are inherently internationally focused.

A2 *Rising activity in all parts of economy*:
The scan identified DSIs across all 13 major sectors, indicating rising DSIs activity throughout the NL economy.

A3 *Cross-domain interoperability gains traction:*
Cross-domain interoperability focus is observed in DSIs from the implementation stage onwards, incl. both soft and hard infra; new DSIs strive to be interoperable by design

A4 *Attention needed to business models:*
80% of DSIs rely on governmental and sectoral funding, raising attention to the topics of financial resilience and cross sectoral business models

2 Service Providers (SPs)

- 84 SPs (23 self-reported, 61 desk-research)
- 55% of SPs (64 out of 84) provide more than one of the six types of service.
- 37% offer Trust & Digital Identity services, 36% Connectivity, 56% Cloud, 26% Analytics (AI & PETs), 12% Legal, and 15% Other
- 58% – 42% distribution between generalists and sector focused service providers

B1 *Service categories coverage is disproportionate:*
Service providers typically offer more than one category of services. Cloud were found to be most prevalent, followed by Trust, Security & Digital Identity, then Connectivity services, meanwhile Legal Expertise services are being the least common

B2 *Sectoral coverage needs to be investigated further:*
The trend for SPs is to focus on multiple sectors. However, it is unclear whether all sectors are sufficiently covered by all service categories.

Abbreviations: DSIs – Data Sharing Initiatives, SPs – Service Providers, PETs – Privacy Enhancing Technologies, AI – Artificial Intelligence, DI – Digital Identity

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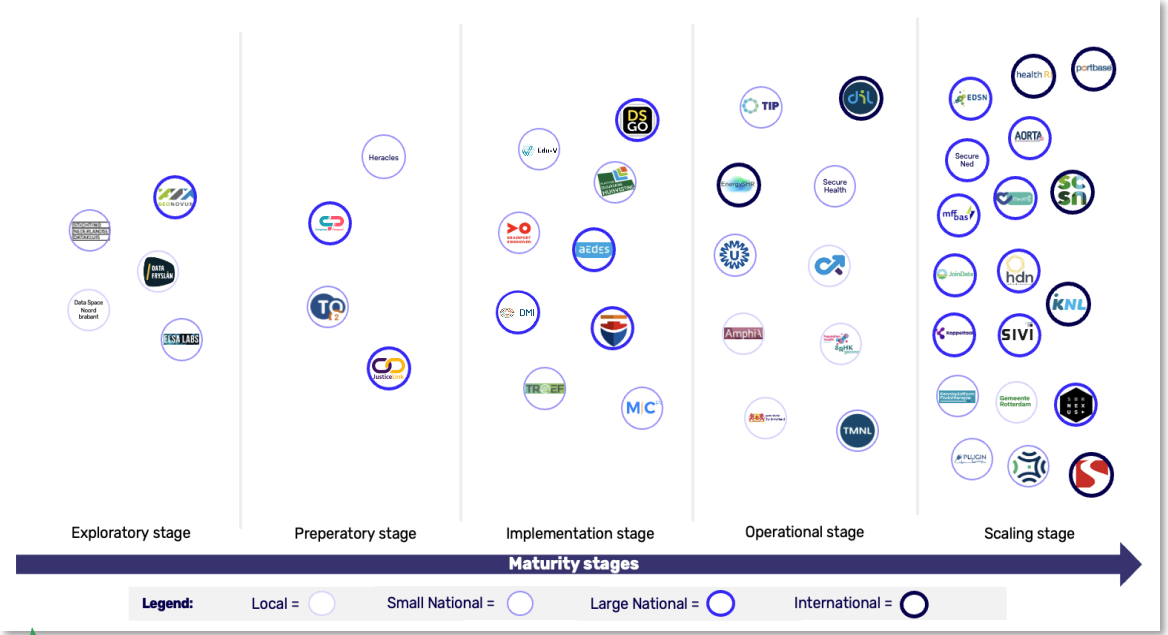
CoE DSC

We found 47 Dutch DSIs, that are moving into more mature stages, expressing a growing activity in the DSI landscape

Maturity Scan Dutch Data Sharing Initiatives



***Please fill in the survey or contact us if you are not represented here or feel your position needs change**

Description

- The Landscape scan identified 47 Dutch data sharing initiatives (DSIs), of which 17 through self-reporting, 30 through desk-research.
- 'Maturity stages' refer to developmental stages, based on DSSC and IDSA documents*.

Key takeaways

- Most initiatives (33) have a national scope.
- Most DSIs (19) are in the scaling stage, least in Preparatory (4) and Exploratory (5).
- The most mature DSIs are in healthcare, finance and logistics.
- Compared to previous internal overviews by CoE-DSC, we identified more DSIs, and see DSIs moving into more mature stages of development.

Learnings for next version

- We expect more than 47 DSIs. We aim to catch more through self-reporting in next iterations.
- When self-reporting, DSIs tend to be optimistic about their maturity stage, thus we will add more detailed self-assessment instructions.

Source: CoE-DSC analysis; **Notes:** *see DSCC, IDSA or Appendix 2

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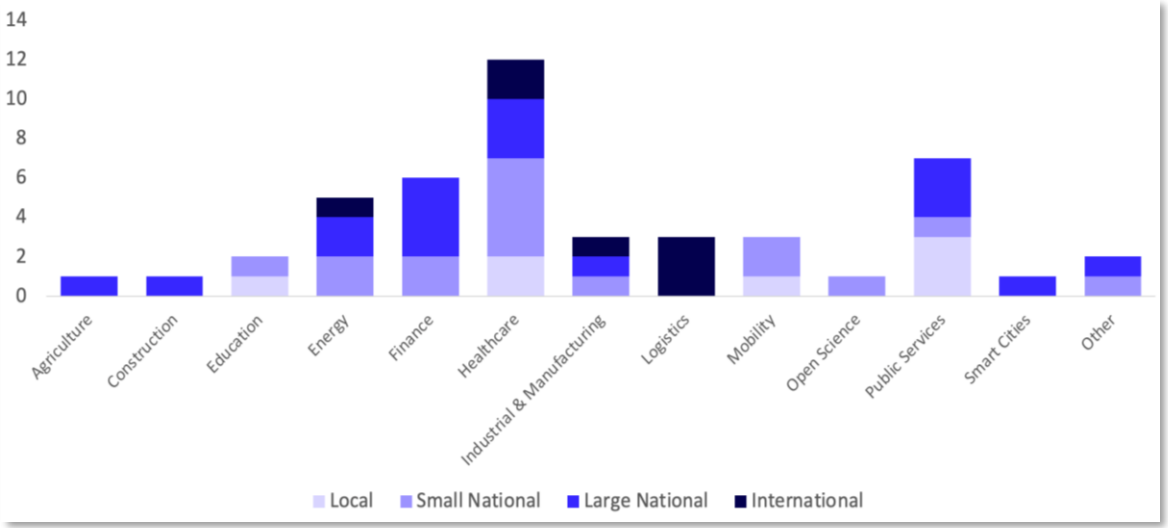
The scan identified DSIs across all 13 major sectors, indicating rising activity throughout the Dutch economy

Distribution of identified Dutch Data Sharing Initiatives per sector



Percentage of data sharing initatives per Size category

Local	Small national	Large National	International
15 %	34 %	36 %	15 %

Source: CoE-DSC analysis; ***Note:** sector categorisation is inspired on EU Data Space sectors, see also Appendix 2.

Description

- The 47 DSIs are distributed over 13 sectors* and plotted based on their current reach.
- Small and large national initiatives are defined as having < or >= 50 participants.
- The 'Other' category consists of initiatives self-reporting from Media, and Cybersecurity.

Key takeaways

- Most DSI's were found in Healthcare (12), Finance (6), Public Services (7), and Energy (5).
- The sectors with the fewest reported initiatives include Agriculture, Construction, Open Science, and Smart Cities,
- 70% of initiatives are active on the NL scale.
- We found most regional initiatives in healthcare and public services. Logistics is oriented internationally.
- The scan identified at least one initiative per sector, showing that DSIs are emerging throughout the NL economy.

Learnings for next version

- Measuring the DSI size proved quite arbitrary. Collecting actual number of participants & transactions led to inconclusive responses, which will be improved in the future versions of the scan.

