

Uncertainty Initiative

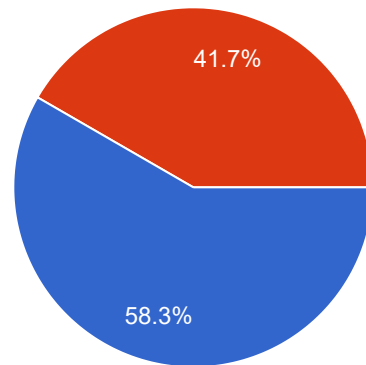
24 responses

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What best describes your **interest** in forecasting and planning with uncertainty?

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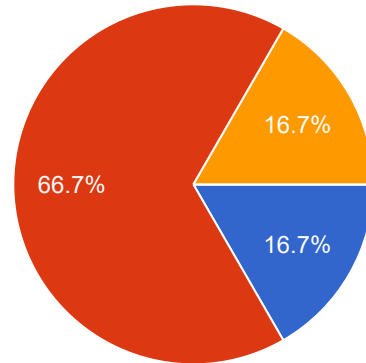
- Zealot - uncertainty is key to the future for transportation forecasting and planning
- Curious - could be worthwhile, but many questions remain
- Skeptic - sounds like a hot topic, but is it really worth the effort?



What best describes your **experience** in forecasting and planning with uncertainty?

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24 responses



- On the cutting edge - room to grow, but I'm doing all I can
- Advanced Beginner - I've done one or more analyses with uncertainty
- Newbie - I've read/talked a lot about it, but haven't gotten my hands dirty... yet
- Bystander - people seem to be talking about it, would love to...

Near Term Needs

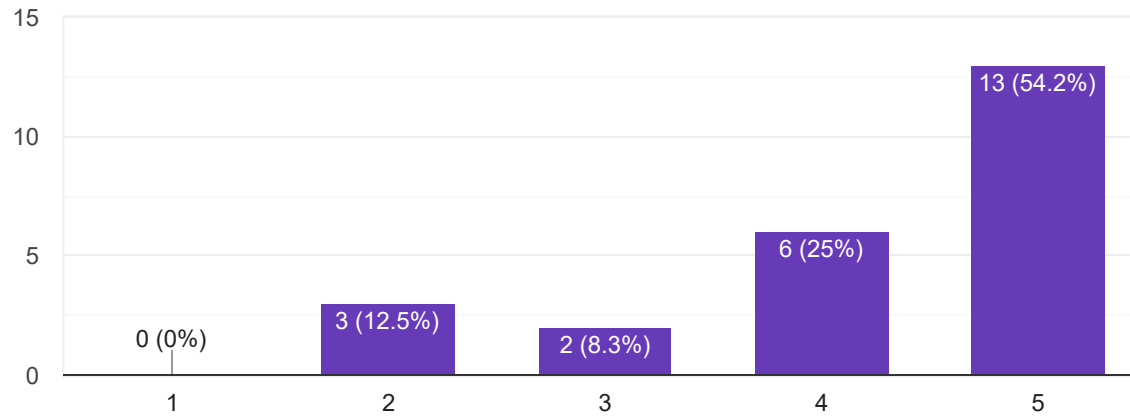
Definitions and References



Industry Standard Definitions for: scenario planning; exploratory scenario planning; sensitivity testing; exploratory modeling; etc.



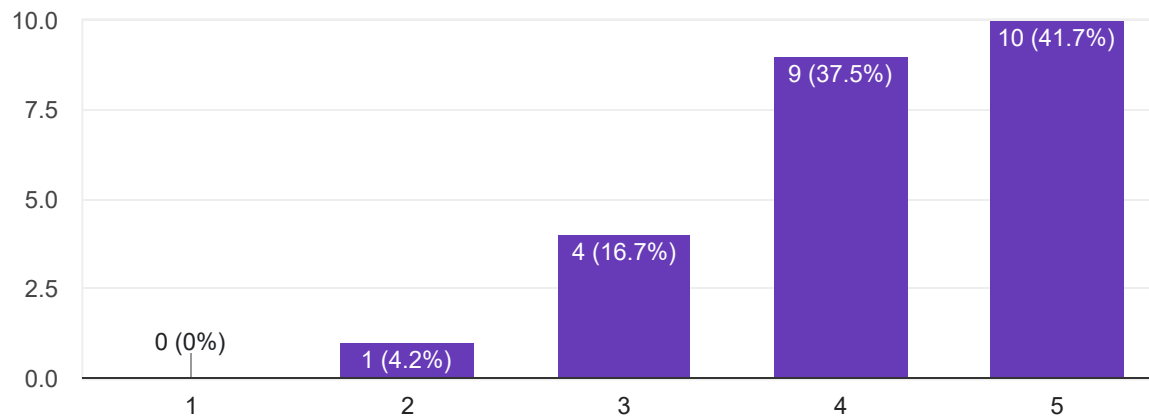
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State of the Practice Reference: high level record of current applications, variables tested, metrics used, level of effort



