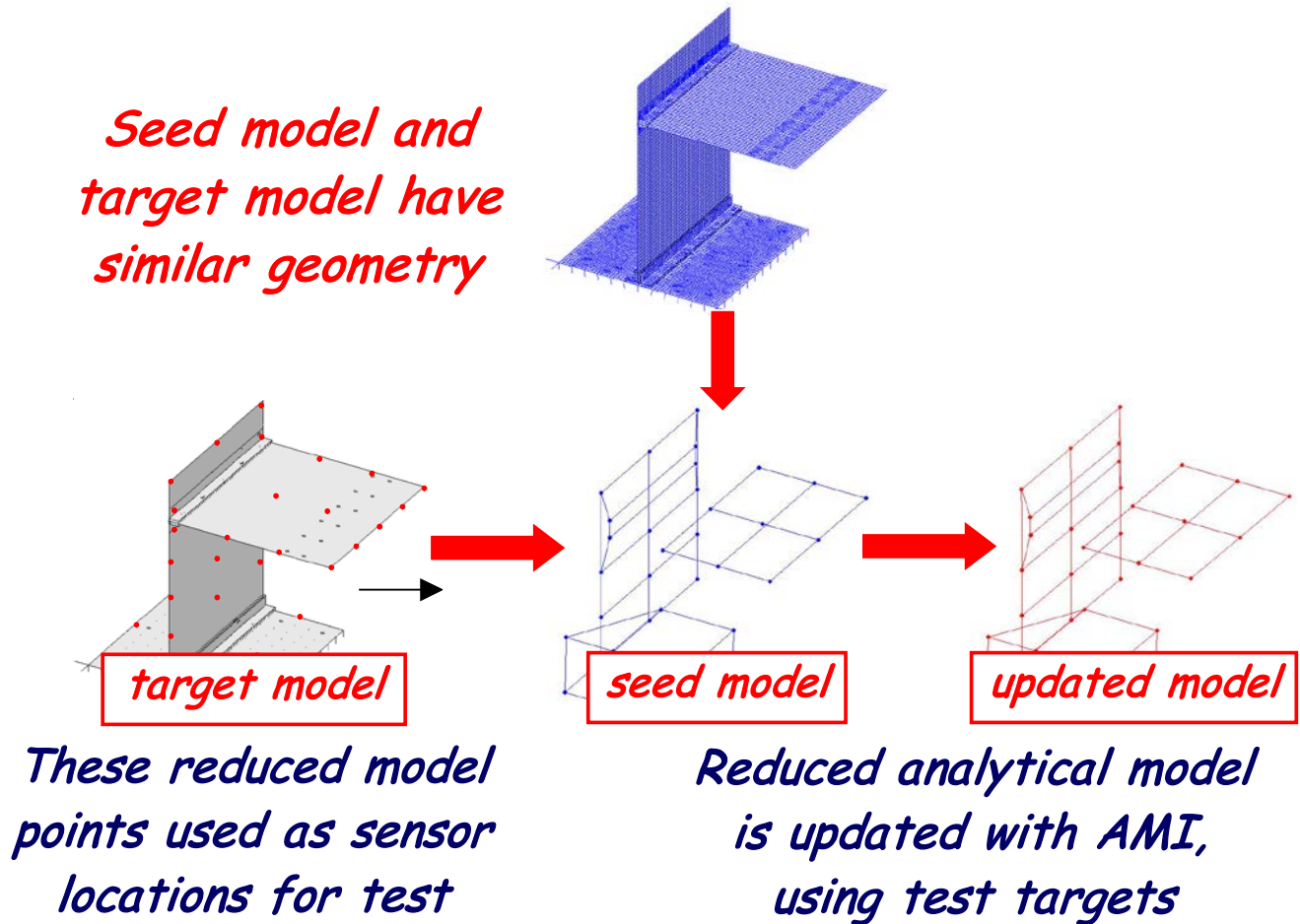


### Modal Based System Response



Accurate system models are important in many applications. Developing accurate reduced order test verified system models are important to the overall system level response. This work centered on the development of these reduced order models which are updated using direct model updating approaches to obtain accurate system representation. Due to the direct model updating strategies employed, very accurate system models were developed using extremely limited total degrees of freedom.