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Hitachi Solutions Europe

G-Cloud 15 Service Definition Document

Data Mesh Architecture

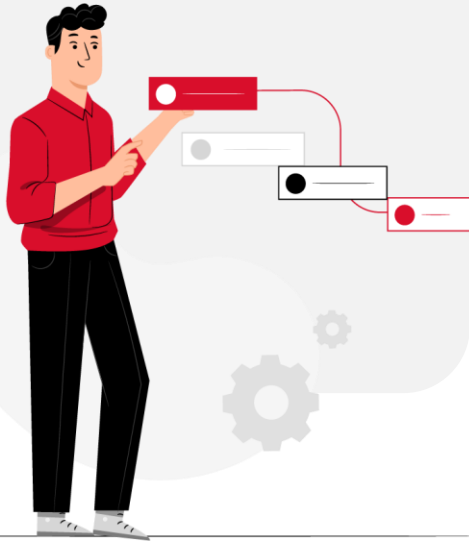
Data Mesh Architecture

What the service is, what you get, and the benefits

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Service Description

Assess, design and implement a data mesh approach so teams can publish and use shared data products safely. Define operating model, governance, standards and platform patterns for cross-domain data sharing. Helps large organisations scale analytics and data delivery while keeping central oversight for security, quality and compliance.



Service Features

- Data mesh suitability assessment for your data estate and organisation
- Data mesh architecture design and target operating model definition
- Data product definition, ownership model and publishing standards
- Data sharing and interoperability standards across domains
- Governance processes for security, quality and compliance
- Platform patterns for self-service data publishing and access
- Integration with cloud, on-premise and legacy data sources
- Roadmap and delivery plan for data mesh implementation
- Enablement for domain teams through coaching and playbooks
- Measurement and reporting for adoption, usage and data quality



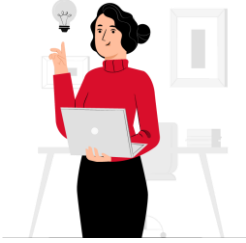
Service Benefits

- Scale data delivery by sharing data products across teams
- Reduce bottlenecks by enabling domain teams to publish data
- Improve trust through clear ownership and data quality rules
- Maintain oversight with consistent governance and access controls
- Speed up analytics by reusing shared datasets and standards
- Improve compliance by embedding security and audit controls
- Reduce duplication by standardising how data is published
- Support modernisation by connecting cloud, on-premise and legacy data
- Improve collaboration through shared data ownership and ways of working
- Make insights easier by improving discovery and access to data



Data Mesh Architecture

A practical way to share trusted data without central bottlenecks



What this service is for

Make data products easy to publish, find and reuse safely

When lots of teams need data, a single central pipeline model becomes slow and fragile. People duplicate extracts, reinvent definitions, and spend time reconciling numbers instead of acting on them. This service helps you decide if data mesh fits your estate, then design a workable approach.

We define how domains publish shared data products, and how central teams retain oversight for security, quality and compliance. You leave with clear standards, governance and platform patterns so cross-domain sharing becomes routine, not a bespoke project.

Key outcomes: Scalable cross-domain sharing | Clear ownership and accountability | Consistent controls and standards | Faster reuse of trusted datasets | Audit-friendly oversight



Why this service is useful

Remove waste from analytics delivery and reduce avoidable rework

Data mesh is useful when demand for data keeps growing, but delivery speed and trust are going backwards. Teams wait for access, build their own copies, and then argue about which version is right. Meanwhile, security and compliance teams struggle to evidence consistent controls across a widening estate.

This service gives you a decision-led, governed route to scale: what changes for domain teams, what stays central, and how data products are published with consistent standards. It supports modernisation by working across cloud, on-premise and legacy sources, where required.

Common triggers: Central data team bottlenecks | Conflicting KPIs across teams | Repeated data duplication | Audit or compliance pressure | New platform rollout | Cross-domain use cases scaling



Why this service is different

Operating model first, then patterns teams can actually follow

We focus on the parts that make or break data mesh in government: decision rights, ownership, and evidence of control. Instead of a theoretical blueprint, we co-design the operating model, governance and standards around how your teams already work, then make the “golden path” for publishing and consuming data products clear.

