

Active Folder: Integrating all activities of simulation on file system(with DropBox)

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Data Centric Concept

○ Data vs Computation

- Data have been traditionally considered as part(input, output) of computing
- However, Data are more important to researcher than computation itself

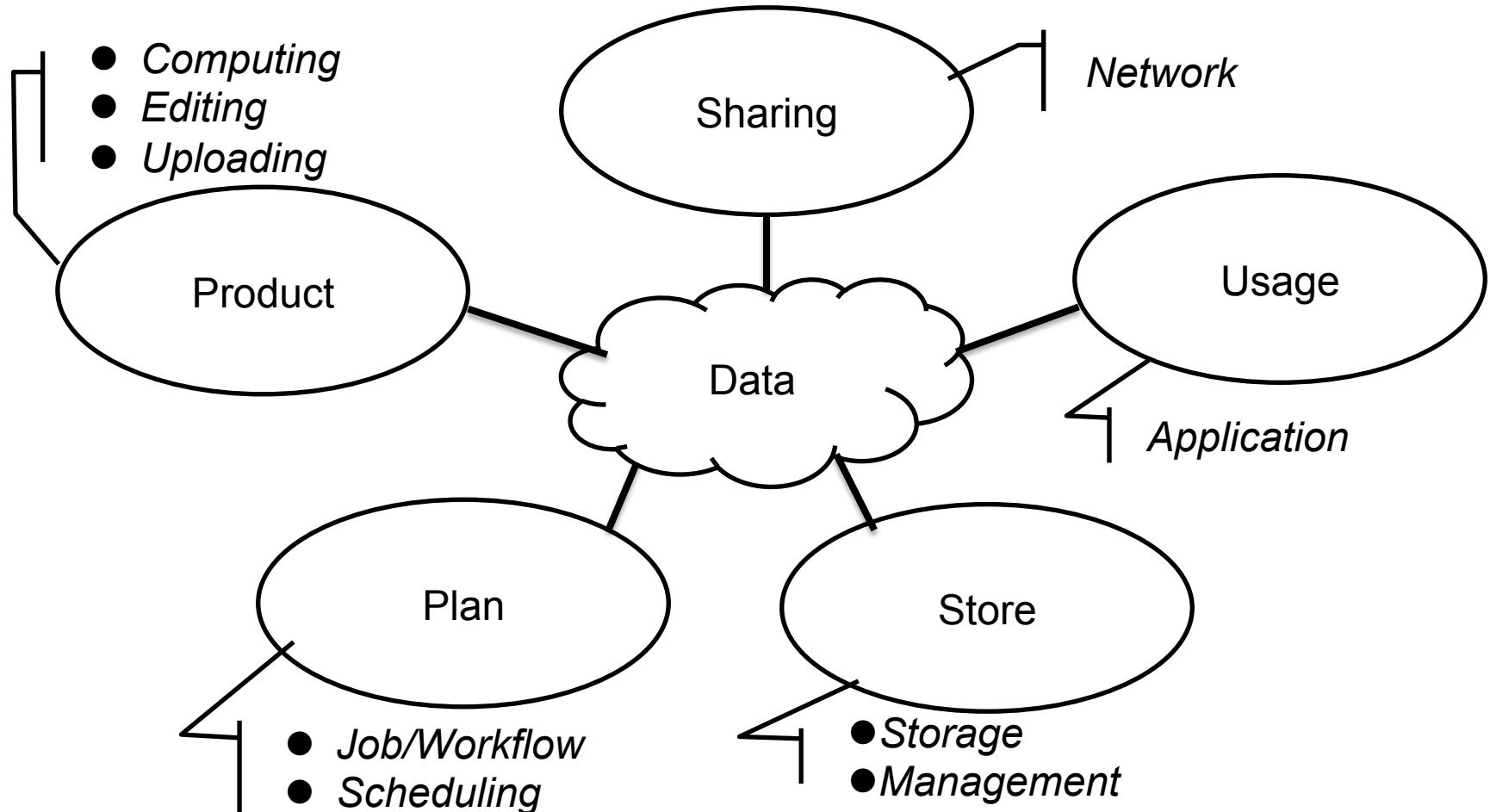
○ Typical Data Usage

- Use results for analyzing and produce new data from those
- Need to handle a lot of cases
- Use legacy SW tools which are popular in each research area

