



# 2018 VR&D Users Conference

*Experiences in Design Optimization*

## ***Design Automation and Upcoming Features in VisualDOC***

Rohan R. Bokil

Vanderplaats Research & Development Inc.

October 2, 2018 | Plymouth, MI



## Agenda

VisualDOC  
Introduction

- About VisualDOC
- Development History

VisualDOC  
Demo

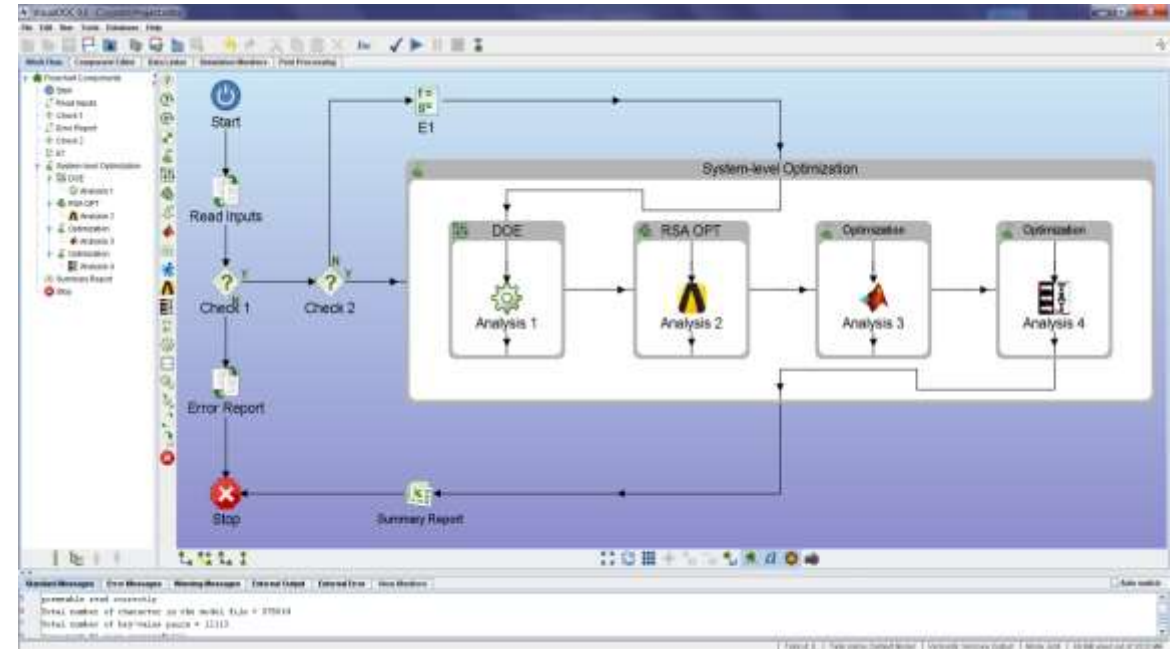
