

**AFOSR/NSF DDDAS WORKSHOP**  
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# Keystones

We Want:

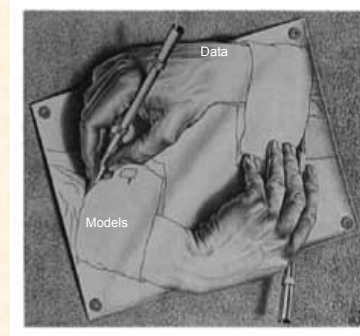
- Adaptability – forecast/  
predictability
- Verification & Validation

We must deal with:

- Uncertainty & Error

using

- Data & Data & Model



“thank you Escher”

*“Models and data are a continuum – **models without the data** that drive them and provide them context are **meaningless**. **Data without the models** that arise from them is an **opportunity lost**.”*