Conclusions

Main steps:

- Identifying the **<u>relevant</u>** sources of uncertainty;

- [Performing (Local (i.e., around nominal values) or Global) Sensitivity Analysis for Parameter Selection];

- Creating a **physics-based non-deterministic** characterization of inadequacies;

- [Constructing surrogate models]**;**

- **Calibrating** Parameters and hyperparameters**;**

- Performing the **reductions** of the downstream **models (when possible);**

- **Forward propagating** of the (approximated) posterior distribution**;**

- **Analyzing the QoIs' sensitivity;**

- Conducting **predictive assessment**;

- **Proposing improvements.**