- New features and capabilities

Concluding  
remarks

- Upcoming features

## VisualDOC

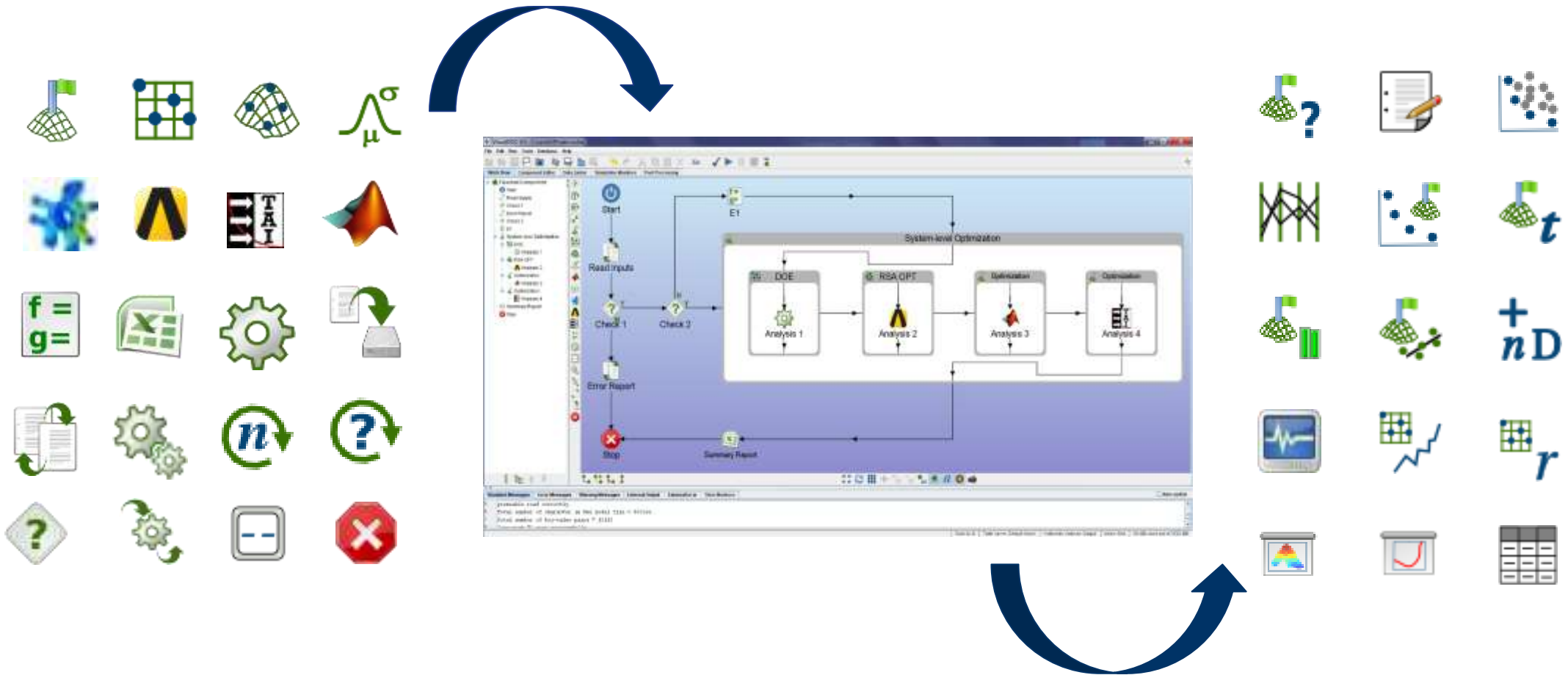
- A general purpose multi-discipline design optimization, design studies and process integration software
- Can add design modules to almost any analysis program (e.g. GENESIS, NASTRAN, ANSYS, LS-DYNA, STAR-CD, etc.)
- Multi-level/multiple disciplines