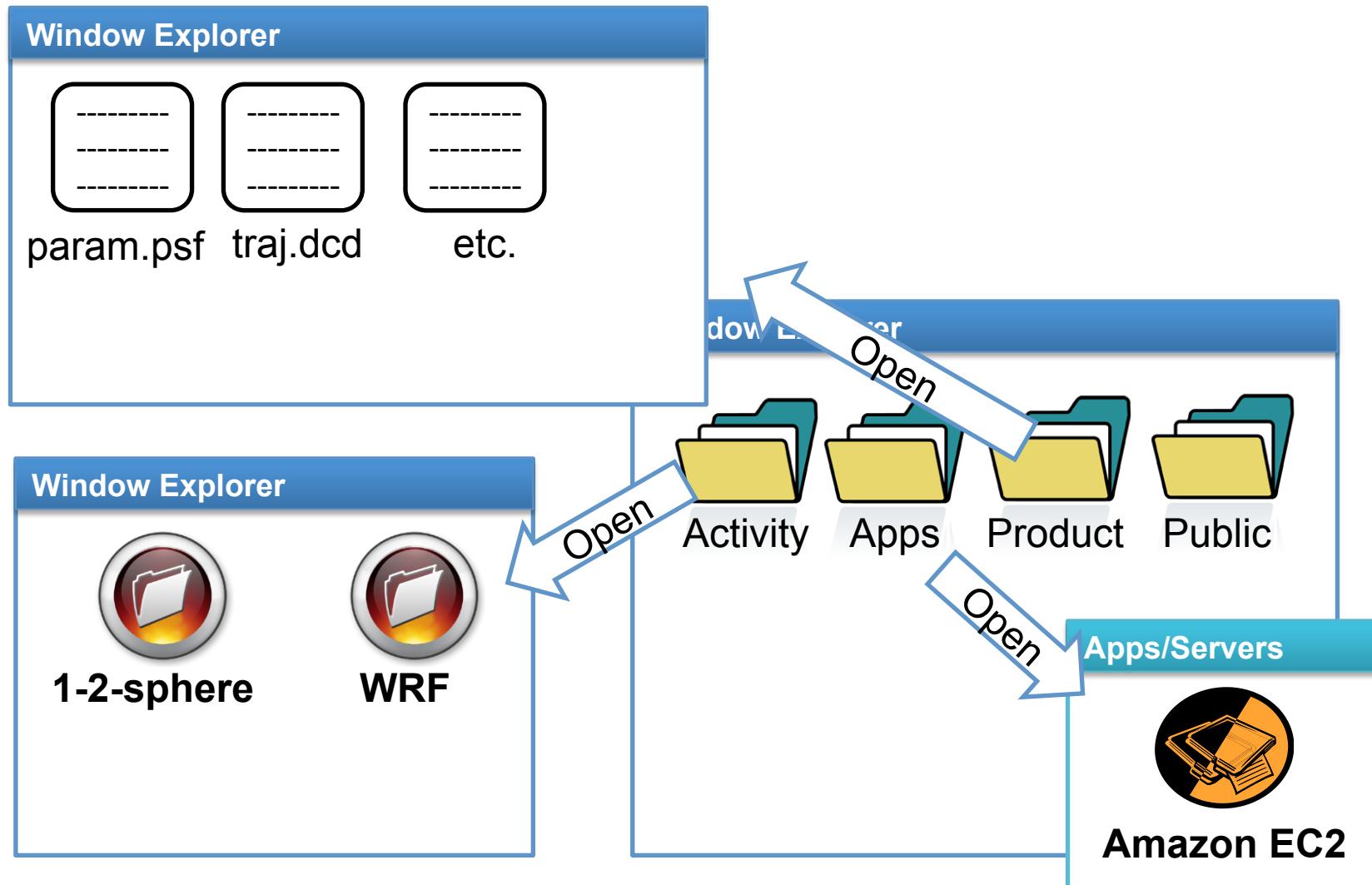
○ What we need ...

