



### NGGPS Community Modeling Programmatic Perspective

18 April 2017

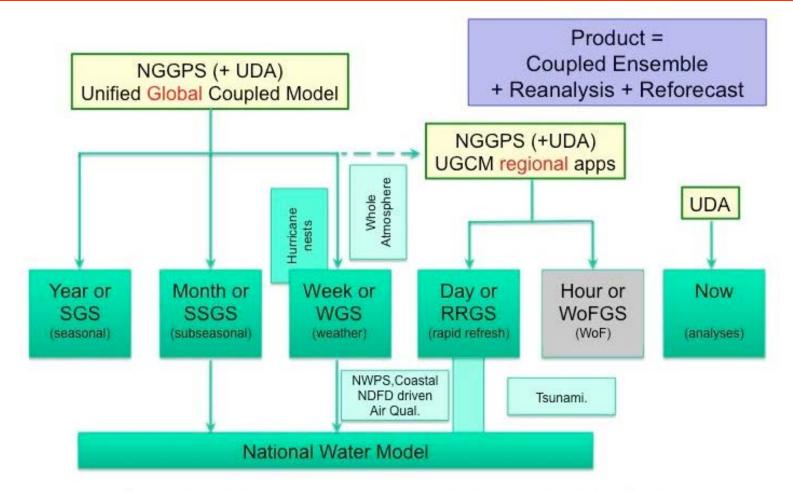
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### Roadmap





UDA: Unified Data assimilation SGS: Seasonal Guidance System SSGS: SubseasonalGuidance System WGS: Weather Guidance System RRGS: Rapid Refresh Guidance System WoFGS; WoF Guidance System



# Community Modeling Workshop



- UCACN\* Modeling Advisory Committee (UMAC) emphasized the importance of NCEP to more effectively work with the community (private sector, government, and academia)
  - With NGGPS selection of the FV3 dynamical core, seeking to assure that the global model is developed as a community model
- The Community Modeling Workshop will inform:
  - Goals and needs of a community unified modeling system including governance, infrastructure, and modeling component priorities
  - Best practices for a modeling community including most effective means of engagement

<sup>\*</sup> UCACN = UCAR Community Advisory Committee for NCEP



### **Community Participation**

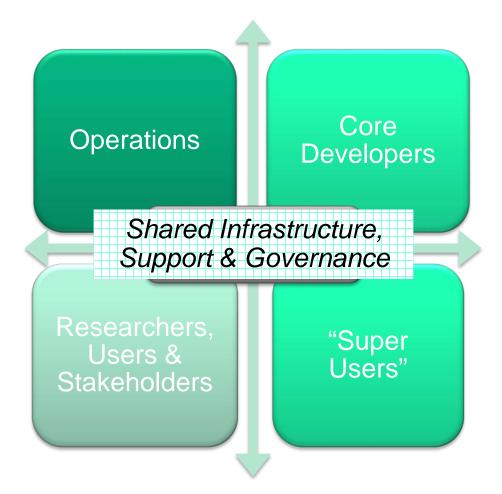


- 2016 Federal Funding Opportunity
  - 17 NGGPS proposals awarded (\$2.9M)
  - NWS/STI external grants and projects are listed at: https://www.weather.gov/sti/stigrants
- Global Model Test Bed (GMTB)
  - Provides infrastructure for community to interact with NOAA