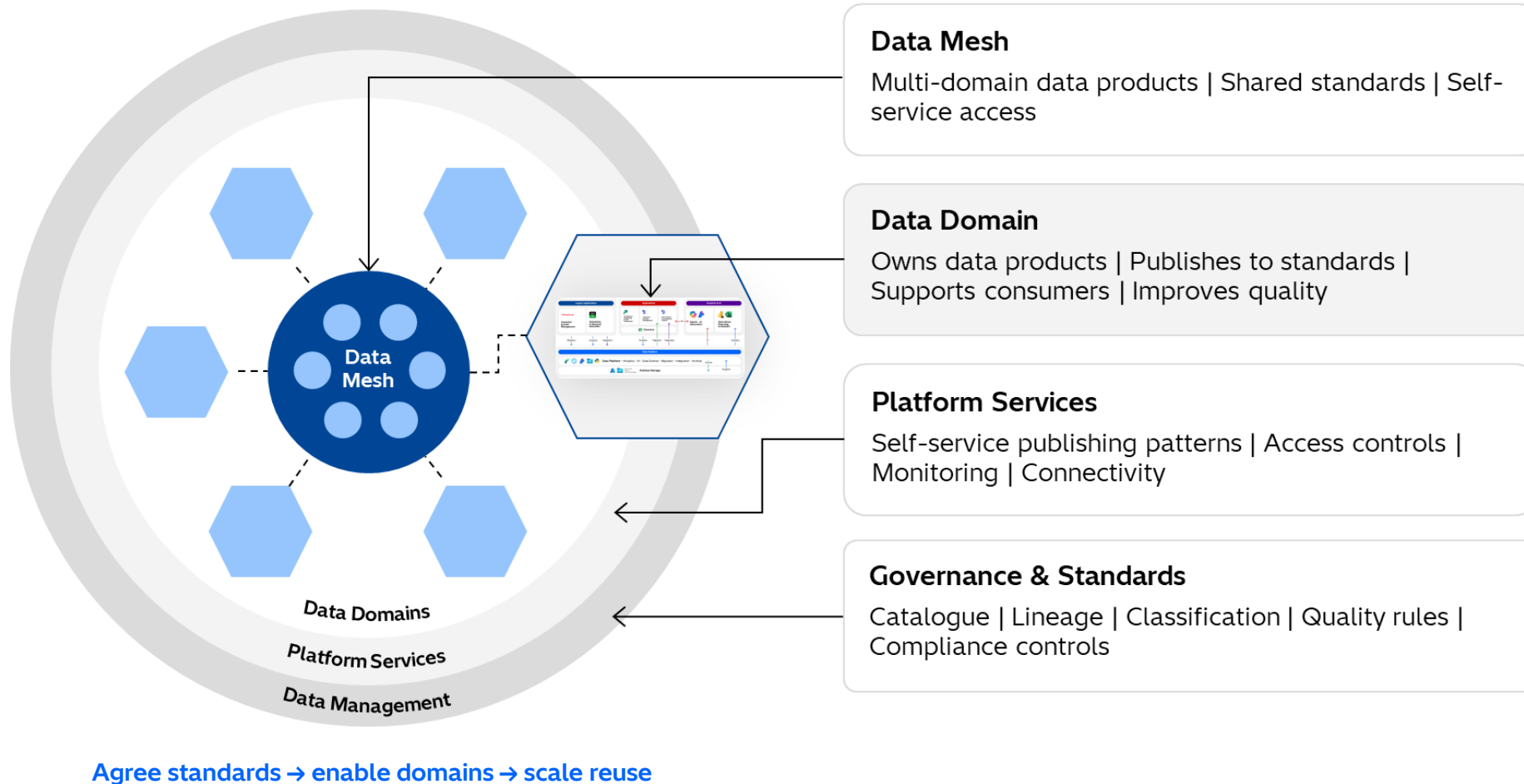
We keep delivery assurance-ready by defining acceptance criteria (where required), lightweight decision logs (where required), and practical measures for adoption, usage and data quality. The result is a model that helps teams move faster while staying compliant.

Differentiators: Decision-led design | Federated delivery with central oversight | Standards that enable self-service | Evidence-friendly governance | Measurable adoption and quality

Federated, Not Centralised

Secure-by-design, reusable, and scalable.

