



# Task Force on Hemispheric Transport of Air Pollution

## Virtual 2020 Meeting Wrap Up Session

### Co-Chairs

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# TF HTAP 2020 Virtual Meeting Wrap Up

- Presentations are now available at [htap.org](http://htap.org)
- Webinar Attendance: ~70 average, ~100 peak
- Homework: ~38 Google Form/Email Responses
- Draft summary text posted for comment by email
  - Very brief, focused on “decisions”
- Agenda for Today
  - Overview of Priority Activities/Opportunities/Future Directions
  - Discussion of Priority Activities
  - Discussion of Other Opportunities (including COVID-19, ...)

# Proposed Next Steps for TF HTAP

Priority Activities	Opportunities	Future Directions
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Theme	Short Term Activity (~2 Years)	Long Term Activity (> 2 years)	Convention Work Plan
Science-Policy Dialogue Wiki	Develop "living" set of answers to policy-relevant questions, building on HTAP2010 D, HTAP2 Summary, and other literature.		2.1.3 2.1.4
HTAPv3 Emissions	Development of the mosaic	Use of the mosaic in multi-model studies, for detailed source attribution, and for scenarios	1.1.4.5
Methane Mitigation Measures and Scenarios	Report on available methane measures and scenarios (Working with CIAM, TFIAM, TFTEI, others?)		1.1.4.4

# Proposed Next Steps for TF HTAP

Priority Activities

Opportunities

Future Directions

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Extra-Regional Contributions to Observed Trends for GP Review	Analysis of HTAP2 parameterizations, AerChemMIP simulations, tagging simulations		1.1.3.2
Ozone Response to Methane	Analysis of HTAP2 parameterizations, CCAC GMA, AerChemMIP	Links between methane response and model uncertainty wrt surface ozone? O <sub>3</sub> , OH budget analysis? Explain differences in CH <sub>4</sub> lifetime	1.1.4.4
openFASST Development	Implement HTAP2 O <sub>3</sub> S/R parameterizations and provide emissions scenarios for GP implementation and methane mitigation.	Expand S/R parameterizations to include other models and methods (e.g. tagging).	1.1.4.6

