Table 1 shows a snippet of the results table for the Domain Ownership category. Each topic has several underlying codes. For each topic and code, we provide a unique ID, the frequency of their occurrence in the sources, and the sources themselves. Note that a particular code can appear multiple times in a single source.

Table 1. A snippet of the results for the “Domain Ownership” category.

Sub Category			Atomic Codes			
ID	**Name**	**Frequency**	**ID**	**Name**	**Frequency**	**Unique Sources**
2.1	Domain Formation	42	2.1.1	Decentralized Domains	14	[14, 16, 17, 39, 44, 53, 56, 65, 73, 75, 89, 97, 107]
			2.1.2	Domain-Driven Design Method	28	[5, 9, 14, 21, 32, 34, 36, 38, 62, 68, 75, 80, 97], [17, 53, 60, 79, 84, 88, 92, 98, 101, 102, 106]

Each table also overviews the atomic codes, their frequency, and the unique studies that mentioned them. The results refer to the sub-categories or codes through their labels; for example, ID1.1.1 refers to the code “Data" belonging to the sub-category “Elements" part of the category “Data As a Product". Tables 2 to 6 overviews the sub-categories derived from the gray literature review. Each table also overviews the atomic codes, their frequency, and the unique studies that mentioned them. The results refer to the sub-categories or codes through their labels; for example, ID1.1.1 refers to the code “Data" belonging to the sub-category “Elements" part of the category “Data As a Product".

Table 2. Data as a product: codes and sources.

Sub Category			Atomic Codes			
ID	**Name**	**Frequency**	**ID**	**Name**	**Frequency**	**Unique Sources**
1.1	Elements	67	1.1.1	Data	13	[5, 13, 23, 37, 39, 51, 53, 60, 70, 84, 85, 112]
			1.1.2	Metadata	13	[5, 23, 32, 37, 39, 53, 54, 70, 75, 84, 100]
			1.1.3	Code	13	[5, 13, 19, 37, 39, 53, 55, 60, 84, 112]
			1.1.4	Interfaces	19	[5, 8, 12, 23, 32, 39, 51, 53, 55, 60, 77, 81, 100, 112]
			1.1.5	Infrastructure	9	S1,S37, S53, S57, S77, S98, S97
1.2	Data Product Types	32	1.2.1	Atomic Data Products	12	[8, 36, 53, 55, 64, 79, 93, 101, 103, 104, 106]
			1.2.2	Composite Data Products	20	[8, 36, 53, 55, 63, 79, 84, 93, 101, 103, 104, 106]
1.3	Characteristics of Data Products	132	1.3.1	Discoverable	28	[4, 5, 11, 31, 32, 35, 36, 39, 44, 46, 52, 95, 97, 113], [1, 8, 23, 62, 70, 82, 85, 86, 92]
			1.3.2	Interoperable	17	[5, 31–33, 36, 70, 95, 113], [1, 8, 85, 86, 92, 96, 100]
			1.3.3	Natively Accessible	12	[3–5, 8, 17, 23, 31, 32, 37, 46, 85, 113]
			1.3.4	Self-describing	12	[1, 5, 8, 32, 35, 36, 52, 70, 77, 86, 92, 95]
			1.3.5	Understandable	9	[3, 39, 44, 46, 56, 97, 113]
			1.3.6	Secure	21	[1, 5, 10, 23, 31, 32, 39, 44, 46, 51, 56, 70, 86, 95, 113]
			1.3.7	Trustworthy	22	[1, 5, 23, 31, 32, 35, 36, 39, 44, 46, 70, 86, 95, 113], [8, 37, 85, 92, 100]
			1.3.8	Valuable	11	[17, 46, 53, 69, 101–103, 113]

[7, 27, 41, 47, 49, 50, 54, 57, 58, 109, 114]

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Table 3. Domain ownership: codes and sources.

Sub Category			Atomic Codes			
ID	**Name**	**Frequency**	**ID**	**Name**	**Frequency**	**Unique Sources**
2.1	Domain Formation	42	2.1.1	Decentralized Domains	14	[14, 16, 17, 39, 44, 53, 56, 65, 73, 75, 89, 97, 107]
			2.1.2	Domain-Driven Design Method	28	[5, 9, 14, 21, 32, 34, 36, 38, 62, 68, 75, 80, 97], [17, 53, 60, 79, 84, 88, 92, 98, 101, 102, 106]
2.2	Domain Responsibilities	59	2.2.1	Data Product Development and Operation	49	[4, 11, 12, 15, 36, 44, 46, 51, 64, 65, 67, 71, 73, 83, 89, 91], [1, 21, 29, 32, 33, 59, 68, 74, 81, 82, 94, 106]
			2.2.2	Domain Governance	10	[8, 11, 21, 43, 59, 71, 82, 83, 96]

Table 4. Federated computational governance: codes and sources.