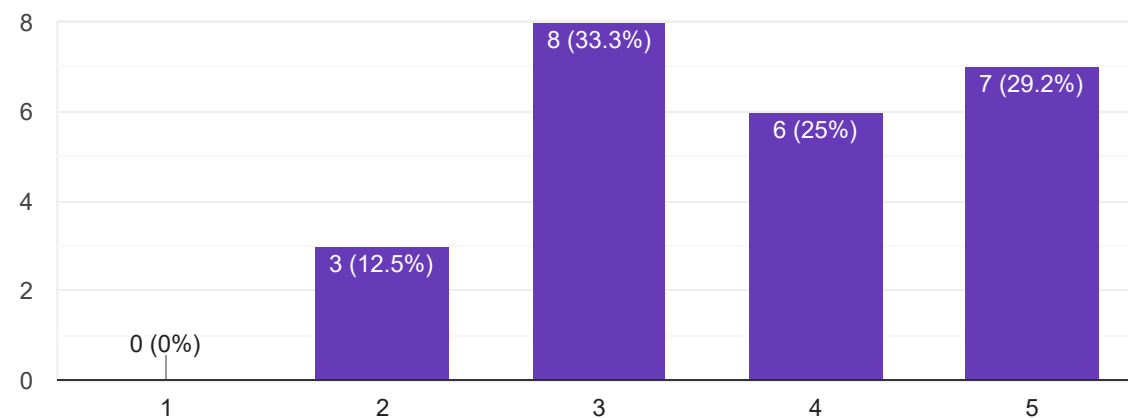
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Case Studies: deep dive into 3-5 experiences forecasting with uncertainty



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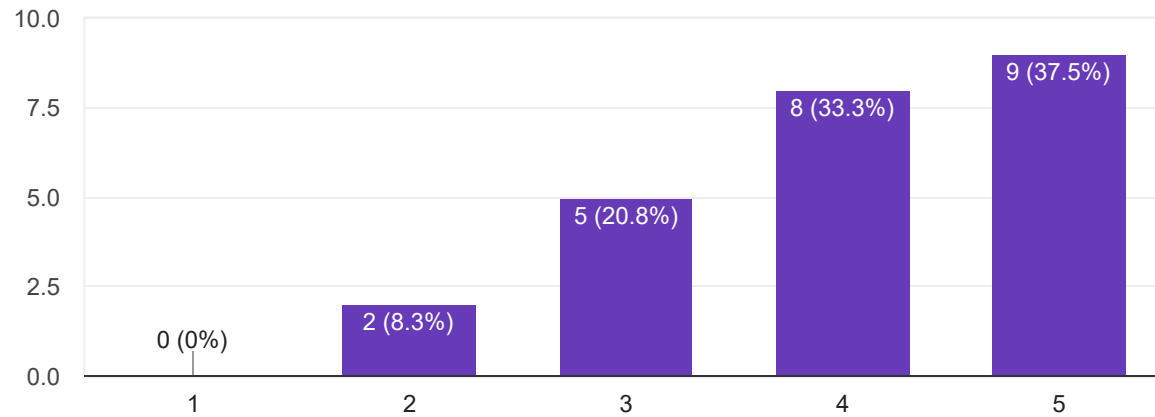
Information Sharing / Community Support



Discussion (debate?) on how to advance travel forecasting: reducing uncertainty through models with more information / complexity vs. using simpler models in an exploratory manner



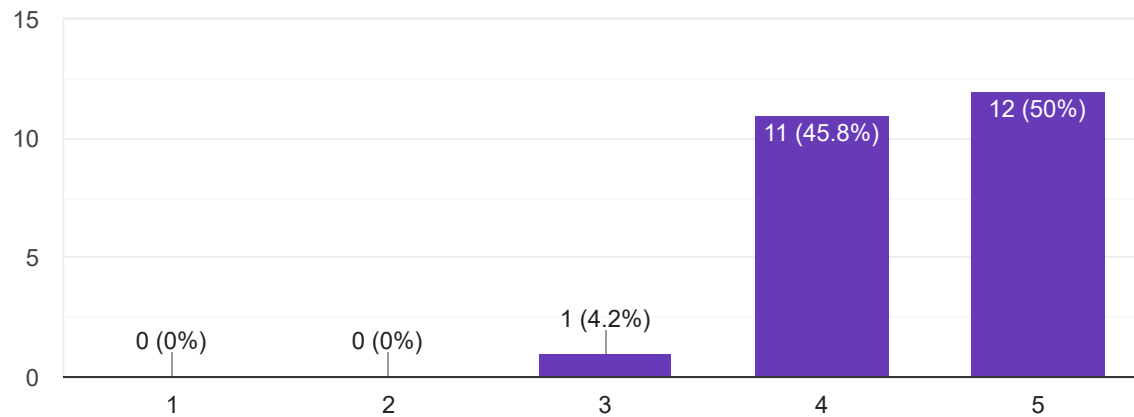
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Peer exchange of uncertainties identified vs. tested, input variables and ranges, output metrics.