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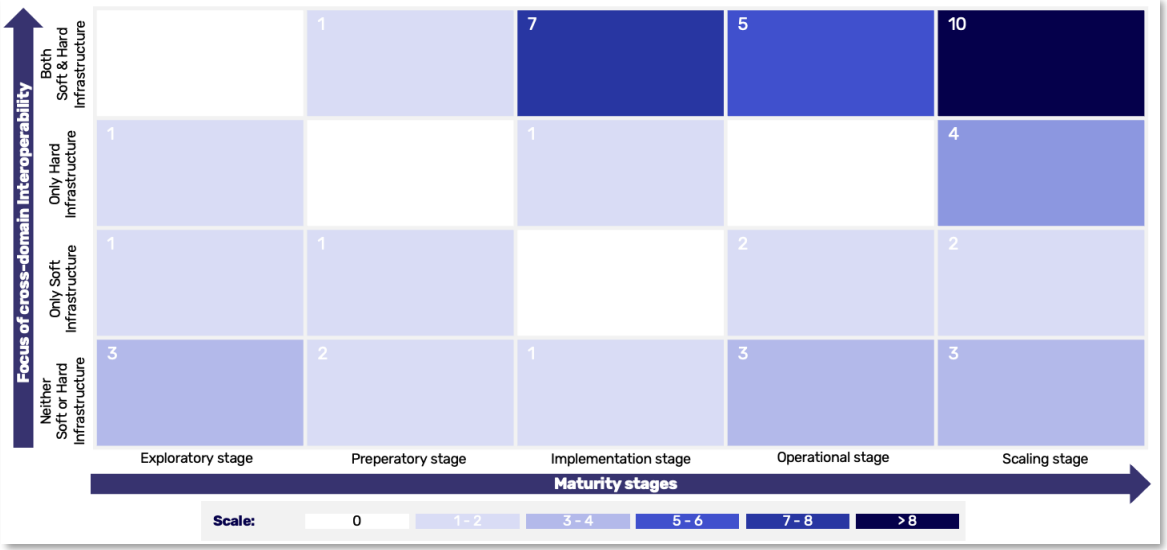
Focus on cross domain interoperability among most DSIs starts in Implementation stage, & covers both soft and hard infrastructure

Heat map cross-domain interoperability focus of Data Sharing Initiatives*



Percentage of DSI's for each Focus of Cross-domain Interoperability Category

Both	Only Soft	Only Hard	Neither
52%	14%	14%	20%

Description

- The heat map shows the cross-domain interoperability focus of the DSIs, plotted against their maturity level.
- We differentiated between a focus on soft (trust framework, legal agreements, business models, etc.) and hard (technical) architecture.

Key takeaways

- The DSIs found typically prioritize cross-domain interoperability across both soft and hard infrastructure, rather than focusing exclusively on one or the other.
- Early-stage initiatives often don't have their cross-domain interoperability focus in soft nor hard infrastructure, but this changes during implementation and later stages.
- Some long-existing initiatives are not yet or only partially focusing on cross-sectoral or cross border interoperability.

Learnings for next version

- We will add more detailed self-assessment on interoperability focus in next iterations.

Source: CoE-DSC analysis; **Note:** *The numbers in each cell correspond to the amount of recorded DSIs showing respective maturity & focus.

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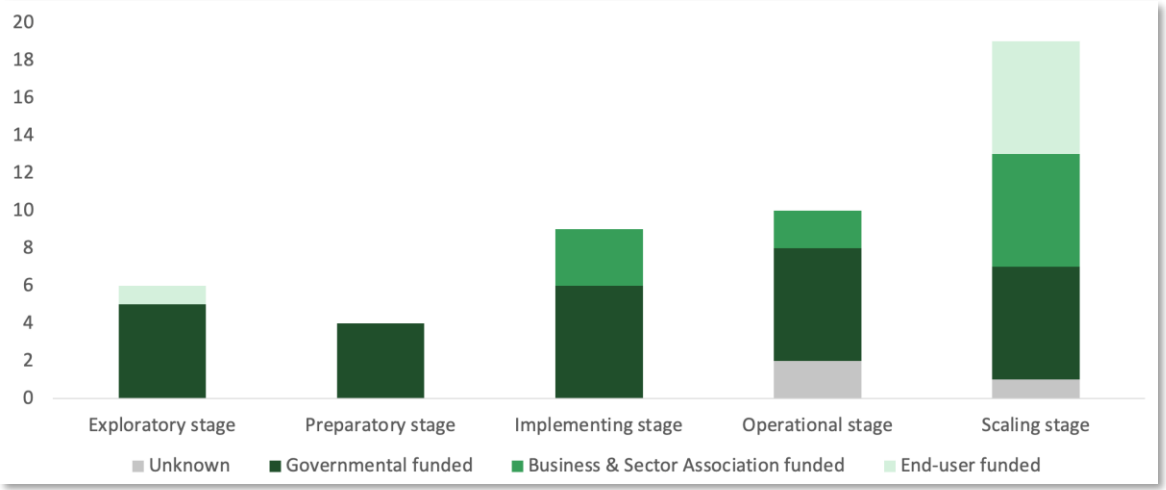
80% of DSIs rely on governmental or sectoral funding, raising attention to financial resilience & (cross sectoral) business models

Dominant Funding Source per Maturity Stage



Percentage of data sharing initatives per Funding Source category

Dominantly Governmental funded	Dominantly sectoral funded	Dominantly End-user funded	Unknown
55 %	24 %	15 %	6 %

Source: CoE-DSC analysis;

Description

Dominant Funding sources for DSIs are:

- (1) governmental or (2) sectoral funds, which can be either one-off subsidies or structural.
- (3) end-users' funding are typically business subscription or transaction fee models.
- (4) for some DSIs funding remained unknown

Key takeaways

- Almost 80% of Dutch DSIs depend on some form of government or sectoral support.
- End-user funding was found exclusively in the scaling stage, with one exception in the exploratory stage.
- For certain sectors, government or sector funding might be a logical and sustainable model. However, for other sectors it might indicate a lack of financial resilience.
- Business models become more complicated in cross-sectoral cases.

Learnings for next version

- In a next iteration of the scan we will add further questions on financial sustainability.

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A new market of Dutch service providers is emerging that offers a broad variety of services for DSIs

Service Providers and their Service Types

*Percentage of Service Providers offering a service type**

1 Trust, Security & Digital Identity	2 Connectivity & Tech Protocols	3 Cloud Infrastructure	4 Analytics: AI & PETs	5 Legal Expertise	6 Other
37%	36%	56%	26%	12%	15%

Description

- We found at least 84 service providers (SPs), of which 23 were self-reported
- SPs are categorised based on the service type(s) they offer. 'Other' services refer to for example consultancy services, catalog providers, data standardisation.

Key takeaways

- The Landscape scan found multiple service providers in each of the six service types.
- 55% of the service providers (46 out of 84) provide more than one of the six types of service.
- Cloud services were found to be most prevalent, followed by Trust, Security & DI services, and Connectivity & Technical Protocols. Meanwhile Legal Expertise is being the least common.
- Compared to a 2023 Service Provider Report by CoE-DSC, the Landscape scan highlights a growing market of service providers for DSIs.

Learnings for next version

- Expanding the service type descriptions could give more insight into the emerging market.

