Open Science Cloud

Gaps?

(I have limited knowledge of the Open Science Cloud so I will do the best I can)

OSC is an ambitious and all-encompassing vision (a good vision)

- Huge projects often fail
- Therefore prioritizing, phasing, planning and management of this process is extremely important (critical)

Science is global:

- Are Open services Open to those outside of Europe?
- Canadian scientists always work with Europeans

Is the Open Science Cloud sufficiently “researcher-driven”?

Multi-disciplinary data infrastructure is a new challenge

Open Science Cloud

Barriers?

Reliance on commercial resource providers may be a barrier to internationally Open services

- If user pays then sharing with international partners may be difficult

Telescopes: User (partner country) pays for precisely a certain share of the time

- But the data output is (after a proprietary period) fully Open to all

Formal international cost-sharing agreements?

- May be difficult and complex

Moving Forward

An observation:

There are many successful examples of data-centric research systems

- All have been driven by scientists
- All have been implemented by intimate scientific-technical collaborative teams
- What are the implications of this fact for OSC?
- How does this development model translate to multi-disciplinary research infrastructure?

International Virtual Observatory Alliance experience:

- InterOperability at the level that will really support leading-edge researchers is very difficult (but not impossible)
- Multi-disciplinary Interoperability is uncharted territory
- Superficial (“thin layer”) integration of heterogeneous resources
- Use the short technology refresh cycle to achieve a more profound level of integration and interoperability (homogeneity of resources?)