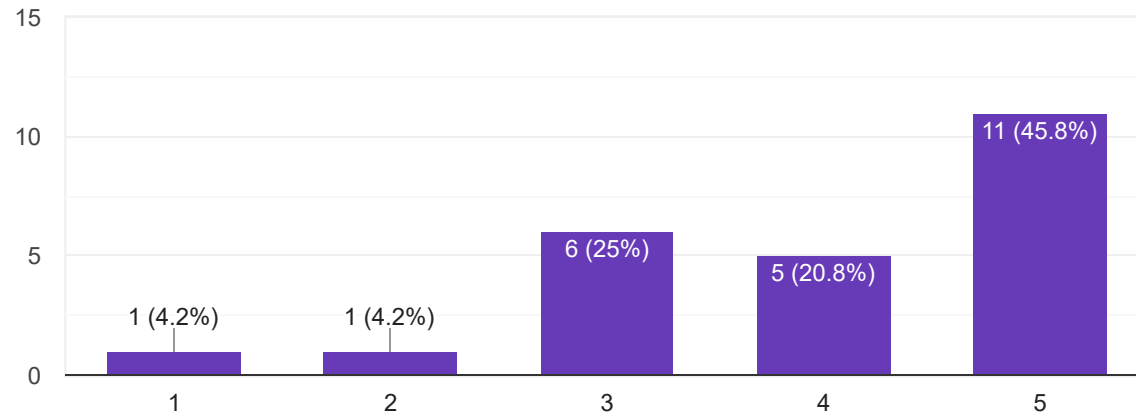
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Users group and support for open-source tools (e.g. TMIP-EMAT, VisionEval)

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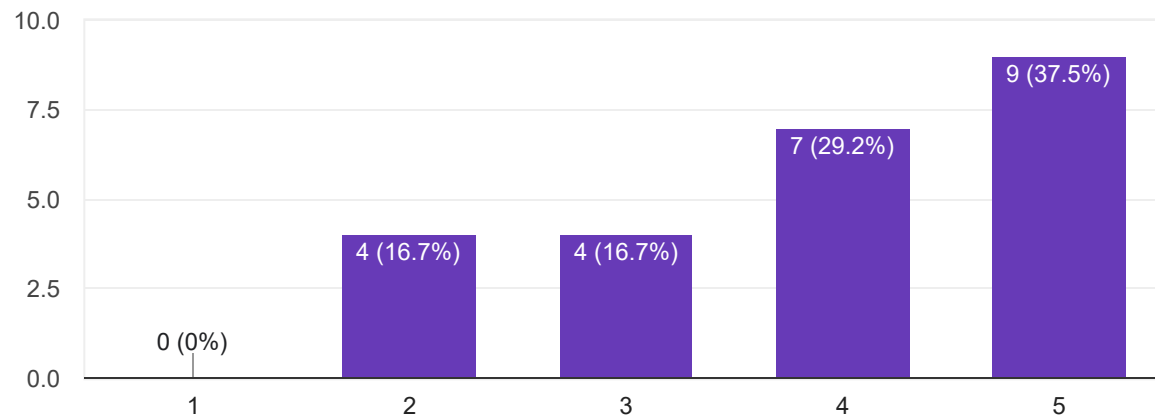
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Webinar panel with examples visualization and analysis techniques

