

# TERADYNE

*BECAUSE TESTING MATTERS*



**Leveraging IVI for Instrument Wrapper  
Development**

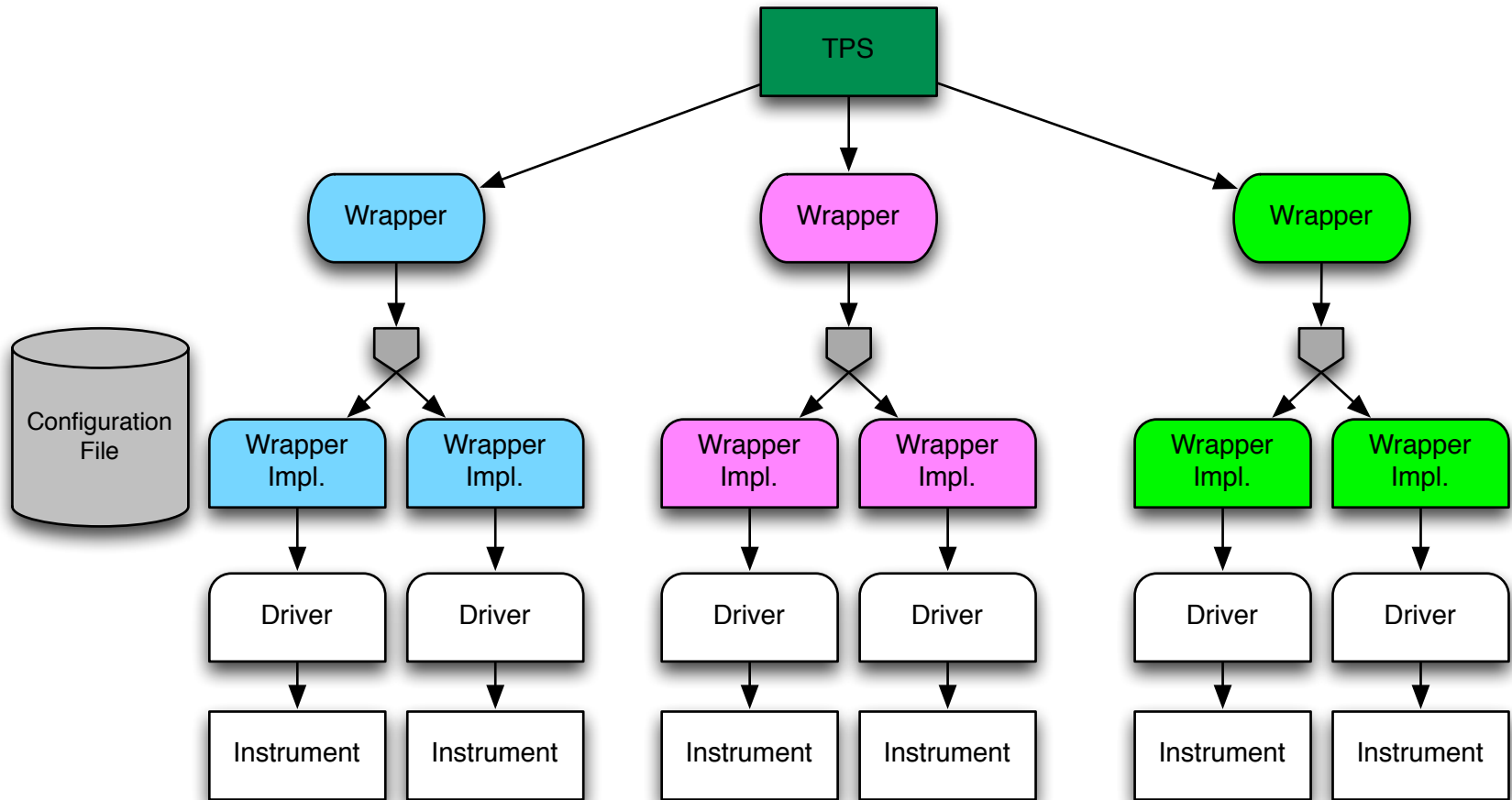
# Agenda

- Wrappers – what they are and why are they used?
- Leveraging IVI for wrapper development

