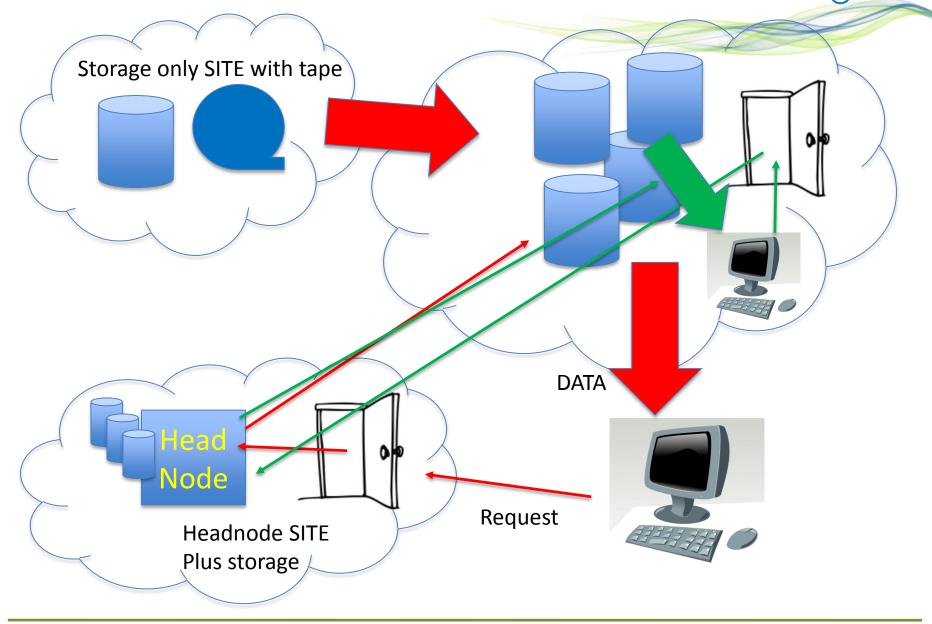


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dCache federation design dCache.org



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Features available



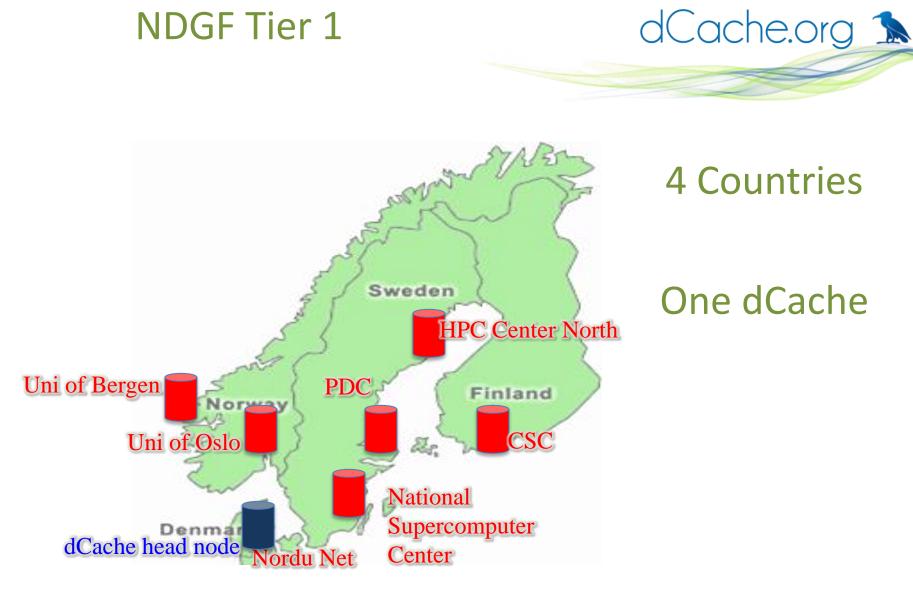
- Federation works for essentially all protocols
 - http/WebDAV
 - gridFTP
 - NFS4.1 / pNFS
 - dCap/xrootd
- Preferred write location depending on IP (location) or directory path (if requested)
- Preferred 'local' read access if data is available
- Replication
 - Automatic replication on write (to remote site)
 - Automatic lazy replication with 'n' copies.
 - Permanent replication based on data type.
 - Manual 'scheduled' data transferred for improved data location or hardware component decomissioning

Considerations



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- Component upgrade compatibility within a major release.
- Trying the same between major releases but not always possible.
- Hot standby of headnodes possible.
- Upgrading headnode means 'deadtime' for the entirre system.
- "Short downtime" mechanisms are possible but never tried out.



4 Countries

One dCache

Slide stolen from Mattias Wadenstein, NDGF

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