Sub Category			Atomic Codes			
ID	**Name**	**Frequency**	**ID**	**Name**	**Frequency**	**Unique Sources**
3.1	Global Governance	74	3.1.1	Define Organization-wide Standards and Guidelines	30	[4, 5, 10, 15, 35, 39, 44, 52, 56, 67, 89, 113], [1, 23, 28, 29, 32, 63, 68, 72, 102]
			3.1.2	Define and Enforce Global Governance Policies	15	[5, 32, 38, 44, 53, 77, 81, 89, 96, 102]
			3.1.3	Define Data Quality Assessment Methodology	9	[15, 33, 39, 52, 59, 68, 75, 83, 102]
			3.1.4	Business Glossary Modeling	6	[35, 98, 102, 105]
			3.1.5	Data Mesh Monitoring	7	[25, 39, 43, 53, 70, 83]
			3.1.6	Creating Incentive Models	7	[8, 15, 39, 84]
3.2	Local Governance	34	3.2.1	Modeling Products' Data	8	[5, 36, 39, 46, 51, 71, 97]
			3.2.2	Data Product Access Control	6	[12, 55, 59, 71, 77, 84]
			3.2.3	Data Product Compliance and Conformance	6	[29, 55, 59, 77, 102]
			3.2.4	Data Product Quality Assurance	9	[8, 33, 53, 55, 59, 64, 71, 77, 96]
			3.2.5	Data Product Monitoring	5	[8, 16, 21, 53, 67]
3.3	Automation in Governance	11	3.3.1	Objectives of Automation	5	[2, 39, 53, 70, 84]
			3.3.2	Automatable Governance Action Types	6	[8, 53, 70, 84, 89]

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Table 5. Self-Serve data platform: codes and sources.

Sub Category			Atomic Codes			
ID	**Name**	**Frequency**	**ID**	**Name**	**Frequency**	**Unique Sources**
4.1	Objectives	24	4.1.1	Reduce Required Specialization	8	[11, 15, 20, 39, 44, 67]
			4.1.2	Increase Efficiency	9	[11, 21, 32, 36, 44, 76, 86, 95, 97]
			4.1.3	Enable Uniformity and Interoperability	7	[4, 8, 39, 56, 78]
4.2	Building Platform	19	4.2.1	Central Platform Team	7	[36, 39, 55, 65, 68, 69, 82]
			4.2.2	IaC Blueprints	12	[32, 37, 61, 71, 78, 84, 95, 99, 102, 112]
4.3	Platform Components	149	4.3.1	Compute	7	[5, 32, 36, 45, 59, 108]
			4.3.2	Networking	8	[19, 45, 48, 61, 106]
			4.3.3	Polyglot Storage	13	[5, 32, 36, 37, 52, 54, 68, 84, 95, 108, 111]
			4.3.4	Services for Data Product Components	22	[5, 20, 36, 40, 52, 59, 68, 73, 82, 84, 95, 108, 112]
			4.3.5	Metadata Repository	8	[21, 24, 33, 59, 98, 100, 105, 108]
			4.3.6	Product/Data Catalog	15	[5, 8, 21, 25, 31, 36, 40, 59, 67, 83, 84, 108, 111]
			4.3.7	Distributed Query Engine	6	[5, 31, 46, 53, 84, 108]
			4.3.8	Monitoring	10	[4, 5, 20, 21, 36, 59, 67, 71, 73, 83]
			4.3.9	Product Lifecycle Management	10	[32, 36, 59, 67, 89, 100, 102, 108]
			4.3.10	Security and Privacy	22	[4, 5, 12, 21, 36, 40, 48, 67, 71, 77, 82, 95, 108, 111]
			4.3.11	Policy Enforcement	14	[2, 8, 23, 31, 32, 36, 39, 53, 67, 70, 84, 89]
			4.3.12	BI Tools	9	[3, 33, 42, 54, 59, 84, 108, 112]

Table 6. Benefits, concerns, and applicability: codes and sources.