- Data themselves contain meta information
- Data are eventually located on local file system automatically and opened by legacy SW as they are
- Allow user to manage data by their own way

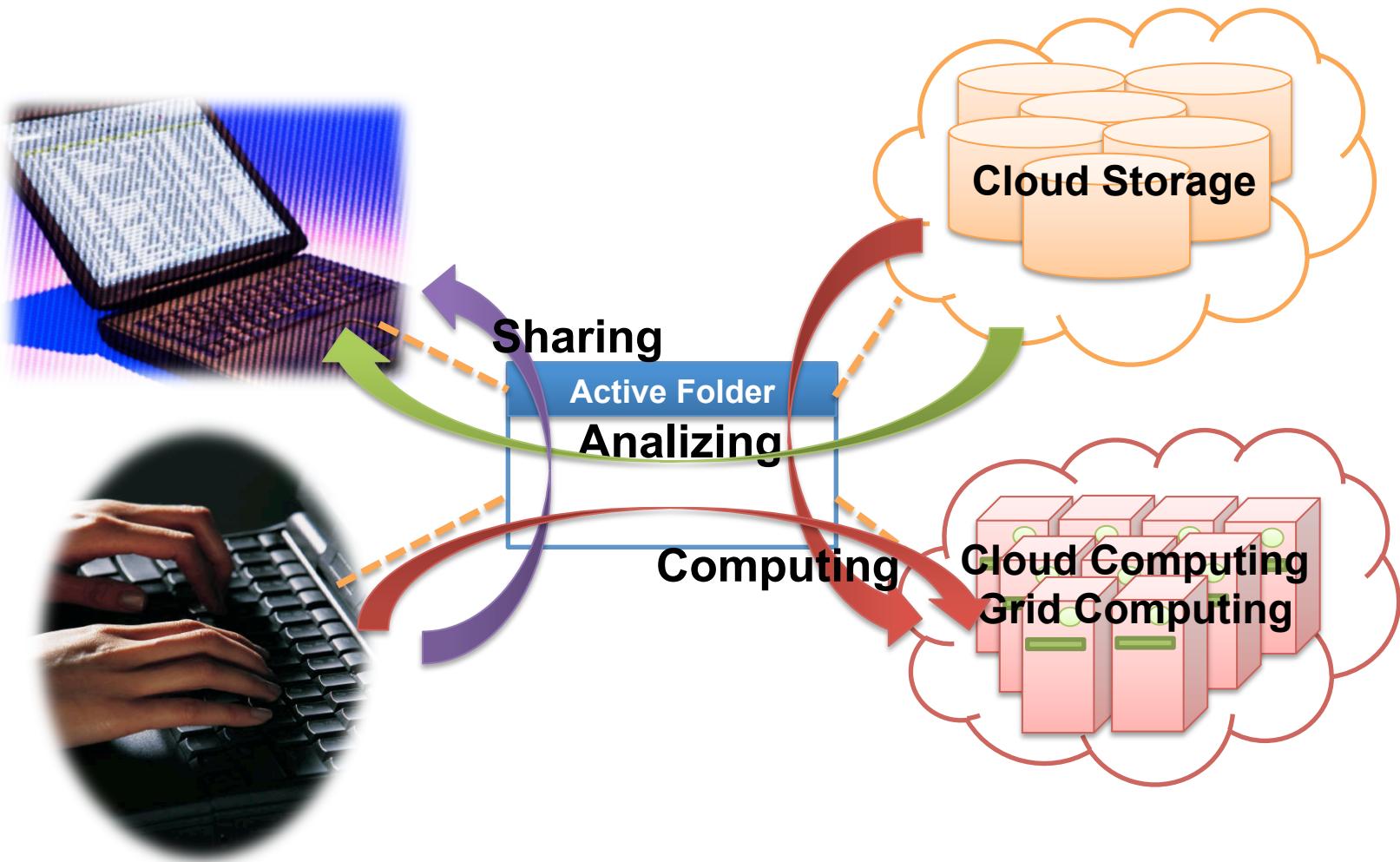
Operations on Data