# Proposed Next Steps for TF HTAP

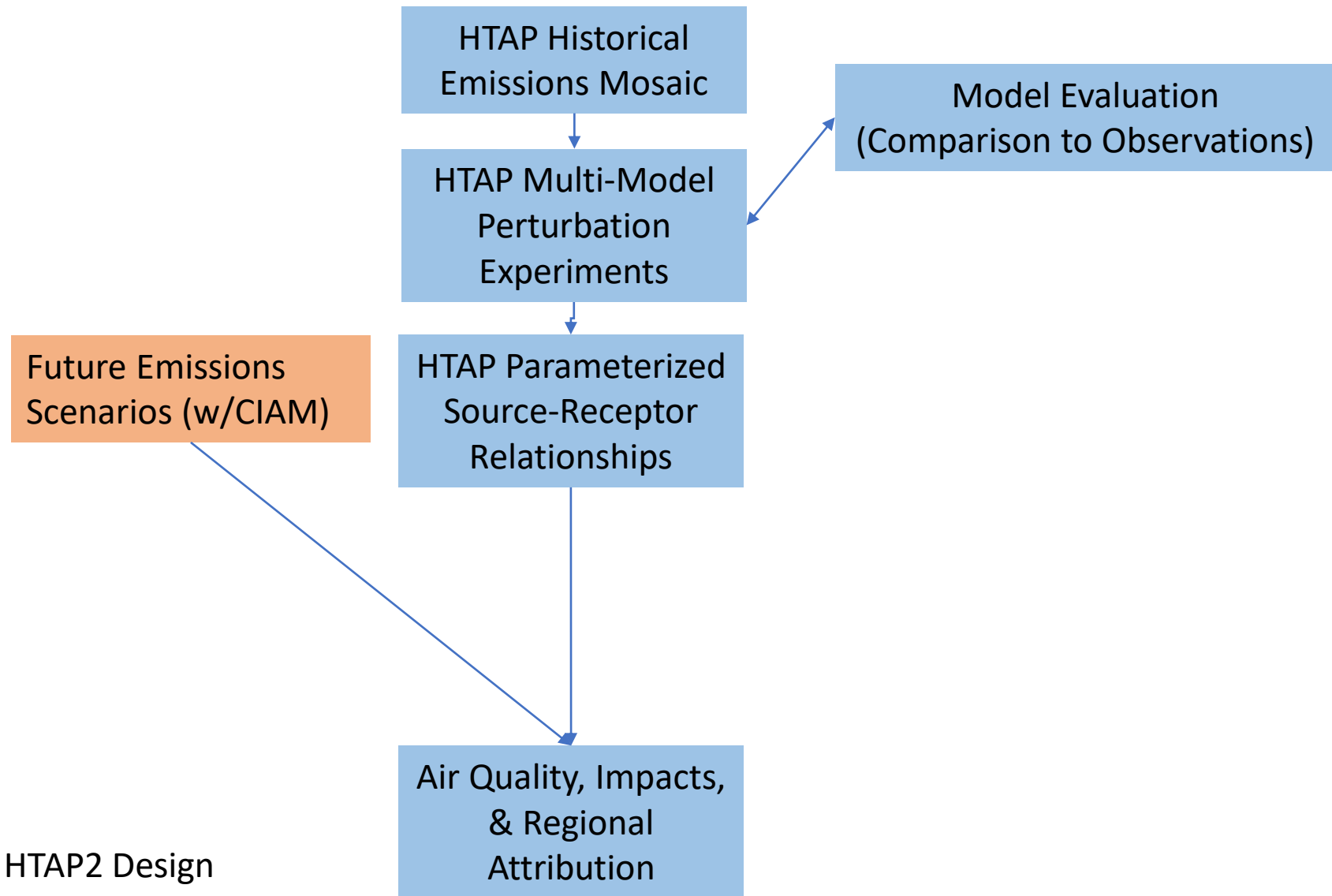
	Priority Activities	Opportunities	Future Directions	Convention
Theme	Short Term Activity (~2 Years)	Long Term Activity (> 2 years)		Work Plan
Shipping Impacts	Global model perturbation analysis with Shipping ECA regions.	Improvement of ship plume chemistry in models?		1.1.4.4
Vegetation Impacts & Deposition	Extend AQMEII4 survey of land use, deposition schemes to global models. Encourage relevant models to run AQMEII4 diagnostic experiments (e.g. box modeling).			
Global and regional model evaluation	Propose to TOAR2 (and other stakeholders) the development of useful metrics for ozone model evaluation at different scales.	Demonstrate ensemble weighting based on model evaluation.		
Comparison of Source/Receptor Methods	Establish collaboration across groups using tagging or other source attribution methods	Detailed intercomparison of S/R methods. Use of tagging as a novel model diagnostic for model inter-comparisons		

# Science-Policy Dialogue “Wiki”

- Purpose: Directly address questions posed by the LRTAP Convention’s Working Group on Strategies and Review (WGSR)
  - Clear, plain language statements
  - Backed up by citations, figures, and more detailed explanations drawn from across the literature
  - “Living” document that can evolve responding to new questions and new results
- Starting Points:
  - HTAP 2010 Part D: Answers to Policy Relevant Questions
  - HTAP2 Synthesis Paper (still in draft)
- Proposed Platform: [manuscripts.io](https://manuscripts.io)
  - Free, multi-platform, collaborative scientific word processing
  - Ability to produce periodic “snapshots” as PDFs for external review and presentation to policy audiences
- Benefits for Contributors:
  - Opportunity for dialogue with policy audiences
  - Potential review articles/journal publications
  - Identification of needed analyses and future research
  - Email Terry if interested in contributing

