



Hanford 300 A IFC

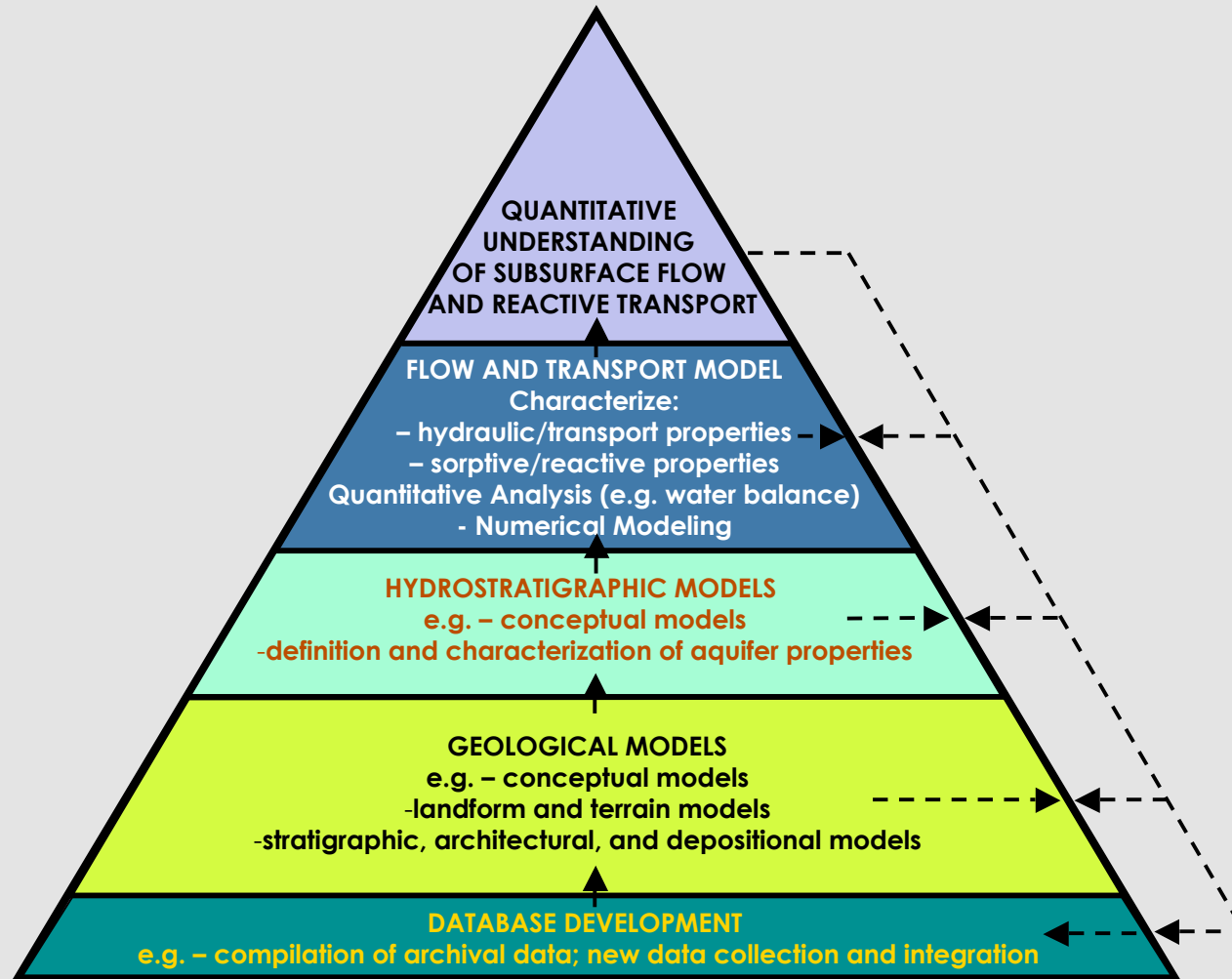
Characterization of Field Experimental Sites at Hanford's 300-Area IFC Site