**NOT** a Collection of Public Domain Software

Our Software is Written by VR&D

## VisualDOC





# 2018 VR&D Users Conference



## Evolution of VisualDOC

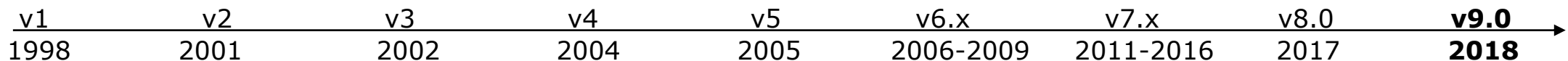
### Design Modules



### Process Integration

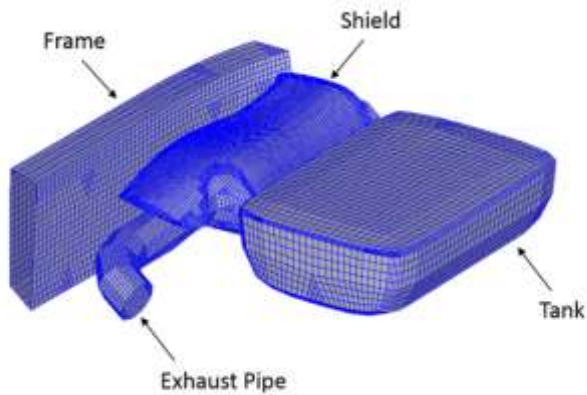


### Design Environment

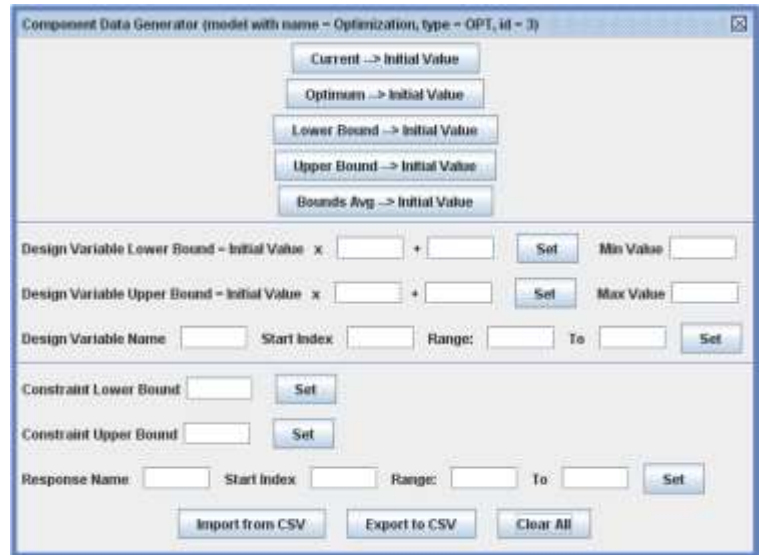


