

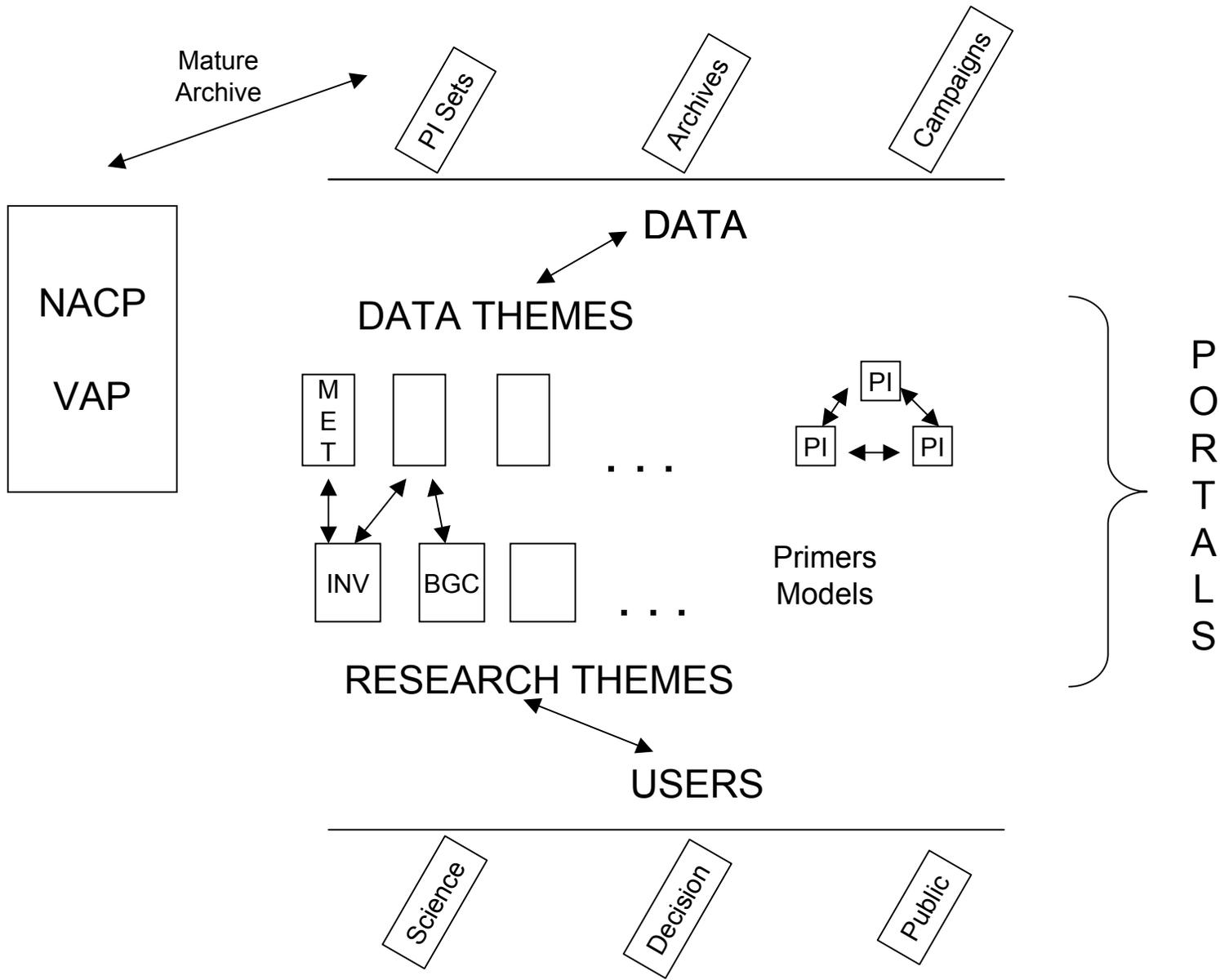
Group 1

Data Accumulation

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data management system design

- distributed
- incorporated organization by research and data themes
- research themes: inversion, inventory(budget), biogeochemical model, process model
- data themes: atmospheric transport (3D), surface meteorology, atmospheric constituents, land parameters (socioeconomic level: vegetation...), flux measurements, carbon stocks, FIA, emissions measurements (need specific variables for each theme)
- (populate a matrix of research vs data themes to communicate needs between researchers and data providers)



Assessment Matrix – Observations vs. Research Themes

	Inversion	Inventory	Biogeochemical	Process
Atm Xport				
Sfc Met				
Atm Chem				
Land Params				
Flux Meas				
Carbon Stocks				
FIA				
Emissions				
Socio-Econ				

Assessment Matrix - Discussion

- Color indicates if all data sets are available for a given research theme – green=yes, yellow=some work needed, red=none
- Expand each theme using an observation requirement spreadsheet for each research theme
- Have all PIs and related Govt users fill in the requirements spreadsheet; collate; identify how to address unmet requirements by providing alternatives, costs, risks; CCIWG and/or CCSSG decide on approaches

data management system design

- reference available datasets through central portal (mercury model?)
- Index of models used by NACP with data input requirements and expected outputs
- System needs to include inputs (data sources) and outputs (products)
- develop a common learning environment that describes use case scenario using themes e.g. a primer or description of methods of how atmospheric transport (3D) was used in a specific inversion model