¹Andy Ward and ²Roelof Versteeg
¹*Pacific Northwest National Laboratory, Richland, WA*
²*Idaho National Laboratory, Idaho Falls, ID*

Primary Goal

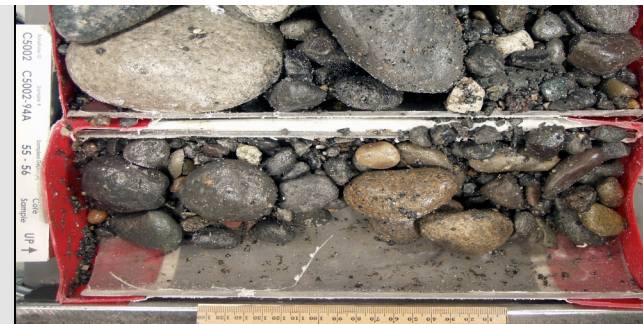
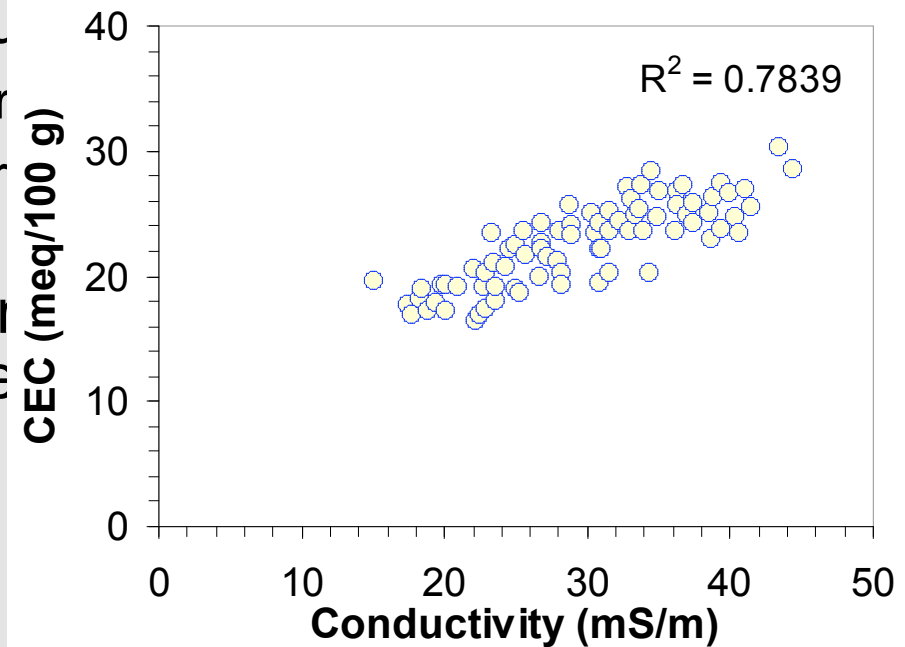
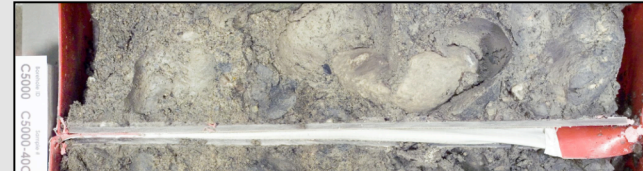
- ▶ Develop quantitative model of heterogeneity that incorporates dominant features at the significant scales, and
 - reflects geologic variability
 - reflects multi-scale nature of stratigraphy
 - honors core and well log data
 - forms basis of conceptual hydrostratigraphic models