## VisualDOC 9.0 New Features Demo

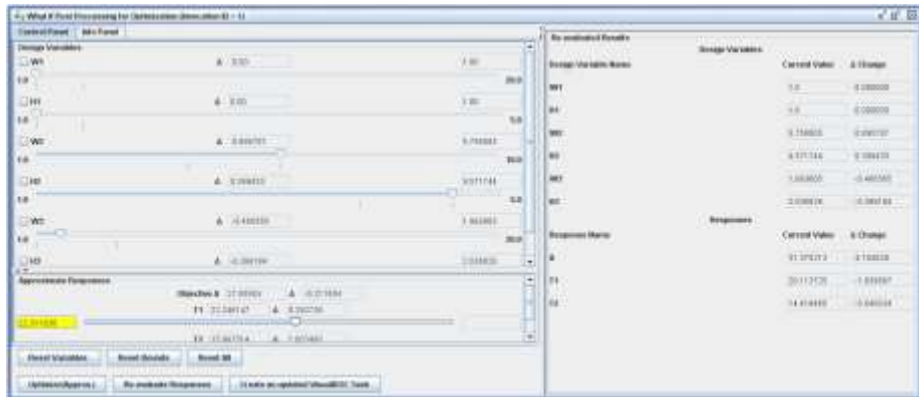
### TAItherm Component

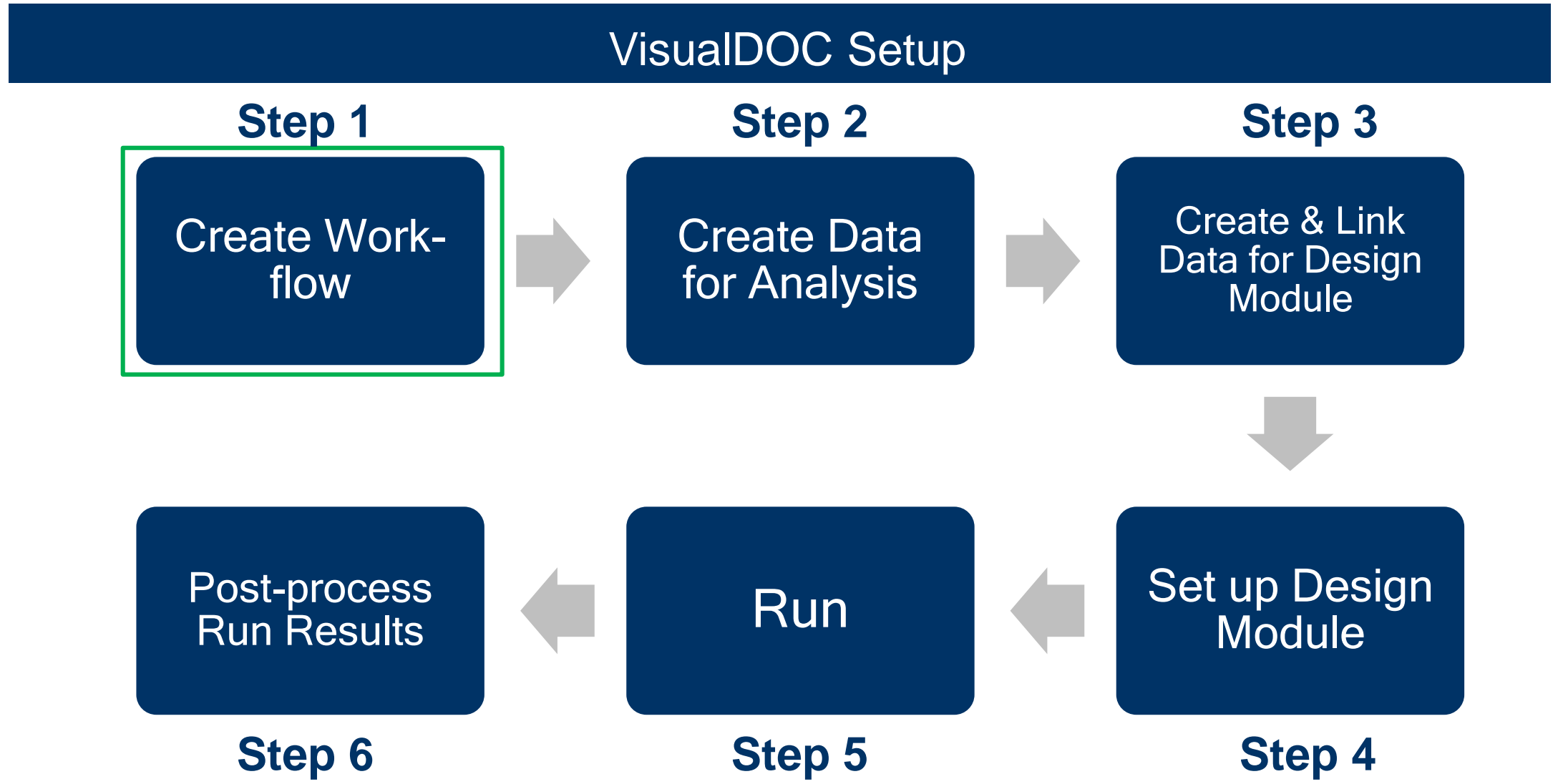