Source: CoE-DSC analysis; **Notes:** * SPs offer more than one service the percentages do not add up to 100%, see Appendix for full SP lists.; Ministries act as eIDAS QTSPs

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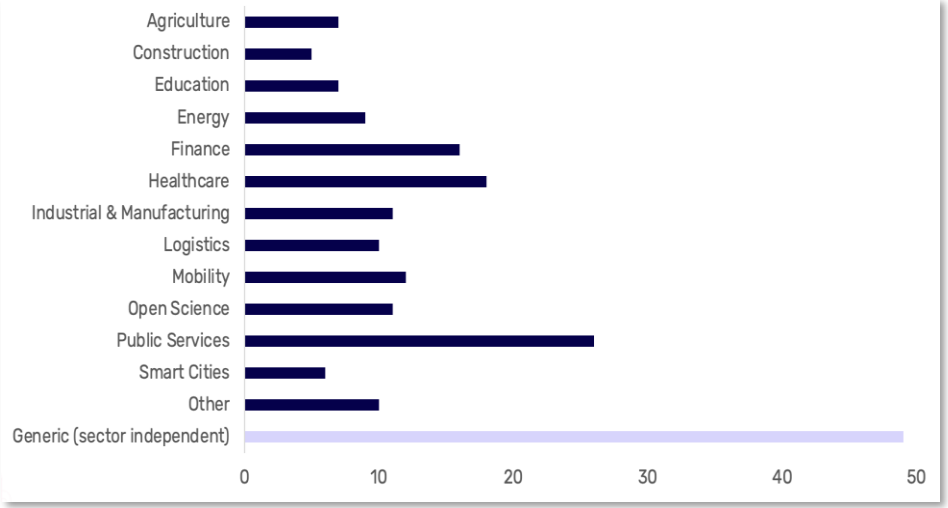
Most SPs are focusing on multiple sectors, but it still remains to be seen if all sectors are sufficiently covered by all service types

Distribution of services across sectors



Percentage of Service Providers by their focus

Generic (sector independent)	Multiple sectors	One sector only
58%	32%	10%

Description

- SPs were asked to indicate whether they specialise on specific sectors (if so, which), or whether they provide generic services suitable for any sector.
- Based on that the distribution overview on the left was created.

Key takeaways

- Roughly there is a 60 – 40 ratio between service providers who are ‘generalists’ (have generic services suitable for any sector), vs. sector focused providers. Only 10% have a single-sector focus.
- When looking at a distribution across sectors, public services, healthcare and finance are most prominent. Which coincides with the same observation for the amount of data sharing initiatives.
- We lack the overview between specific service types and sectors. Therefore, it is difficult to conclude whether sectors are sufficiently covered by service providers.

Learnings for next version

- Service providers filled in the survey with the goal to be found by our community. Giving them space for visibility on the CoE-DSC website bolsters competition and maturity of the service provider market.
- We should improve by asking a matrix question: “offer service X for sector Y”, as well as DSIs’ perspective on coverage sufficiency.

Source: CoE-DSC analysis;

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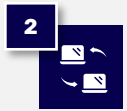
Key learnings for next iterations of the Landscape Scan

Learning for next versions		
	General on gathering findings	• Future scans are ideally to be fully compiled from self-reporting with expert check to make gathering of information scalable.
	**Improvements on data collection for Data Sharing Initiatives**	• 47 is a minimal number. We aim to catch more through self-reporting in next iterations • When self-reporting, DSIs tend to be optimistic about their maturity stage. We will add more detailed self-assessment instructions. • Measuring the size of initiatives proved quite arbitrary. Collecting actual number of participants & transactions led to inconclusive responses, which will be improved in the future versions. • We will add more detailed self-assessment on interoperability focus in next iterations. • In a next iteration of the scan we will add further questions on financial resilience.
	Improvements on data collection for Service Providers	• Expanding the service types could give more insight into the emerging market. • Service providers filled in the survey with the goal to be found by our community. Giving them space for visibility on the CoE-DSC website bolsters competition and maturity of the service provider market. • We should improve by asking a matrix question: “offer service X for sector Y”.
	Other additions	• From the CoE-DSC Data Space Architects Working Community we learned there is also interest to gather relevant communities and support organisations, which will be done in the next iteration.

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1/5 List of Dutch Data Sharing Initiatives – sorted by sector

Sector	#	Logo	Name & website link	Description
Agriculture	1		JoinData	Joint Data is a Consent register and data exchange platform for all agricultural sectors. It consists of two things: 1) consent registry, 2) API data exchange layer
Construction	2		DSGO	DigiGO is a collaboration platform that promotes digitalization in the Dutch design, construction, and engineering sector, aimed at efficiently addressing societal challenges and fostering industry-wide innovation.
Education & skills	3		Edu-V / SURF	Within the Edu-V program, schools and suppliers make mutual agreements – a framework of agreements – that regulate access to and use of digital educational resources for primary, secondary, special, and vocational education.
Education & skills	4		Gemeente Rotterdam: Voorschool monitor	Rotterdam ensures preschool access for toddlers with developmental delays. The CJG identifies eligible children, and childcare organizations get subsidies to run programs. The municipality uses data to monitor and improve program reach across the city.
Energy	5		DVU (Datastelsel verduurzaming utiliteit)	The Datastelsel verduurzaming Utiliteit (DVU) is a system that collects data on utility buildings, such as energy usage. Building owners can securely share this data for analysis and receive smart savings advice.
Energy	6		EDSN Energy	EDSN facilitates the transitioning liberalized energy market with knowledge and expertise. We achieve this by ensuring robust, transparent market processes and securely making all relevant energy data available.
Energy	7		EnergySHR.nl	EnergySHR, developed for TU Delft and Erasmus University Rotterdam, facilitates data and algorithm sharing to enhance cooperation among academia, public, and private sectors, accelerating energy transition research and innovation.
Energy	8		MFFBAS	MFFBAS is a trust framework that aims to facilitated energy parties in sharing data and unlocking new energy applications to achieve climate goals.
Energy	9		TROEF	TROEF offers a platform that allows you to share energy, provides real-time insight into your CO2 footprint, and rewards you for using energy at the right time.
Finance	10		DSI - Stichting DSI	The DSI Foundation was established to ensure that the public's trust in the investment sector is strengthened and maintained through the high quality of skills and ethical standards of DSI-certified professionals.

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2/5 List of Dutch Data Sharing Initiatives – sorted by sector

Sector	#	Logo	Name & website link	Desctiption
Finance	11		HDN	HDN facilitates the application, acceptance, and management process for mortgage and mortgage-related products. HDN does this, among other things, by developing and managing the standard for secure digital communication in the financial chain.
Finance	12		Company Passport	The Company Passport is a Trust Framework (TF) leveraging the eIDAS organisational wallet to enable safe and seamless trade with other businesses, consumers and interaction with public parties
Finance	13		SBR Nexus	SBR Nexus develops and manage market standards for exchanging business data between companies, organizations, and financial institutions. In addition, we ensure the availability, proper functioning, and security of the platform My Data, My Business.
Finance	14		SIVI	SIVI AFS forms the foundation for a digital ecosystem where customers can receive excellent service across various distribution chains of financial products.
Finance	15		TMNL	TMNL consolidates transaction data from various banks and identifies meaningful connections between them. These connections provide new insights into potential money laundering and terrorist financing.
Finance	16		Trusted Information Partners	Trusted Information Partners (TIP) is an initiative of private and public parties working towards a future in which citizens, businesses and government can do business digitally in a simple and trusted way. TIP focuses on digitizing transactions whose financial or legal implications are significant.
Healthcare	17		Amphia Datawerkplaats Keten Controle Centrum	Het Keten Control Center (KCC) verzamelt data over de capaciteit van het zorglandschap in de regio Breda. Met analyses en inzichten over vraag, aanbod en bezetting van zorg ondersteunt het KCC de coördinatie van zorg in de regio (juiste zorg op de juiste plaat op de juiste tijd).
Healthcare	18		AORTA-lsp	The exchange of medical data is surrounded by numerous technical and organizational measures and agreements. These are documented in the AORTA framework agreement. AORTA describes all the agreements and rules that apply to the infrastructure of the National Switch Point (LSP) and its use.
Healthcare	19		Datawerkplaats Podotherapie	De Nederlandse Vereniging van Podotherapeuten (NVvP) lanceerde eind juni - samen de podotherapiepraktijken Voetencentrum Wender, Hermanns, Innofeet, Lectoraat Podotherapie (Hogeschool Saxion/Fontys) en privacytechnologie-specialist Roseman Labs de 'Datawerkplaats'.
Healthcare	20		Gerda	GERDA is the project name for establishing an Integrated Regional Data Infrastructure related to healthcare data in Achterhoek.