Approach

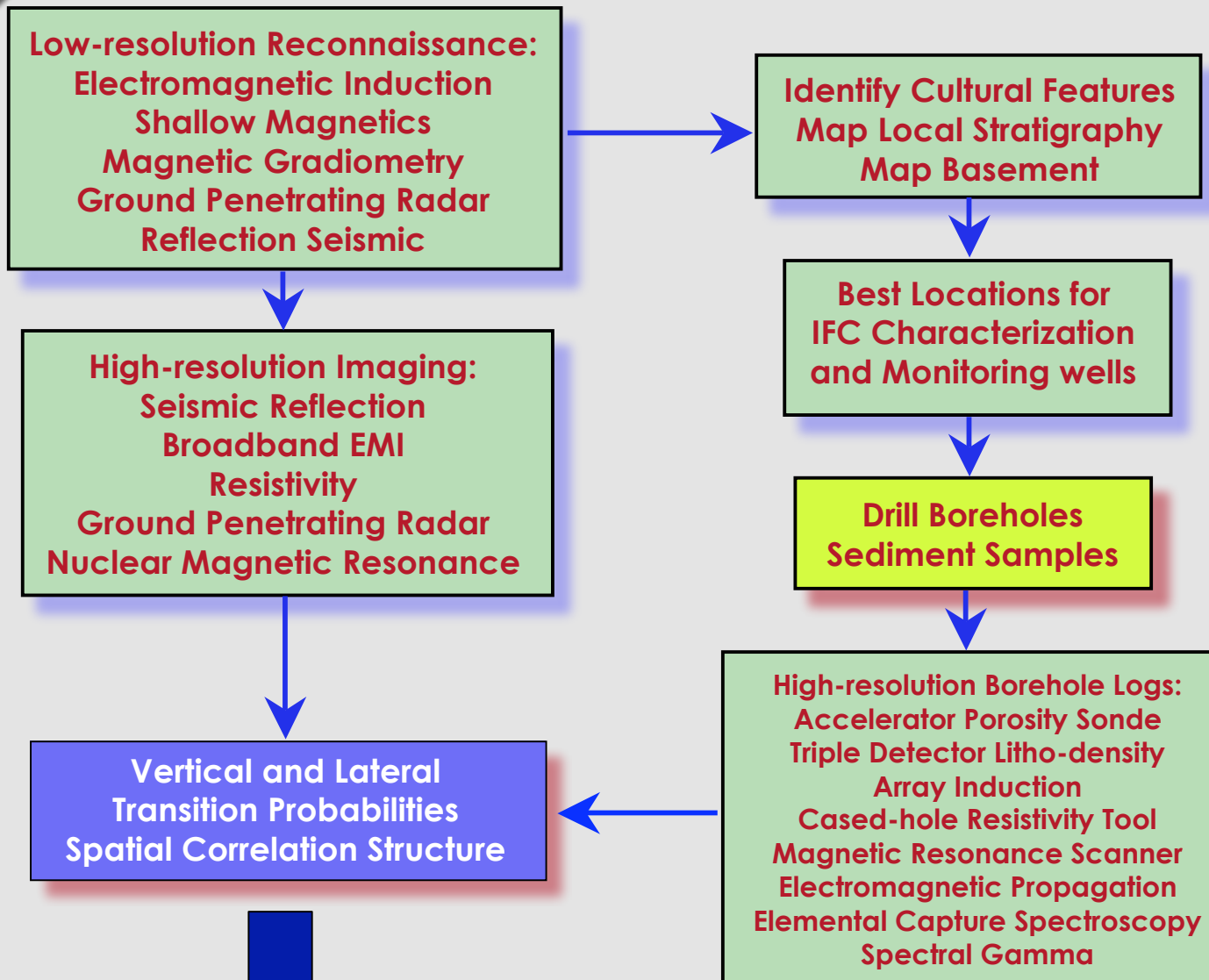


Sedimentary Facies Concept

- ▶ Classifies formation using primary sedimentary features at scale of facies structure
 - No need to identify textures
 - Size statistics, surface area, mineralogy, fabric
- ▶ Sediment properties primarily controlled by granulometry
- ▶ Sedimentary facies
 - Electrofacies
 - Lithofacies
 - Hydrofacies
 - Chemofacies
 - Biofacies



Hydrogeophysical Workflow 300 Area IFC



Workflow for Quantitative Hydrostratigraphy

