SAGE

Percipient **S**tor**AG**e for **E**xascale Data Centric Computing

Per-cip-i-ent (pr-sp-nt)
Adj.
Having the power of perceiving, especially perceiving keenly and readily.
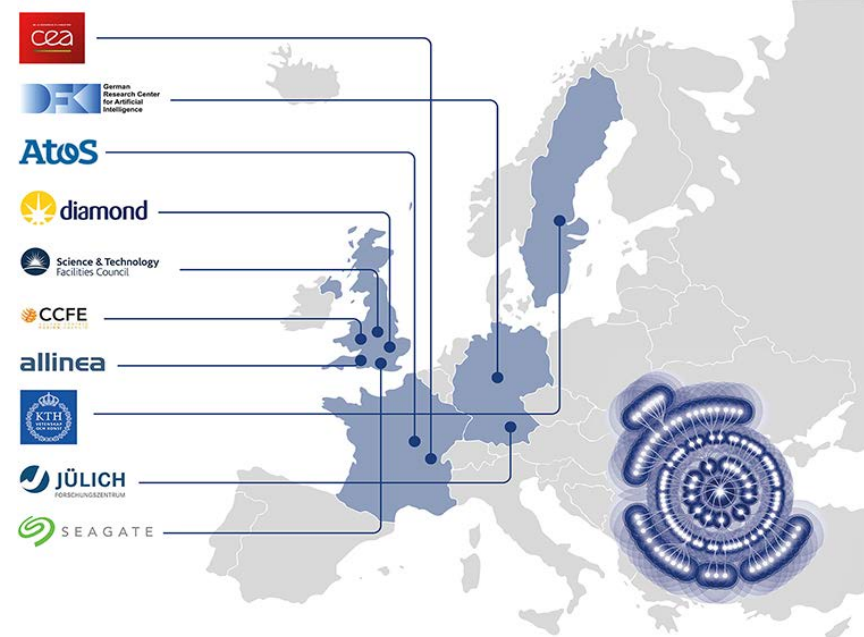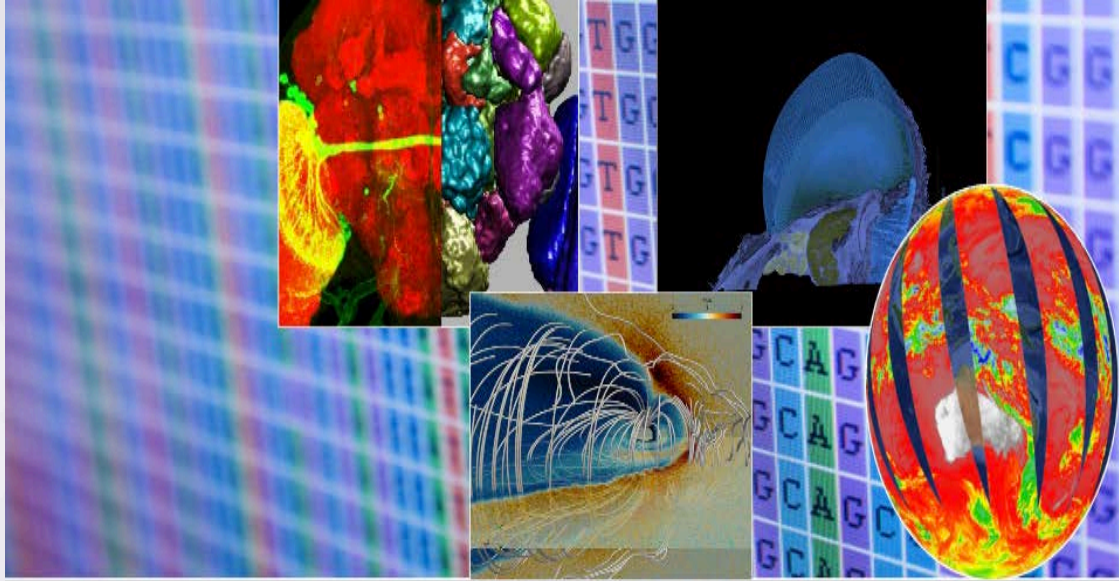*n.*
One that perceives.

