



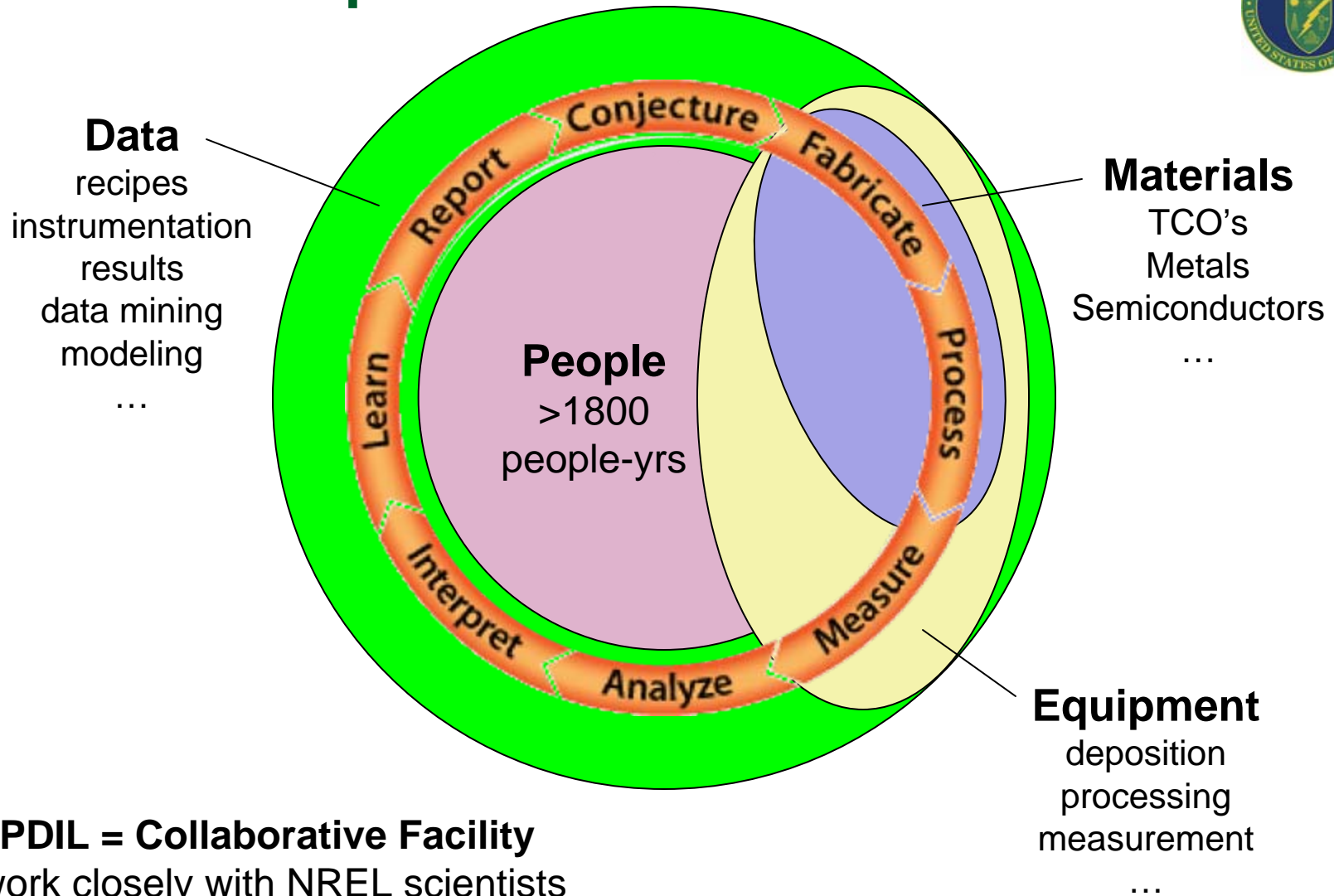
2008 Solar Annual Review Meeting

Automated Data Acquisition and Processing

Robert White



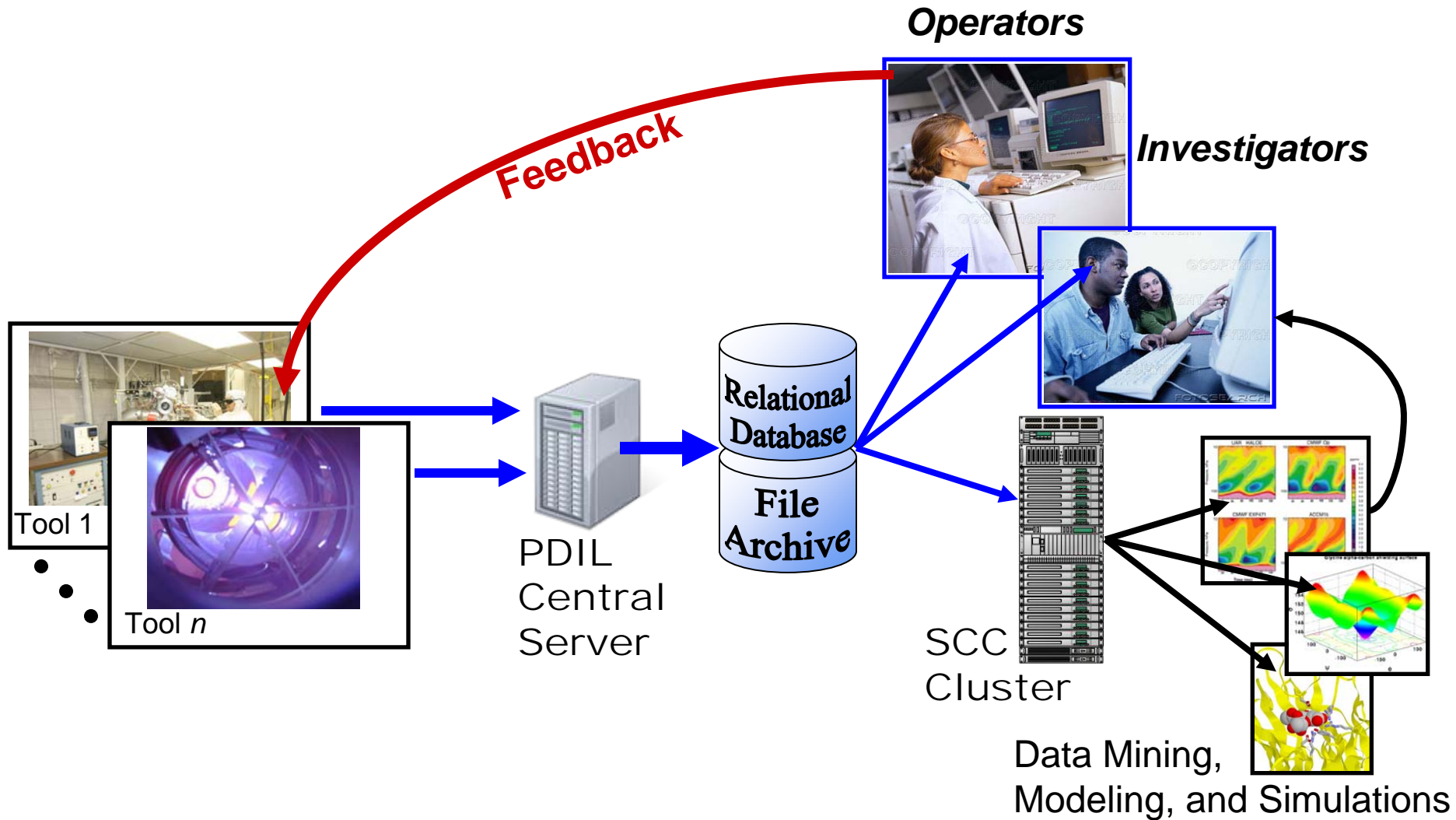