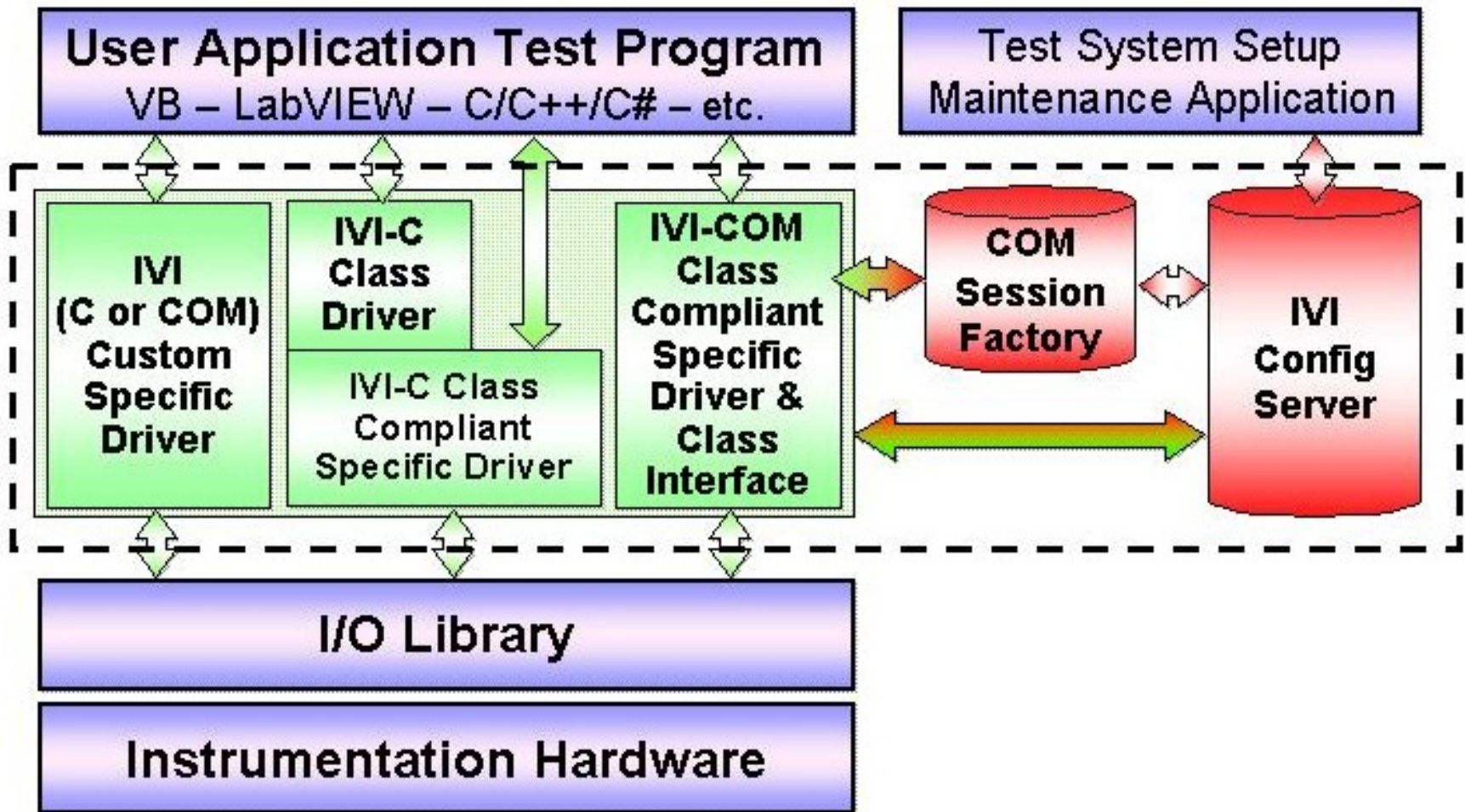
# Wrappers

- Abstraction layer
- Isolates the TPS from the ATE
- Facilitates instrument replacement
- System specific customizations
- Selects appropriate instrument based on system setting or configuration file