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3/5 List of Dutch Data Sharing Initiatives – sorted by sector

Sector	#	Logo	Name & website link	Description
Healthcare	21		HealthRI	Health-RI is a Dutch initiative aimed at facilitating and promoting an integrated (data) infrastructure for health data, accessible to researchers, citizens, healthcare providers, and businesses.
Healthcare	22		Heracles	HERACLES should make it possible for research organisations, epidemiologists, doctors, tech companies, patient associations, pharmaceutical industry representatives and health insurers to conduct collaborative research on lung and ovarian cancer.
Healthcare	23		IKNL	IKNL activities are aimed at reducing the impact of cancer. Generating and sharing reliable and independent insights about cancer is the core of our work.
Healthcare	24		Koppeltaal	Koppeltaal is an architectural software construct that simplifies communication via messages between different components (such as eHealth platforms, portals, interventions, and EHRs) and the launching of interventions.
Healthcare	25		MedMij	The MedMij Foundation has established rules for the safe exchange of medical data. PGOs (Personal Health Environments) and healthcare providers with a MedMij label adhere to these rules. Through MedMij, you can securely place a copy of your medical data into your PGO.
Healthcare	26		PLUGIN	PLUGIN allows Dutch hospitals to provide and consume data in a federated learning network.
Healthcare	27		Secure eHealth	The goal of Secur-e-Health is to enable different sources of health data (e.g. hospitals, insurance companies, patients) to be combined in a cryptographically safe and secure way, enabling decision support algorithms to be trained on multiple clinical datasets.
Healthcare	28		UMCU Central Patient Index	The project with UMC Utrecht aims to: Improve the identification of child abuse with a cross-hospital collaboration tool for emergency care, together with Eline van den Heuvel from NSK (Nationaal Signaleringsinstrument Kindermishandeling) - also known as SCAN (Screening instrument for Child Abuse and Neglect).
Industrial & Manufacturing	29		SCSN	SCSN (Smart connected Supplier Network) is a data exchange in the steel manufacturing industry. SCSN simplifies data sharing in the supply chain by enabling messages to be automatically sent between ERP systems of a connected companies.
Industrial & Manufacturing	30		MCPV.eu /data spaces for supply chains in solar manufacturing	MCPV is advancing its multi-gigawatt cell and module manufacturing scale-up implementation, to meet the fast growing demand of the European solar PV markets by stimulating data sharing across the value chain.

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4/5 List of Dutch Data Sharing Initiatives – sorted by sector

Sector	#	Logo	Name & website link	Description
Industrial & Manufacturing	31		JMDP (Joint Maritime Digital Platform)	The aim of the Maritime Masterplan is to develop, build, and utilize reliable, competitive, and modular climate-neutral ships within a cyclical Dutch maritime innovation chain. The plan accelerates the global energy transition, enhances European open strategic autonomy, protects national security interests, and strengthens the Dutch economy.
Logistics	32		BDI/DIL	The DIL program explores and develops the agreements necessary to make smarter use of the existing digital infrastructure in logistic chains. The Basic Data Infrastructure (BDI) is a framework for controlled data sharing, supporting automated advanced information logistics within next-generation OSCM networks.
Logistics	33		SFC Exchange Network	SFC uses a decentralized architecture approach to enable sovereign and secure exchange of carbon emission data between different organizations in the logistics industry.
Logistics	34		Port Communnity System	Portbase Port Community System (PCS) is the digital connection to smart Dutch ports. PCS has almost national coverage and is available for all port sectors: containers, general cargo, dry bulk and liquid bulk. Everyone in the logistics chain can exchange information via PCS easily and efficiently.
Mobility	35		Datawerkplaats Publiek Vervoer Groningen-Drenthe	A collaboration with all municipalities in Groningen and Drenthe, the public transport agency and the Province of Groningen and Drenthe. The aim is to achieve an affordable and future-proof transport network that is accessible to elderly and disabled people (social inclusion). Winner of Privacy Awards.
Mobility	36		DITM	DITM enables Netherlands to organize mobility more efficiently and safely at a national level, create a stronger export position internationally for Dutch technology, and influence international standards.
Mobility	37		NTM (Nationaal Toegangspunt Mobiliteitsdata)	The National Access Point for Mobility Data is the place where governments and market parties can publish, find, and use mobility data. This includes data on roads, public transport, parking, waterways, shared mobility, and other relevant data in the field of mobility.
Open Science	38		To2	The TO2 Digilab wants to facilitate the collective thinking power of TO2 institutions in order to make a substantial contribution to the challenges we face. To guarantee this in the future, cross-pollination between knowledge institutes is a prerequisite.
Public Services	39		Aedes (vereniging van wooningcorporaties)	Aedes Data Standards provides housing corporations with support for the implementation and the use of standards for data sharing.
Public Services	40		Data Fryslan	DataFryslân is a cooperative knowledge and innovation hub for the secure collection, processing, sharing, and utilization of Frisian data by and for Frisian public and private organizations.

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5/5 List of Dutch Data Sharing Initiatives – sorted by sector

Sector	#	Logo	Name & website link	Description
Public Services	41	Provincie Noord-Brabant	Dataportaal Noord Brabant	A portal where a citizen, company, organization, municipality or water board may reuse the public information of the province of North Brabant. With this open data you can create your own applications, such as websites, applications and interactive maps.
Public Services	42	ELSA LABS	ELSA lab Poverty & Debt / PRICELESS project Maastricht University	The ELSA Lab develops socially responsible, data-driven solutions for tackling poverty, with public and stakeholder participation being integrated effectively into the design and approach. The targets for this ELSA Lab are anyone living in poverty or at risk of falling into poverty, anyone with debts that are problematic or at risk of becoming so.
Public Services	43	JusticeLink	Justice Link	Justice Link is building the infrastructure to share and analyse crime data.
Public Services	44	GEONOVUM	Geonovum	Geonovum is a government foundation with extensive knowledge and a rich network. Our daily work is aimed at enhancing government performance using geospatial information. We do this by improving the accessibility of geospatial information and by facilitating the exchange of geospatial information among each other and with other types of data through standards.
Public Services	45	provincie Zuid-Holland	Open Data ZH (Zuid Holland)	The province of Zuid-Holland makes as much of its data as possible available as open data. We believe that open data provides social and economic benefits and contributes to transparency.
Smart Cities	46	DMI·ECOSYSTEM	DMI-ecosystem	The DMI ecosystem is a public-private partnership that facilitates the responsible sharing and use of data on a solid foundation of mutual trust, clear agreements and open standards. This creates new business opportunities for a variety of market players, which in turn enables government bodies to give concrete form and substance to mobility innovation and smart and sustainable urbanisation.
Other	47	Nationaal Cyber Security Centrum Ministerie van Justitie en Veiligheid	SecureNed	The NCSC works together with Dutch government and companies via SecureNed. It is a unique partnership aimed at sharing information about cyber threats and incidents. Based on the shared insights, participants can take measures to prevent or limit damage. SecureNed makes this information sharing simple, effective, but also preventive: what is an incident today for one person is a good warning for another.
Other	48	STICHTING NEDERLANDSE DATAKLUIS	Datakluis	Stichting Datakluis is committed to creating a personal data vault for every Dutch citizen, in which their online data is stored.

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1/9 List of Service Providers - Alphabetical Order

