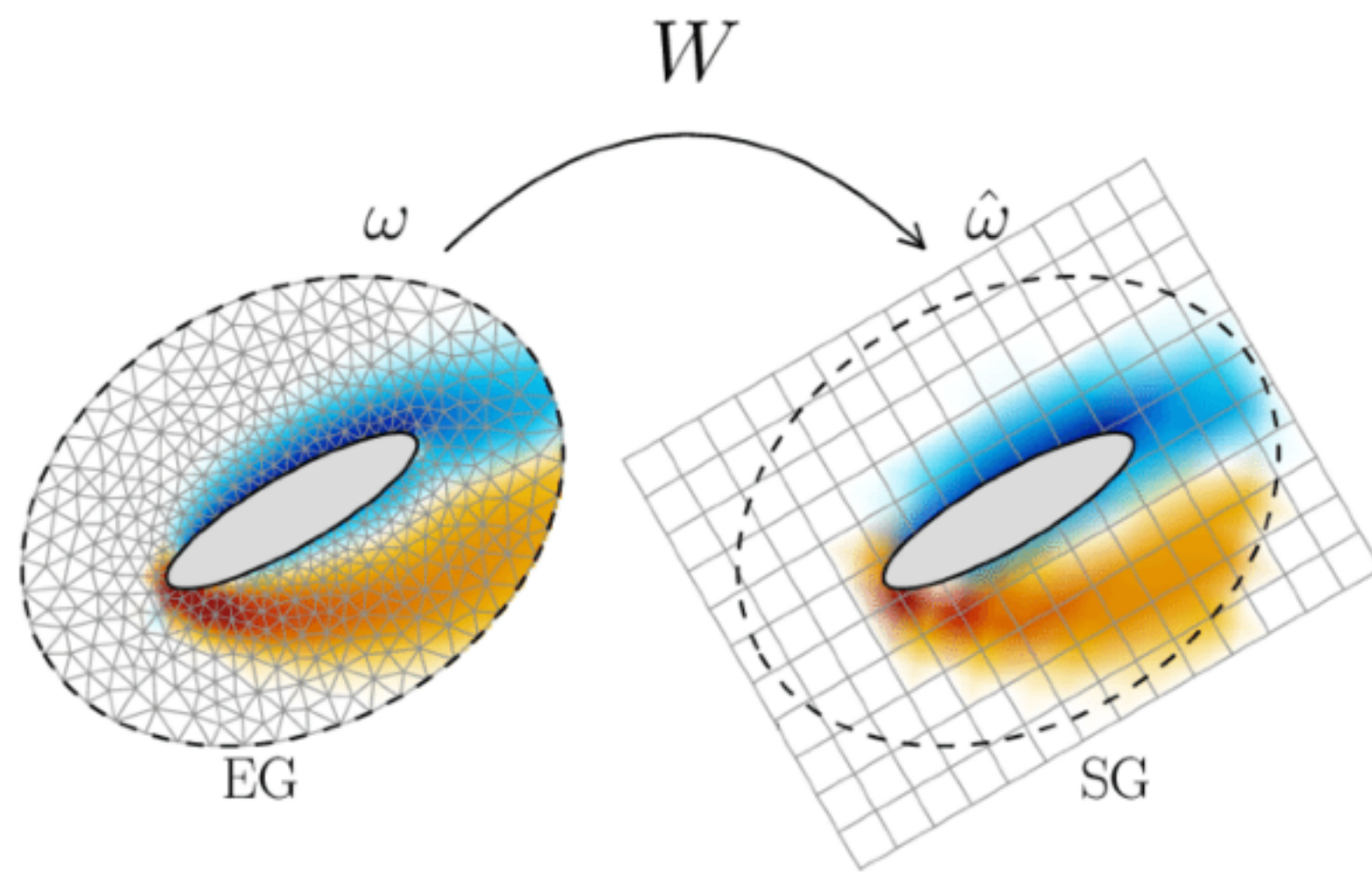


CFD-specific Issues

Mesh interpolation



- CFD are usually solved on complex meshes, established with finer grain around critical region where most of the Physics happens.
- A 3D-domain can generally be reduced to a flat map by exploiting system symmetries.
- ConvNets are a flavor of FFNN that exploit spatial correlation by building abstract representation of the input data. To be taken advantage of, meshes need to be regularized to a cartesian grid with interpolation.
- Interpolation leads to the loss of meaningful information, approximation, and requires time-consuming transformations

CFD-specific Issues

Valid Approaches to a single data problem