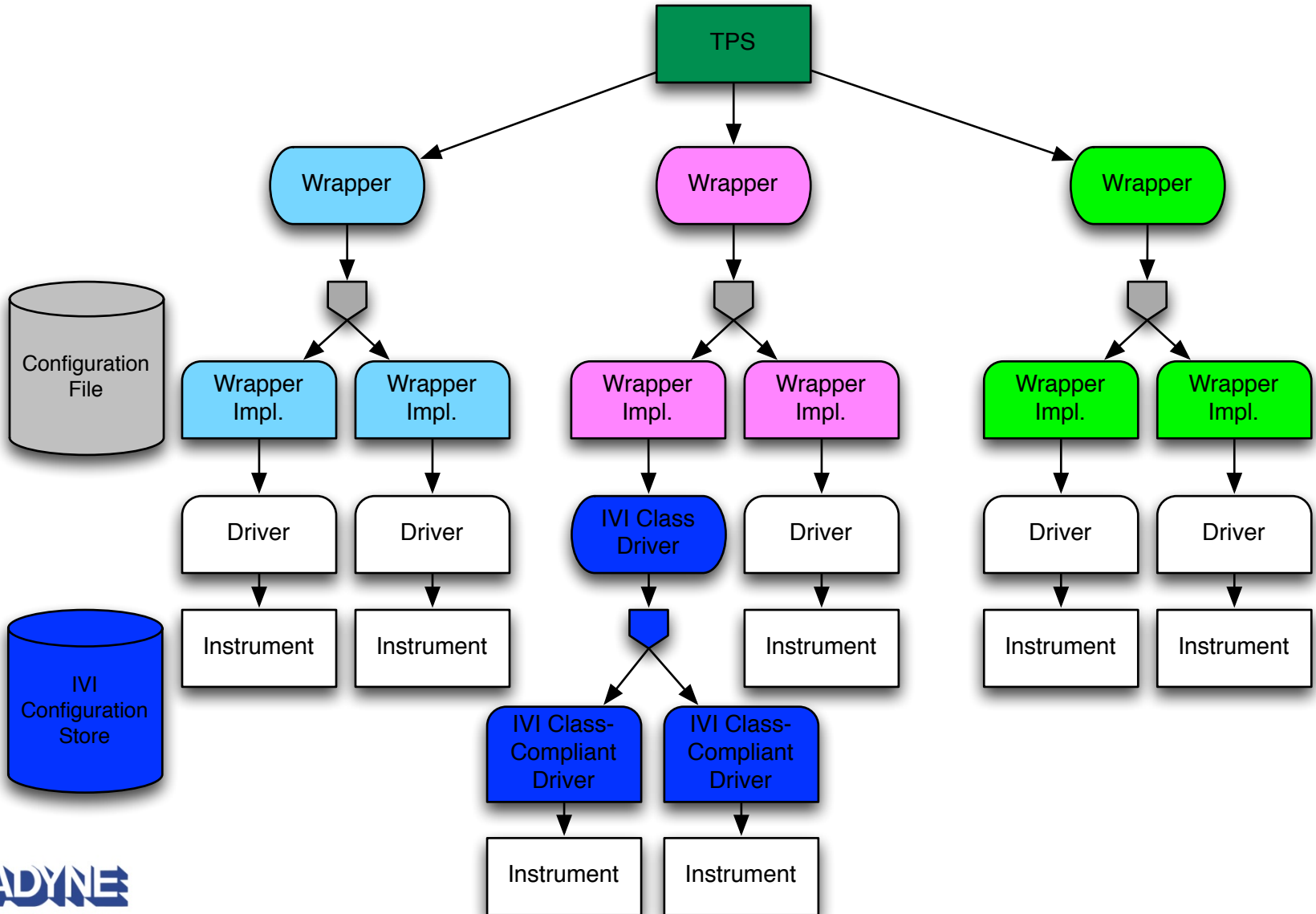
# Example ATS Architecture with Wrapper



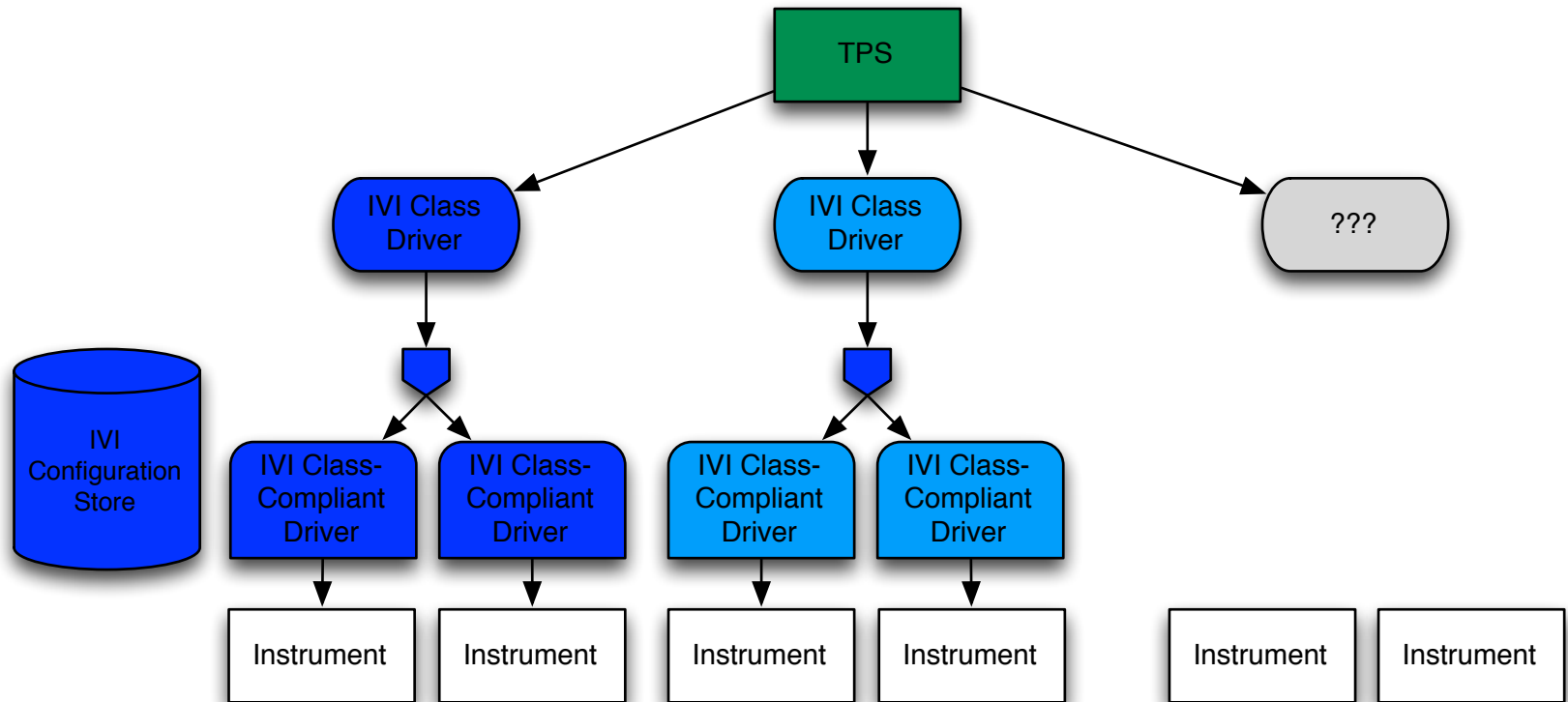
# IVI Architecture



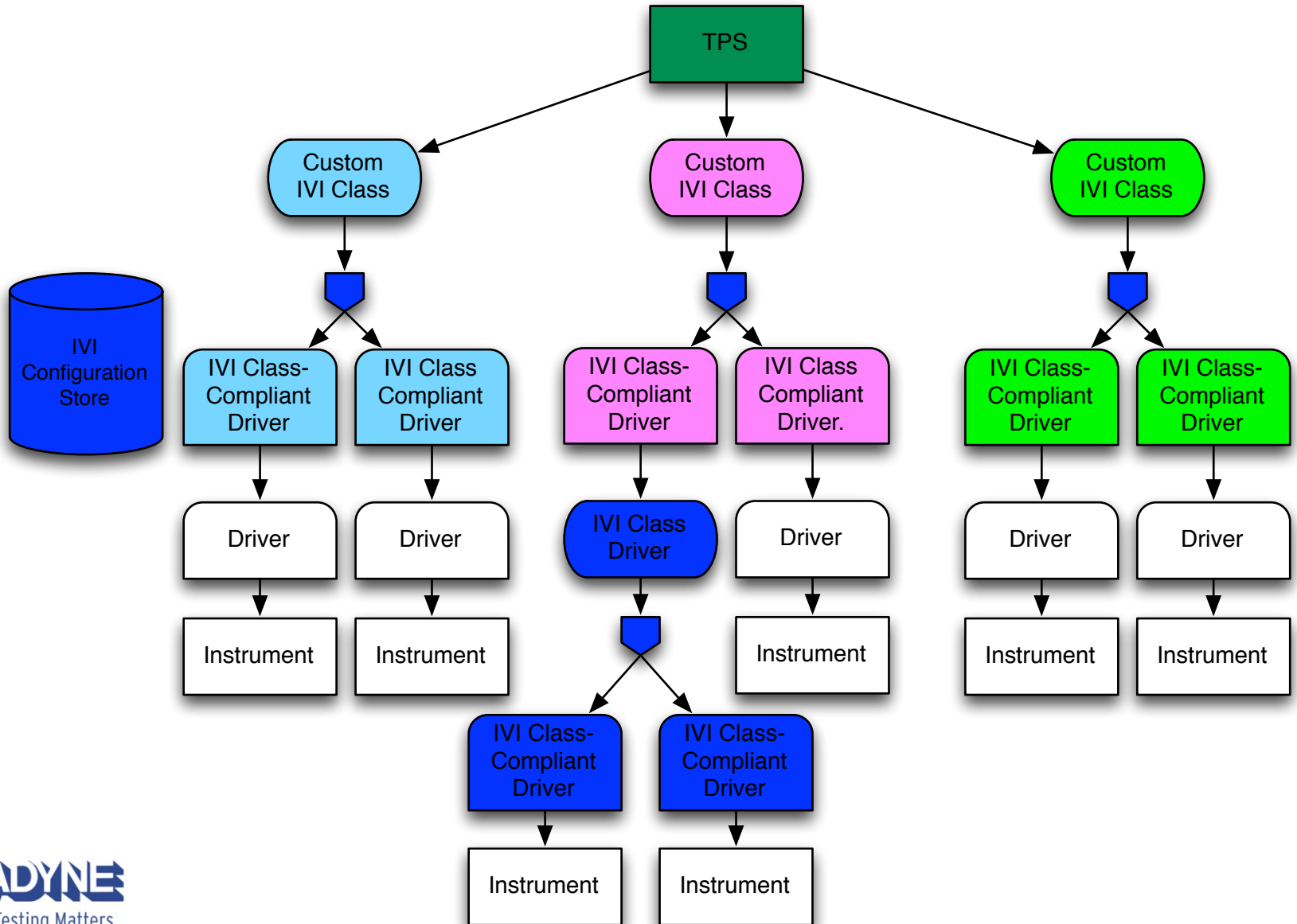
# Using IVI Drivers to Implement Wrapper



# Using IVI Class Interface as Wrapper Definition



# Using Custom IVI Classes for Wrapper Definition





# Summary

- Using wrappers to isolate the TPS from the underlying hardware is not a new concept
- Leveraging IVI to implement the wrapper
  - Can simplify wrapper development
  - Provide some commonality across ATS architectures