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How we will deliver

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Decision-led, federated, and assurance-ready from day one

We deliver in clear phases with regular checkpoints so people can see progress, review evidence, and make decisions early. That stops teams building “one-off” datasets that nobody else can use, and reduces the cycle of rework when definitions, access rules, or quality issues appear late.

Our approach makes data mesh practical. Domain teams get a simple, repeatable way to publish data products. Central teams keep consistent oversight for security, quality and compliance. The outcome is faster analytics delivery, less duplication, and more confidence in the numbers.

Mobilise

Activities

Confirm goals, scope and what success looks like. Identify priority domains and the people who own the data, run the platform, and assure risk. Agree ways of working, decision forums, and how we'll capture evidence and actions. Set up access to key systems, documents and logs so discovery is efficient.

Outputs

- Delivery plan and decision cadence
- Access, evidence and stakeholder plan



Discover

Activities

Run short sessions with domain teams to understand how data is produced, changed and used. Map the most important data flows, points of friction, and where trust breaks down. Capture where duplication happens and why. Build a first list of candidate data products, who needs them, and what “good” would look like for consumers.

Outputs

- Current state map and pain-point summary
- Candidate data product backlog and priorities



Design

Activities

Co-design the target operating model: who owns each data product, who approves changes, and how issues are resolved. Define publishing standards that make products easy to find and reuse: naming, metadata, versioning, and clear interfaces. Agree consistent controls for access, quality rules, and auditability. Set platform patterns that make publishing repeatable, not bespoke.

Outputs

- Operating model and governance pack
- Data product standards and publishing patterns



Embed

Activities

Turn the design into a practical roadmap: which products first, what needs to change, and who does what. Create simple playbooks for domain teams covering publishing steps, quality checks, and consumer support. Set up measures for adoption, reuse and quality so progress is visible. Run a handover session so teams can start working the new approach confidently.

Outputs

- Prioritised roadmap with owners and timelines
- Enablement playbooks and measurement dashboard outline
- Publish a starter data product using the agreed standards.

At the end, you have:

Measures for adoption, reuse and data quality

Enablement playbooks for domain teams

Data product definition template and publishing standards

Prioritised roadmap with owners and timelines

Target operating model and governance pack

Platform publishing patterns for self-service access

Data mesh suitability assessment and recommendations

Interoperability standards for cross-domain sharing

The Hitachi logo is displayed in a bold, white, sans-serif font in the upper right corner of the image. The background is a photograph of a grand, multi-story classical building with a curved facade, many windows, and a balcony with a decorative railing. A large Union Jack flag is flying from a pole on the right side of the building. The overall image has a muted, greyish tone.

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Hitachi Solutions Europe

UK Government Overview

Hitachi Solutions for the UK Government

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Our **vision** is to be government's partner of choice for the design and delivery of **sustainable, human-centred, Microsoft Solutions and digital services**.

Human-centred Services

Every service starts with people and how technology can make their day simpler.

+

Deep Microsoft Expertise

Hitachi Solutions is dedicated exclusively to the Microsoft ecosystem.

+

Emotionally Aware Delivery

Our former civil servants bring deep understanding and cultural alignment.

=

+

One Hitachi

Hitachi Solutions is part of Hitachi, Ltd., one of the world's largest and most respected organisations.

Sustainable government transformation.

Human-centric by default.

Powered by Microsoft.



Our Credentials

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Microsoft



Microsoft global Government and Finance
Partner of the Year 2025

Microsoft Partner of the Year 2025 Finalists in
Build and Modernise AI Apps, Dynamics 365
Supply Chain, Dynamics 365 Sales and Customer
Insights, and Low Code Application Development

22 Years in **Microsoft's Inner Circle**
(including 2025)

Microsoft Solutions Partner across AI Business
Solutions, Cloud and AI Platforms and Security
with **18+ specialisations**

