Modern data management

Metadata catalogue and registry

on CKAN

Metadata catalogue and CKAN

Organisations are dealing with more data than ever before. But as your data increases, so do the challenges of effectively managing, finding, and drawing value from data across its life cycle.

Metadata catalogues are becoming a core component of modern data management. They give you the ability to develop a centralised and comprehensive descriptive record of your data that can go beyond the collection of basic metadata.

Using CKAN, the world's leading open-source data management platform, Link Digital develops metadata catalogues. These use metadata to organise and structure your internal data, supporting better data governance and discovery.

Metadata management

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You can add supporting documentation that can be immediately accessed from within the dataset and is context sensitive allowing users to access information about a specific item of concern, or an extract of the data that can be previewed for immediate sense making.

A metadata catalogue not only saves time but enables a far deeper understanding of the data in your possession. This, in turn, builds staff confidence in the quality and relevance of your data, facilitating greater data use and collaboration.
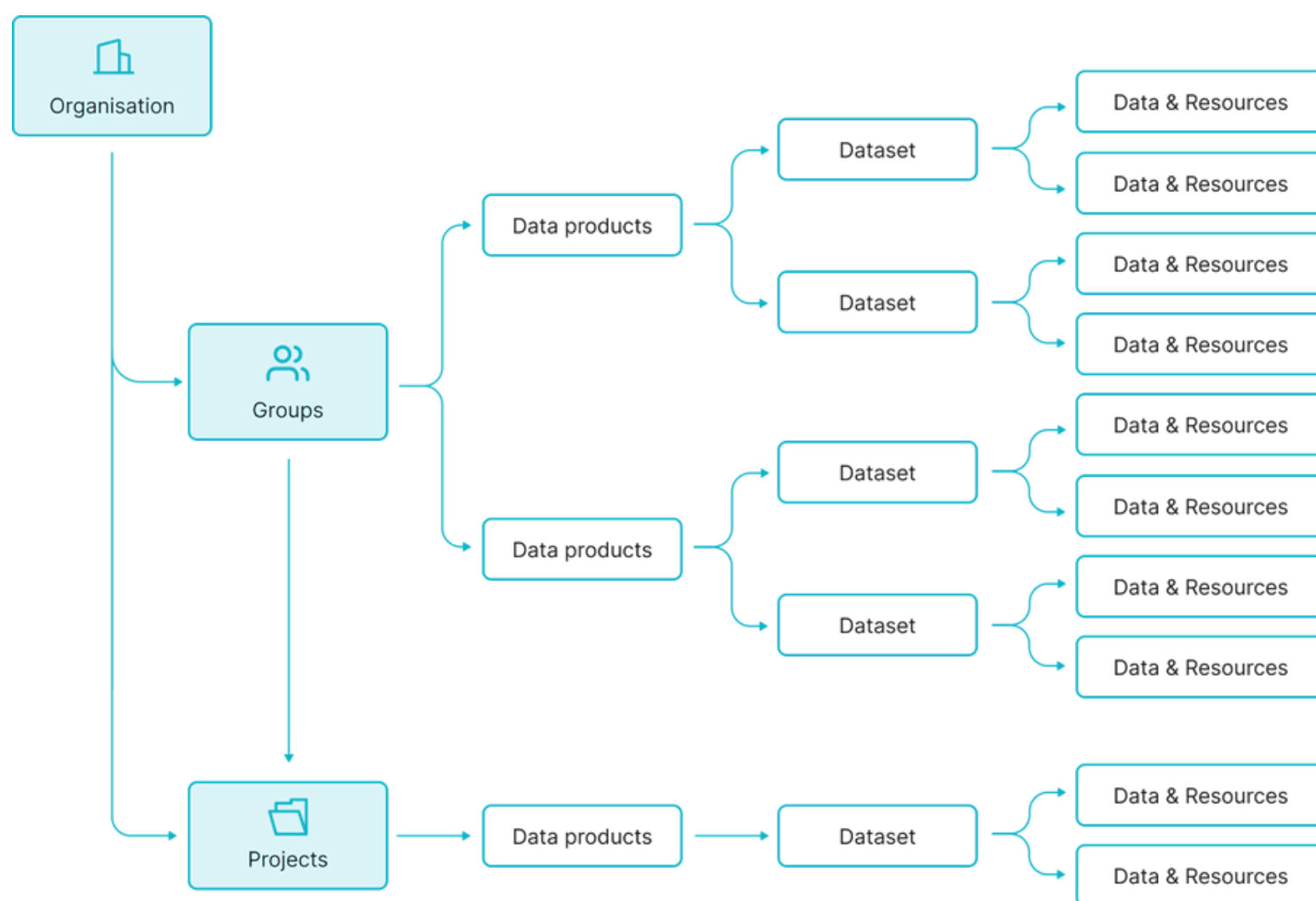
Data cataloguing

Features of CKAN

Secure user authentication

Multi-factor authentication ensures protection of your internal data platform.