Active Folder: Product, Activity, Apps



Actions on Active Folder



Active Folder – Cloud Storage

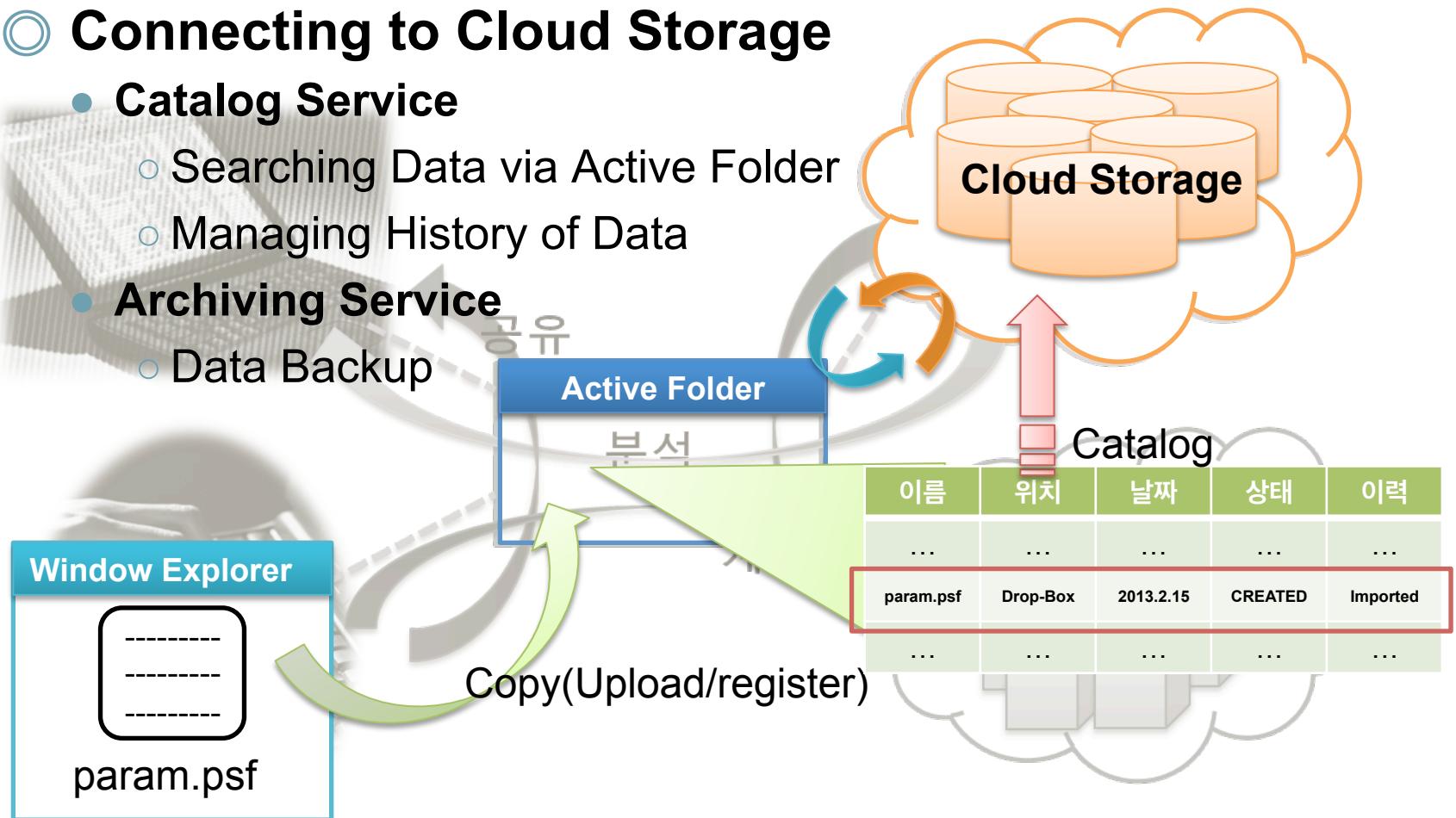
Connecting to Cloud Storage

- Catalog Service

- Searching Data via Active Folder
 - Managing History of Data