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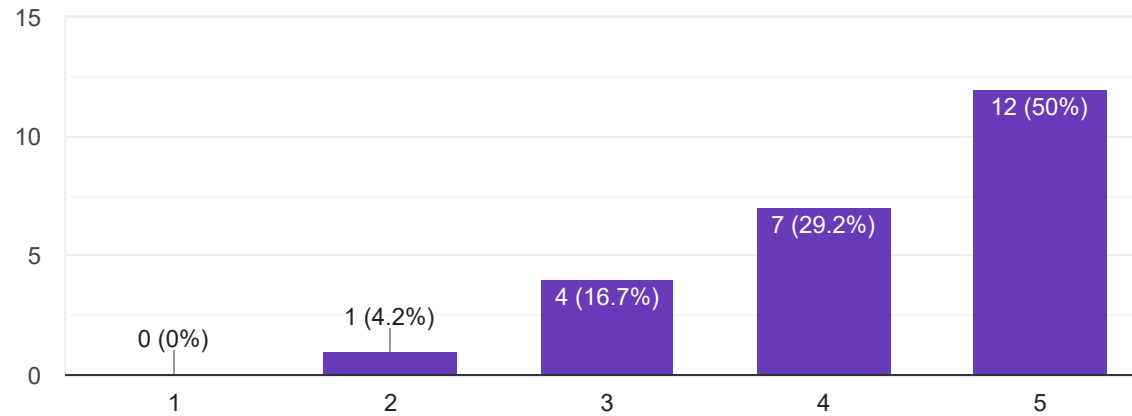
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Workshop to develop techniques to communicate uncertainty to stakeholders

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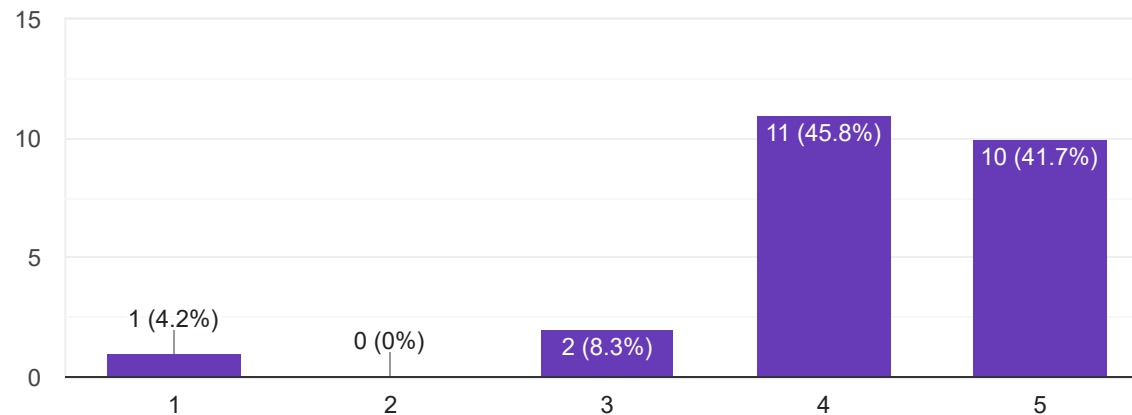


Long Term Needs

Produce/describe examples where incorporating uncertainty led to better decisions and was worth the effort

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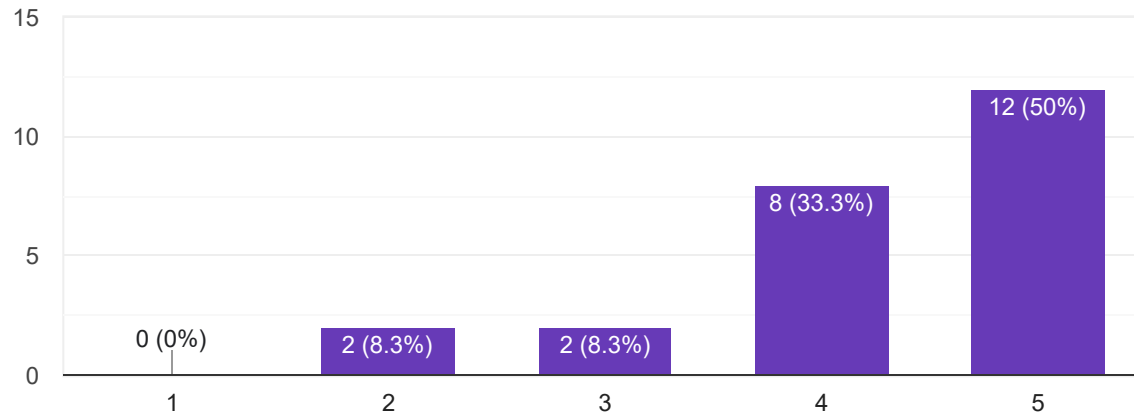
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Identify ways to mitigate the long model development process that makes modeling practice lag too much behind important questions