#	Logo	Name	Sector(s)	Service Type(s)	Description
1		Aangetekend B.V.	Generic (sector independent)	• Trust, Security & Digital Identity services; • Connectivity & Tech protocols;	Dutch QTSP (Qualified Trusted Service Provider) under EU Digital Identity regulation (eIDAS 2.0)
2		ACC ICT	Finance, Logistics, Mobility, Public Services	• Cloud services;	ACC ICT provides IT continuity for business-critical applications, and cloud solutions
3		AMS-IX	Generic (sector independent)	• Trust, Security & Digital Identity services; • Legal Services;	AMS-IX offers assurance services to business owners so they can reach a trustworthy agreement for data transactions in a shorter period of time.
4		Asperitas	Education, Open Science, Other	• Cloud services;	We provide thermal management expertise to achieve the limitless datacentre.
5		Atos	Generic (sector independent)	• Trust, Security & Digital Identity services; • Connectivity & Tech protocols; • Cloud Services • Legal Expertise • Other (Consulting)	Atos is a global leader in digital transformation with c. 95,000 employees and annual revenue of c. € 11 billion. European number one in cybersecurity, cloud and high-performance computing, the Group provides tailored end-to-end solutions for all industries in 69 countries. A pioneer in decarbonization services and products, Atos is committed to a secure and decarbonized digital for its clients. Atos is a SE (Societas Europaea), and listed on Euronext Paris.
6		Better Be	Mobility	• Connectivity & Tech protocols; • Cloud Services • Analytics (AI and PETs)	BetterBe accelerates your digital, customer-oriented strategy. Our customers are European based multinationals, inspired by our next level approach to automotive lease. With our API based Software as a Service (SaaS), we enable them to move faster, think bigger and stay ahead in the rapidly changing mobility market.
7		Bit	Generic (sector independent)	• Connectivity & Tech protocols; • Cloud Services;	Data centers, network, managed hosting and cloud.
8		BlueGen.ai	Energy, Finance, Healthcare, Industrial & Manufacturing, Public Services	• Analytics (AI and PETs)	BlueGen.ai, an AI-based synthetic data generation platform, offers a patented solution that generates privacy-safe data from real data that looks and behaves like the original. This platform empowers finance, healthcare, and energy organizations to use data securely to collaborate and accelerate data-driven innovation.
9		Capgemini	Generic (sector independent)	• Other (consulting)	Capgemini partners with companies to transform and manage their business by unlocking the value of technology. As a leading strategic partner to companies around the world, we have leveraged technology to enable business transformation.
10		Centric	Generic (sector independent)	• Trust, Security & Digital Identity services; • Connectivity & Tech protocols; • Cloud Services • Analytics (AI and PETs)	Countless organizations count on our technological solutions, high-quality IT services and qualified professionals every day. We link our knowledge of IT to years of experience with industry-specific processes in the government, supply chain and financial sector.

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2/9 List of Service Providers - Alphabetical Order

#	Logo	Name	Sector(s)	Service Type(s)	Description
11	CGI	CGI	Energy, Finance, Healthcare, Industrial & Manufacturing, Logistics, Open Science, Public Services, Other (Media)	• Cloud Services; • Analytics (AI and PETs);	Through our global insights and local experts, we help build the strategies and deliver the end-to-end services that help clients achieve meaningful and sustainable outcomes.
12	claranet	Claranet	Generic (sector independent)	• Trust, Security & Digital Identity services; • Cloud Services;	Claranet is an expert in IT infrastructure with years of experience in the field of (online) workplaces, security, networks, managed hosting and cloud.
13	cleverbase	Cleverbase	Generic (sector independent)	• Trust, Security & Digital Identity services;	Dutch QTSP (Qualified Trusted Service Provider) under EU Digital Identity regulation (eIDAS 2.0). Issues qualified certificates within the PKIoverheid infrastructure.
14	CMS	CMS	Generic (sector independent)	• Legal Expertise;	CMS lawyers work across sectors and borders in more than 40 countries worldwide to deliver advice to you wherever you operate. We see ourselves as more than just legal advisers. We are your business partners. Our focus is on helping you mitigate risk and benefit from innovation, enabling your business or organisation to thrive.
15	Contakt	Contakt Consulting	Generic (sector independent)	• Other (Consulting);	Contakt Consulting offers consultancy services to support the design, development, and operation of data spaces. Leveraging hands-on experience in various verticals, we aim to improve the development of data spaces in both speed and quality.
16	COPACO	COPACO	Generic (sector independent)	• Cloud Services;	An extensive and varied cloud portfolio that allows you to offer your customers powerful total solutions.
17	DSS	Data Sharing Solutions	Agriculture, Industrial & Manufacturing, Logistics, Mobility, Public Services, Smart Cities	• Legal Expertise; • Other (Consulting);	We develop data strategies and data use cases with and for public and private organisations and support the implementation. We are business leaders with a legal background - we know how to use new regulation and technology to create value rather than risk.
18	STICHTING NEDERLANDSE DATAKLUIS	Datakluis	Other (Media)	• Connectivity & Tech protocols; • Cloud Services;	Stichting Datakluis is committed to creating a personal data vault for every Dutch citizen, in which their online data is stored.
19	Deerns	Deerns	Construction, Healthcare, Mobility, Open Science, Other (Real Estate)	• Trust, Security & Digital Identity services; • Cloud Services; • Analytics (AI and PETs);	Deerns specialises in providing technical consulting and engineering solutions for high performance buildings for people and industries to thrive.
20	digicert + QuoVadis	DigiCert/ QuoVadis	Generic (sector independent)	• Trust, Security & Digital Identity services;	Dutch QTSP (Qualified Trusted Service Provider) under EU Digital Identity regulation (eIDAS 2.0).

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3/9 List of Service Providers - Alphabetical Order

#	Logo	Name	Sector(s)	Service Type(s)	Description
21	Digidentity	Digidentity	Generic (sector independent)	• Trust, Security & Digital Identity services;	Dutch QTSP (Qualified Trusted Service Provider) under EU Digital Identity regulation (eIDAS 2.0).
22	DirectVPS	Direct VPS	Generic (sector independent)	• Cloud Services;	Managed Kubernetes in the Dutch Cloud. Kubernetes is the platform for automatically deploying, scaling and managing web and server applications.
23	doccle	Doccle Nederland	Energy, Finance, Mobility, Public Services	• Trust, Security & Digital Identity services; • Other (Customer communication improvement);	Doccle enables customer communication to more than 3M users and more than 17K organizations. Information is improved by the user, visits digital channels increases up to 30% and the IT organization is relieved. The TCO costs for effective customer communication are reduced by up to 50% and it is easier to comply with EU data legislation.
24	EGP	EGP	Generic (sector independent)	• Cloud Services;	The future of data is in the cloud. We make IT simple and easy to work with. EGP offers ICT companies Dutch private cloud solutions
25	EKCO	EKCO	Generic (sector independent)	• Cloud Services;	At Ekco, we manage security-first cloud solutions that help you grow.
26	EQUINIX	Equinix	Generic (sector independent)	• Trust, Security & Digital Identity services; • Connectivity & Tech protocols; • Cloud Services;	Deploy, transform and build with Equinix. Explore the full suite of Equinix digital services, colocation products, data center services, and connectivity to power your digital transformation strategy.
27	ESCHERCLOUD	ESCHER CLOUD	Generic (sector independent)	• Cloud Services; • Analytics (AI and PETs);	Powering European AI & HPC at Scale. Accelerate AI model training & deployment with our high-performance GPU platform.
28	eurofiber	Eurofiber	Agriculture, Construction, Education, Finance, Healthcare, Industrial & Manufacturing, Logistics, Public Services, Other (Retail, Telecom)	• Connectivity & Tech protocols; • Cloud Services;	Digital transformation demands reliable networks and cloud solutions. Eurofiber is a provider of leading digital infrastructure.
29	EVIDEN	Eviden	Energy, Finance, Healthcare, Industrial & Manufacturing, Logistics, Mobility, Public Services, Other (Media)	• Cloud Services; • Analytics (AI and PETs);	Eviden is a next-gen technology leader in data-driven, trusted and sustainable digital transformation. With a strong portfolio of patented technologies and worldwide leading positions in advanced computing, security, AI, cloud and digital platforms.
30	FUGA CLOUD	Fuga Cloud	Finance, Healthcare, Industrial & Manufacturing, Mobility, Open Science, Smart Cities	• Connectivity & Tech protocols; • Cloud Services;	The Fuga Cloud Platform provides cloud services build on OpenStack technologie to let Enterprises, SaaS companies, Service Providers and Governments to get the most out of their digital transformation and to save money on their cloud bill. Fully compliant with GDPR regulations.