Industry



Keystone member of the **Government Digital
Sustainability Alliance**

Crown Commercial Service Supplier

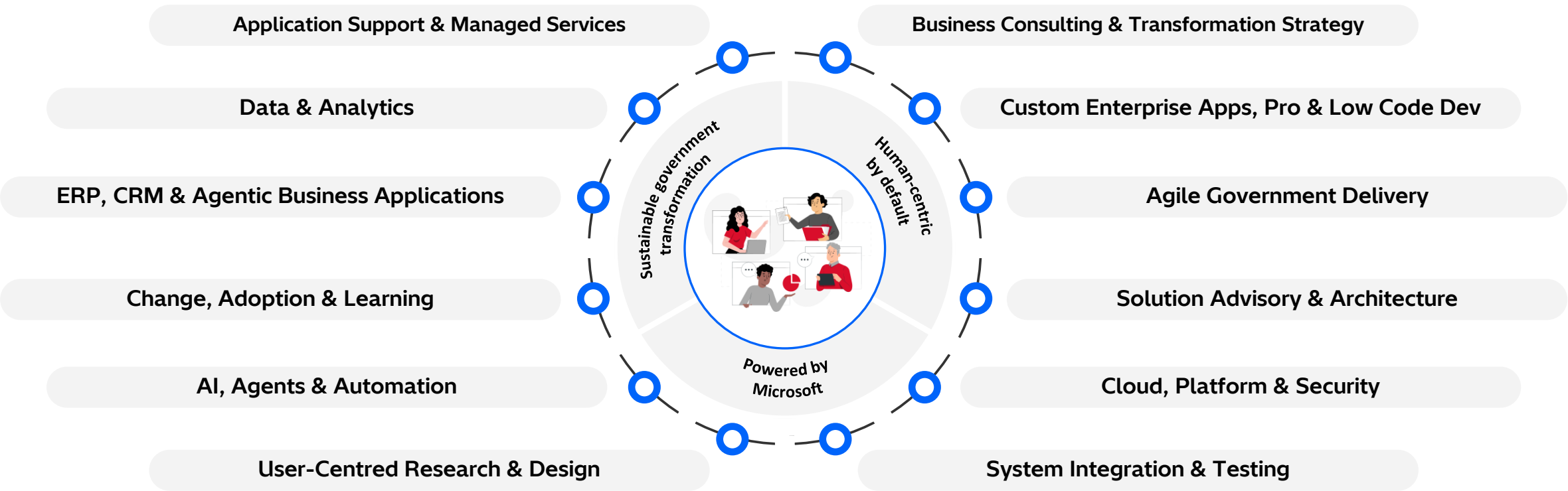
Cyber Essentials Plus Certified

ISO-certified across Quality, Environment, Service,
Business Continuity, Information Security, and
Privacy Management

Recognised in the **Smarter Working Live Awards**
for our regulatory services Customer Experience
work with the Environment Agency

Our Services and Expertise

Sustainable business transformation through tailored advisory, consulting, and technology solutions.



Our Clients



"Hitachi Solutions brings substantial digital expertise to the table, complementing our robust business experience. Their insights have been instrumental in identifying opportunities for enhancement and accelerating our initiatives."

Gillian Pratt
Deputy Director Future Regulation
at Environment Agency



"Hitachi Solutions brought in a great project team who we kept for the full duration; they engaged with The Royal Mint side of things very effectively. It really felt like they were part of our own team."

Richard Hobbs
CIO The Royal Mint



"Hitachi Solutions bring the innovation, space and expertise needed to deliver digital transformation at a pace that is needed."

Andy MacDonald
Director of Customer Services,
Aberdeen City Council



"Hitachi Solutions were really good to work with, expertly turning our processes into slick system functionality. Their patience, understanding and "one team" approach to this project facilitated a free-flowing, inclusive environment. Hitachi Solutions' expert technical teams have delivered a great user experience, employing creative thinking to deliver to our often complex requirements."

Daniel Saward
OIA Head of Digital Technology



"DHSC collaborates closely with Hitachi Solutions LTS, emphasising the significance of our enduring partnership characterised by collaborative teamwork and mutual trust. Operating with a framework of high trust and capability, Hitachi Solutions ensures the delivery of quality and excellence to DHSC. Hitachi Solutions should be very proud of their track record in DHSC."

Bryan Rayner
Head of IT Business Systems



"Right from the start, we recognised in Hitachi Solutions a potential partner that would listen to us and really recognise the value of what we were trying to achieve, the lifesaving benefits of what we were trying to build and support."

Alex Duncan
Chief Technology Officer



Centre for Environment
Fisheries & Aquaculture
Science



Department
for Environment
Food & Rural Affairs



Valuation Office
Agency



HM Revenue
& Customs



Rural Payments
Agency



City of Westminster



Homes
England



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AND CHELSEA



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Land Scotland
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