



UKRI Networking and AAI White Papers

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Networking White Paper / Roadmap

• Vision

- maintain a world-class NREN capability
- a NREN capability isn't just Janet
 - reach: campus ⇔ globally
 - for both data and people
- a federation: campus/Janet/GÉANT etc.

• Rationale

- dealing with data at increasing scale
- leadership in research collaboration
- aggregation and re-use of data

NREN = capacity + resilience + security

• Roadmap/recommendations

- Janet investment roadmap
 - maintain fitness-for purpose out to 2030
- increase campus networks capability
 - expectations, planning, e2e tuning
- increase national capability
 - roaming, technology futures, testbeds
 - skills in new networking technologies

• Asks of UKRI

- strategic participation in NREN
 - help maintain Janet investment
- additional central funding (£5m p.a.)

Other White Papers/Roadmaps: fit with network WP

<p>Supercomputing, Research Data Infrastructure</p> <ul style="list-style-type: none">• current connectivity in place• enhanced network bandwidth in future• Data Transfer Nodes and infrastructure	<ul style="list-style-type: none">• strategic planning UKRI/Jisc• enhanced campus network capabilities• early identification of network needs of nationally significant R.(e-)I.• focus on making e2e business-as-usual

AAAI White Paper / Roadmap

- **Vision**

- straightforward and consistent access ... by all researchers ... from anywhere
- with security/assurance appropriate to the resources being accessed

- **Rationale** (for a national federation)

- security (consistent management)
- cost reduction (in implementation)
- portability (towards “single sign-on”)
- return on investment (wider use of funded resources)

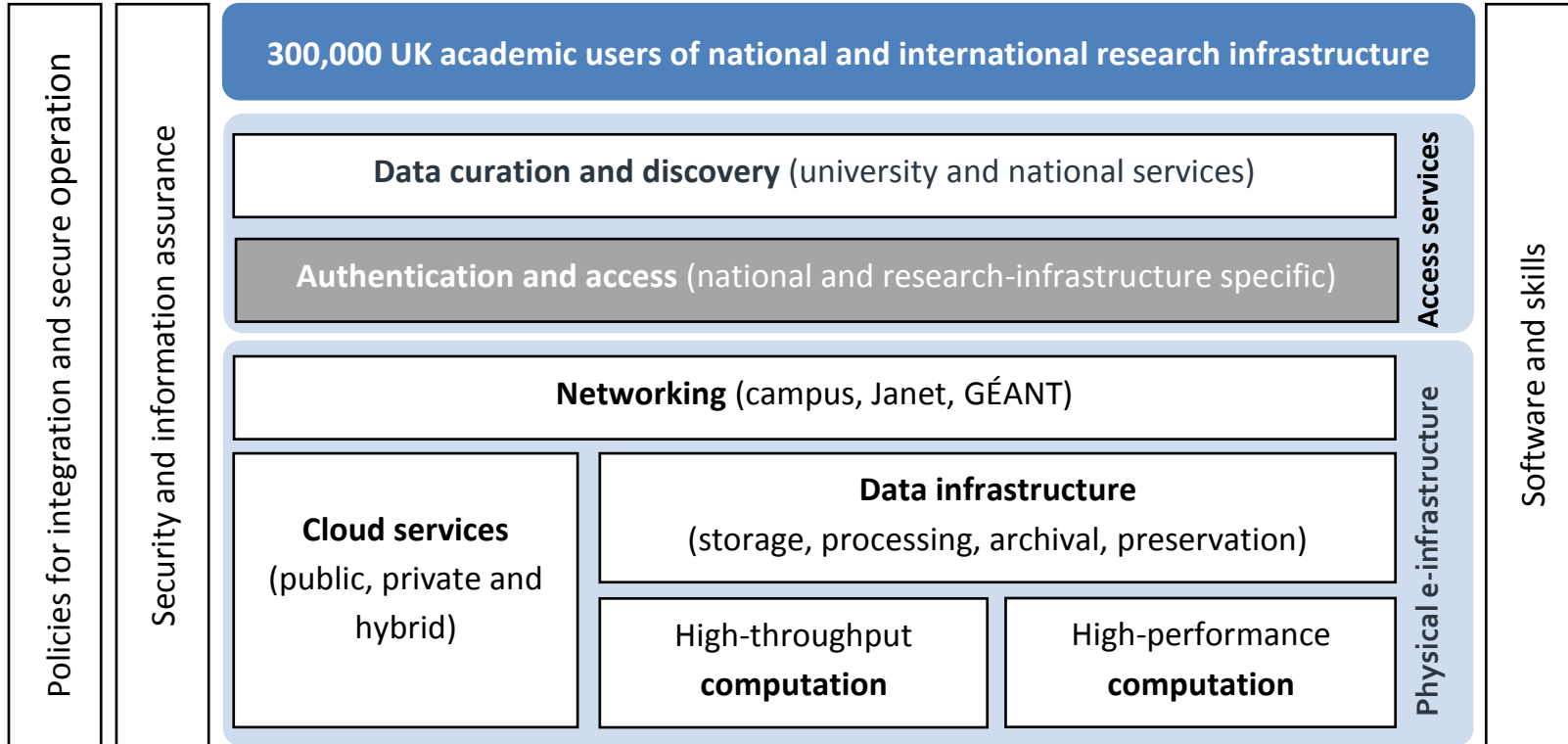
- **Roadmap** for a national federation

- governance and engagement
- development programmes
 - reference architecture the first step
- integration into the federation
 - pathfinder phase needed
- support and outreach

- **Asks of UKRI**

- strong policy lead
 - through grant conditions etc.
- modest central funding (£1-2m p.a.)

Interaction with other parts of national e-infrastructure



Interaction with other parts of national e-infrastructure