Project lead by Seagate
Validated with use cases: 2018

SAGE aims to lay the foundation for future Extreme Scale/Data Intensive Storage Platforms
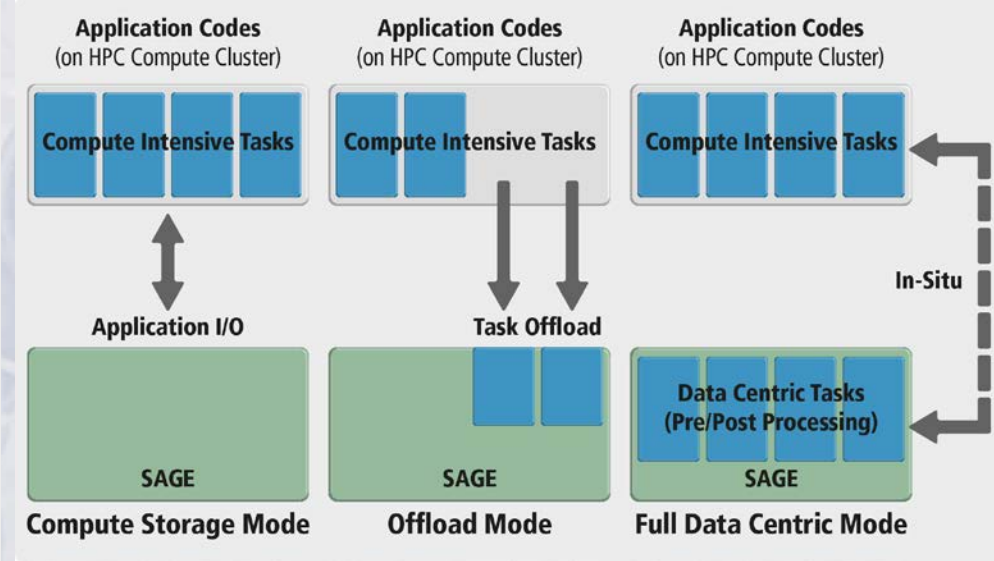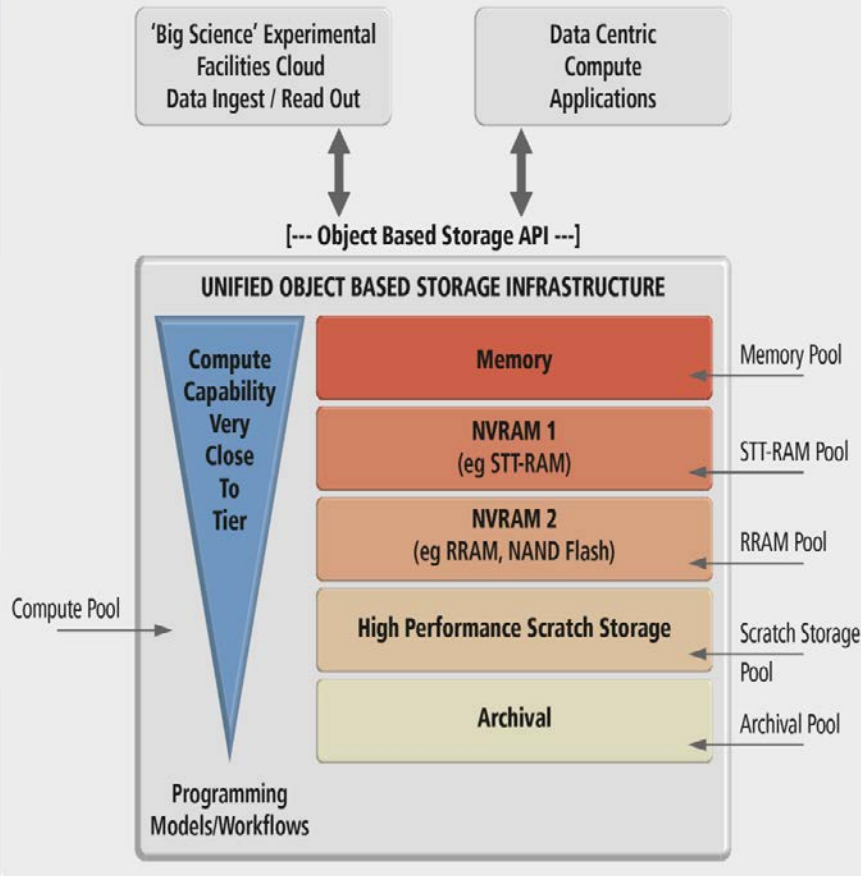
www.sagestorage.eu

Co-Design with Use cases:

- – Visualization
- – Satellite Data Processing
- – Bio-Informatics
- – Space Weather
- – Nuclear Fusion (ITER)
- – Synchrotron Experiments

Validation at Juelich
Supercomputing Center [2018]

Growing HPDA/Big Science Requirement:
Simulation & Big Data Analysis as part of the same workflow

SAGE: Co-Design
Validation with Future data intensive use cases

Status

- ✓ **Co -Design Activity**
- ✓ **Hardware Platform Definition**
- ✓ **Design of core software components**
- ✓ **Successful First EC Review**

SAGE: Architecture
In-Storage Compute and Many I/O Tiers