Sub Category			Atomic Codes			
ID	**Name**	**Frequency**	**ID**	**Name**	**Frequency**	**Unique Sources**
5.1	Benefits	48	5.1.1	Scalability	12	[6, 10, 15, 16, 28, 40, 52, 67, 71, 72, 77]
			5.1.2	Increased Agility	7	[15, 45, 52, 76, 77]
			5.1.3	Higher Data Quality	5	[15, 30, 44, 52, 54]
			5.1.4	Better Data Discovery	8	[28, 36, 45, 48, 77, 106]
			5.1.5	Better Governance	6	[30, 40, 52, 54, 63, 77]
			5.1.6	Reduced Data Lead Time	10	[1, 6, 15, 32, 40, 52, 77, 90]
5.2	Concerns	32	5.2.1	Change management	13	[1, 15, 46, 52, 68, 77, 83, 89, 96, 106]
			5.2.2	Lack of Talent	5	[1, 9, 16, 46, 91]
			5.2.3	Data Duplication	9	[10, 16, 51, 52, 77, 83, 91, 103]
			5.2.4	Effort Duplication	5	[10, 44, 67, 69, 83]
5.3	Applicability	37	5.3.1	Large and Diverse Data Landscape	20	[2, 15, 40, 44, 52, 54, 65, 67, 68, 72, 90, 95]
			5.3.2	Need for Agility	7	[40, 52, 65, 67, 83, 90]
			5.3.3	Need for Better Data Governance	10	[40, 44, 52, 67, 68, 84, 95]

Table 7. Roles in data mesh: codes and sources.

Role	**Frequency**	**Unique Sources**
Data Platform Team	7	[36, 55, 65, 69, 73, 82]
Product Owner	17	[4, 8, 10, 11, 15, 23, 36, 39, 46, 52, 55, 81–83, 94, 106]
Product Developer	10	[10, 34, 36, 39, 46, 83, 89]
Product Consumer	9	[17, 54, 56, 71, 99]
Federated Governance Team	9	[15, 39, 46, 53, 77, 89]

Table 8. Applying domain-driven design to develop data products: sources and code frequency.

Concern	Frequency	Unique Sources
Applying Domain-Driven Design	28	[5, 9, 21, 32, 34, 36, 38, 39, 62, 68, 75, 80, 97], [14, 17, 53, 60, 79, 84, 88, 98, 101, 102, 106]
Business Domain and Data Domain Alignment	14	[5, 9, 21, 32, 34, 38, 62, 87, 97], [14, 101, 102, 106]
Bounded Contexts for Data Products	14	[39, 75, 83, 84, 88, 98, 101, 106]

Table 9. Logical runtime architecture: codes and sources.

Sub Category			Atomic Codes			
ID	Name	Frequency	ID	Name	Frequency	Unique Sources
6.1	Overall Structure	21	6.1.1	Logical Structure with Three Layers (Self-serve Platform, Products, and Governance)	21	[12, 18, 32, 33, 39, 44, 54, 73, 83, 110], [14, 21, 42, 53, 55, 68, 85, 111]
6.2	Product Interfaces	25	6.2.1	Input	9	[3, 20, 37, 53, 55, 60, 74, 112]
			6.2.2	Output	9	[3, 20, 37, 53, 55, 60, 74, 112]
			6.2.3	Management	7	[37, 53, 55, 60]
6.3	Communication Channels	40	6.3.1	API	12	[14, 21, 23, 24, 39, 59, 62, 98, 102, 112]
			6.3.2	Message/Event Bus	18	[12, 14, 23, 24, 26, 51, 53, 55, 59, 98, 102, 112]
			6.3.3	Shared Storage	10	[37, 51, 55, 66, 71, 84, 92, 101, 106, 112]
6.4	Management Agents	13	6.4.1	Sidecar Proxy	9	[12, 14, 24, 38, 100]
			6.4.2	Policy Agent	4	[12, 14, 36, 37]

Table 10. Data mesh challenges: sources and code frequencies.

