

## L0: Application and User Tools

## L1: Runtime Environments

Resource Management Abstractions: Pilot Abstractions (Pilot Job/Pilot Data)

## L2: Data-Cyberinfrastructure

e.g. Storage-Systems, tables,

## L2: Compute-Infrastructure

VMs, Azure Worker Role, EMR

## L3: Execution Environment

e.g. XSEDE, OSG, Google, EC2, FutureGrid