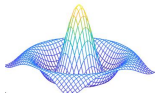


Vector of input  
parameters  $\mathbf{x} \in \mathbb{R}^M$   
(e.g., soil properties)

Computational  
model  $\mathcal{M}$  (e.g.,  
FEM/FDM)

Model response  
 $\mathbf{y} = \mathcal{M}(\mathbf{x}) \in \mathbb{R}^Q$  (e.g.,  
node displacement)

Replace  $\mathcal{M}$   
with  $\tilde{\mathcal{M}}$



Surrogate  $\tilde{\mathcal{M}}$