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4/9 List of Service Providers - Alphabetical Order

#	Logo	Name	Sector(s)	Service Type(s)	Description
31		Fundaments	Generic (sector independent)	• Cloud Services;	With Fundaments Private Cloud solutions you have and keep control over your data, whether it is at your location or at ours in the Netherlands.
32		GeoCat	Agriculture, Open Science, Public Services, Smart Cities, Other (Green Deal)	• Connectivity & Tech protocols; • Cloud Services;	Advanced software with professional support for easy and efficient discovery, publishing and hosting of your data.
33		Hiro Microdata Centres	Generic (sector independent)	• Cloud Services; • Analytics (AI and PETs);	HIRO-MicroDataCenters develops compact, high performance, reliable edge-to-edge infrastructures (hardware and software) and edge native services to support your big data and AI processing on premise, while protecting your data, meta data and AI models.
34		Hooghiemstra & Partners	Education, Healthcare, Open Science, Public Services	• Legal Expertise;	We are a strategic and legal consultancy firm at the intersection of data and law. Our team consists of experts in the field of data protection, administrative law, the complex healthcare world and data sharing within collaborative structures. We advise public and private organizations in every sector.
35		i3D.net	Generic (sector independent)	• Connectivity & Tech protocols; • Cloud Services; • Analytics (AI and PETs);	High-performance. Low-latency. And a privately-owned global network you can trust.
36		Info Support	Agriculture, Energy, Finance, Industrial & Manufacturing, Logistics, Mobility, Public Services, Other (retail)	• Cloud Services; • Analytics (AI and PETs);	From architecture, development to management and training. With a results-driven focus, we develop and manage your business-critical IT systems. With a proven approach, our experts ensure that the full potential of your IT landscape is used. This way, you are ready for the future.
37		INNOPAY	Generic (sector independent)	• Other (Consulting);	We are consultants specialised in digital transactions. We help businesses and public institutions to create value in an era in which every digital interaction with, within and between organisations is becoming a trusted transaction.
38		Interconnect	Generic (sector independent)	• Cloud Services;	With Interconnect's proven, reliable datacenter and cloud services, you can future-proof your IT infrastructures. Interconnect's services are the foundation of a rock-solid IT foundation for every organization.
39		Intermax	Healthcare, Public Services	• Trust, Security & Digital Identity services; • Cloud Services;	Intermax ensures a secure and available IT landscape, from workplace to cloud. We provide services for creating a secure desktop, and also take care of the rollout and maintenance of applications and the associated data platforms.
40		Interxion	Generic (sector independent)	• Cloud Services;	You need a global data center platform designed to meet the rigorous demands of AI and transform your rapidly growing data into actionable insights. We make your IT infrastructure AI-ready by optimizing it for efficient data exchange.

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5/9 List of Service Providers - Alphabetical Order

#	Logo	Name	Sector(s)	Service Type(s)	Description
41		iSHARE	Generic (sector independent)	• Trust, Security & Digital Identity services; • Connectivity & Tech protocols; • Legal Expertise;	Through the iSHARE trust framework, we facilitate and deliver one of the basic components of data spaces, in accordance with the design principles of IDSA and Gaia-X. We work closely with the international community on data standards and other building blocks for data systems, such as FIWARE, FEDeRATED, OTM, to stimulate data spaces throughout Europe.
42		Knights Analytics	Generic (sector independent)	• Connectivity & Tech protocols; • Analytics (AI and PETs);	We believe that every business deserves access to accurate, insightful, and actionable data. That is why we have developed an innovative approach to data management with AI at its core
43		KPN	Generic (sector independent)	• Trust, Security & Digital Identity services; • Connectivity & Tech protocols; • Analytics (AI and PETs);	KPN offers infrastructure and services to enable B2B customers in The Netherlands and abroad easy, secure, scalable and interoperable data exchange aligned with EU standards and legislation. Through our services KPN offers our customers access, control and tools to share and monetize data with trust and confidence.
44		Leafcloud	Generic (sector independent)	• Cloud Services;	We offer a unique, carbon-negative cloud, enabling you to train extensive models at a fraction of the price of the hyperscalers. All while actively reducing carbon emissions.
45		Leaseweb	Generic (sector independent)	• Cloud Services;	Our wide range of cloud hosting solutions are housed on one of the fastest and largest global networks. This means that we not only connect our customers to the right technology, but also provide reliable access to the evolving digital economy and the digital world as a whole.
46		Linksight	Generic (sector independent)	• Connectivity & Tech protocols; • Analytics (AI and PETs);	Linksight makes it possible for organizations to collaborate on data in a secure and privacy-preserving way. Through the use of privacy-enhancing technologies (PETs) based on cryptography and advanced data collaboration governance, organizations stay in full control and protect the confidentiality of their data while still obtaining cross-organizational insights.
47		Luminis	Energy, Healthcare, Mobility, Public Services, Smart Cities	• Trust, Security & Digital Identity services; • Cloud Services; • Analytics (AI and PETs);	We are part of the 'noodzakelijke voorzieningen' of the DMI project (https://dmi-ecosysteem.nl/) where we deliver the data-sharing infrastructure based on the AmdEX/IDSA reference architecture. In the CoeDSC reference model we are an SP that delivers an 'Intermediate' service.
48		Maincubes	Generic (sector independent)	• Cloud Services;	Data centers with high availability and security. Whether you are a company looking to expand your cloud strategy or a representative of the public sector seeking highly secure data center housing solutions, our data centers in Amsterdam, Berlin and Frankfurt are the perfect choice.
49		MCX	Generic (sector independent)	• Cloud Services;	Cloud solutions and remote IT management.
50		Medical Data Works	Finance, Healthcare, Public Services	• Analytics (AI and PETs);	Delivering Federated Learning services for Vantage6, including legal and data pre-processing support. Being a neutral vendor (open-source platform, no IP hook or infrastructure requirements) makes it transparent and neutral.

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6/9 List of Service Providers - Alphabetical Order

#	Logo	Name	Sector(s)	Service Type(s)	Description
51		Ministry CIDG	Public Services	• Trust, Security & Digital Identity services;	Dutch QTSP (Qualified Trusted Service Provider) under EU Digital Identity regulation (eIDAS 2.0)
52		Ministry of Defence	Public Services	• Trust, Security & Digital Identity services;	Dutch QTSP (Qualified Trusted Service Provider) under EU Digital Identity regulation (eIDAS 2.0)
53		Ministry of Infrastructure & Water management	Public Services	• Trust, Security & Digital Identity services;	Dutch QTSP (Qualified Trusted Service Provider) under EU Digital Identity regulation (eIDAS 2.0)
54	mintBlue	MintBlue	Finance, Healthcare, Logistics, Open Science, Public Services,	• Connectivity & Tech protocols; • Cloud Services; • Analytics (AI and PETs);	mintBlue offers provenance and traceability solutions to data sharing initiatives so they have a notarized audit trail of activity ensuring compliance.
55		NTM (Nationaal Toegangspunt Mobiliteit)	Mobility	• Other (Catalogue);	As a national access point of the Netherlands we make the mobility data within our country findable in a federative way, so there is one point of reference for all mobility data in NL
56		NBIP	Generic (sector independent)	• Connectivity & Tech protocols; • Cloud Services;	The NBIP – Supporting services for Internet providers. Smarter and stronger together for a safe, secure Internet. The NBIP is an independent, non-profit organization created by and for Internet and VoIP service providers. The NBIP is an established name in the Netherlands, with more than 100 affiliated companies purchasing its services.
57		NDIX	Generic (sector independent)	• Trust, Security & Digital Identity services; • Connectivity & Tech protocols; • Cloud Services;	NDIX introduces the best dedicated private data connection with Ultra-High Capacity.
58		NorthC	Education, Healthcare, Open Science, Public Services	• Cloud Services;	The market leader in regional data centers and most reliable provider of colocation and connectivity services with the best digital ecosystem in The Netherlands. Carrier and cloud neutral.
59		Notaris ID	Public Services	• Trust, Security & Digital Identity services;	Dutch QTSP (Qualified Trusted Service Provider) under EU Digital Identity regulation (eIDAS 2.0)
60		NovaTrust	Generic (sector independent)	• Other (Consulting);	Novatrust enables your organization to enter the new Digital Era. Connect seamlessly with your partners, supplier, and companies in a trusted and scalable way!