Advanced data access control

Set group and individuals permissions to control critical internal data.
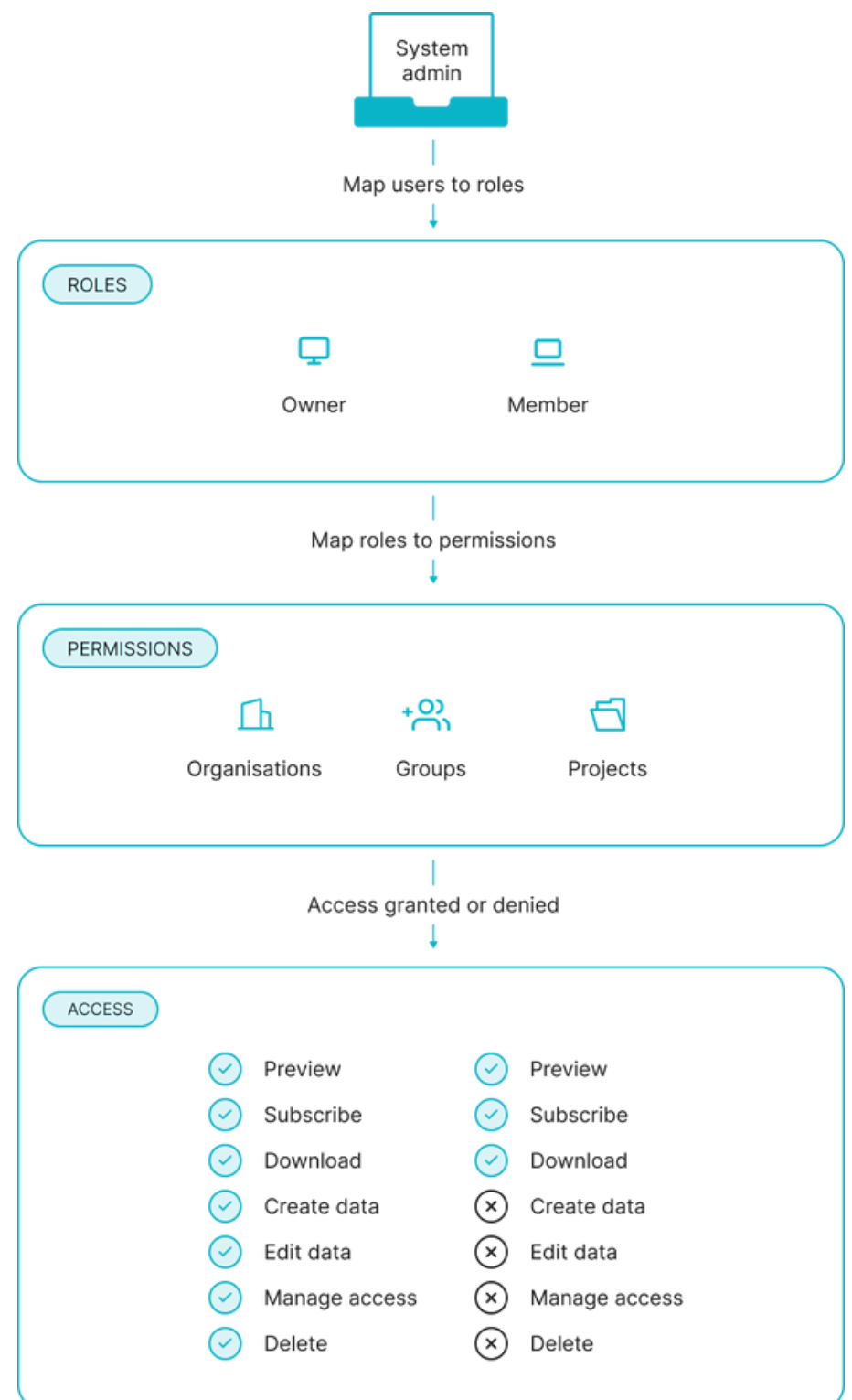
Data validation and audit trails

Tracking change and version control ensures data accountability and traceability.

System admin

Map users to roles

ROLES

Owner   Member

Map roles to permissions

PERMISSIONS

Organisations   Groups   Projects

Access granted or denied

ACCESS

✓ Preview	✓ Preview	
✓ Subscribe	✓ Subscribe	
✓ Download	✓ Download	
✓ Create data	✗ Create data	
✓ Edit data	✗ Edit data	
✓ Manage access	✗ Manage access	
✓ Delete	✗ Delete	

Data categorisation and tagging

Efficiently organise and classify data sets for better search functionality.