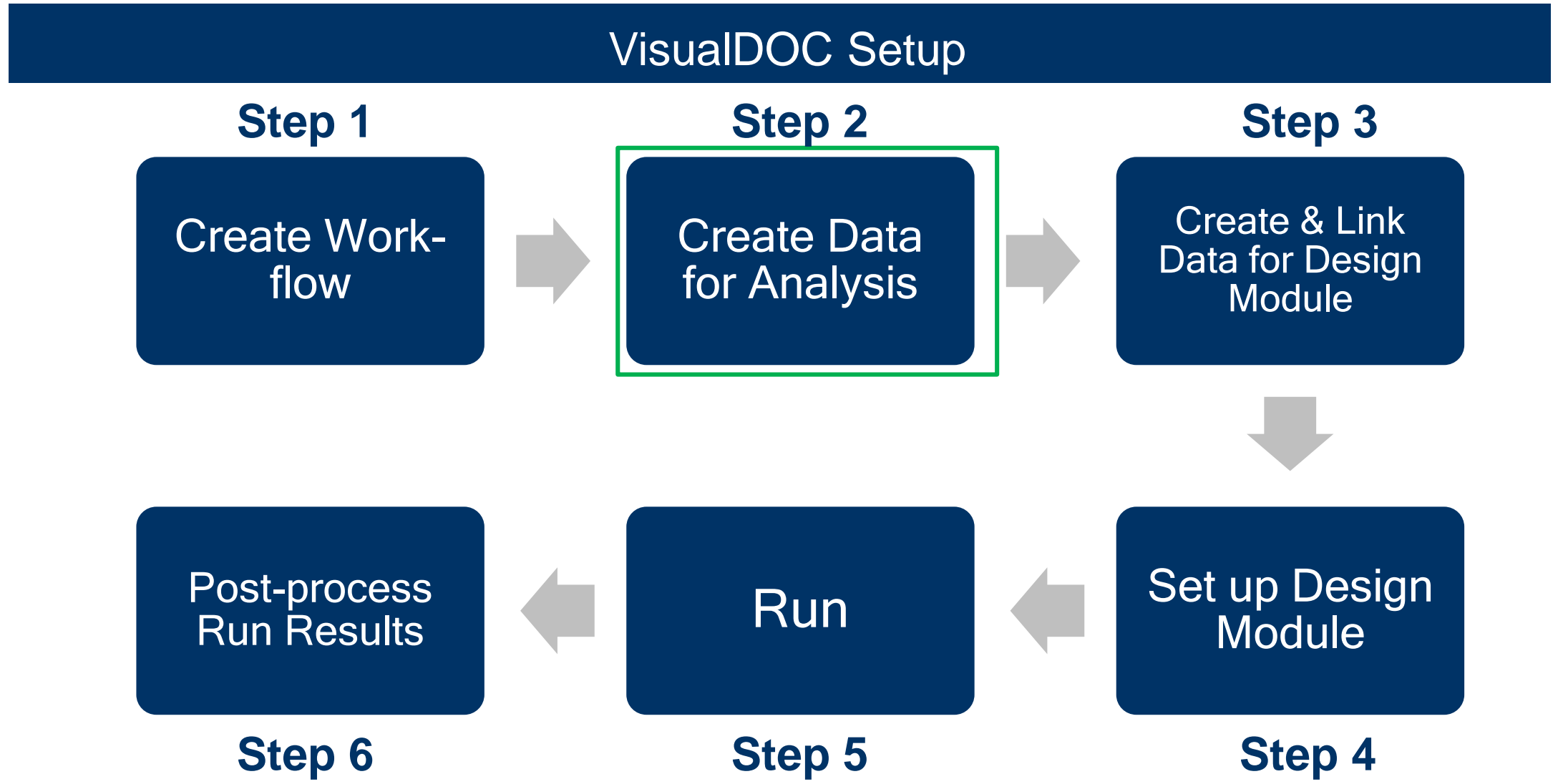
### Component Data Generator



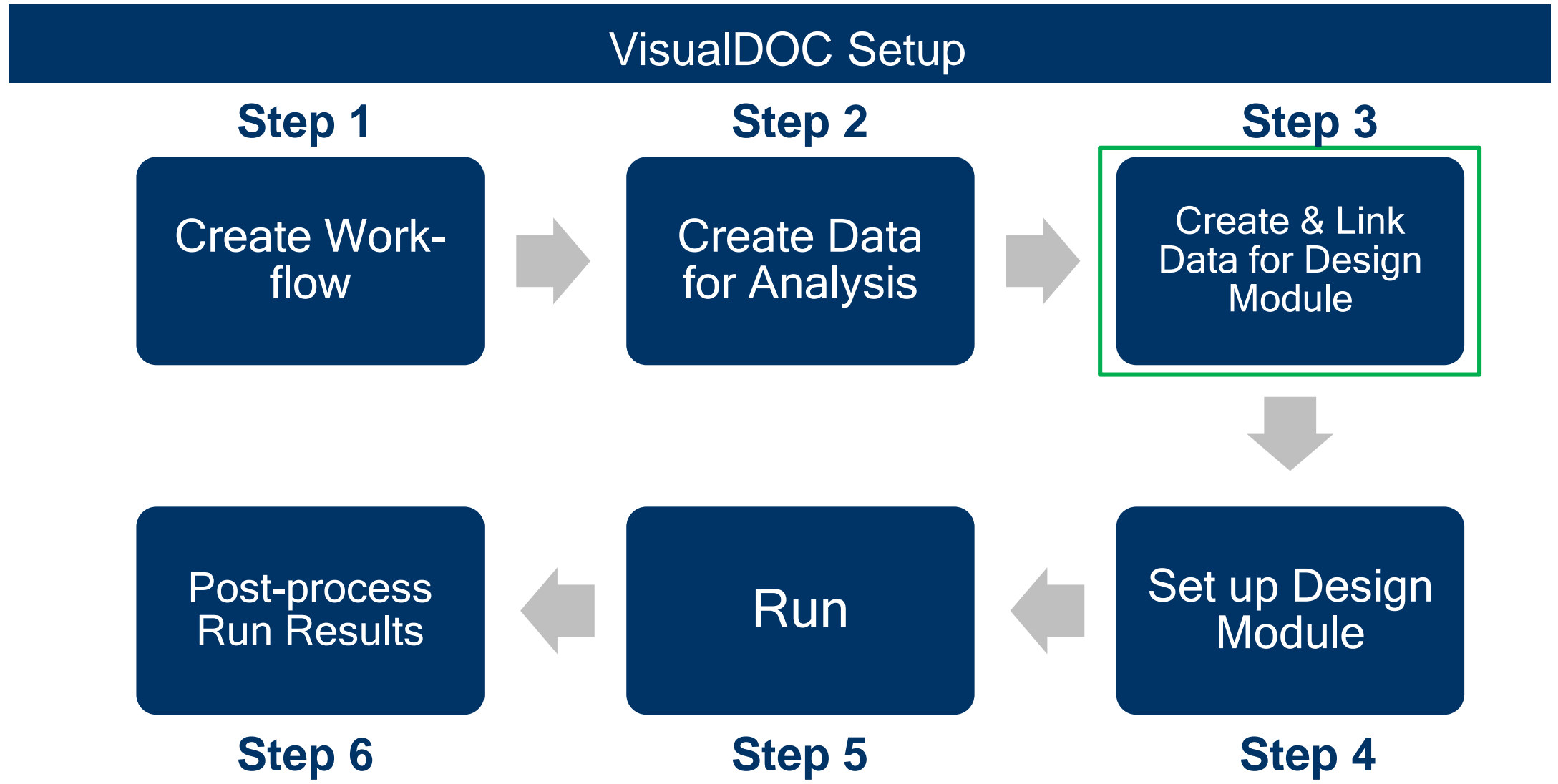
### What-If? Study Tool

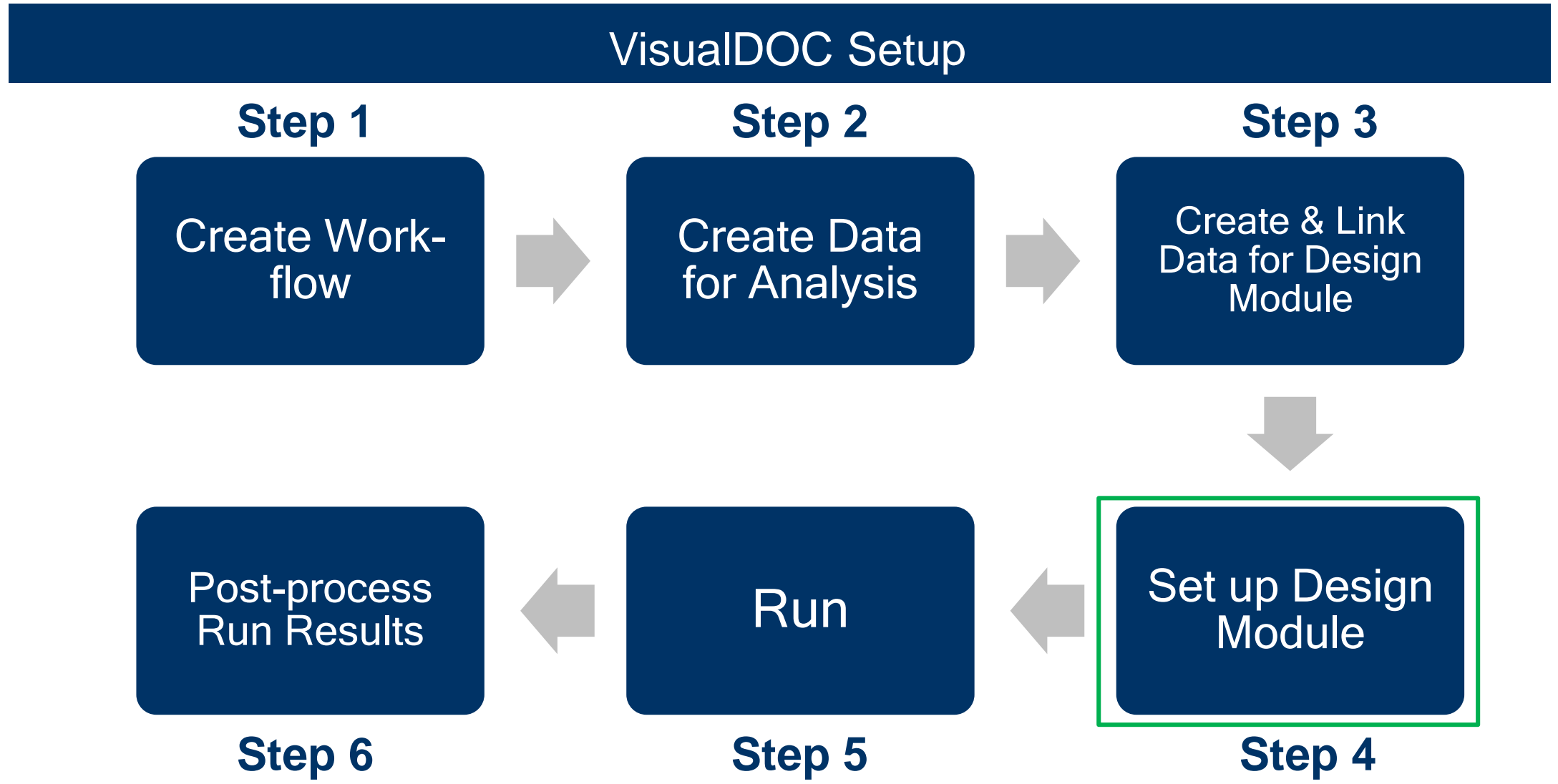