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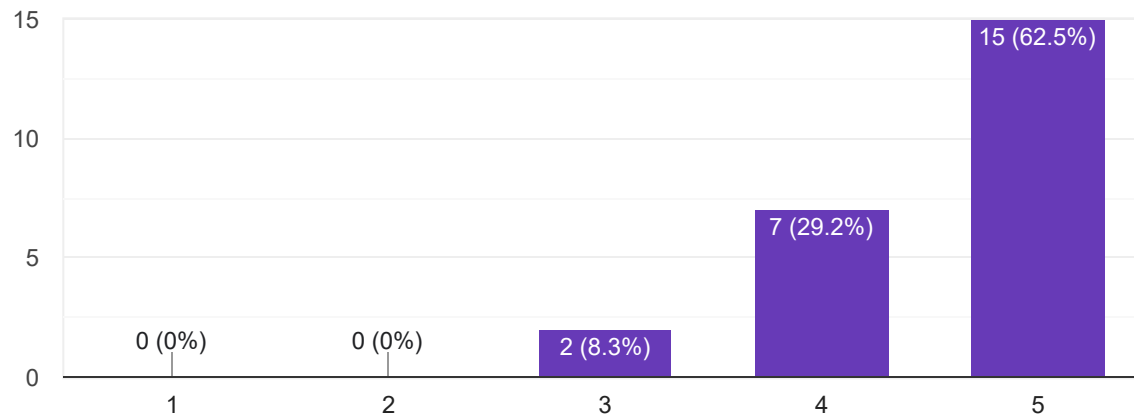
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Develop methods and visualizations to effectively communicate uncertainty to stakeholders

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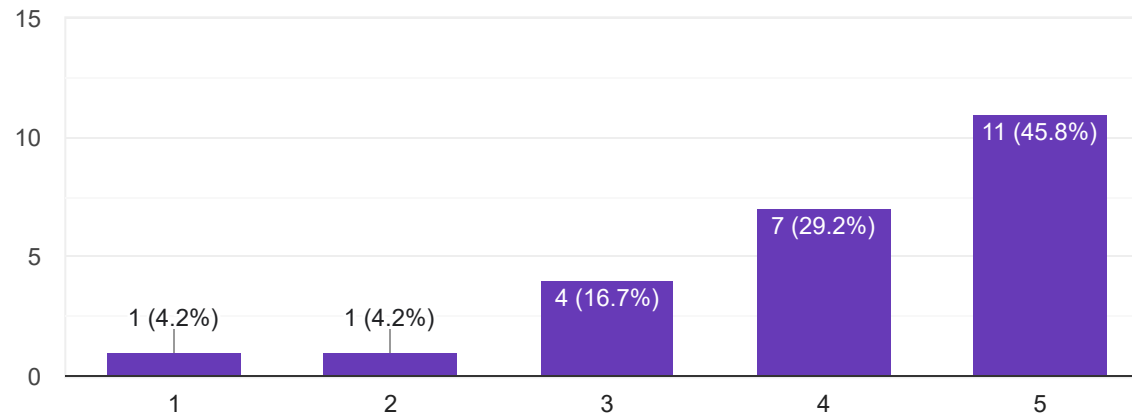
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Produce guidelines to program incremental or flexible infrastructure planning that can take advantage of new information

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What did we miss? How do you want to be involved?



Please describe areas that you think would be beneficial for the initiative to focus on

10 responses

Not sure if the group can take this on, but we need to find ways to continue to push federal requirements / practice to shift to monitoring and tweaking, as opposed to building static solutions for a future forecast.

Case studies that would help legitimize the use of uncertainty analysis in public decision making. We need evidence to help public decision makers defend and feel comfortable with using project evaluation/selection metrics derived from uncertainty principles.

How do we internally recognize uncertainty and not get too hung up on data fit with today's travel measures

How do we define uncertainty because it involves such a wide range of issues (e.g., model inputs - survey data, demographics, policy, technology, environment, intervening events, etc).

how to incorporate climate change, electric vehicles, technology changes into planning process?

list of uncertainty variables and their recommended range, situations where it is more applicable, communicate uncertainty analysis results to a general audience.

Focusing on developing/deploying ideas on an open source software such as BEAM and standardize (as much as possible) modeling uncertainty and its visualization and reporting would be helpful.

Simplified ways of incorporating uncertainty

Model inputs

Supporting open source tools (and associated technical support esp for new users) and associated peer community sharing of applications/experiences.



Communicating uncertainty to the public, visualizations, best practices

Please list any areas you would like to participate in

8 responses

I don't know if there are specific areas - still excited to help, but not sure where best to put me.

See above response.

visualization/communication and defining the problem

Communication and visualization of results

Open source software (transportation and land use +others) use for scenario planning, exploring future trajectories

Simplified ways of incorporating uncertainty

VisionEval (VE-State)

webinars on case studies, best practices

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