Workflow automation

Automate data management tasks like approval and updates.

Features of CKAN

Data visualisation tools
Present data in visual formats for greater comprehension.

API integration
Easy data migration between existing internal data portals and systems.

Real-time reporting
Monitor data usage and metrics by creating reports and dashboards.

Scalability
Store metadata and data with unlimited scalability in the cloud.

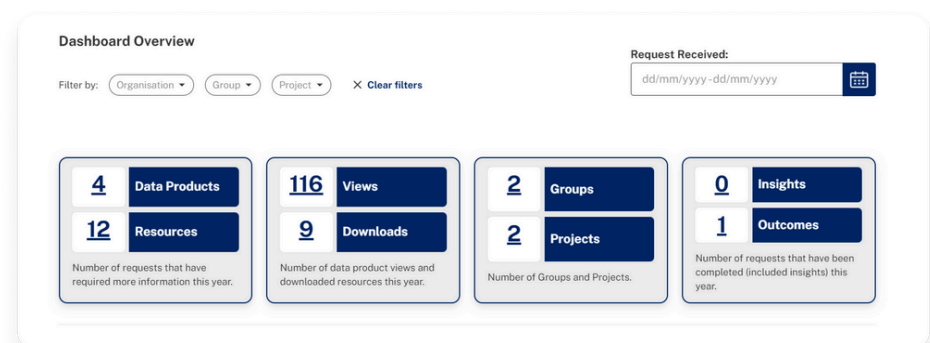### User support
A large, diverse global user base contributes to defect correction.

Benefits of using CKAN

Simplified data management
Single sign-on allows secure, seamless use by internal users.

Advanced data sharing
Tools to help with data publishing, sharing, discovery and usage.

Improved search functionality
Facilitate deep data discovery via search over metadata and data.

Improved workflow
Simplify administration by enabling group creation with predefined access permissions.

Increased data accuracy
Automated updates and data validation ensure data is accuracy.

Streamlined data collection
Harvest and integrate data from different sources easily and automatically.

Improved data accountability
An audit log makes data visible for tracking and traceability.

Can grow with your organisation
Easily extended to meet your evolving data needs.

No lock in
No licensing fees make it accessible and cost effective.

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Service delivery features

Customisation possibilities
Customisation options include user interface tailoring, feature extensions, and integration with existing systems to meet specific client requirements.

Service onboarding and offboarding
Onboarding involves initial setup and user training; offboarding ensures secure data deletion or transfer, with options for data export in various formats.

Data backup and restore
Regular backups ensure data integrity, with options for real-time replication. Quick restore capabilities facilitate recovery from data loss incidents.

Support options
Support includes 24/7 helpdesk and email assistance, along with access to comprehensive documentation and public documentation and user forums related to CKAN.

Maintenance and outage handling
Scheduled maintenance with advance notification; rapid response to outages with timely communication via pre-agreed channels.

Technical requirements
Requires modern browsers and stable internet connection; compatible with major operating systems and mobile platforms.

Service delivery features

Hosting options and locations
Customisation options include user interface tailoring, feature extensions, and integration with existing systems to meet specific client requirements.

Data access
Controlled through secure authentication protocols, with role-based permissions to ensure appropriate data visibility and modification rights.

Security implementation and processes
Adheres to industry best practices, including encrypted data storage and transmission, security audits, and continuous monitoring.

CKAN as a Digital Public Good

CKAN is recognised as a Digital Public Good.

More organisations are looking at CKAN as a safe public investment path for their data publishing, access and discovery needs.

With regards to open data oriented standards such as FAIR (findable, accessible, interoperable and reusable), and more technical standards such as DCAT 3 are also primed for investment as CKAN heads toward a version 3 release.

CKAN is officially recognised as a data management system that is helping tackle 9 of the 17 global challenges identified by the United Nations (UN):

- SDG1: End Poverty in all its forms everywhere
- SDG4: Quality Education
- SDG7: Affordable and Clean Energy
- SDG8: Decent Work and Economic Growth
- SDG9: Industry, Innovation, and Infrastructure
- SDG10: Reduced Inequalities
- SDG11: Sustainable Cities and Communities
- SDG13: Climate Action
- SDG16: Peace, Justice, and Strong Institutions

USA Government's POSE (Pathways for open source ecosystems)

CKAN will benefit from funding that has been secured via the USA Government's POSE (Pathways for Open Source Ecosystems) program. This supports the facilitation, creation and growth of open-source ecosystems for the creation of new technology solutions.

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Link Digital is ready to start a conversation about your data management needs.

Get in touch