Challenge	Code Frequency	Unique Sources
Standardizing Data Mesh	6	[18, 22, 35, 53, 83, 102]
Methodologies and Tools for Data Mesh Development and Operation	18	[12, 39, 67, 73, 77, 83, 84, 102]
Data Product Life Cycle	14	[39, 75, 83, 84, 88, 98, 101, 106]
Self-serve Platform Services	7	[4, 11, 32, 36, 46, 55, 112]
Data Mesh Governance	7	[39, 55, 77, 83, 102]
Organizational Change Management	8	[4, 22, 36, 46, 77, 83, 106]

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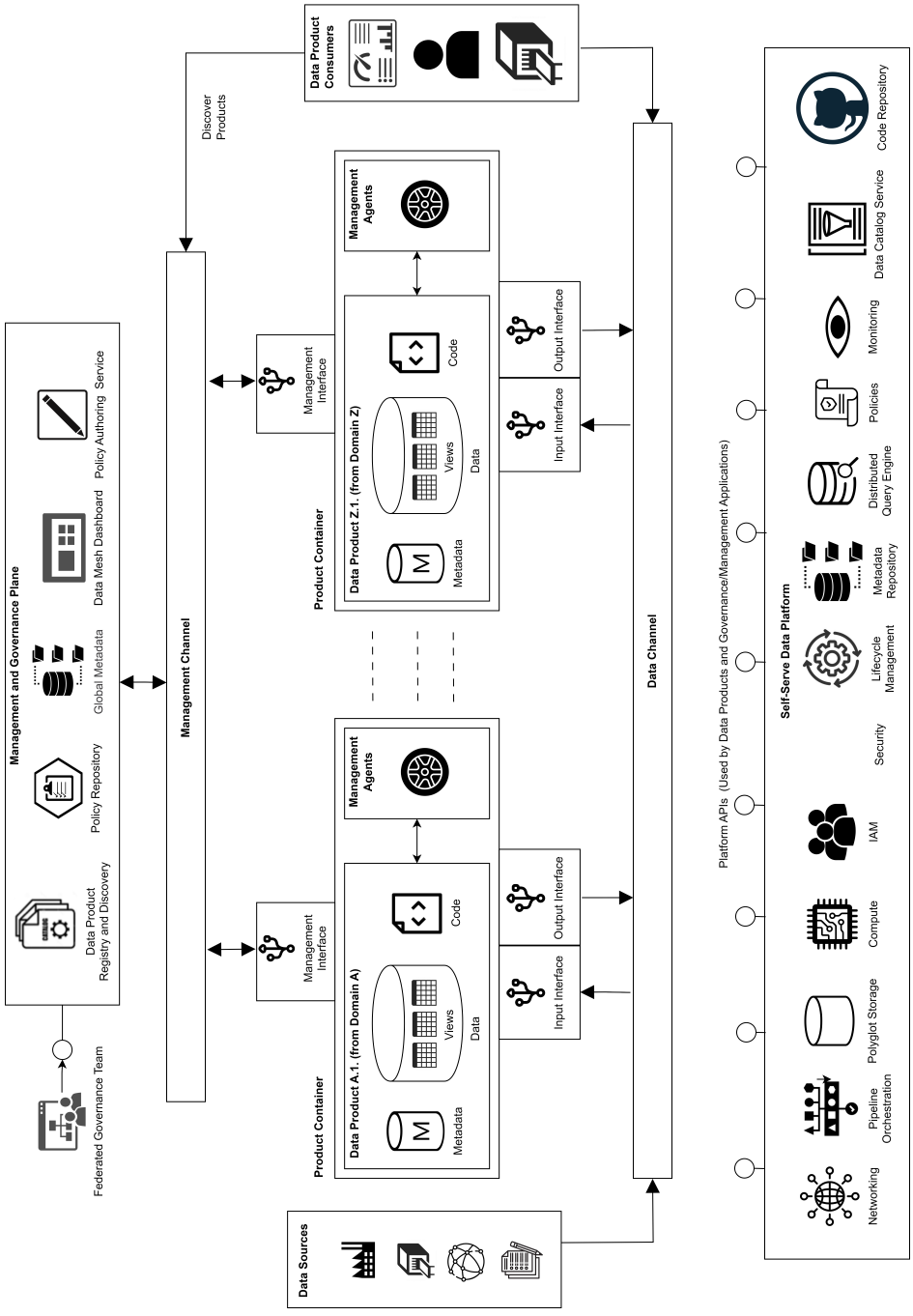

Fig. 1. Logical runtime structure of a data mesh.

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