- Archiving Service

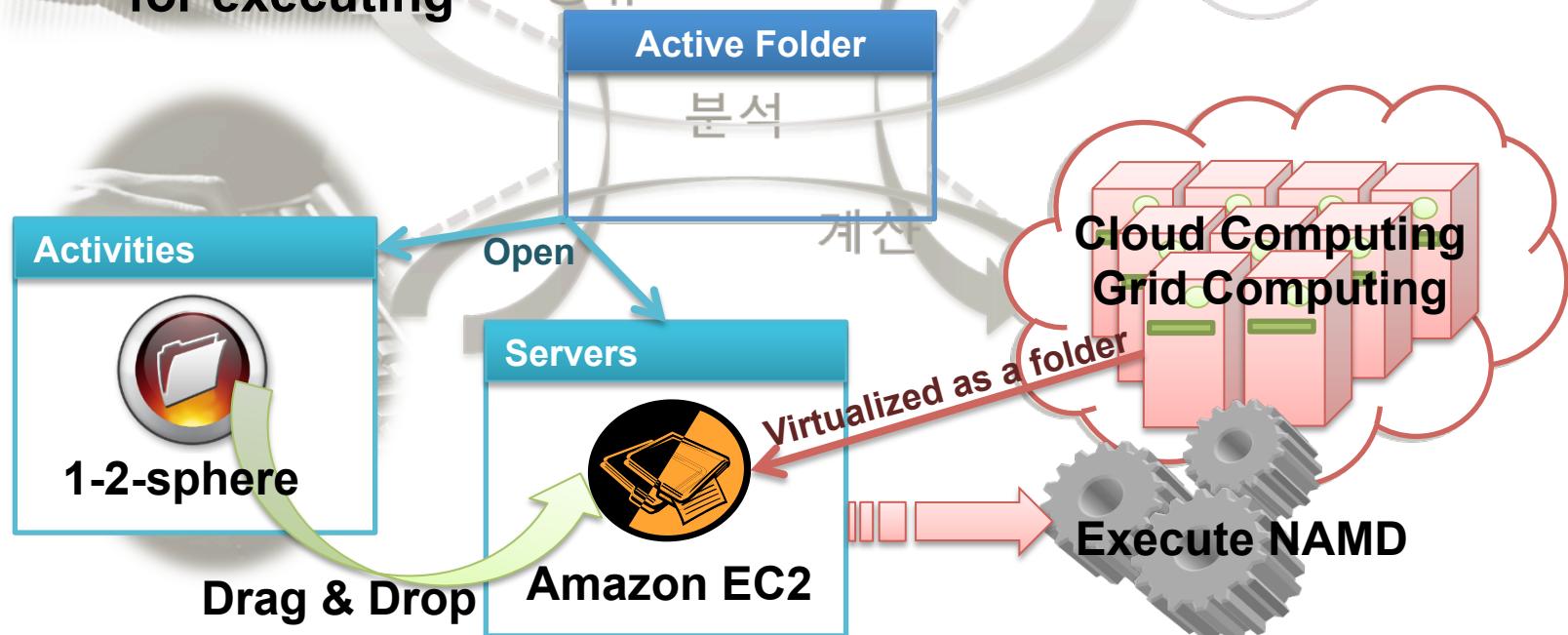
- Data Backup



Active Folder – Cloud Computing

Connecting to High Performance Computing Resource

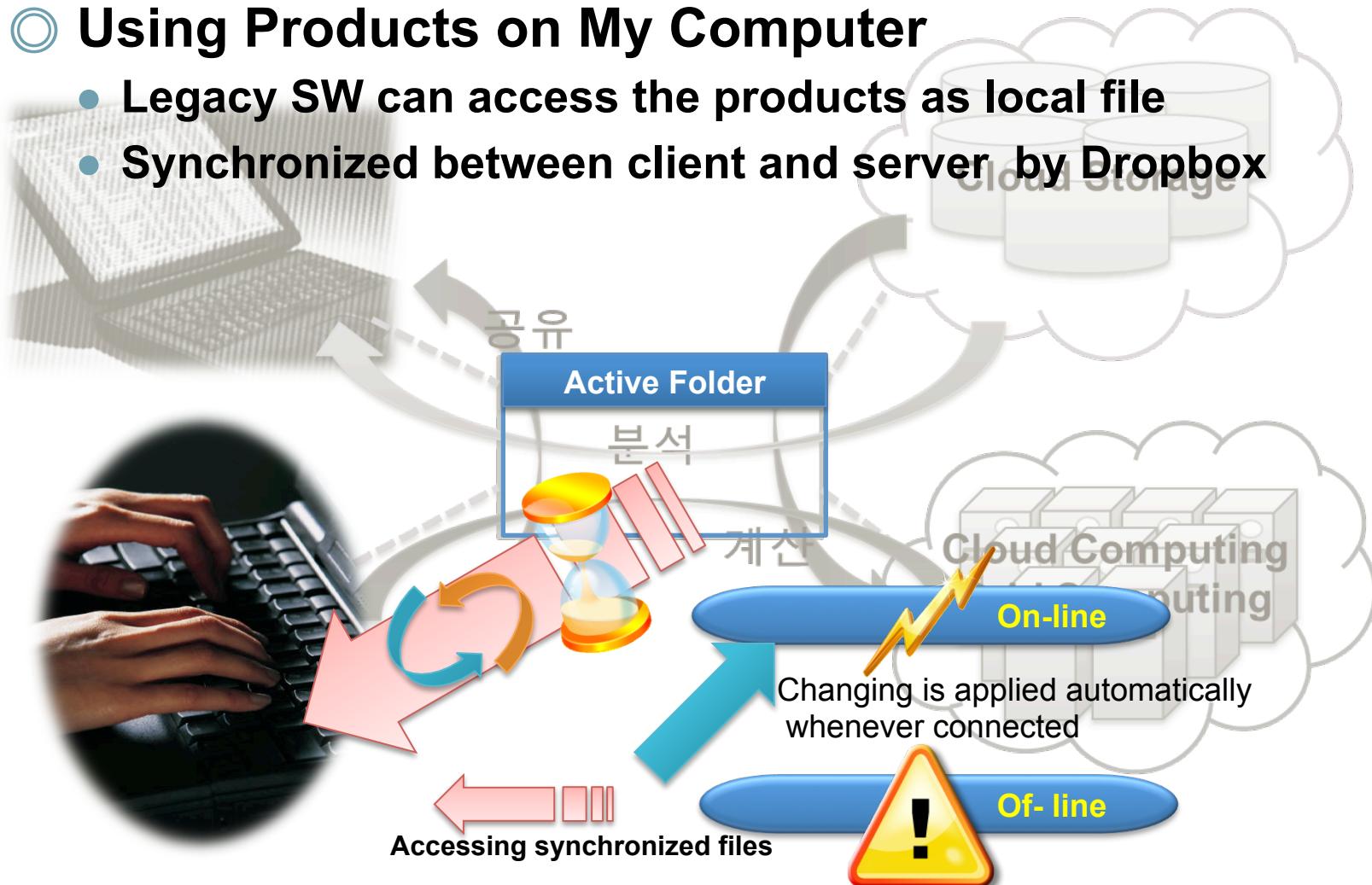
- Virtualize Grid/Cloud computing resource as regular folder
- Simply Drag & Drop Activity Folder(contains Job) to there for executing



Active Folder – Products

Using Products on My Computer

- Legacy SW can access the products as local file
- Synchronized between client and server by Dropbox