PDIL Concept



The PDIL = Collaborative Facility

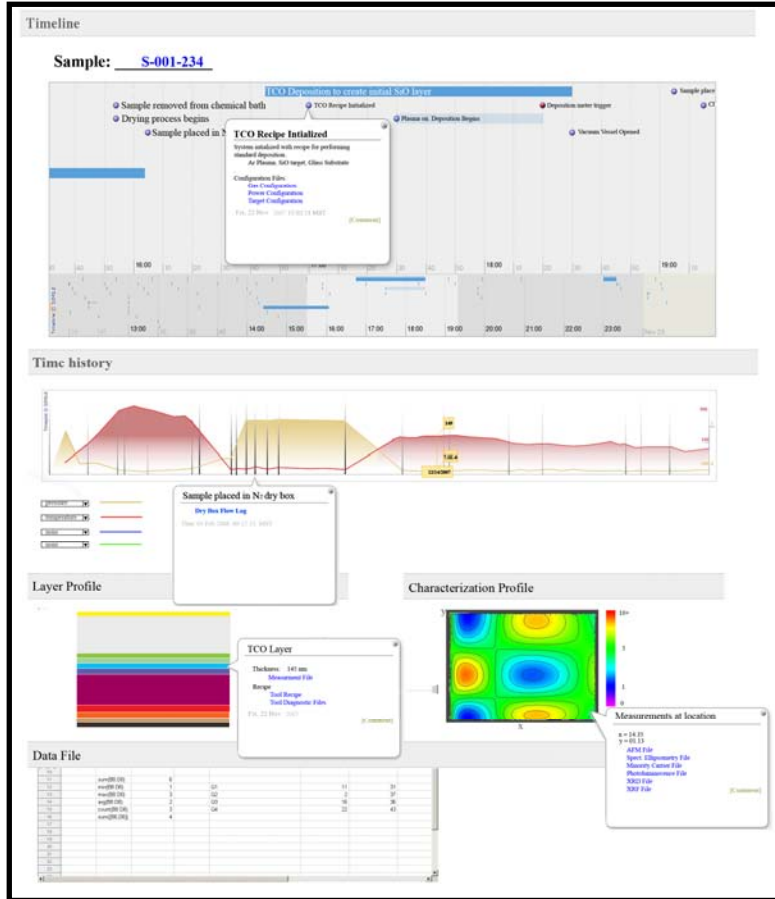
- work closely with NREL scientists
- integrated equipment
- answer pressing PV related questions

Automated Data Acquisition and Processing



Data Access

PDIL Data Explorer (Web)



Proprietary Code (APIs)