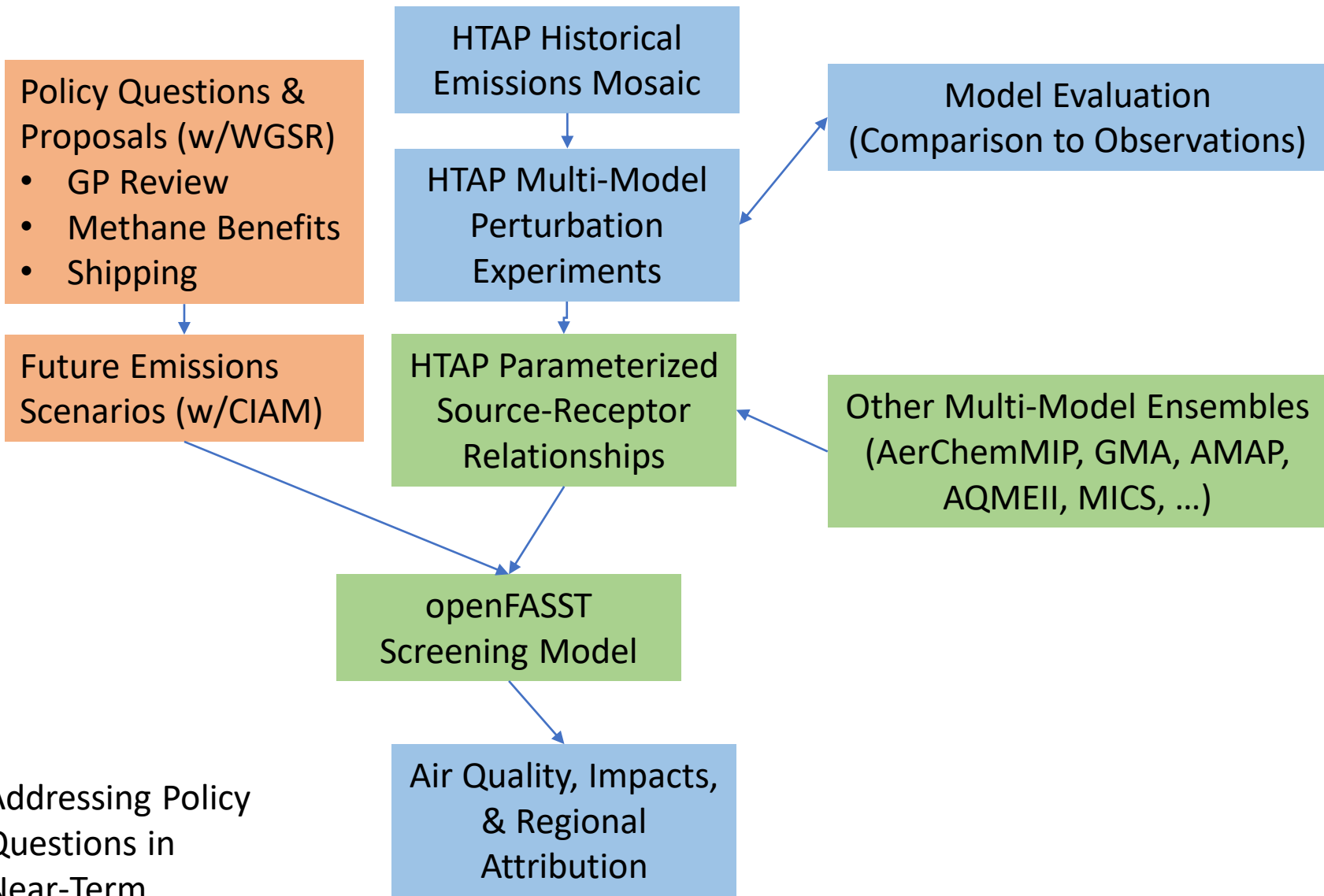
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(We've been waiting for this!)



