

End-to-end Test Plan Vision

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Values for testing of innovations

- **Open and transparent:** WGs abreast of tests
- **Hierarchical:** pieces and wholes are tested
- **Inclusive:** innovations may come from non-NOAA
- **Coordinated:** testing can be at EMC, GMTB, etc.
- **Robust:** test leads to informative results
- **Relevant:** results usable by NCEP and developers
- **Actionable:** results lead to actions

How: prepare test plans and review results with WGs

Elements of a Test Plan

- Motivation and scope
- Source code (repo, branch/master, revision)
- Test configuration: hierarchical, SCM, global, reg
- Input datasets
- Forecast periods, realtime, retro
- Forecast length and resolution
- Metrics
- Inclusion of subjective evaluation
- Computational resources
- Roles and responsibilities
- Deliverables/Archives
- Timeline
- Risks and mitigation

Results

- What did we learn
- Actions

Metrics are critical, but not the only aspect to consider!