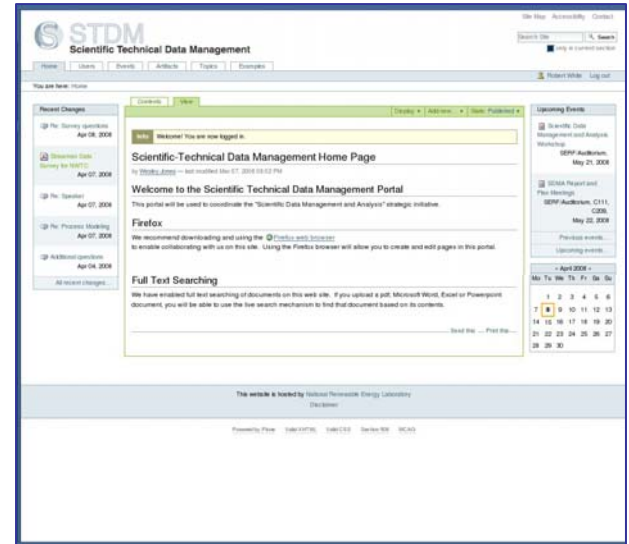
```
function GetSampleInfo($SampleID)
{
    $SampleInfo = GetSampleInfo($SampleID);
    if ($SampleInfo)
    {
        return $SampleInfo;
    }
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SCC Data Mining (Web)



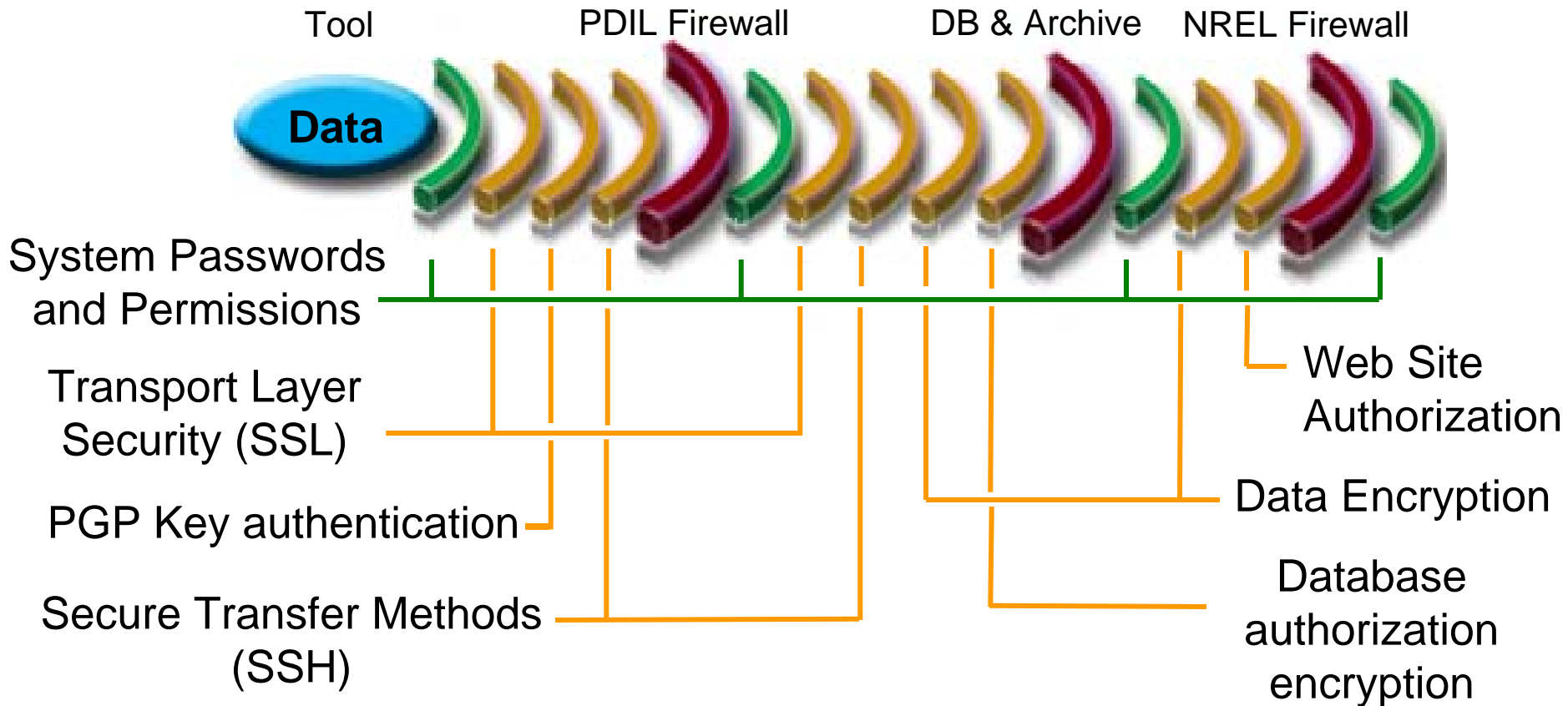
Direct Access to External Software (ODBC, File extraction, etc.)



Data Security

← **NREL Network** →

← **PDIL LAN** →



Integrating and Archiving PDIL Data Products

- Fully scalable architecture.
- Utilize existing infrastructures.
- Adaptable to all OS and tool systems.
- Unobtrusive acquisition and archiving.
- Protect and secure data.
- Provide ease of access to data.
- Provide relational data products to facilitate data mining.