Demo

Using Active Folder

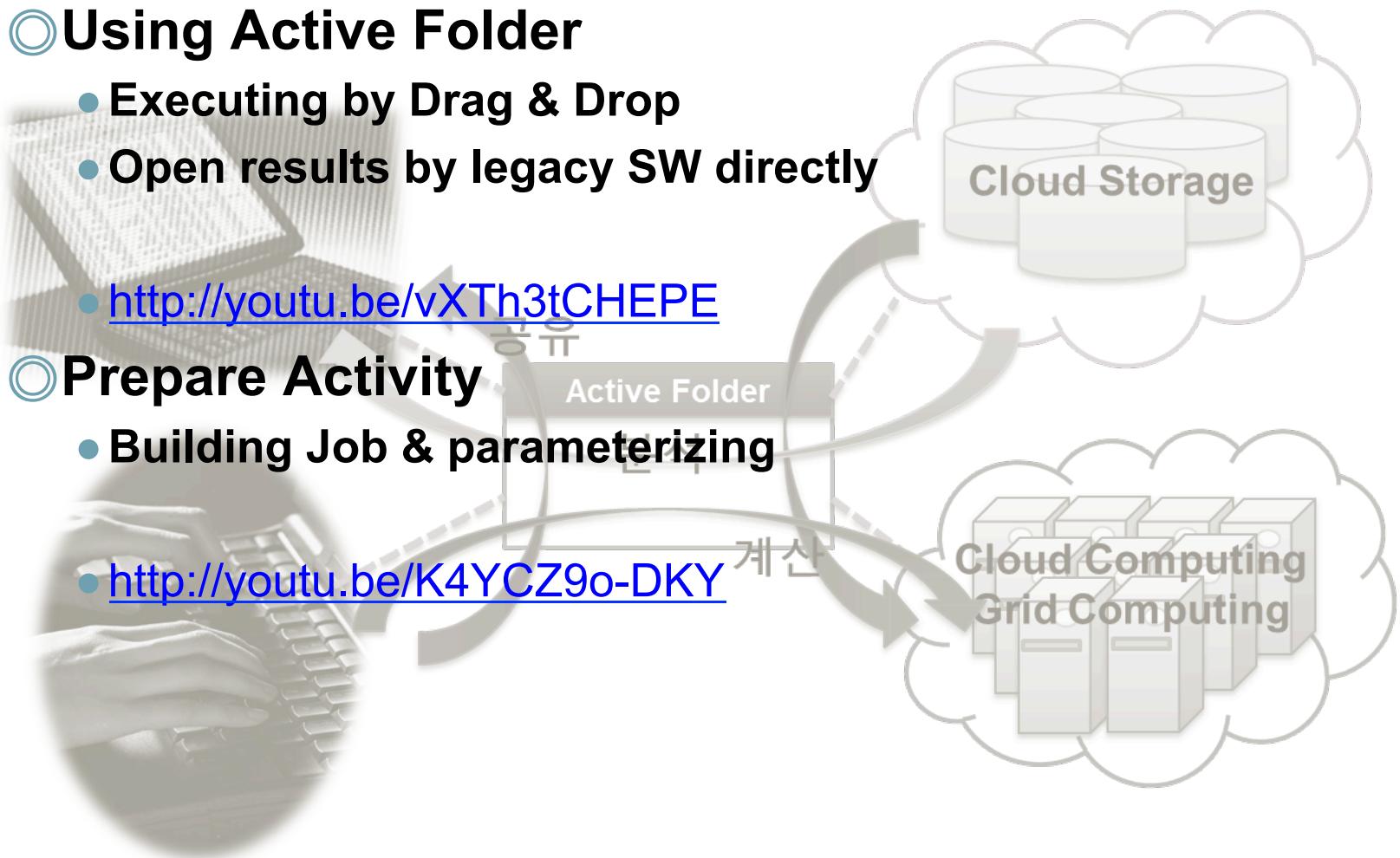
- Executing by Drag & Drop
- Open results by legacy SW directly

- <http://youtu.be/vXTh3tCHEPE>

Prepare Activity

- Building Job & parameterizing

- <http://youtu.be/K4YCZ9o-DKY>



Thank You!

Questions?