OSCARS
Open Science Clusters' Action for Research & Society

Funded Project

VISA: User experience enhancement

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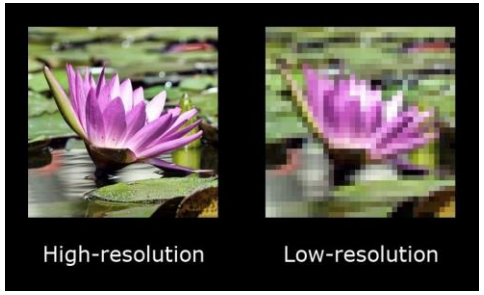
CHALLENGE ADDRESSED

What problem(s) are you going to solve?

- VISA (Virtual Infrastructure for Scientific Analysis) is a Virtual environment for scientists to access, analyse/process data
- VISA was developed for the PaNOSC European project

- Current remote desktop solution (guacamole) has limitations:
  - Input lag
  - Graphical artefacts during movement
  - Lack of precision
  - CPU intensive on remote machine



What are you planning to do to solve the problem?

- Research phase: comparison of different remote desktop technology


- Development phase
- Industrialisation phase:
  - integration of the chosen solution into VISA
  - addressing session management and desktop sharing
  - security enhancements
  - performance improvements

What will be the results and how do you plan to make them available to the broader community?

- VISA is a Virtual environment for scientist to access and analyse data, directly connected to data storage and provide all scientific software already configured.

- Infrastructure is based on OpenStack
- Code is available on GitHub
- Public documentation is on Read the Docs

- In the broader scope, WebX provides an alternative to current remote desktop solutions.

What risks could limit the success of the project, and how can they be mitigated

- VISA is in production at ILL and in other scientific institutes

- MoU for VISA collaboration between ALBA, DESY, ESRF, ESS, EuXFEL, HZDR, ILL, MAX IV, PSI and SOLEIL

Who is doing it? (OPTIONAL)

- OSCARS/VISA project team members:

Ludovic Leroux
Oscars project
principal investigator

Erwan Le Gall
ILL Head of IT

Stuart Caunt
VISA developer

Delphine Floret
VISA coordinator