



**National Federated
Compute Services**
NetworkPlus

NFCS Spring meeting Introduction

26th February 2026



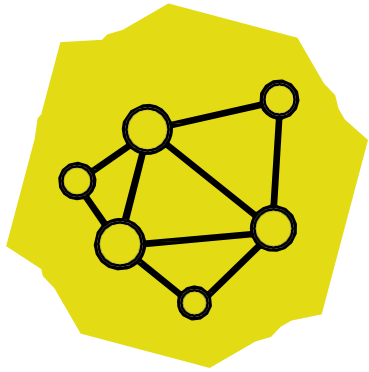
Our vision is a diverse and joined-up ecosystem of National Federated Compute Services, unlocking the UK DRI for all

Our mission is to create an inclusive roadmap to show the way to create a truly sustainable, inclusive and interconnected DRI

Our strategy is to leverage our portfolio of diverse and innovative flexible funding projects to generate the evidence and community needed to achieve our mission



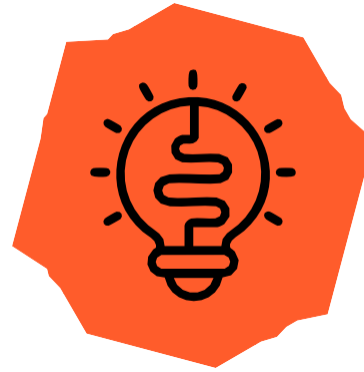
Key principles



Decentralisation



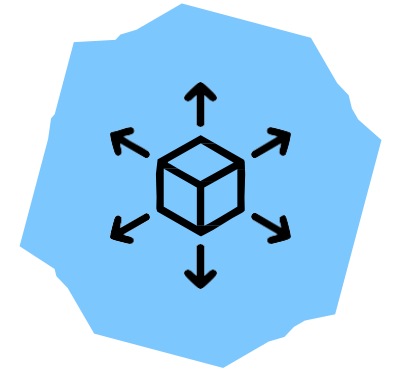
Interoperability



Autonomy



Security and Privacy



Scalability

These are critical to create a federation in line with and respecting DSIT and UKRI strategy and roadmaps and to leverage existing investments – we have to pull together existing collaborations and communities



Project Objectives

Create a community of practitioners around federation of compute and data resources

Create a roadmap that shows the way to achieving the ambition of a national R&I computing federation

To be achieved by a two-year project – running until the end of September 2026



Project Objectives

Create a community of practitioners around federation of compute and data resources

Create a roadmap that shows the way to achieving the ambition of a national R&I computing federation

Organise national events and workshops to bring people together

Coordinate with UKRI-DRI and other Network Plus activities

Support community building and collection of evidence for the roadmap through flexible funding projects

Flexible funding Projects

1 Inclusive Futures: User stories and mapping pathways for National Federated Compute Services

2 Federated AI application container platform / registry feasibility study

3 Enhancing HPC adoption through user-centred design

16 Evaluation of Secure Federated Kubernetes Storage for Trusted Research Environments

17 Net-Zero and Circular Economy Federation: Evidence-based Policy Roadmap for Carbon-Aware Compute in the Built Environment

18 Federated data movement

4 Federating Everything, Everywhere, All at once

5 UKRI research data landscape survey

6 Bridging the Gap: Aligning project administration with access to digital research infrastructure

19 DRI Federation Cybersecurity Roadmap development

20 Identifying Barriers for Biology Researchers Using Federated HPC Services

21 Exploring the governance requirements for enabling UK DRIs to adopt MyAccessID

7 Towards a common data infrastructure for laboratory science

8 Federated Edge-HPC architectures for AI workflows in privacy-sensitive and real-time domains

9 UNITED: A Framework for federated computing roadmaps

22 Supercomputers and Superpositions: Making Quantum Accelerators Accessible Within HPC Frameworks

23 Tokenised Authentication for Research Computing Services (TARCS)

24 FAIR-Compute: A Roadmap for Fair and Efficient Allocation of Federated Digital Research Infrastructure

10 Exploring the requirements and technologies for a data centre API

11 Federation of compute and infrastructures in the arts and humanities

12 A federated bespoke AI-assisted helpdesk for DRI facilities

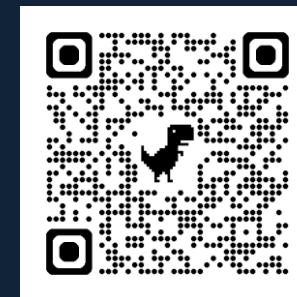
25 ACCoRD (A Community for Contract Regulation for Data)

26 Federated data access across the DRI

13 Surveying accessibility of federated compute for junior researchers

14 Job Orchestration using Constellation on Heterogenous HPC resources

15 Federated IAM for existing infrastructures



Flexible funding Projects



Conference Objectives

Share progress and experience across projects

Continue to build community around national federation

Stimulate discussion of the roadmap and next steps