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7/9 List of Service Providers - Alphabetical Order

#	Logo	Name	Sector(s)	Service Type(s)	Description
61	OCKTO	Ockto	Generic (sector independent)	• Trust, Security & Digital Identity services;	Easy, fast and secure distribution of personal data. Ockto makes it easy to provide personal data directly from reliable sources such as governmental sites and banks.
62	odin GROEP	Odin Groep	Generic (sector independent)	• Cloud Services;	We believe that IT is essential for the success of organizations. Letting our customers excel through optimal use of information technology. That is what we work on every day.
63	ORACLE	Oracle	Generic (sector independent)	• Trust, Security & Digital Identity services; • Connectivity & Tech protocols; • Cloud Services;	Our mission is to help people see data in new ways, discover insights, unlock endless possibilities.
64	ORDINA	Ordina	Generic (sector independent)	• Cloud Services; • Analytics (AI and PETs); • Other (Consulting);	In an exciting and strategic move, Sopra Steria, Ordina, and Tobania have come together to create a force in the world of digital services. This alliance aims to redefine the way we do business, bringing value to our customers, the market, and our own talented team in the Benelux region and beyond.
65	pdok	PDOK	Public Services, Smart Cities	• Trust, Security & Digital Identity services; • Connectivity & Tech protocols; • Cloud Services; • Legal Expertise;	PDOK is the data platform for high-quality government geodata. PDOK is a service provider
66	PELS RIJCKEN	Pels Rijcken	Generic (sector independent)	• Legal Expertise;	Pels Rijcken ranks among the top ten law firms in the Netherlands.
67	Pinsent Masons	Pinsent Masons	Generic (sector independent)	• Legal Expertise;	A multinational law firm which specialises in the energy, infrastructure, financial services, real estate and technology, science & more.
68	POORT8 THE DATASPACE COMPANY	Poort8	Agriculture, Construction, Energy, Logistics	• Trust, Security & Digital Identity services; • Connectivity & Tech protocols;	Poort8 offers dataspace software to government bodies, data space initiatives, and data holders so they can unlock new opportunities based on sharing or consuming data in a federated, controlled, and self-sovereign manner.
69	previder	Previder	Generic (sector independent)	• Trust, Security & Digital Identity services; • Cloud Services;	Together with over 300 IT specialists and from our own 100% Dutch data centers, we deliver IT solutions and the entire IT foundation for organizations, healthcare, housing corporations and software developers. From digital workplaces to managing complex cloud environments.
70	RAIDIAM	Raidiam	Generic (sector independent)	• Trust, Security & Digital Identity services; • Connectivity & Tech protocols;	Trusted Ecosystems, Delivered. Raidiam is the global organisation at the forefront of data sharing technologies that are changing the world.

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8/9 List of Service Providers - Alphabetical Order

#	Logo	Name	Sector(s)	Service Type(s)	Description
71		Rhite	Generic (sector independent)	• Analytics (AI and PETs); • Legal Expertise;	We offer consultancy services in the field of AI privacy and security engineering
72		RINIS	Public Services	• Connectivity & Tech protocols;	RINIS connects. On behalf of public organisations, we facilitate the digital exchange of data, enabling these organisations and authorities to deliver their services to citizens and businesses. In the Netherlands and at international level. Guaranteed, reliable and secured.
73		RosemanLabs	Finance, Healthcare, Industrial & Manufacturing, Public Services, Smart Cities	• Connectivity & Tech protocols; • Analytics (AI and PETs);	Link multiple data sets to discover new patterns or train your AI model on real data. Make well-informed decisions to elevate your processes with new insights.
74		Serverius	Generic (sector independent)	• Trust, Security & Digital Identity services; • Connectivity & Tech protocols; • Cloud Services;	Serverius provides scalable data center services.
75		Sovity	Generic (sector independent)	• Connectivity & Tech protocols; • Cloud Services;	Sovity provides easy access to Data Spaces with industry-proven software. Maintain full control while we empower your company to share data with others effortlessly in a community. Trust via interoperable and secure usage control.
76		Summix	Construction, Education, Energy, Industrial & Manufacturing, Mobility	• Connectivity & Tech protocols; • Cloud Services;	Summix helps SMEs turn data into valuable insights so they can leverage the power of data.
77		Surf	Education, Open Science	• Trust, Security & Digital Identity services; • Connectivity & Tech protocols;	SURF is the IT cooperative of education and research.
78		Syntho	Generic (sector independent)	• Analytics (AI and PETs);	AI Generated Synthetic Data that mimics privacy sensitive data.
79		T-Systems	Generic (sector independent)	• Trust, Security & Digital Identity services; • Connectivity & Tech protocols; • Other (Consulting);	We guide you on your way to a modern, secure and resilient digital environment across the entire value chain.
80		Trans-iX	Generic (sector independent)	• Cloud Services;	Trans-iX offers various web and cloud hosting solutions based on Windows and Linux. From standard to customized solutions, we are happy to take the time to think constructively with you about solutions that suit you best.

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9/9 List of Service Providers - Alphabetical Order

#	Logo	Name	Sector(s)	Service Type(s)	Description
81		UbiOps	Agriculture, Finance, Healthcare, Open Science	• Cloud Services; • Analytics (AI and PETs);	One platform to train, serve and orchestrate AI and ML models on any infrastructure.
82		Uniserver	Construction, Finance, Healthcare, Industrial & Manufacturing, Public Services, Other (Retail)	• Trust, Security & Digital Identity services; • Cloud Services;	From seemingly simple cloud backups to extensive strategic multi-cloud migrations and platform hosting for software companies, we match the assignment with the specialist who is best equipped to guide the process. We support and guide our partners when they switch themselves or during the cloud migration of customers.
83		Visma Connect	Finance, Healthcare, Logistics, Open Science, Public Services, Other (Sustainability)	• Trust, Security & Digital Identity services; • Connectivity & Tech protocols; • Other (Data Standardisation & Source Integrations);	Visma Connect offers a Datastation as a Service for reporters, regulatory bodies and data trust frameworks so that they can manager and/or participate easily and reliably in Data Spaces.
84		VKA	Generic (sector independent)	• Other (Consulting);	VKA helps organisations to grow with digital developments. At various points in the transformation process and in various roles.

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Appendix

1. Glossary

2. Methodology:
   - Process overview
   - Survey flow
   - Description of variables

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Glossary

Overview of terminology & abbreviations used in report

Abbreviations used	AI – Artificial Intelligence, DI – Digital Identity, DSIs – Data Sharing Initiatives, PETs – Privacy Enhancing Technologies, QTSP – Qualified Trusted Service Provider (under eIDAS 2.0), SPs – Service Providers

Terminology used	Definition	Source
Data Space	A data space is an infrastructure that enables data transactions between different data ecosystem parties based on the governance framework of that data space. A data space should be generic enough to support the implementation of multiple use cases.	DSSC
Data Sharing Initiative (DSI)	Is the sum of all its participants utilising a common infrastructure for trustworthy data sharing, based on commonly agreed principles	CoE-DSC
Maturity	Status of the data space/data sharing initiative's developmental progression (rf. IDSA Maturity stages)	IDSA
Cross-domain Interoperability	The extent to which participants of different data spaces across domains, (including cross-sector & cross-border) are able to share data and discover each other's services, data sources, participants	CoE-DSC, based on DSSC Blueprint
Soft infrastructure	Refers to the frameworks, policies, standards, and services that support the management, sharing, and usage of data. This can include data governance models, interoperability protocols, security guidelines, and collaborative tools that facilitate the effective and efficient exchange of data within and across organizations and sectors.	OpenDEI
Hard infrastructure	Refers to the physical and technological components, such as servers, data centers, and network hardware, that support the storage, processing, and transmission of data.	OpenDEI
Service provider (SP)	A data space service provider – hereafter referred to as 'SP' – is an organisation that provides services to help define, manage and/or operationalise a data space, typically governed by a service agreement.	CoE-DSC
Sector Generalist Service Provider	Service Providers that provide their service across all industries, their offering is generic, and applicable irrespective of the sector.	CoE-DSC
Sector Specialist Service Provider	Service Providers that have a specific niche sector focus regarding their offerings	CoE-DSC