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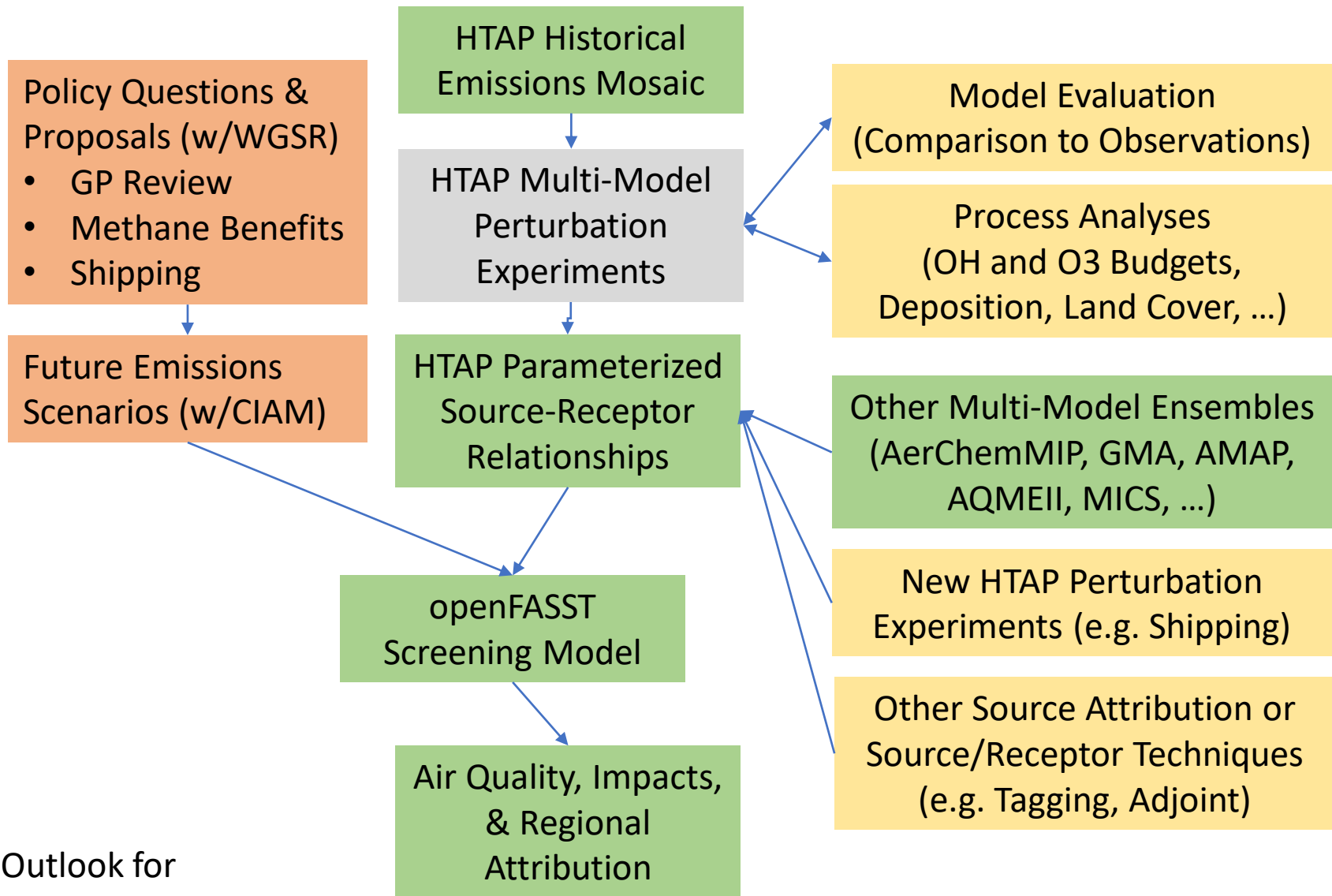


Addressing Policy Questions in Near-Term



# Applying the HTAP2 Parameterizations

(We've been waiting for this!)



Outlook for  
Next Two Years

# Other Issues for Discussion

- Potential Lessons from 2020 COVID-19 Disruptions?
- ...

# Next Steps

- Seeking Volunteers to Co-Lead Activities
- Stay Tuned in Coming Weeks for:
  - Launch of Science Policy Dialogue
  - HTAPv3 Partners Follow Up
  - S/R Derivation & openFASST Follow Up
- Migration and Renovation of <http://htap.org>
- Proposed Fall Meeting to Explore the Status of Activities in the Community on Hg and POPs