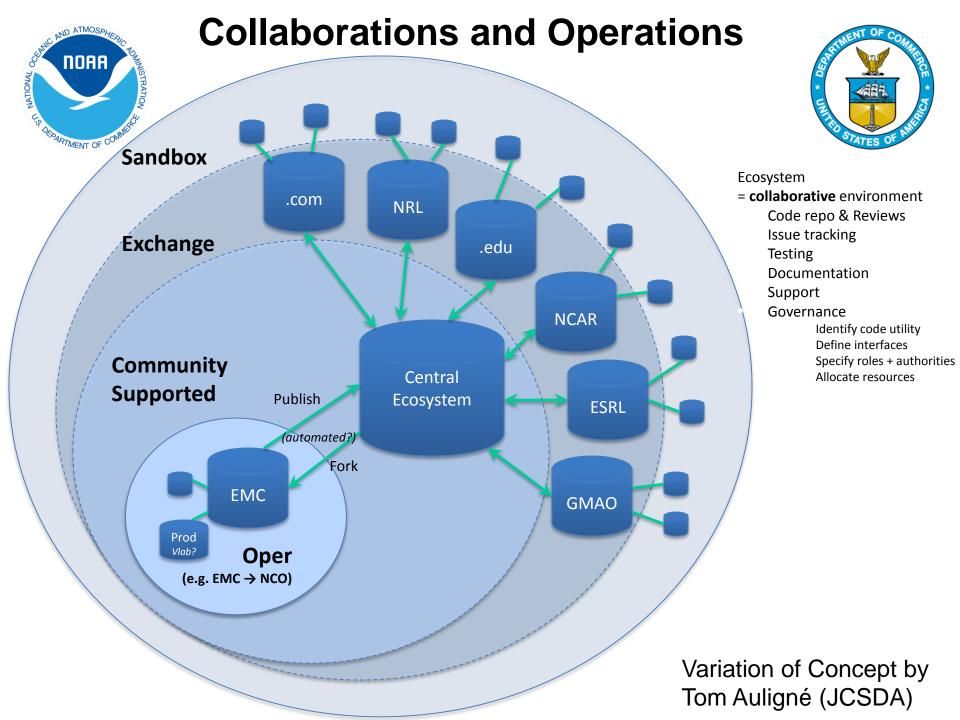


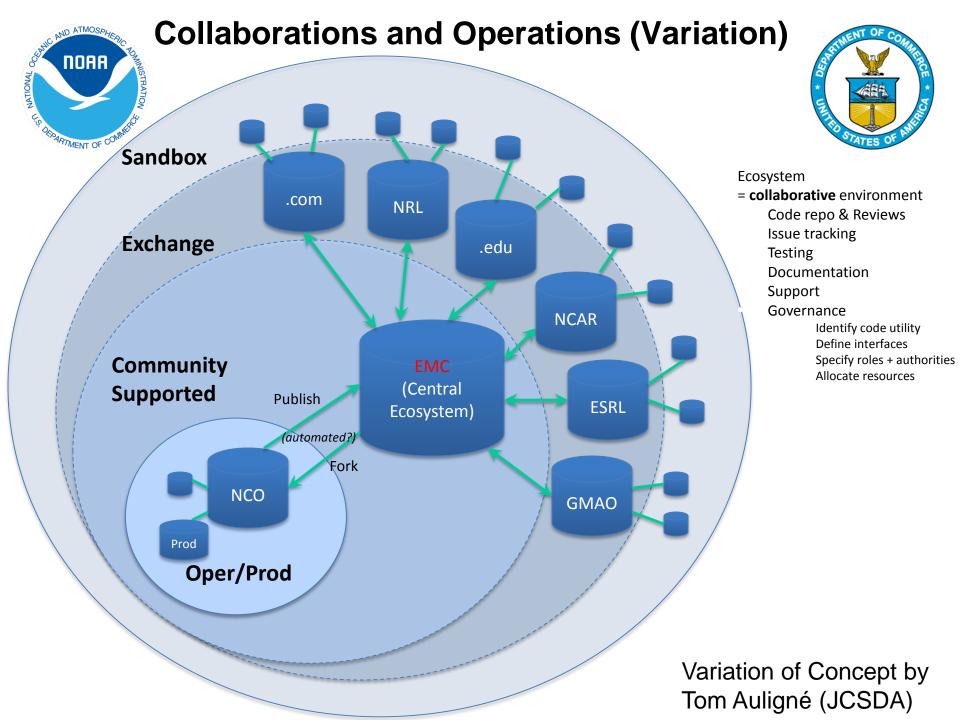
## Potential Concept for NGGPS/FV3 Community





Inclusive of Public, Private, and Academic Sectors







### **Challenges**



- Governance
  - Align with UMAC recommendations
  - Involvement vs ownership
- Repository design, IT Security, IP issues (copyright, license)
- Balance between operations and research
  - Degree of support
  - Well-defined path for research to operations transition
- Resources to support the research community participation
  - Partnership with R&D agencies





### STI Modeling Program Website:

http://www.weather.gov/sti/stimodeling

#### **Information NGGPS:**

http://www.weather.gov/sti/stimodeling\_nggps

Information on Grants:

http://www.weather.gov/sti/stigrants