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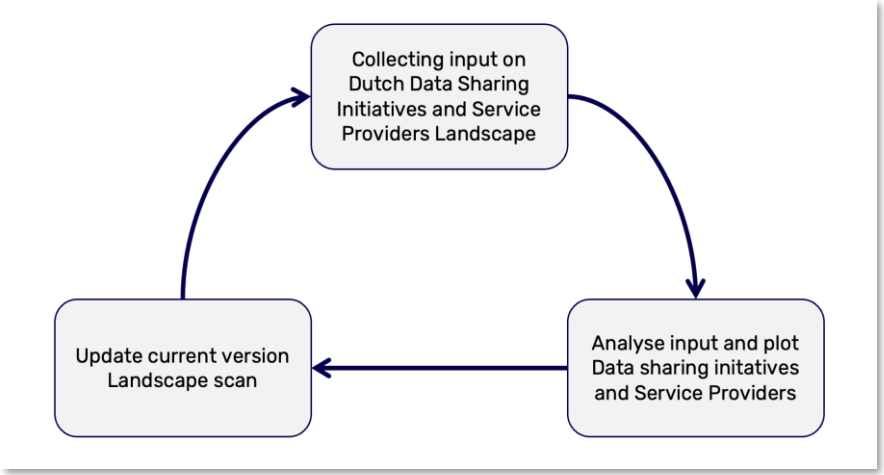
Methodology: process overview

Process flow of Landscape scan



Explanation

- The Landscape scan started in June 2024, with a first Minimal Viable Product and meant to be a 'living document' that represents the current status of the data sharing landscape in the Netherlands. The over-arching goal is to increase visibility of the data sharing activities.
- The first step consisted of a reach out via email & website announcements to the data sharing community of CoE-DSC to gather information about data sharing initiatives and service providers.
- After data collection via survey & desk research, the second step involved to categorise the data, analyse the results and to create different types of graphs to plot the findings.
- Lastly, the first version of the Landscape Scan was created by presenting the insights on the website of CoE-DSC and this report.

Further steps moving forward:

- The aim is to update the scan frequently. As such, we ask all participants in the data sharing ecosystem to provide us with input to enrich the scan and make this effort as fruitfull as possible!
- Please contact us if you are not part of the scan or are not accurately depicted.

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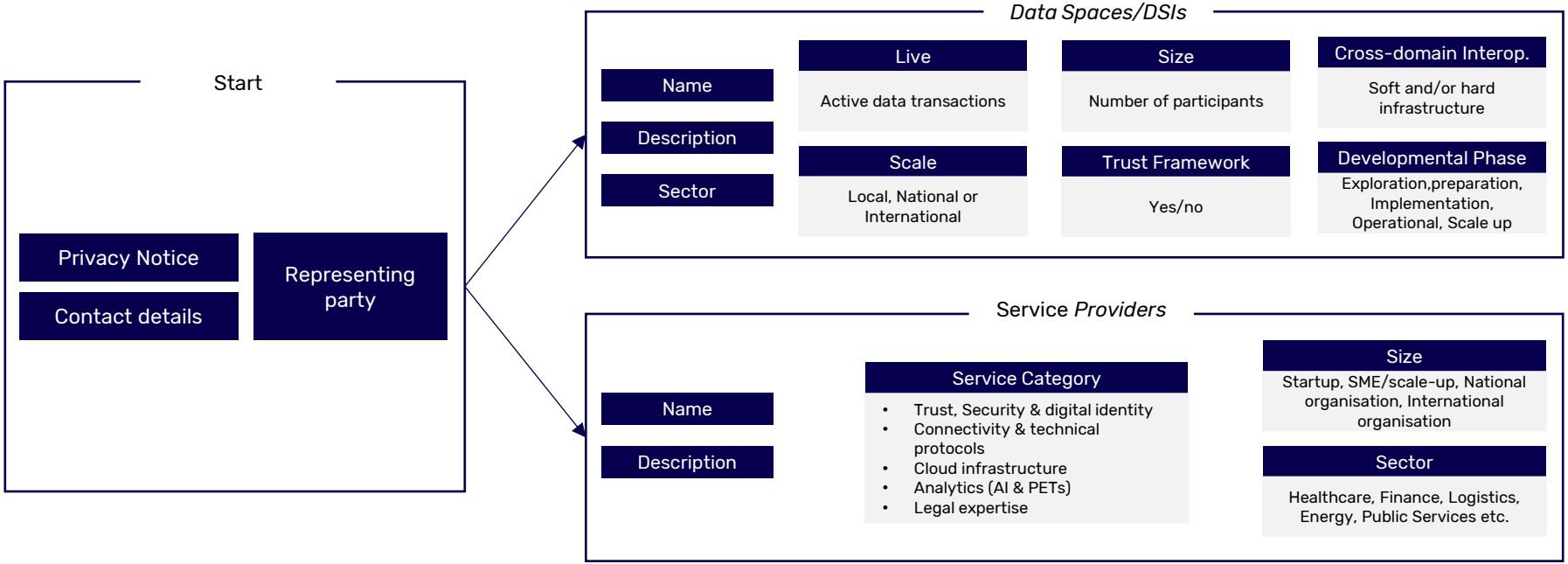
Methodology: The survey has two paths depending on the role the respondent fulfils (DSI or Service Provider)

Survey flowchart



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Following slides detail variable descriptions used in the scan, including (1) General, (2) DSIs specific, (3) SPs specific variables

1

General:

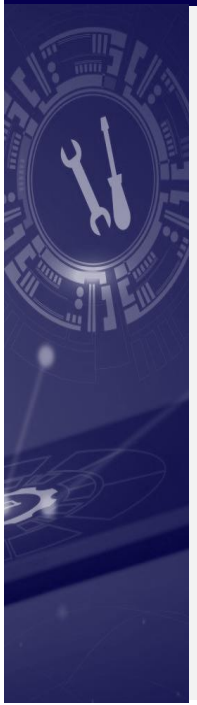
- List of sectors

2

Variables on DSIs:

- Maturity
- Scale
- Cross-domain interoperability focus
- Funding structures

3



Variables on SPs:

- Service categorisation
- Focus (generalists, sector specific)
- Size

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1/3 Variables: List of sectors used in the scan

Sector categorisations: *12 sector categories are included, which are defined using* EU Data Space sectors as inspiration*. Data Sharing Initiatives outside these are labelled 'Other'.*

Following Sectors are used:

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2/3 Variables: for Data Sharing Initiatives scan documented maturity, scale, cross-domain interop. focus & funding structures

Maturity & Scale

Maturity: status of the data sharing initiative's developmental progression (rf. IDSA Maturity stages)
***Measured as*:** a qualitative metric, capturing 5 stages:

- Exploratory
- Preparatory
- Implementing
- Operationalisation
- Scale up

***Scale*:** the extent of geographical dispersion
***Measured as*:** a qualitative metric, based on a combination of the DSI's reach and the number of participants:

- Local - active in one or a few cities, or on a regional scale
- Small National - across the Netherlands and =< 50 participants
- Large National - across the Netherlands and > 50 participants
- International - across multiple countries

Cross-domain interoperability focus & Funding structures

***Interoperability focus*:** The extent to which initiatives have their focus on sharing data across domains, (including cross-sector & cross-border) and discover each other's services and data sources, e.g. in line with DSSC interoperability building blocks.
***Measured as*:** a qualitative metric with 4 categories:

- Neither Soft or Hard - no focus yet on cross-domain interop.
- Only Soft - initiative explores interop. via only soft infra
- Only Hard - initiative explores interop. via only hard infra
- Both - initiative explores interop. both soft & hard infra

***Funding*:** Primary source of monetary support for DSI
***Measured as*:** a qualitative metric, consisting of one of the following four categories:

- Unknown - information is not available (yet).
- Governmental funded - primarily supported by governmental subsidies.
- Business & Sectorial Associations funded - primarily supported by sectorial subsidies.
- End-user funded - primary supported by end-users, e.g. subscription model or transaction fees.

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3/3 Variables: for Service Providers scan documented focus & scale, and service categorisation per provider

Focus & Size

Focus: where does the organisation offer its services?
- Generalist - sector independent services
- Sector Specialist – focused on sectors (E.g. Healthcare, Industrial & Manufacturing, Agriculture, Finance etc.)

Size: What is the scale of the organisation?
- Start-up,
- Established SME/scale-up,
- National organisation,
- International organisation

Service categorisation

6 categories:
- Trust, Security and Digital Identity related services
- Connectivity and technical protocols related services (e.g. APIs, ERP system connectors etc)
- Cloud infrastructure related services
- Analytics: AI and Privacy Enhancing Technologies (PETs) related services
- Legal Expertise
- Other

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CoE DSC

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If you have any questions or input, stay in touch with us via info@coe-dsc.nl

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