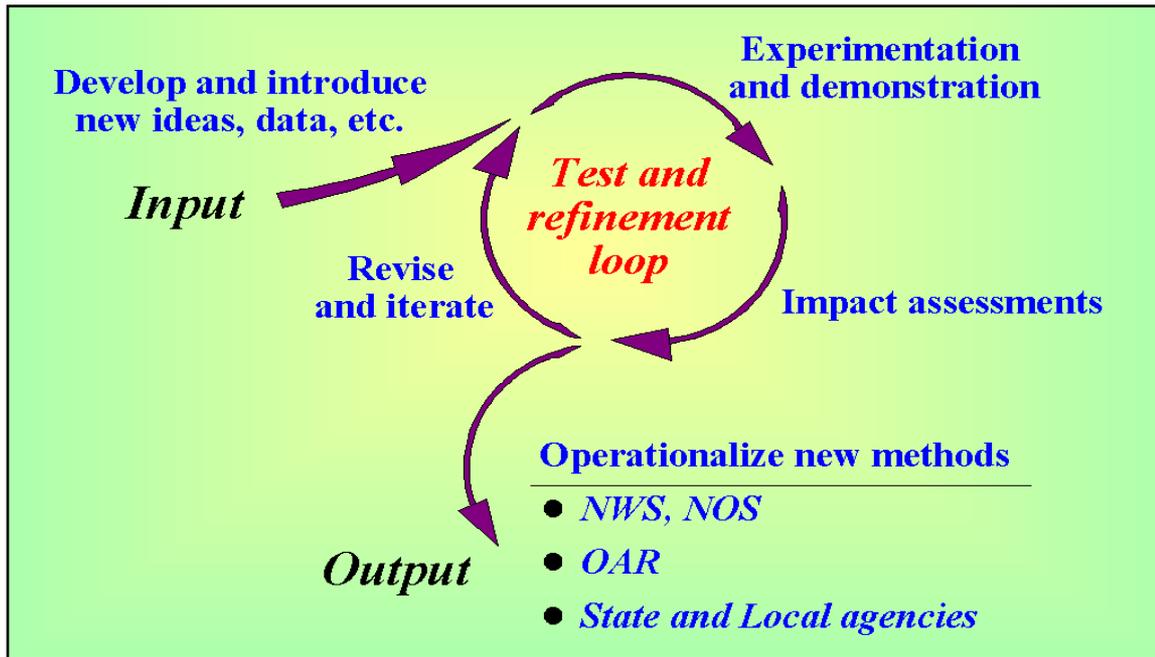


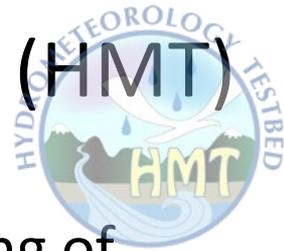
Role of GPM in NOAA Testbeds

Research to Operations Strategy



- Develop prototype tools and methods
- test new ideas – provide a conduit to link research to operations
- Engage with operational community to determine needs, assess/improve prototypes

GPM Data in the Hydrometeorology Testbed (HMT)



- HMT conducts research aimed at improved understanding of precipitation physical processes and improving precipitation estimates (QPE) and forecasts (QPF), with emphasis on extreme precipitation
- Currently TRMM data (3B42) used to improve precipitation analysis and downscaling (time and space)
- HMT can serve as a “proving ground” to test and improve multi-sensor precipitation estimation (QPE)
 - HMT-West (cold season – stratiform rain/snow)
 - HMT-SE (warm season convection/tropical systems)
- GPM data needed for validation and algorithm improvement

QPE Proving Ground Concept

