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CIF21 DIBBs: EI: Element: The Virtual Data Collaboratory: a Regional Cyberinfrastructure for Collaborative Data Intense Science

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"A federated data cyberinfrastructure for data-intensive, interdisciplinary and collaborative research."



RUTGERS
Discovery Informatics Institute



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Key VDC features:

- A dedicated high-speed network, compute and storage **resources federated** over the participating institutions;
- **Data discovery**: a set of Data Services including indexing, cataloging, sharing and metadata management;
- An **Internet-scale execution platform** for containers, allowing to distribute complex distributed analytics close to the data source;
- A network of **high-performance DTNs** equipped with fast storage for implementing smart data delivery strategies.

Achievements and Impact:

- VDC connects people with data and compute;
- Enhanced early warning using online data fusion from large facilities
- Structural bioinformatics