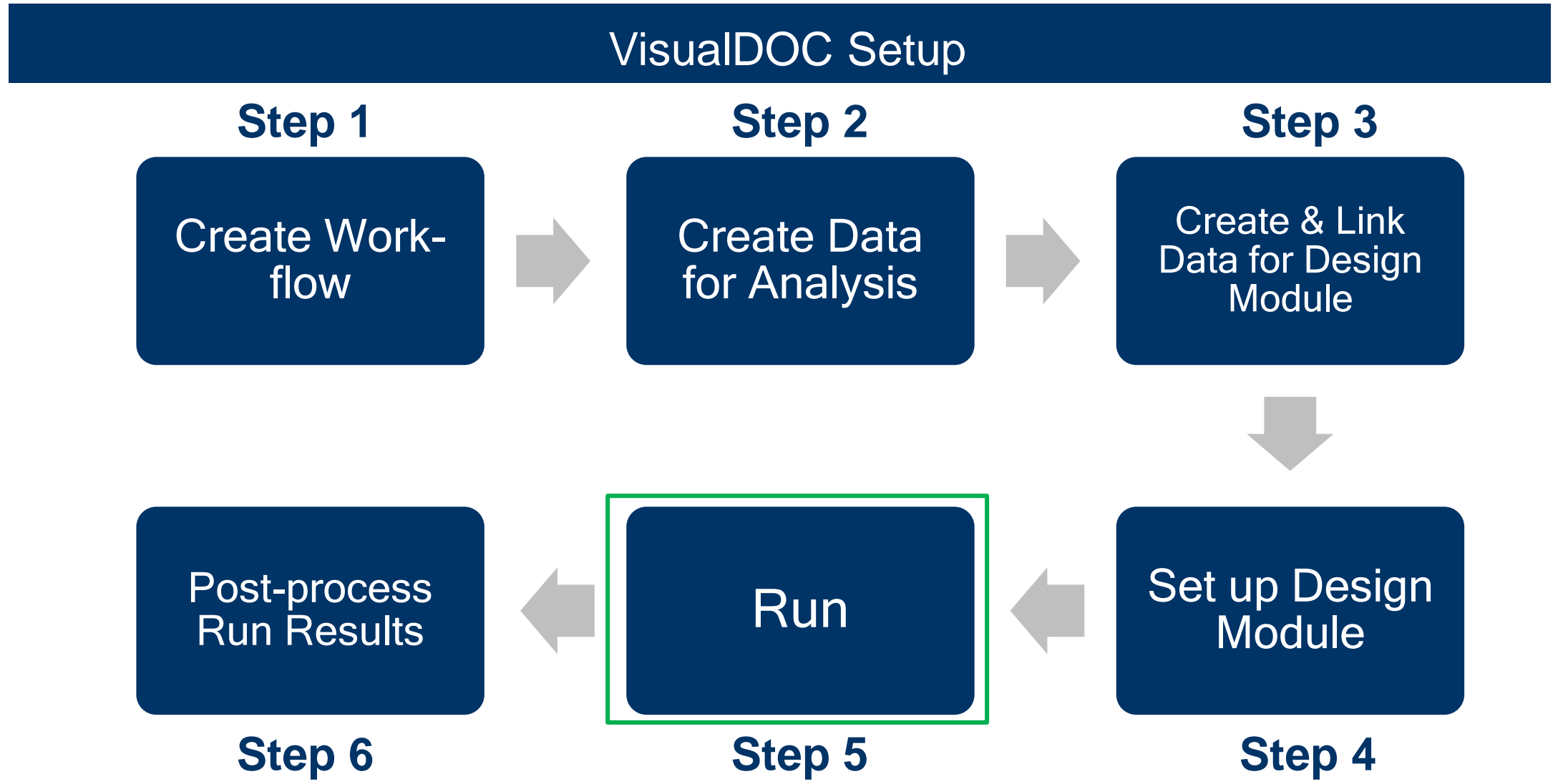


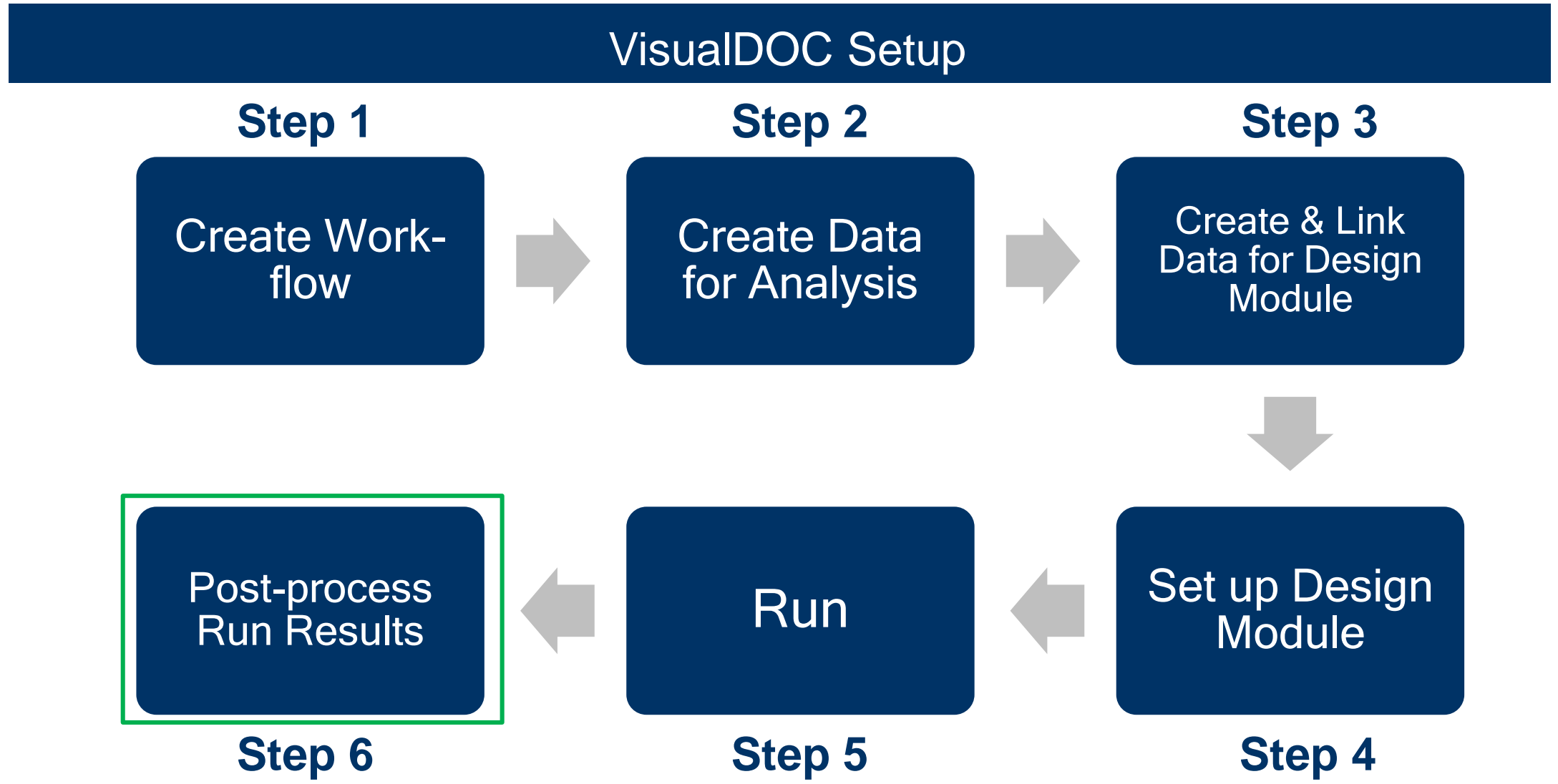












## Upcoming Key Features

### Design Modules

- CMBDOT
- Sensitivity Analysis Tool

### Process Integration

**Moldex3D**  
MOLDING INNOVATION



### Design Environment

- Sensitivity Report
- 2D and 3D Plots
- GUI Enhancements